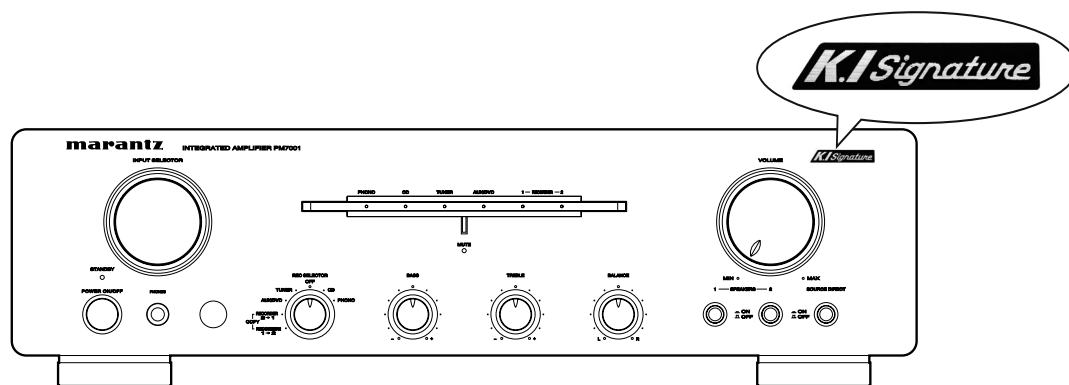


# Service Manual

PM7001KI /N1B/N1S

Integrated Amplifier



PM7001KI

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Please use this service manual with referring to the user guide ( D.F.U. ) without fail.  
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

# marantz®

## PM7001KI

## 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**  
1100 MAPLEWOOD DRIVE  
ITASCA, IL. 60143  
USA  
PHONE : 630 - 741 - 0300  
FAX : 630 - 741 - 0301

#### EUROPE / TRADING

**MARANTZ EUROPE B.V.**  
P. O. BOX 8744, BUILDING SILVERPOINT  
BEEMDSTRAAT 11, 5653 MA EINDHOVEN  
THE NETHERLANDS  
PHONE : +31 - 40 - 2507844  
FAX : +31 - 40 - 2507860

#### CANADA

**MARANTZ CANADA INC.**  
5-505 APPLE CREEK BLVD.  
MARKHAM, ONTARIO L3R 5B1  
CANADA  
PHONE : 905 - 415 - 9292  
FAX : 905 - 475 - 4159

#### AUSTRALIA

**QualiFi Pty Ltd,**  
24 LIONEL ROAD,  
MT. WAVERLEY VIC 3149  
AUSTRALIA  
PHONE : +61 - (0)3 - 9543 - 1522  
FAX : +61 - (0)3 - 9543 - 3677

#### THAILAND

**MRZ STANDARD CO., LTD**  
746 - 754 MAHACHAI ROAD.,  
WANGBURAPAPIROM, PHRANAKORN,  
BANGKOK, 10200 THAILAND  
PHONE : +66 - 2 - 222 9181  
FAX : +66 - 2 - 224 6795

#### SINGAPORE

**WO KEE HONG DISTRIBUTION PTE LTD**  
No.1 JALAN KILANG TIMOR  
#08-03 PACIFIC TECH CENTRE  
SINGAPORE 159303  
PHONE : +65 6376 0338  
FAX : +65 6376 0166

#### NEW ZEALAND

**WILDASH AUDIO SYSTEMS NZ**  
14 MALVERN ROAD MT ALBERT  
AUCKLAND NEW ZEALAND  
PHONE : +64 - 9 - 8451958  
FAX : +64 - 9 - 8463554

#### TAIWAN

**PAI- YUING CO., LTD.**  
6 TH FL NO, 148 SUNG KIANG ROAD,  
TAIPEI, 10429, TAIWAN R.O.C.  
PHONE : +886 - 2 - 25221304  
FAX : +886 - 2 - 25630415

#### MALAYSIA

**WO KEE HONG ELECTRONICS SDN. BHD.**  
2ND FLOOR BANGUNAN INFINITE CENTRE  
LOT 1, JALAN 13/6, 46200 PETALING JAYA  
SELANGOR DARUL EHSAN, MALAYSIA  
PHONE : +60 - 3 - 7954 8088  
FAX : +60 - 3 - 7954 7088

#### JAPAN *Technical*

**D&M Holdings Inc.**  
35- 1, 7- CHOME, SAGAMIONO  
SAGAMIHARA - SHI, KANAGAWA  
JAPAN 228-8505  
PHONE : +81 42 748 1013  
FAX : +81 42 741 9190

株式会社 ティーアンドエムホールディングス

本 社 〒228-8505  
神奈川県相模原市相模大野7-35-1

#### KOREA

**MARANTZ KOREA CO., LTD.**  
ROOM 604, ELECTRO OFFICE, 16-58,  
HANGGANG-RO 3GA, YONGSAN-KU,  
SEOUL, 140-013, KOREA  
PHONE : +82 - 2 - 323 - 2155  
FAX : +82 - 2 - 323 - 2154

### 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.

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

# 1. TECHNICAL SPECIFICATIONS

Power output (20 Hz ~ 20 kHz simultaneous drive of both channels)  
 ..... 70 W x 2 (8 Ω load)  
 ..... 100 W x 2 (4 Ω load)

Total harmonic distortion (20 Hz ~ 20 kHz simultaneous drive of both channels, 8 Ω load) ..... 0.02 %

Power band width (8 Ω load, 0.05 %) ..... 5 Hz ~ 60 kHz

Frequency response (CD, 1 W, 8 Ω load) ..... 5 Hz ~ 100 kHz ± 3 dB

Damping factor (8 Ω load, 20 Hz ~ 20 kHz) ..... 100

Input sensitivity/Input impedance

    PHONO (MM) ..... 2.5 mV/47 kΩ

    CD, LINE, TUNER, AUX/DVD, RECORDER ..... 200 mV/20 kΩ

    MAIN IN ..... 1.6 V/20 kΩ

Output voltage/Output impedance

    PRE OUT ..... 16 V/560 Ω

Maximum allowed PHONO input (1 kHz)

    MM ..... 130 mV

    RIAA deviation (20 Hz ~ 20 kHz) ..... ± 0.5 dB

S/N (IHF-A, 1 W, 8 Ω load)

    PHONO (MM) ..... 85 dB (5 mV input)

    CD, LINE, TUNER, AUX/DVD, RECORDER  
 ..... 88 dB (500 mV input)

    MAIN IN ..... 107 dB

Tone control

    Bass (50 Hz) ..... ± 10 dB

    Treble (20 kHz) ..... ± 10 dB

Power requirement ..... AC 230 V 50 Hz [N]

Power consumption

    (EN60065) ..... 250 W

    (4 Ω, 100 W x 2 output) ..... 470 W

Accessories

    Remote controller ..... 1

    AA batteries ..... 2

    Detachable AC power cable ..... 1

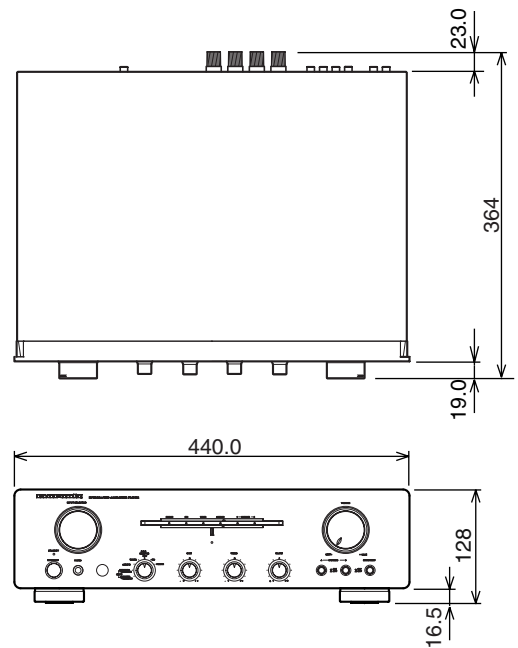
Maximum outer dimensions (Amplifier)

    Width ..... 440 mm

    Height ..... 128 mm

    Depth ..... 364 mm

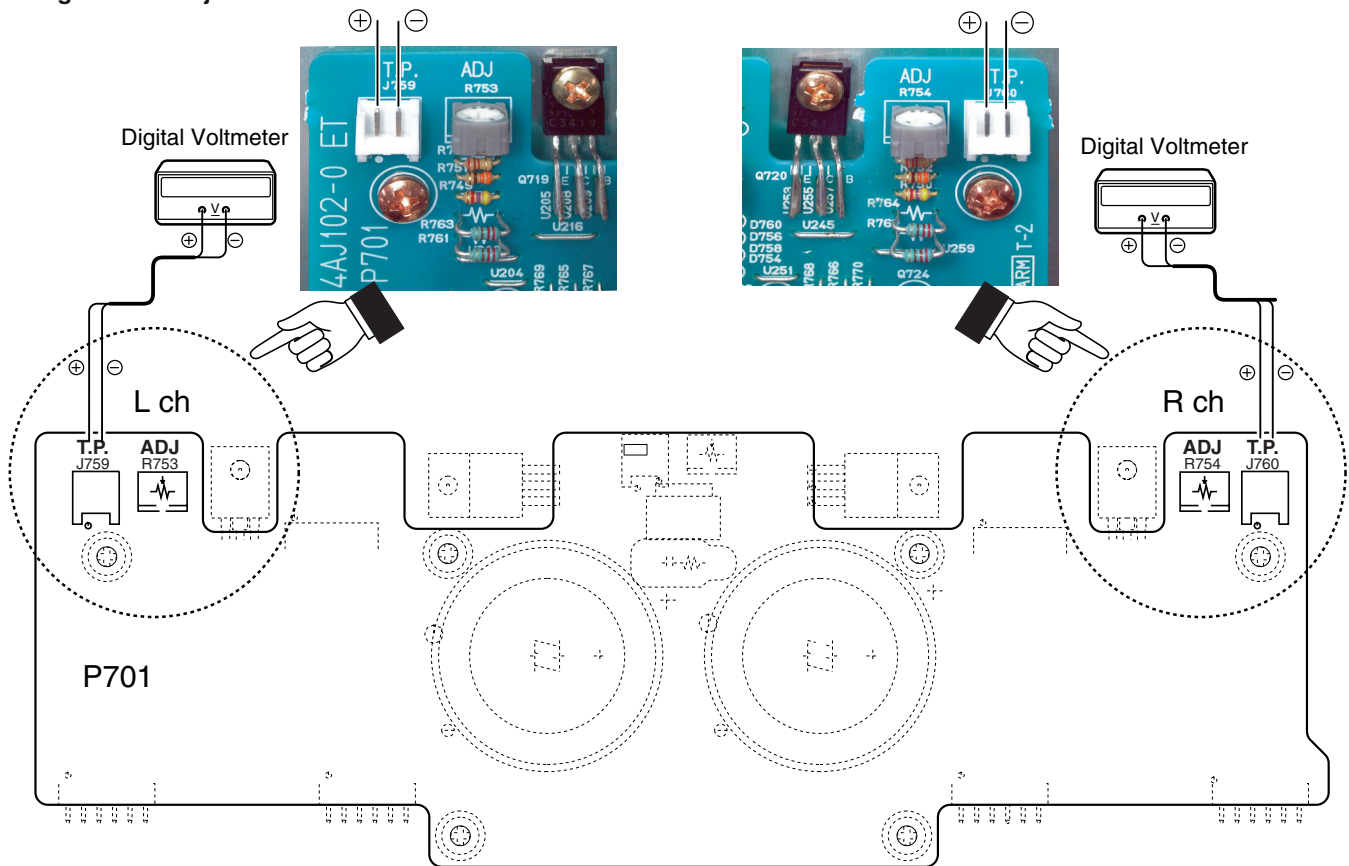
Weight (Amplifier) ..... 10.5 kg



## 2. ALIGNMENTS

### Idling Current Adjustment

### アイドルリング電流調整



#### Adjustment Procedure

Set the power voltage to rated voltage for this adjustment.

1. Adjust the Idling Current with the variable resistor **R753** and **R754** on the PWB P701.
2. Turn off the power.
3. "+" of Connect Digital Voltage is connected to the **No. 1 pin** and connected "-" to **No. 2 pin** of **J759**.
4. "+" of Connect Digital Voltage is connected to the **No. 1 pin** and connected "-" to **No. 2 pin** of **J760**.
5. Before turning on the power, **R753** and **R754** 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 **R753** (**R754**).

- Turn **R753** (**R754**) clockwise to increase the idling current.
  - The adjustment value of idling current is **4 mV(20 mA)  $\pm$  0.5 mV(2.5 mA) each.**
8. After 7 minutes.  
Repeat the same procedure as 7.
  - The adjustment value of idling current is **12 mV(60 mA)  $\pm$  0.5 mV(2.5 mA) each.**

#### 調整手順

調整時は必ず電源電圧を定格電圧に合わせてください。

1. P701 基板上の半固定抵抗 **R753** と **R754** でアイドルリング電流を調整します。
2. 電源を OFF します。
3. P701 基板の **J759** にデジタルポルトメーターを接続します。デジタルポルトメーターは **J759** の **1** 番ピン (丸印側) を "+"、2 番ピンを "-" に接続します。
4. P701 基板の **J760** にデジタルポルトメーターを接続します。デジタルポルトメーターは **J760** の **1** 番ピン (丸印側) を "+"、2 番ピンを "-" に接続します。
5. 電源を投入する前に半固定抵抗 **R753** と **R754** を、調整ドライバーで反時計方向に回しきってください。
6. 電源を投入しボリュームを  $-\infty$  にしてください。
7. 電源を投入後 2 分経過後。

P701 基板の **J759** (**J760**) に接続したデジタルポルトメーターの電圧値を監視しながら、半固定抵抗 **R753** (**R754**) をゆっくりと時計方向に回してください。

- **R753** と **R754** を時計方向に回すとアイドルリング電流が増加します。
  - アイドリング電流の調整値はそれぞれ **"4 mV(20 mA)  $\pm$  0.5 mV(2.5 mA)"** にします。
8. さらに "7 分" 経過後。  
上記 7. の手順でもう一度調整します。
  - アイドリング電流の調整値はそれぞれ **"12 mV(60 mA)  $\pm$  0.5 mV(2.5 mA)"** にします。

Adjustment is completed.

9. Remove connection cable, attach the top cover.

(Idling current decreases with the temperature rise inside the unit, and it is set to 10 mV (50 mA) of setting value in about 30 minutes after turn on the power.)

以上で調整は完了です。

9. デジタルボルトメーターの接続を外し、トップカバーを取付けます。

(調整終了後トップカバーを取付けるとセット内部の温度上昇に伴いアイドリング電流が減少し、電源投入後約30分で設定値の "10 mV(50 mA)" になります)。

### 3. SERVICE MODE

#### Microprocessor (Q201) version check

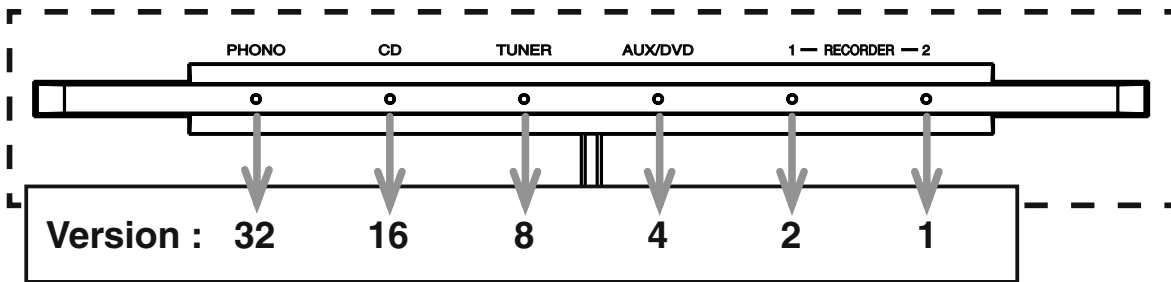
Operate by using [Remote controller RC4001PM]

1. Press the **POWER** button to turn on the unit.
2. Press **RECORDER 2 (TAPE)** button and press **7, 6, 0, 0** button on the remote controller.  
( Please each button within 3 seconds)
3. All LED light up then each LED light up then the firmware version is displayed on the front LED

#### Microprocessor (Q201) VERSION 確認

操作はリモコン (RC4001PM) を使用します。

- 1) **POWER** ボタンを押し、本体の電源をいれます。
- 2) リモコンの **RECORDER 2 (TAPE)**、**7**、**6**、**0**、**0** ボタンを順に押します。  
(各ボタンは3秒以内に押してください)
- 3) フロントパネルのLEDが全点灯後、FIRMWAREのバージョンがLEDにて表示されます。



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 TUNER (8), **Version: 9**

LEDが点灯している箇所がバージョン表示です。

表示例 :

- 点灯 RECORDER-2(1), **Version: 1**
- 点灯 RECORDER-2(1) and AUX/DVD (4), **Version: 5**
- 点灯 RECORDER-2(1) and TUNER (8), **Version: 9**

4. Turn off the power to quit Service Mode.  
(The unit to the default status)

- 4) 電源を切ると SERVICE モードが解除されます。  
(本機は、各種設定された内容が初期化され、工場出荷時の状態に戻ります)

## 4. WRITING MAIN MICROPROCESSOR (Q201) PROCEDURE

Microprocessor needs writing software, when a microprocessor (Q201) is replaced.

### NECESSARY EQUIPMENT

- Windows PC (OS : Windows2000 or WindowsXP) 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 (PM7001\_xxxx.h16)  
NOTE: xx is a revision number.

### WRITING PROCEDURE

Disconnect the mains cord from the unit.

Connect RS-232C on the connection JIG and Serial Port of windows PC with RS-232C cable.

Connect FPC (upside contact) to the rear panel of the unit from connection JIG.

メインマイコン Q201 を交換したときは、Q201 ヘプログラムを書き込む必要があります。下記手順に従って書き込みをしてください。

### 必要機器

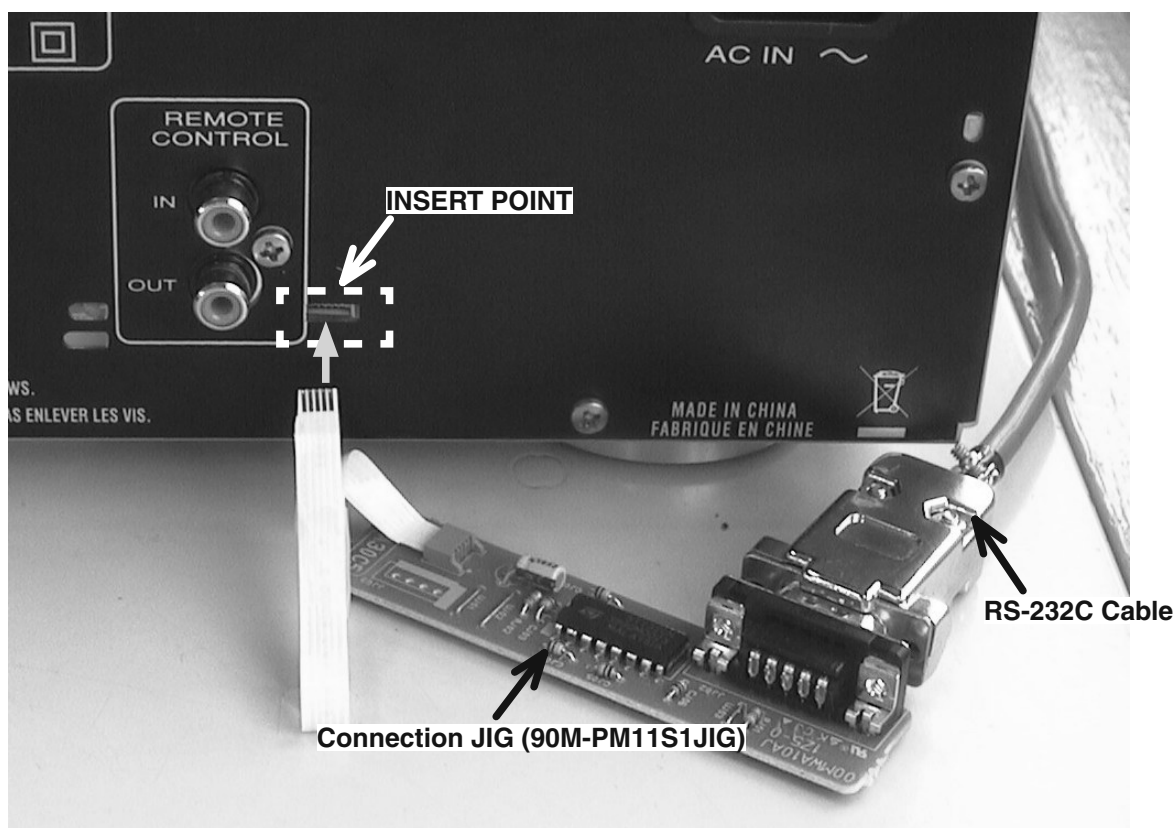
- Windows PC (OS : Windows2000 または WindowsXP) で Serial ポートのあるもの
- RS-232C ストレートケーブル (9Pin メス -9Pin メス)
- 接続治具 (90M-PM11S1JIG)
- 書き込み用ソフトウェア一式 (M86FH47pass フォルダ内 FlashProg.exe、他)
- 書き込み用データ (PM7001\_xxxx.h16)

### 書き込み手順

本機の電源ケーブルを抜きます。

Windows PC の Serial Port と接続治具を RS-232C ケーブルで接続します。

本機のリアパネルに接続治具の FPC をコンタクト面を上にして差し込みます。



Reconnect the mains cord to the unit.

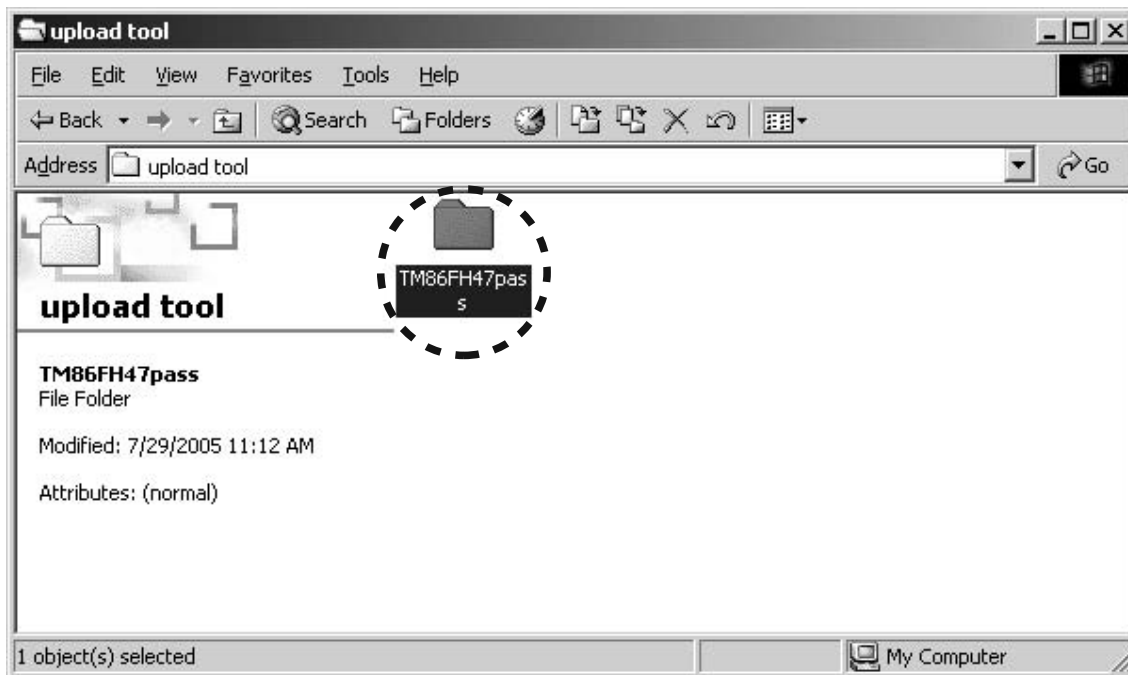
Put the "TM86FH47pass" folder into anywhere on your PC's hard disc.

本機の電源ケーブルを差し込みます。

TM86FH47pass フォルダを Windows PC の任意のフォルダにコピーします。

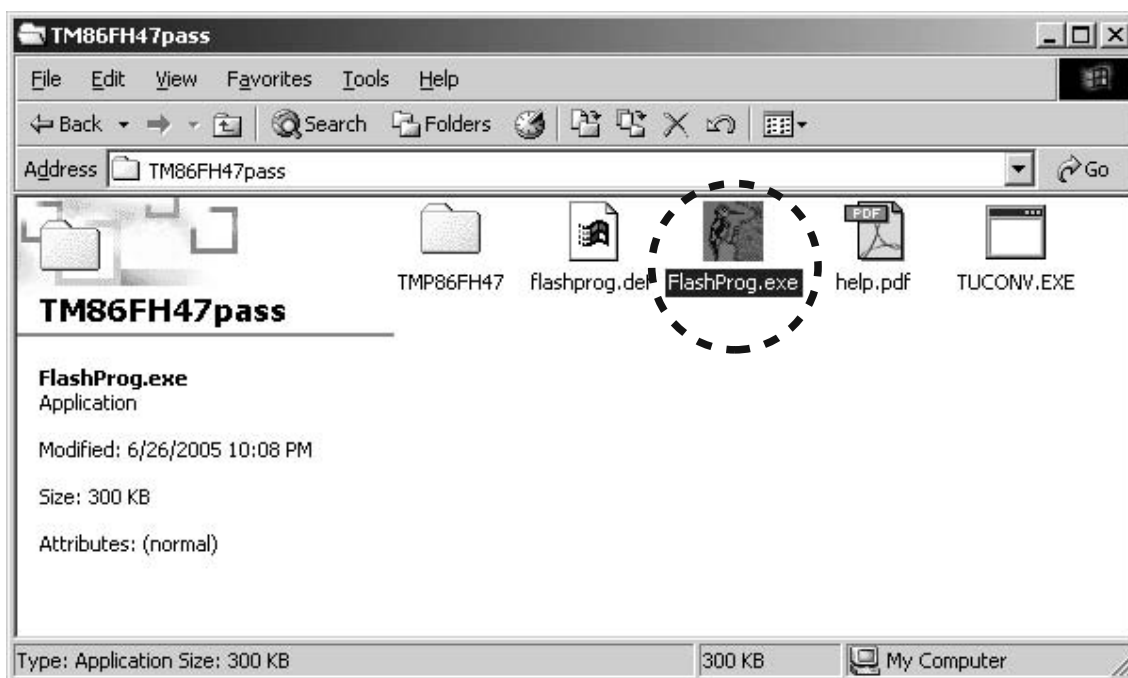
Double click the **TM86FH47pass** folder.

**TM86FH47pass** フォルダをダブルクリックして開きます。



Double click **FlashProg.exe**.

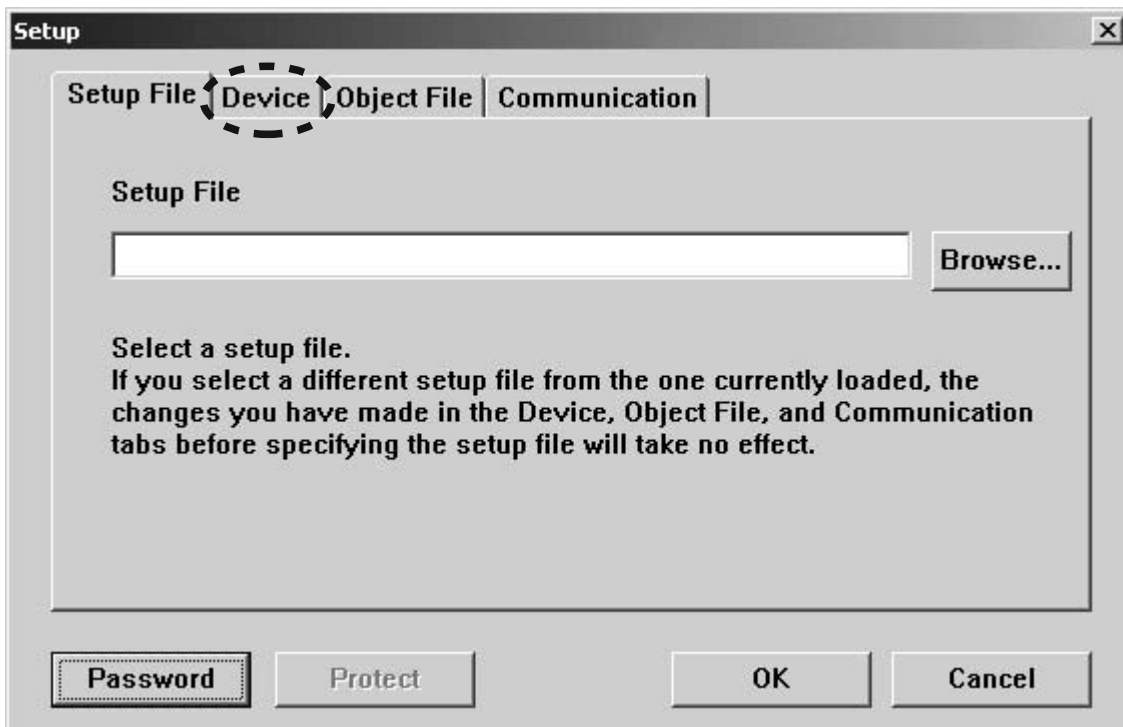
**FlashProg.exe** をダブルクリックします。





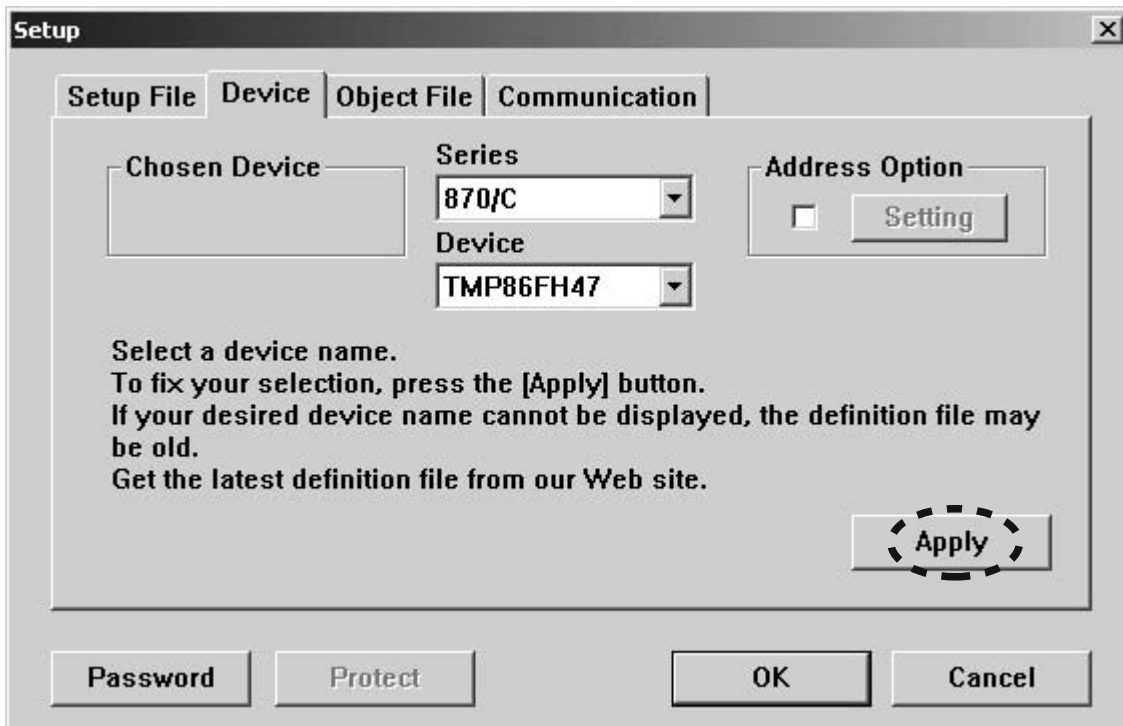
Click **Device**.

**Device** をクリックします。



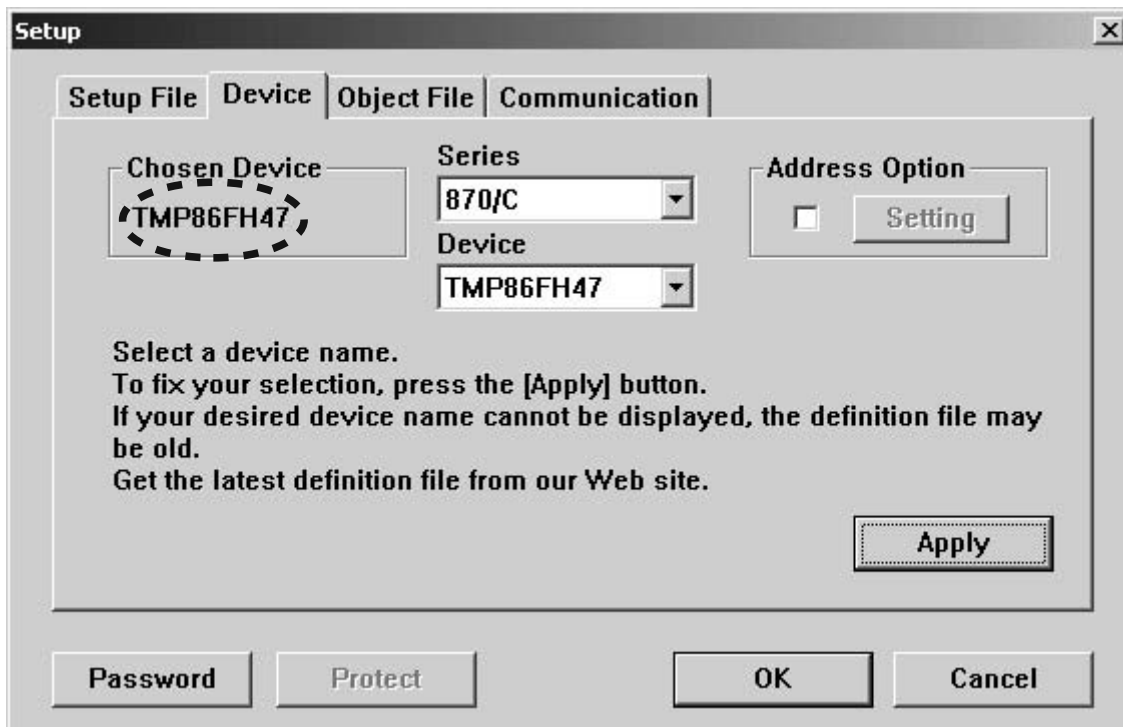
Click **Apply**.

**Apply** をクリックします。



TMP86FH47 appear in Chosen Device.

Chosen Device に TMP86FH47 が入力されます。



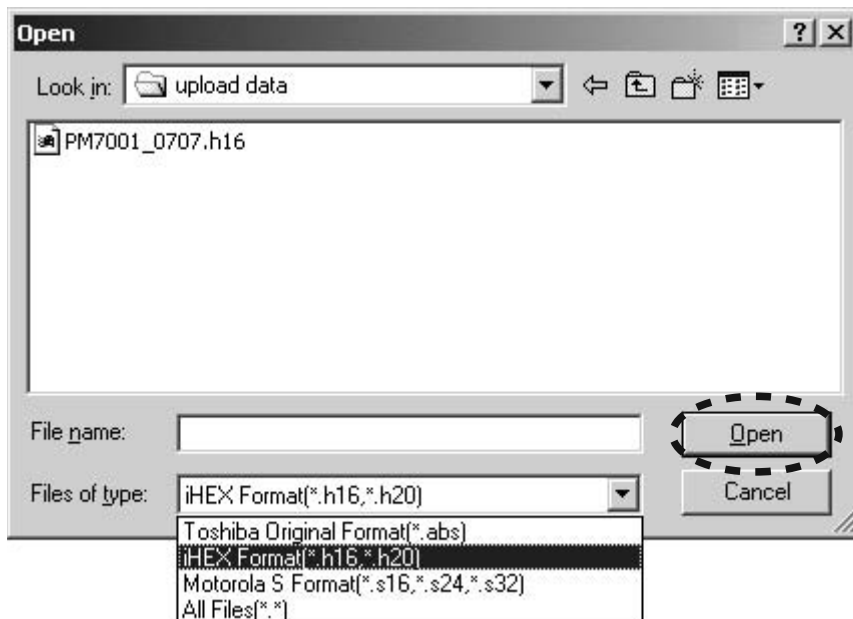
Click **Object File**, and click **Browse...**

**Object File** をクリックし、**Browse...** をクリックします。



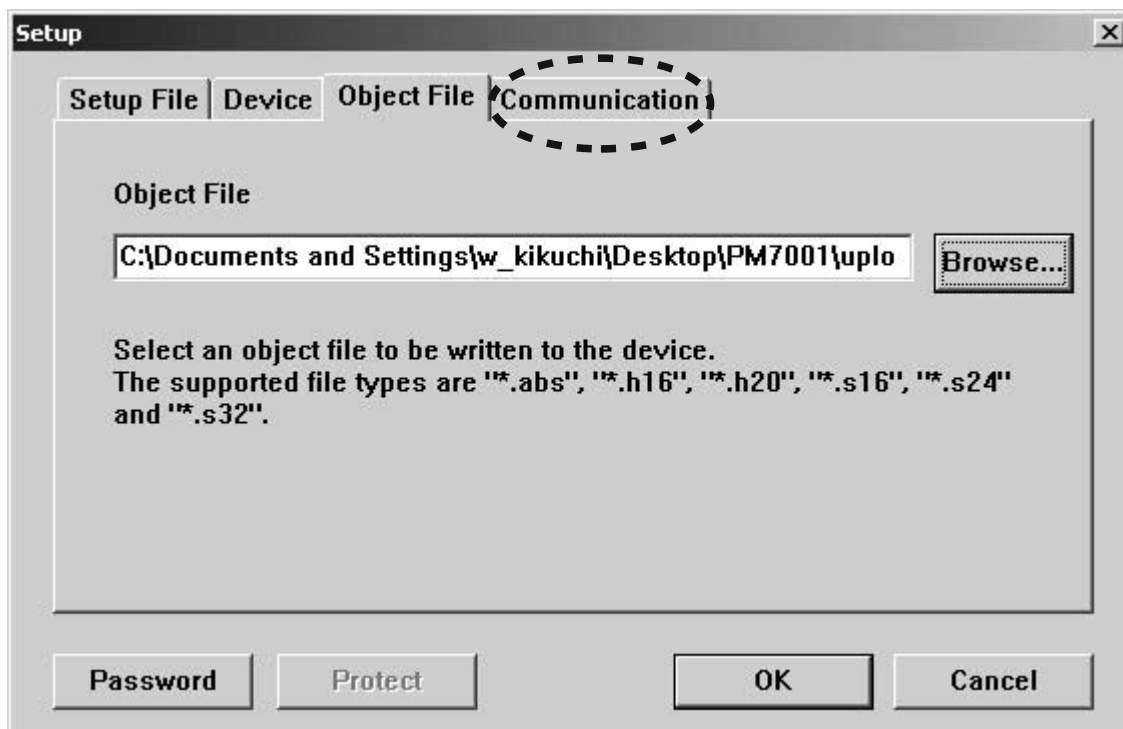
Choose **iHEX Fomat[\*.h16,\*.h20]** in Files of type.  
Choose writing data, and click **Open**.

Files of type から **iHEX Fomat[\*.h16,\*.h20]** を選び、書き込み用データファイルを選択して **Open** をクリックします。(書き込むファイル名は変わることがあります。)



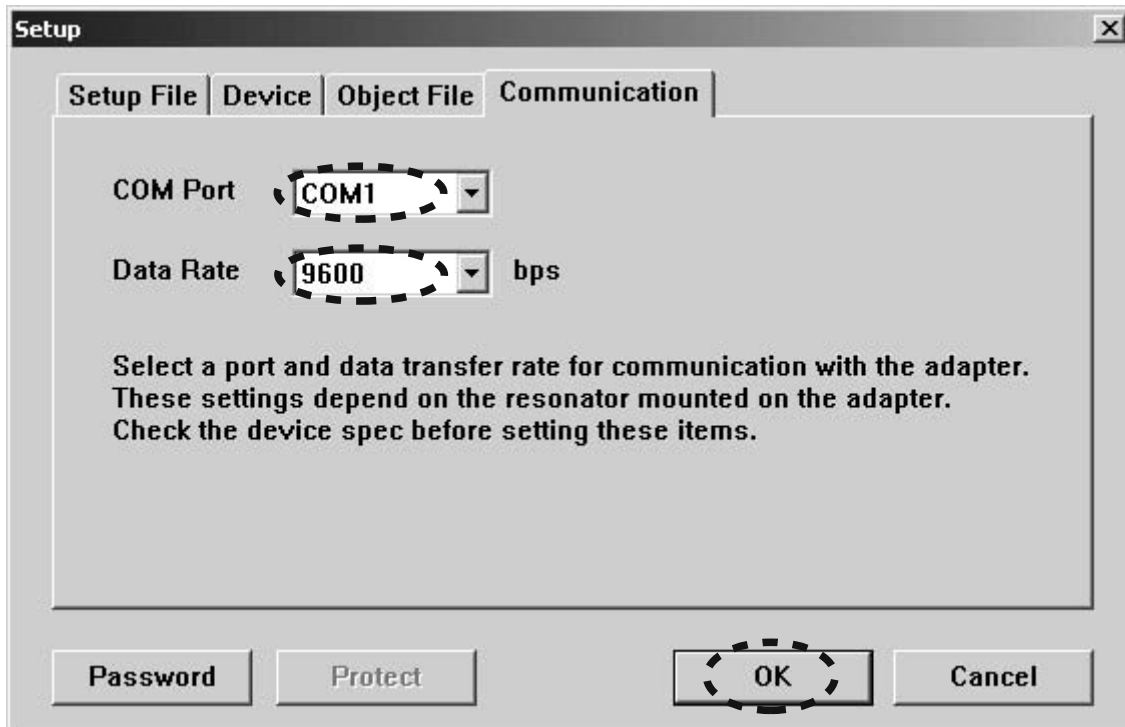
Click **Communication**.

**Communication** をクリックします。



Choose **COM port number** in COM port.  
 Choose **9600** in Data Rate.  
 Click **OK**.

COM Port から接続する **COM Port 番号** を選びます。  
 Data Rate から **9600** を選択します。  
**OK** をクリックします。

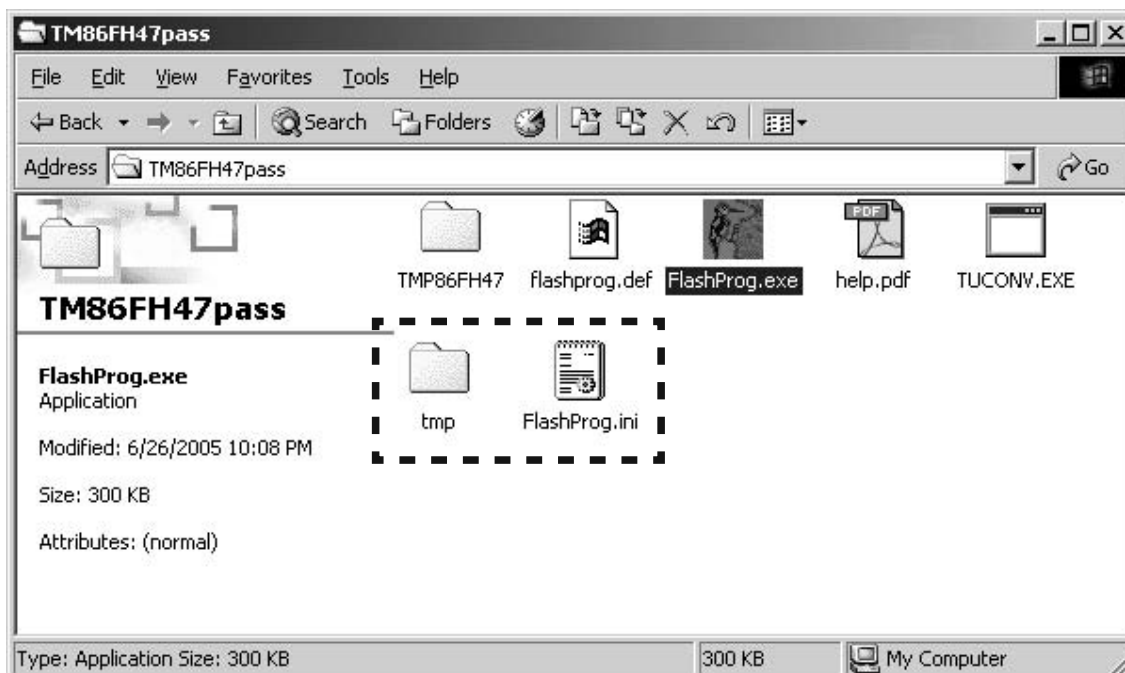


When Setup window is closed, the tmp folder and FlashProg.ini file are created simultaneously.

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

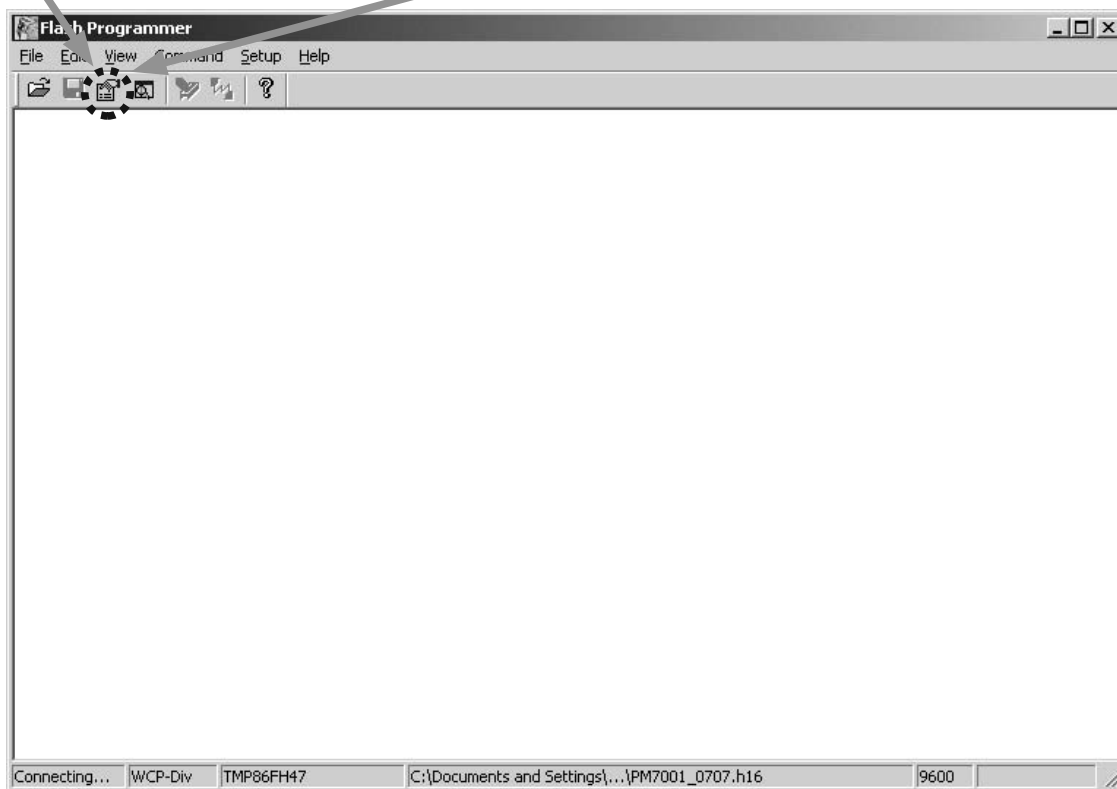
この時 TMP86FH47pass フォルダに tmp フォルダと FlashProg.ini ファイルが作成されます。

**注意 :** これらは今設定した Windows PC 独自の設定ファイルになります。他の PC にこれらのファイルをコピーしても正しく動作しません。もし他の PC で動作させる場合は tmp フォルダと FlashProg.ini ファイルは削除して設定をやり直してください。



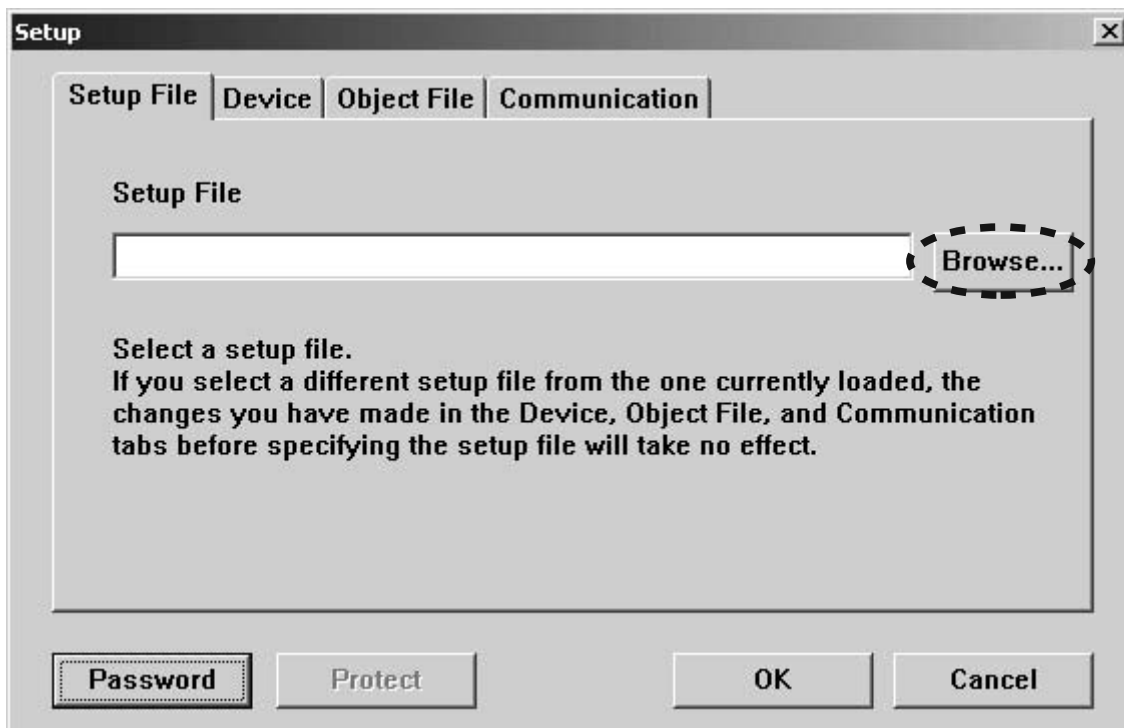
The Flash Programmer is launched.  
Click **setup** icon.

setup が閉じ、Flash Programmer が立ち上がります。  
setup アイコンをクリックします。



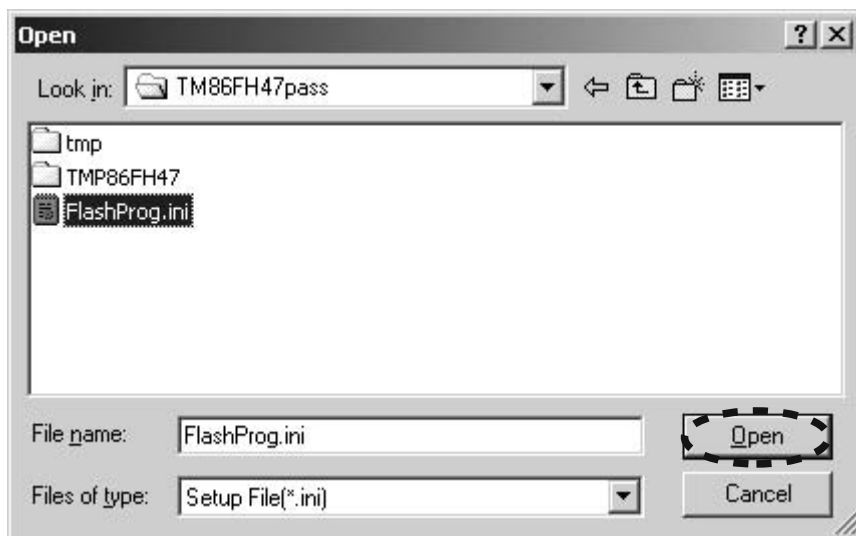
Click **Browse...**

**Browse...** をクリックします。



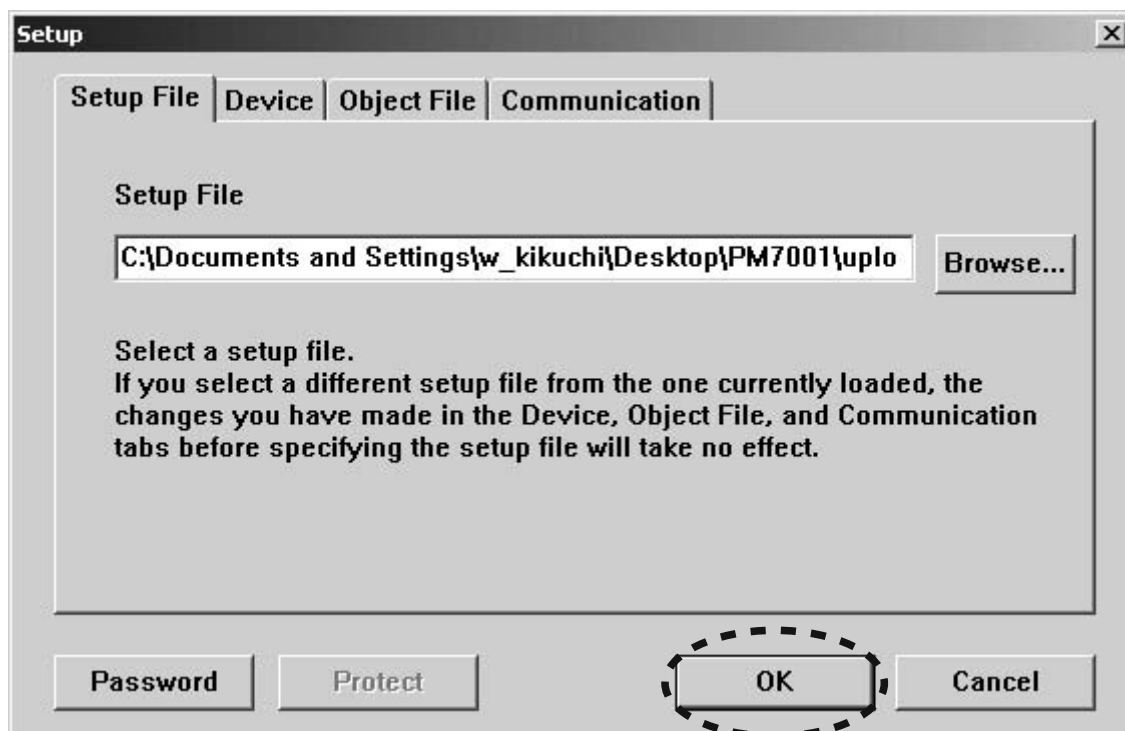
Choose **FlashProg.ini** in TM86FH47pass folder, and click **Open**.

TM86FH47pass フォルダから **FlashProg.ini** を選び、**Open** をクリックします。



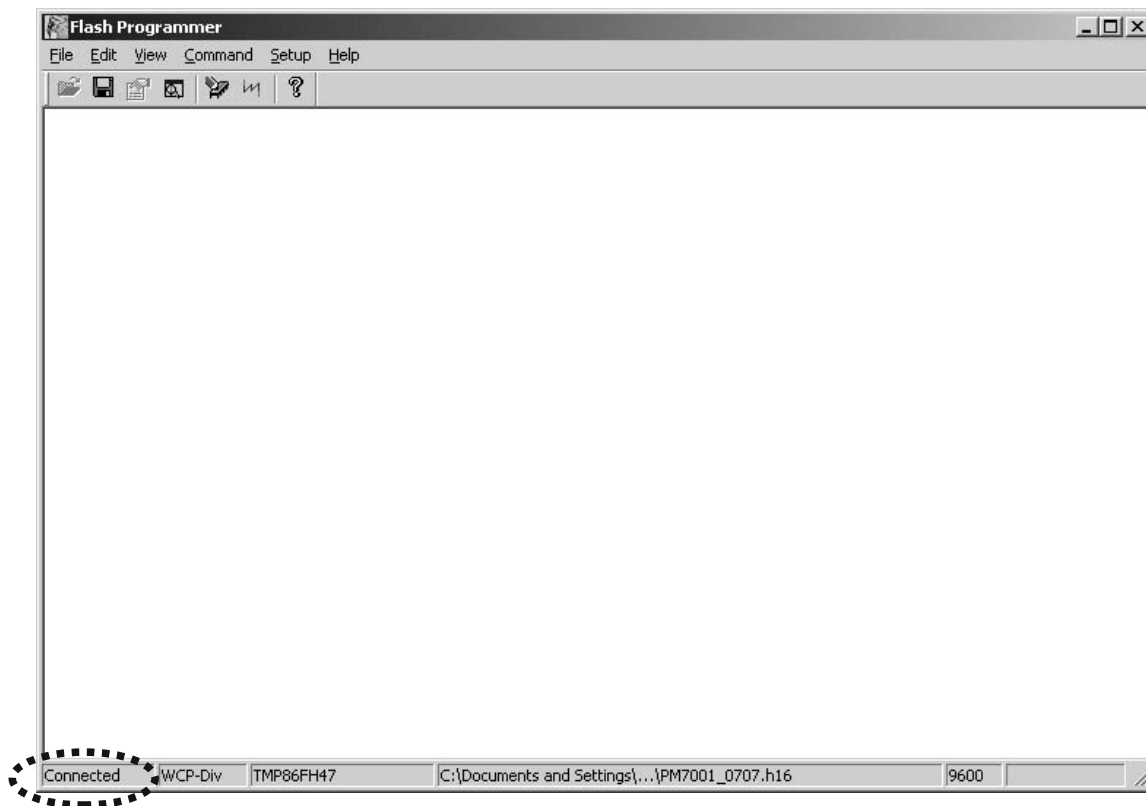
Click **OK**.

**OK** をクリックします。



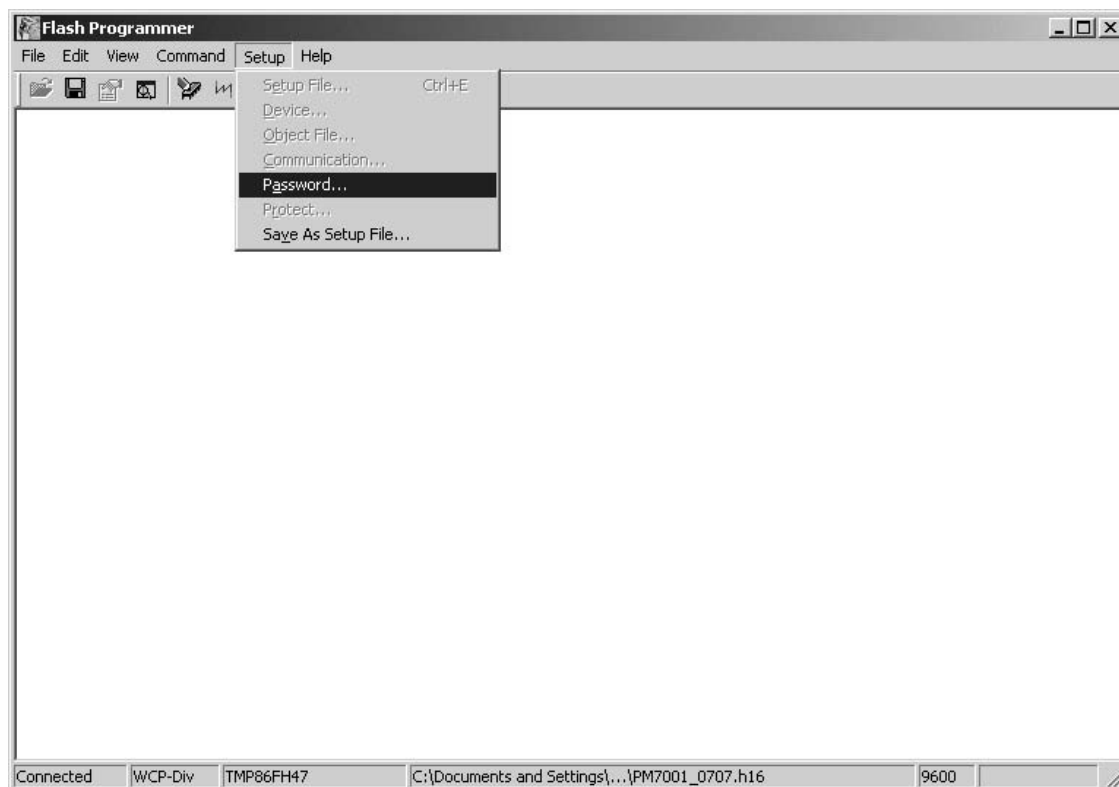
Press the **POWER ON/OFF** button, and turn on the unit.  
Status indication at lower left in Flash Programming window is changed to "Connected" from "Connecting".  
When it did not changed, check the connection of FPC or RS-232C cable.

本機の電源スイッチをオンにします。  
Flash Programming ウィンドウの左下のステータスが Connecting から Connected に変わります。もし Connected に変わらないときは接続を確認してください。



Select **Password** in **Setup**.

**Setup** から **Password** を選びます。





Setup Password opens.

Setup Password 画面が開きます。

**Setup Password**

**Address Mode**

Single Chip Mode     Single Boot Mode

**Device Password**

Device is BLANK

**Input Type**     Ascii     Hex

**Password** [ ]

**Password Character Number Address** [ ]

**Password Compare Start Address** [ ]

**Object File Password**

Use Device Password

BLANK Password

**Input Type**     Ascii     Hex

**Password** [\*\*\*\*\*]

**Password Character Number Address** [0xFF00]

**Password Compare Start Address** [0xFF01]

Help    OK    Cancel

- When writing in a blank microprocessor  
Refer to 16 page
- When writing (update) in the already written-in microcomputer  
Refer to 17 page

- ブランクマイコンに書き込む場合は、次のページへ
- 既書き込まれたマイコンに書き込む場合 (アップデート) は、17 ページへ

[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.

Password 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**.

[ ブランクマイコンに書き込む場合 ]

Address Mode から **Single Boot Mode** にチェックを入れます。

Device Password 内の設定

**Device is BLANK** のチェックボックスにチェックを入れます。

input type から **Hex** にチェックを入れます。

Password、Password Character Number Address、Password Compare Start Address は自動的に入力されますので変更しないでください。

Object File Password 内の設定

**BLANK Password** にはチェックを 入れない てください。

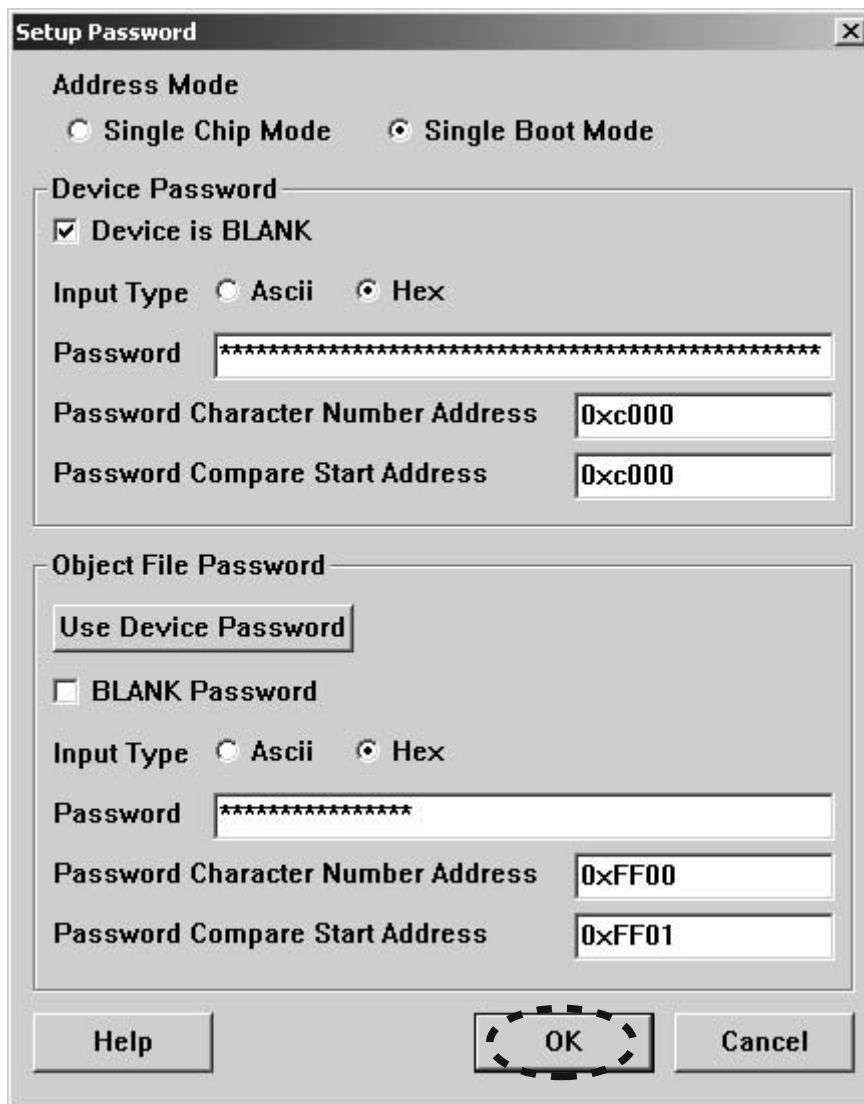
Input Type から **Hex** にチェックを入れてください。

Password に **0102030405060708** を入力します。

Password Character Number Address に **0xFF00** を入力します。

Password Compare Start Address に **0xFF01** を入力します。

**OK** をクリックします。



**[When writing (update) in the already written-in microcomputer]**

Check **Single Boot Mode** in Address Mode.

Setting in Device Password

Do not 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**.

**[ 既に書き込まれたマイコンに書き込む場合 (アップデート) ]**

Address Mode から **Single Boot Mode** にチェックを入れます。

Device Password 内の設定

**Device is BLANK** のチェックボックスにチェックを 入れない てください。

input type から **Hex** にチェックを入れます。

Password に **0102030405060708** を入力します。

Password Character Number Address に **0xFF00** を入力します。

Password Compare Start Address に **0xFF01** を入力します。

Object File Password 内の設定

**BLANK Password** にはチェックを 入れない てください。

Input Type から **Hex** にチェックを入れてください。

Password に **0102030405060708** を入力します。

Password Character Number Address に **0xFF00** を入力します。

Password Compare Start Address に **0xFF01** を入力します。

**OK** をクリックします。

Auto Programming opens.

Auto Programming の設定画面が開きます。

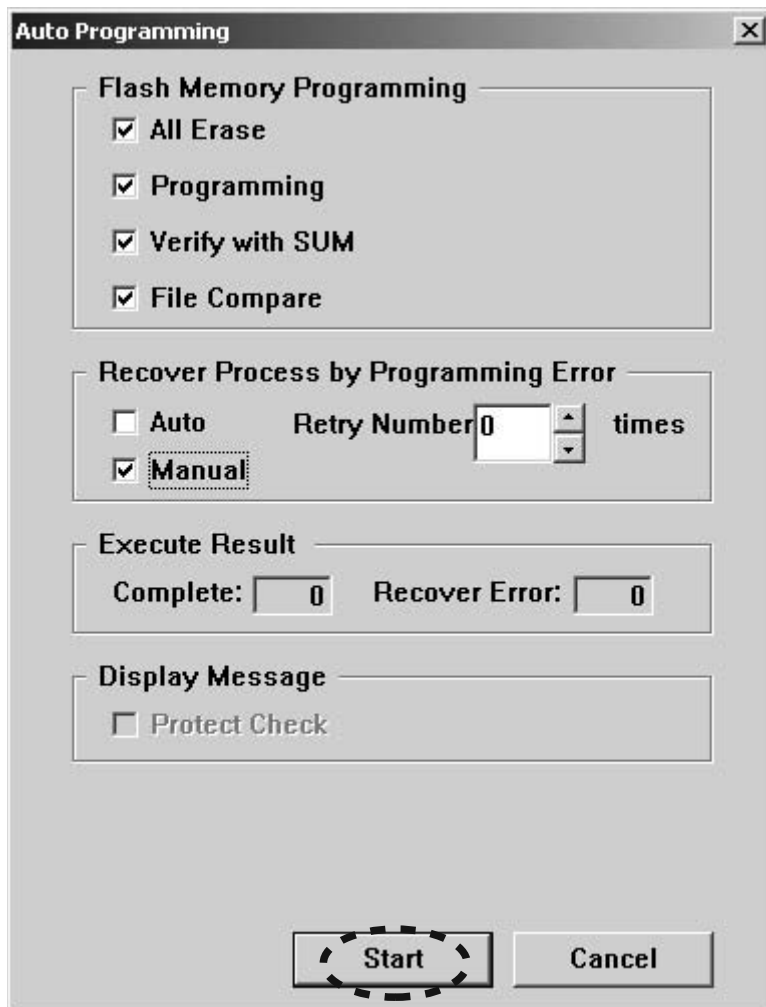
The image shows a dialog box titled "Auto Programming" with a close button (X) in the top right corner. The dialog is organized into four main sections, each enclosed in a rounded rectangle:

- Flash Memory Programming:** Contains four unchecked checkboxes: "All Erase", "Programming", "Verify with SUM", and "File Compare".
- Recover Process by Programming Error:** Contains two unchecked checkboxes: "Auto" and "Manual". To the right of the "Auto" checkbox is a "Retry Number" field with a spinner control showing the value "0" and the text "times".
- Execute Result:** Contains two numeric input fields: "Complete:" followed by a field with "0", and "Recover Error:" followed by a field with "0".
- Display Message:** Contains one unchecked checkbox: "Protect Check".

At the bottom of the dialog, there are two buttons: "Start" and "Cancel".

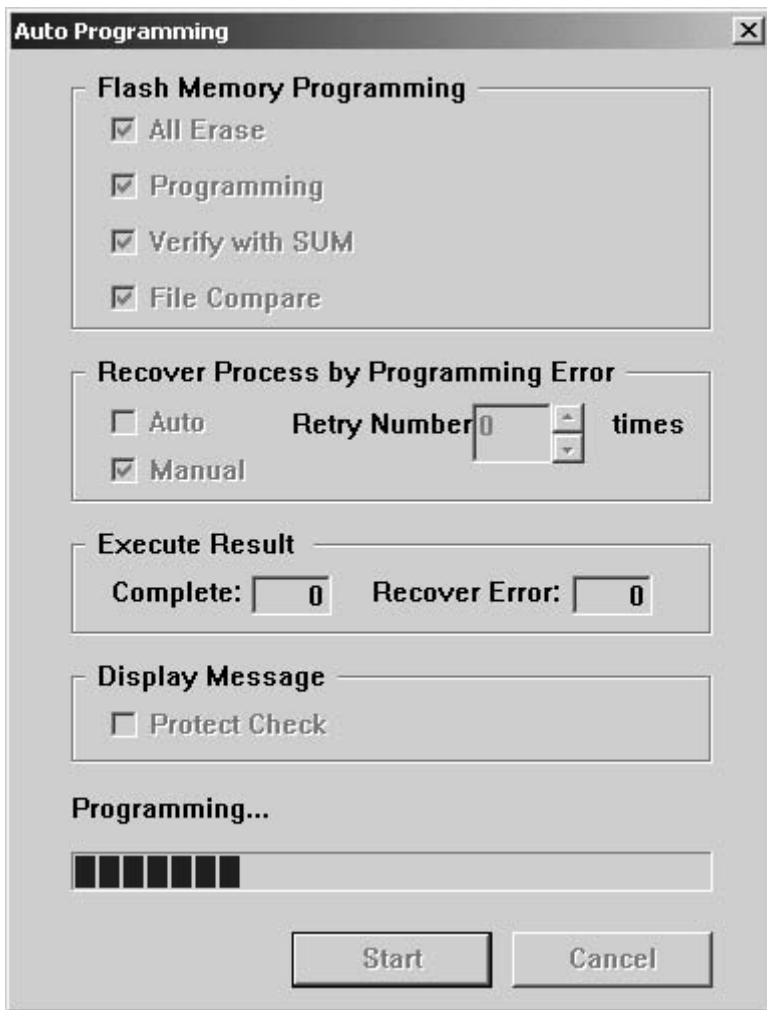
Check **All Erase**, **Programming**, **Verify with SUM** and **File Compare** in Flash Memory Programming.  
Check **Manual** in Recover Process by Programming Error.  
Click **Start**.

Flash Memory Programming 内の設定は **All Erase**、**Programming**、**Verify with SUM**、**File Compare** にチェックを入れます。  
Recover Process by Programming Error 内の設定は **Manual** にチェックを入れます。  
**Start** をクリックします。



Writing data is written into the microprocessor (Q201).

Microprocessor (Q201) への書き込みが行われます。



Click **Yes**, when writing is successful.

書き込みが成功すると下記のような画面が出ますので **Yes** をクリックします。



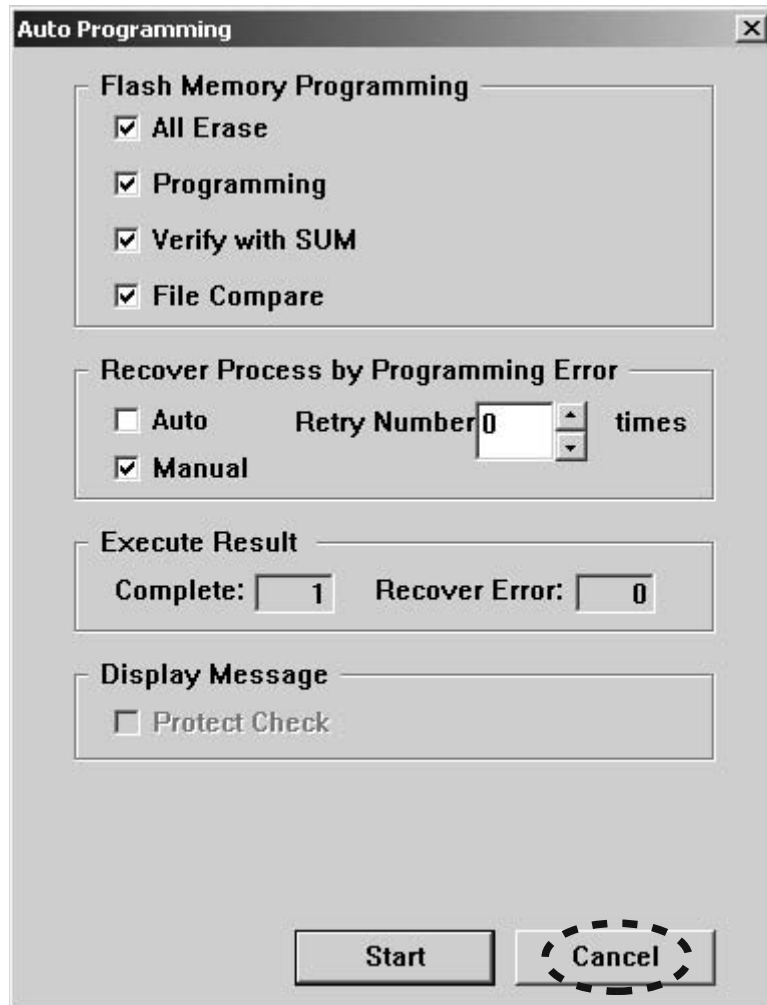
Click **Cancel**.

**Cancel** をクリックし終了します。



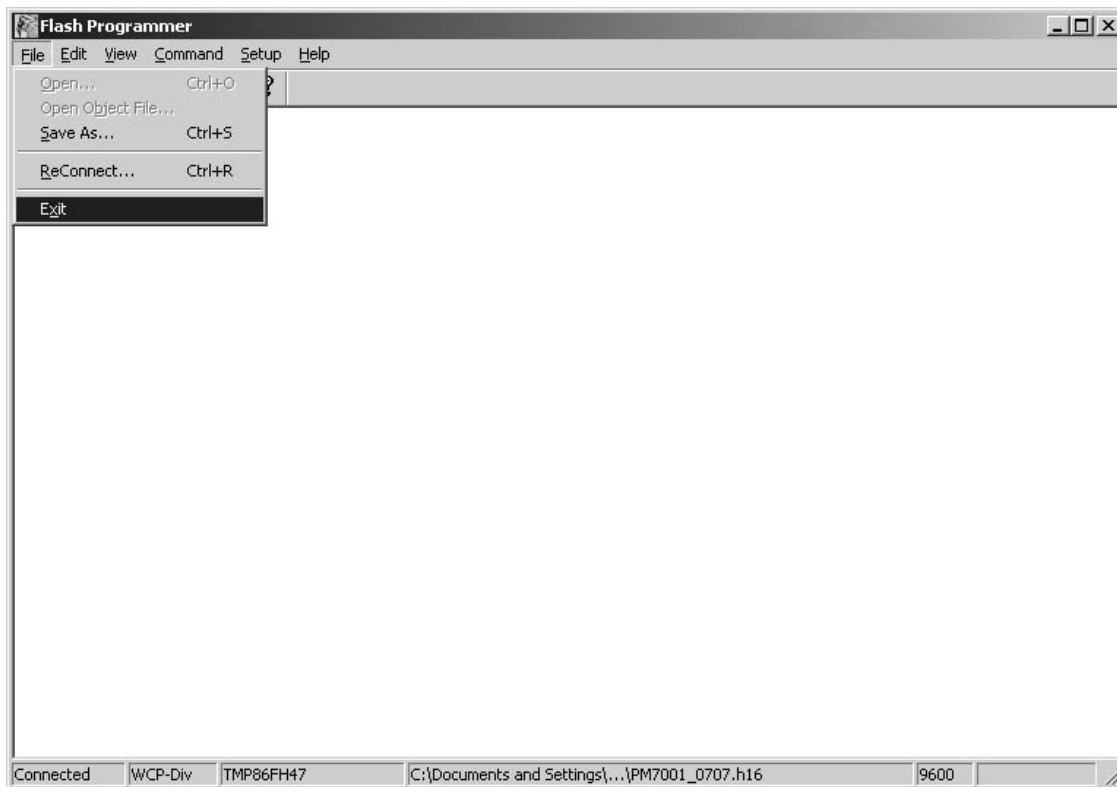
Click **Cancel**.

**Cancel** をクリックします。



Select the **Exit** in **File**, and finish.

**File** から **Exit** を選び、終了します。



Press the **POWER ON/OFF** button, and turn off the unit.

Disconnect each cable.

Check the software version.

Refer to "**3. SERVICE MODE**" on page 4.

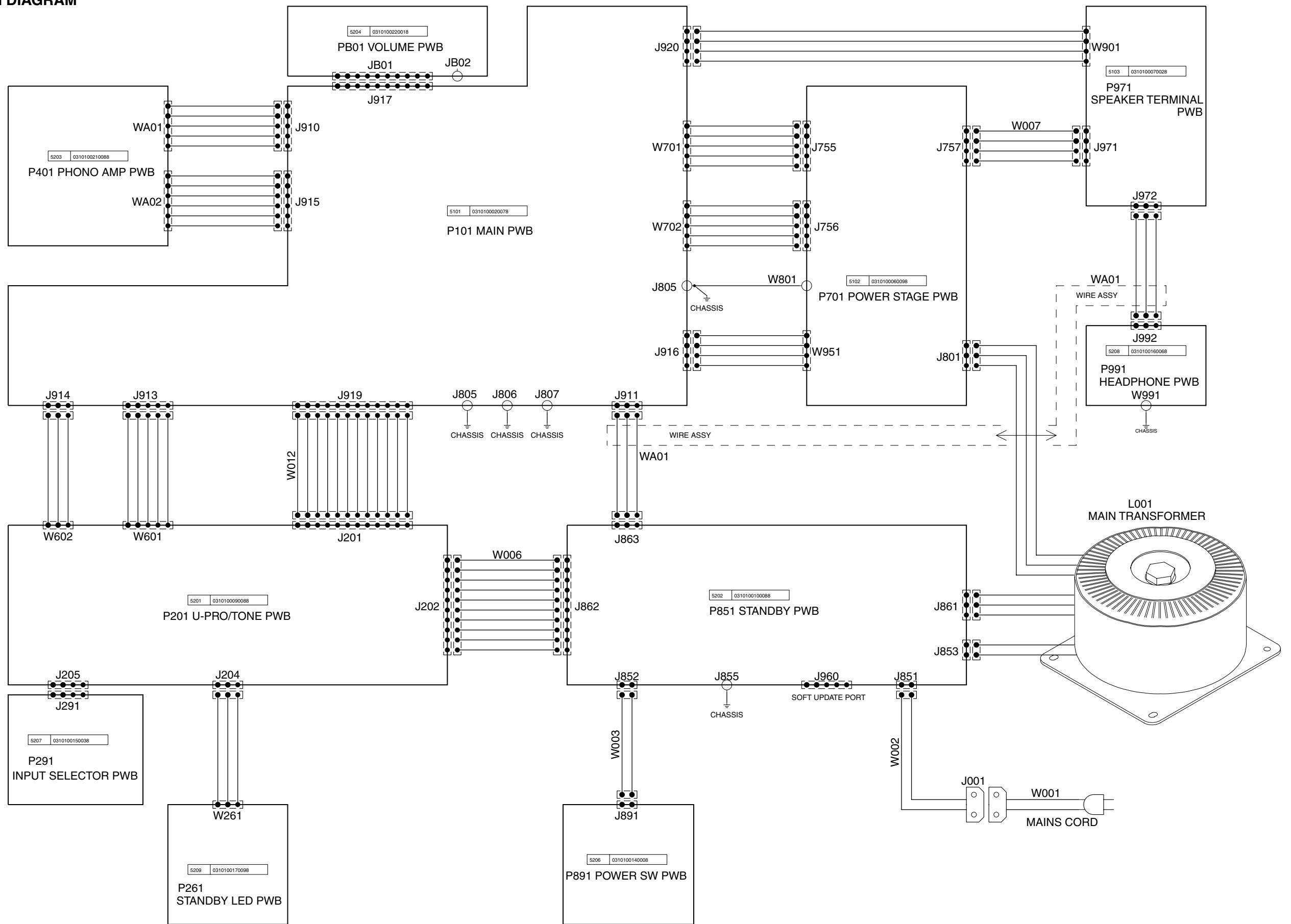
本機の電源スイッチを切り、ケーブルを外します。

Software の Version 確認をしてくださ

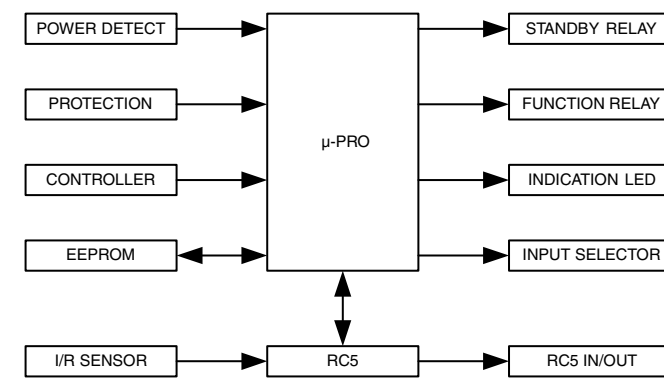
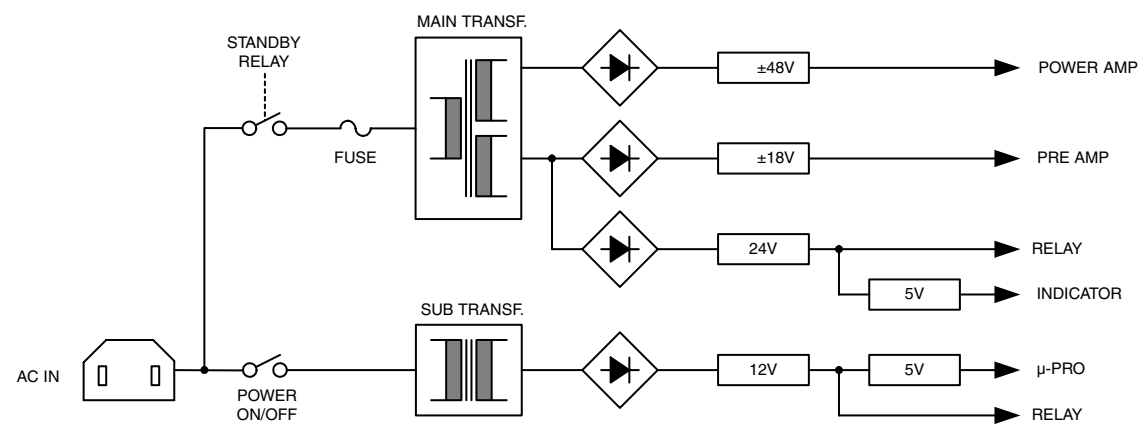
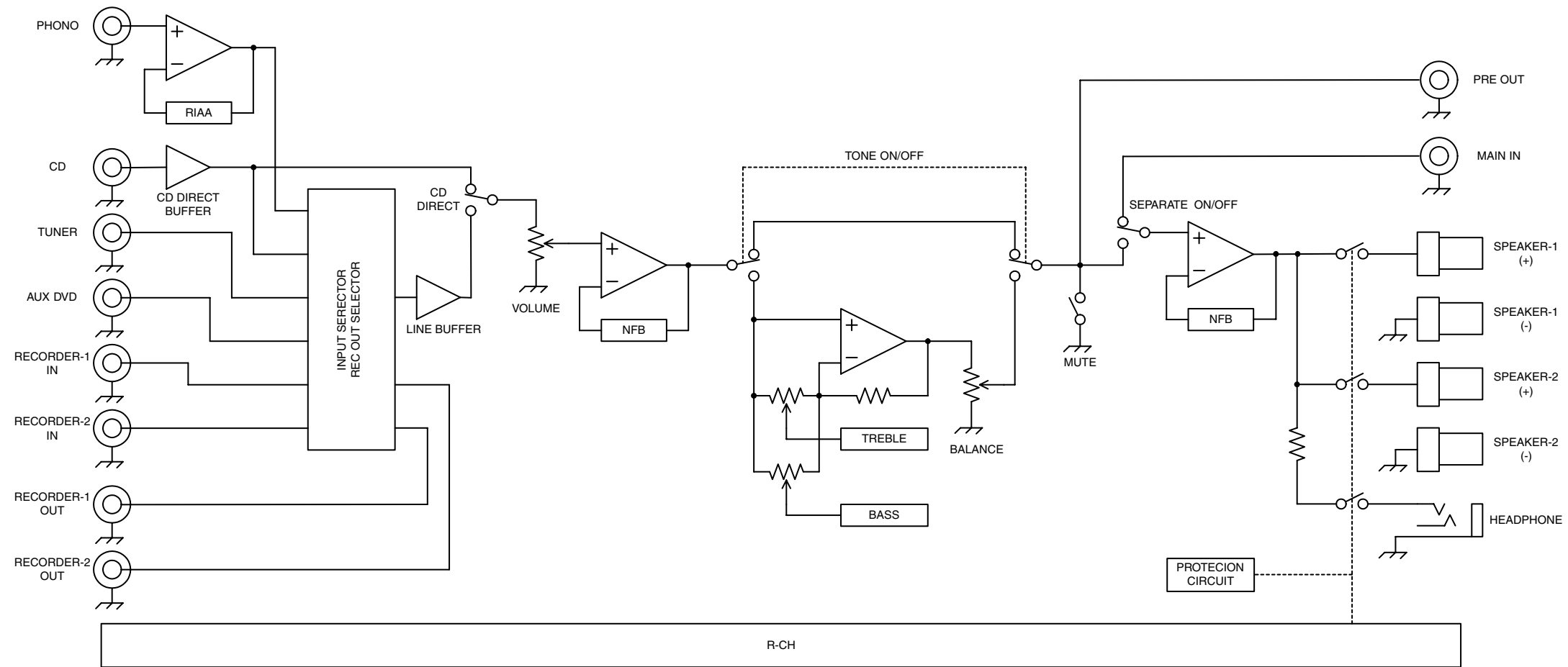
4 ページの "**3. SERVICE MODE**" で確認します。



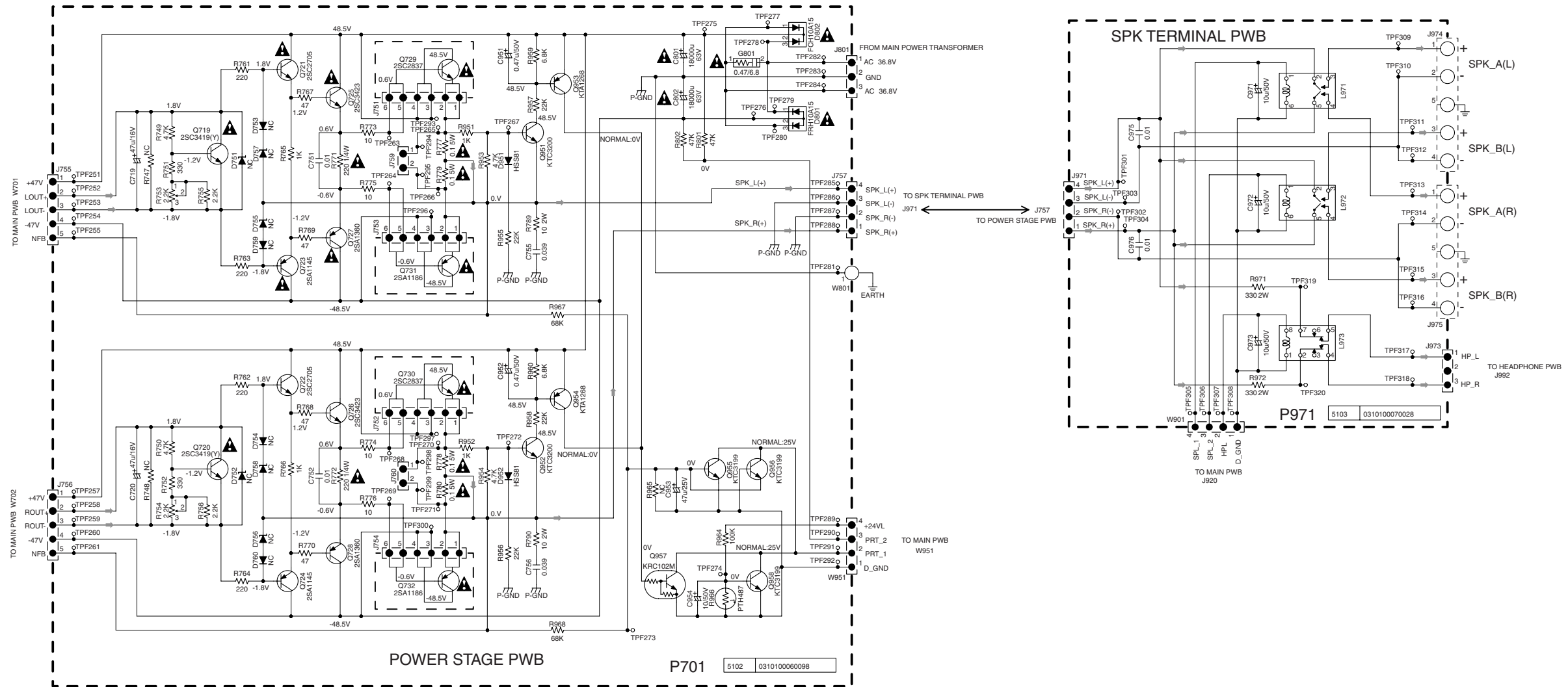
5. WIRING DIAGRAM



## 6. BLOCK DIAGRAM

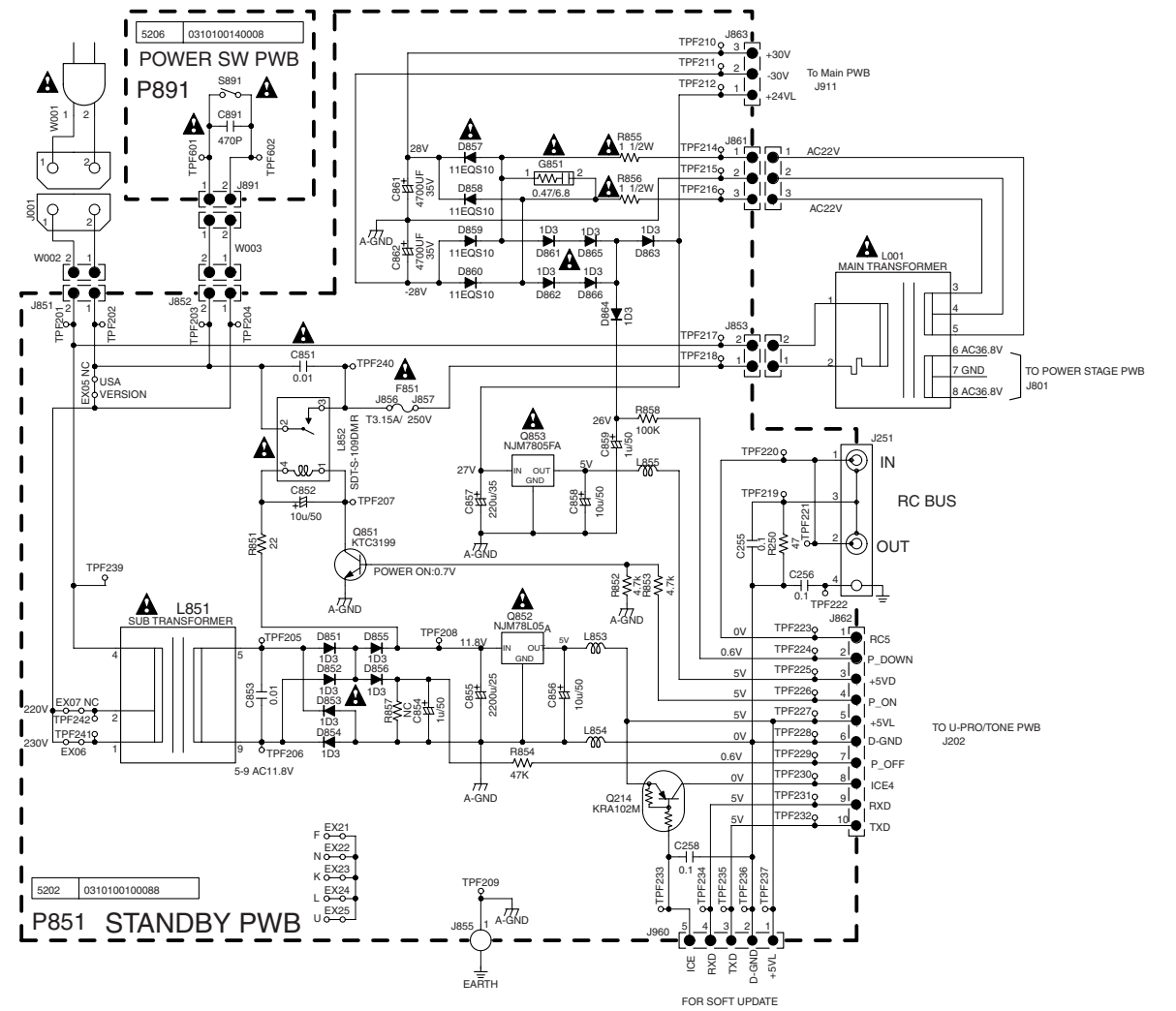
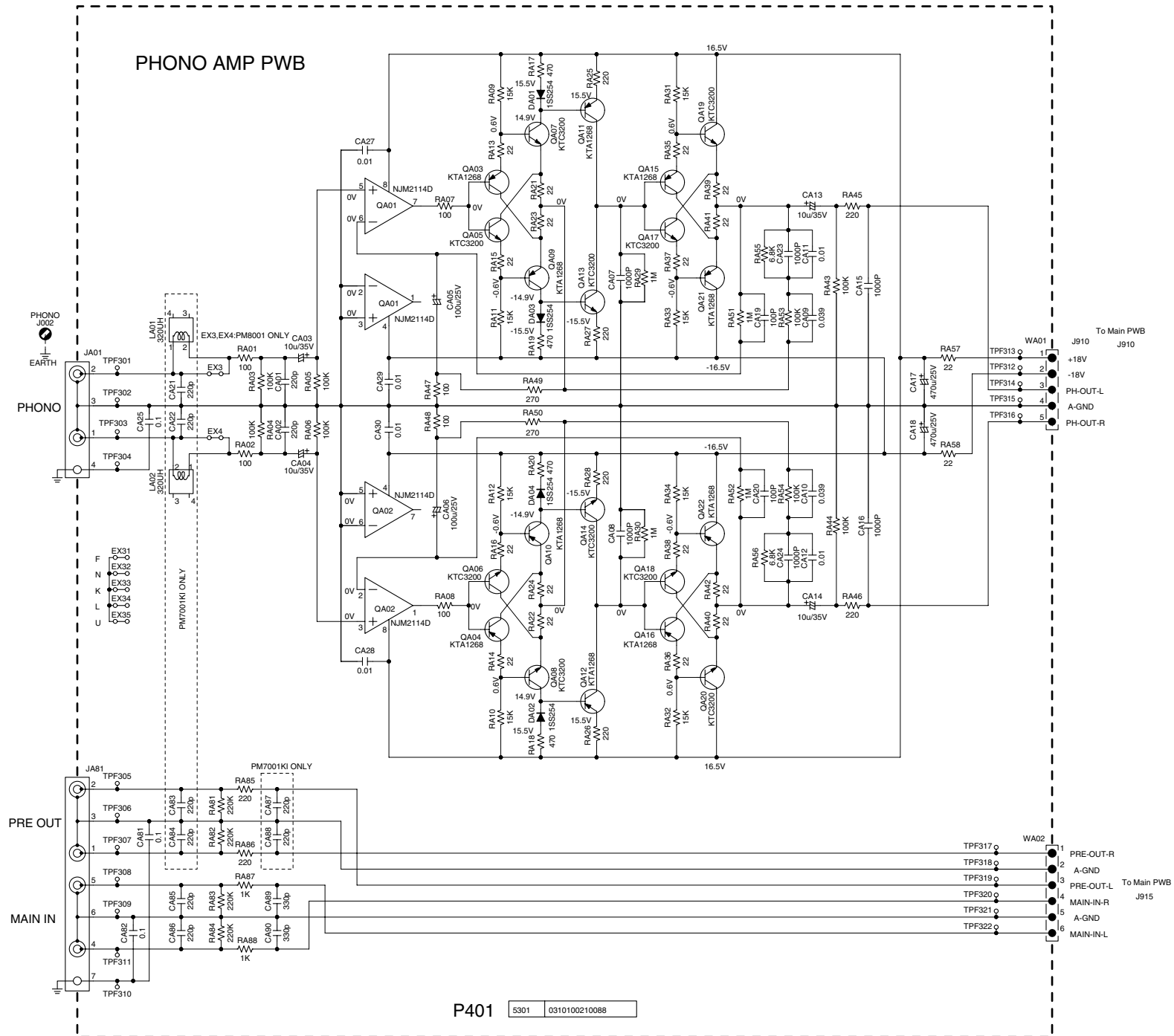
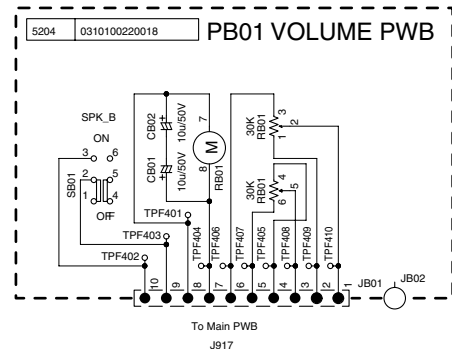


# 7. SCHEMATIC DIAGRAM

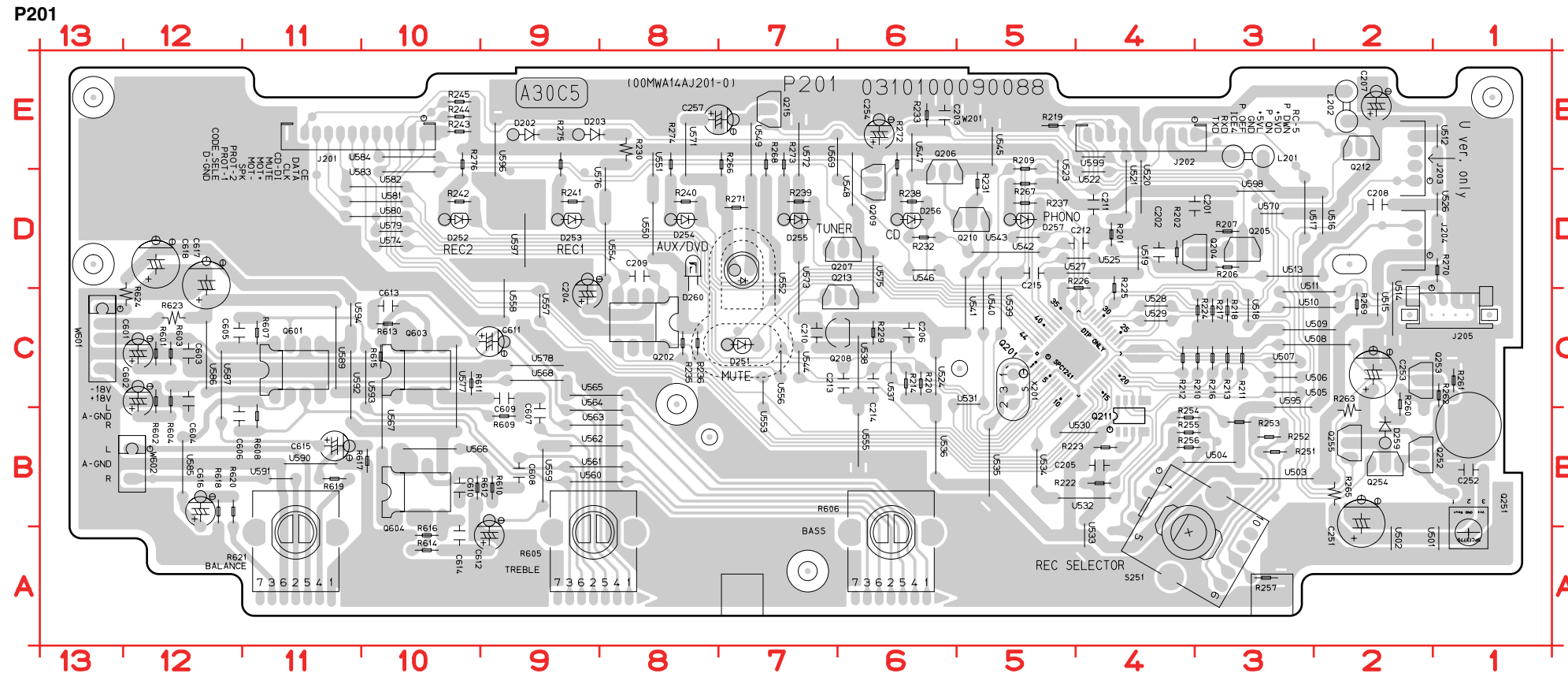




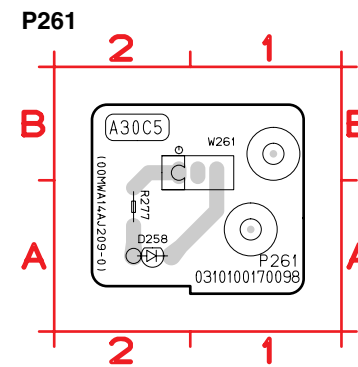




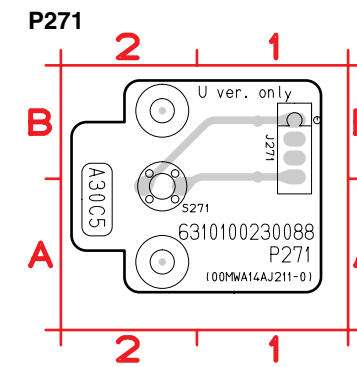
## 8. PARTS LOCATION



C201	D4	D257	D5	R222	B4	R603	C12	U525	D4	U571	D8
C202	D4	D259	B2	R223	B4	R604	B12	U526	D1	U572	D7
C203	E6	D260	D7	R224	C3	R605	A9	U527	D4	U573	C7
C204	C9	J201	E10	R225	D4	R606	A6	U528	C4	U574	D10
C205	B4	J202	F4	R226	D4	R607	C11	U529	C4	U575	C6
C206	C6	J203	D2	R229	C6	R608	B11	U530	B4	U576	D8
C207	E2	J204	D2	R230	E8	R609	B9	U531	C5	U577	B10
C208	D2	J205	C1	R231	D5	R610	B9	U532	B4	U578	C9
C209	D8	L201	E3	R232	D6	R611	C10	U533	A4	U579	D10
C210	C7	L202	E2	R233	E6	R612	B10	U534	B5	U580	D10
C211	D4	Q201	C4	R235	C8	R613	C10	U535	B5	U581	D10
C212	D4	Q202	C8	R236	C8	R614	A10	U536	B6	U582	D10
C213	C6	Q204	D4	R237	D5	R615	C10	U537	C6	U583	D10
C214	C6	Q205	D3	R238	D6	R616	A10	U538	C6	U584	E10
C215	D5	Q206	D6	R239	D7	R617	B10	U539	C5	U585	B12
C251	A2	Q207	D6	R240	D8	R618	B12	U540	C5	U586	C12
C252	B1	Q208	C6	R241	D9	R619	B11	U541	C5	U587	B12
C253	C2	Q209	D6	R242	D10	R620	B12	U542	D5	U589	C11
C254	E6	Q210	D5	R243	E10	R621	A11	U543	D5	U590	B11
C257	E8	Q211	B4	R244	E10	R623	C12	U544	C7	U591	B11
C601	C12	Q212	E2	R245	E10	R624	C12	U545	E5	U592	B11
C602	B12	Q213	C6	R251	B3	S251	A4	U546	D6	U593	C10
C603	C12	Q215	E7	R252	B3	U501	A1	U547	D6	U594	C11
C604	B12	Q251	A1	R253	B3	U502	A2	U548	D6	U595	C2
C605	C12	Q252	B2	R254	B3	U503	B2	U549	D7	U596	D9
C606	B12	Q253	C2	R255	B3	U504	B3	U550	D8	U597	D9
C607	B9	Q254	B2	R256	B3	U505	C3	U551	D8	U598	D3
C608	B9	Q255	B2	R257	A3	U506	C3	U552	C7	U599	E4
C609	C9	Q601	C11	R260	B2	U507	C3	U553	C7	W201	E5
C610	B10	Q603	C10	R261	C1	U508	C2	U554	D8	W601	C13
C611	C10	Q604	B10	R262	B1	U509	C2	U555	B6	W602	B12
C612	A9	R201	D4	R263	B2	U510	C2	U556	C7	X201	C5
C613	C10	R202	D4	R265	B2	U511	C2	U557	C9		
C614	A10	R206	D3	R266	E7	U512	E1	U558	C9		
C615	B11	R207	D3	R267	D5	U513	D2	U559	B9		
C616	B12	R209	E5	R268	E7	U514	C2	U560	B8		
C617	C12	R210	C3	R269	C2	U515	C2	U561	B8		
C618	D12	R211	C3	R270	D1	U516	D2	U562	B8		
D202	E9	R212	C4	R271	D7	U517	D3	U563	B8		
D203	E9	R213	C3	R272	E6	U518	C3	U564	B8		
D251	C7	R214	C6	R273	E7	U519	D4	U565	C8		
D252	D10	R216	C3	R274	E8	U520	D4	U566	B10		
D253	D9	R217	C3	R275	E9	U521	D4	U567	B10		
D254	D8	R218	C3	R276	E10	U522	D4	U568	C9		
D255	D7	R219	E5	R601	C12	U523	D5	U569	D7		
D256	D6	R220	C6	R602	B12	U524	C6	U570	D3		

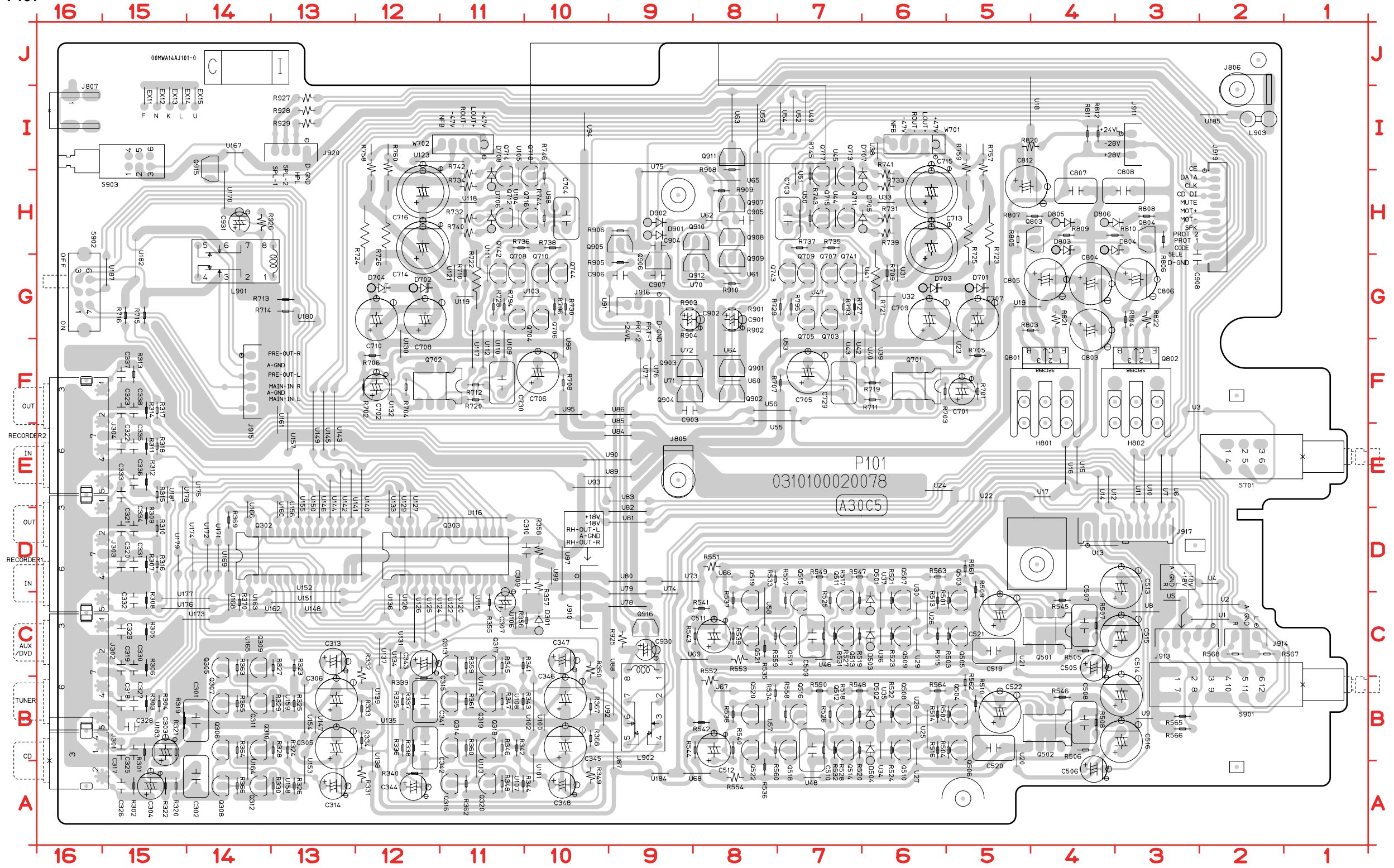


D258 A2  
R277 A2  
W261 B2



J271 B1  
S271 A2

**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).



**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。

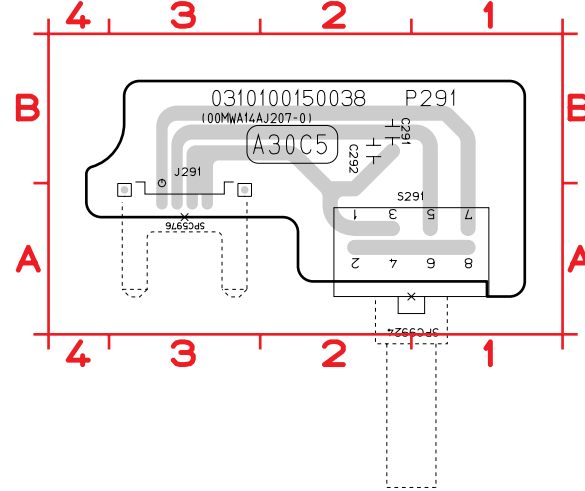
**Lead-free Solder**  
 When soldering, use the Lead-free Solder (Sn-Ag-Cu).



**P101**

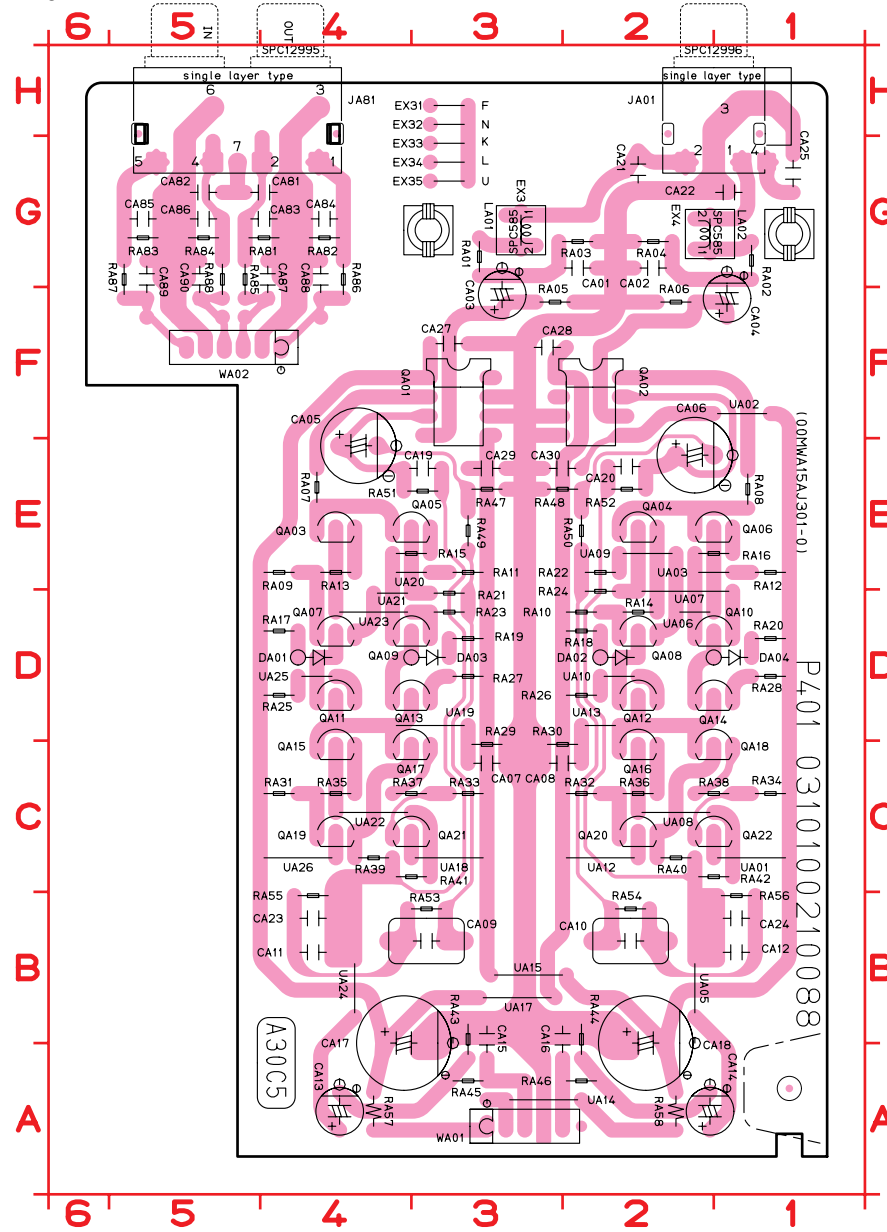
C301	B14	D803	H4	Q907	H8	R533	D8	R904	G8	U178	E15
C302	A14	D804	H4	Q908	H8	R534	B8	R905	G9	U179	D15
C303	A15	D805	H4	Q909	G8	R535	C8	R906	H9	U180	I5
C304	A15	D806	H4	Q910	H8	R536	A8	R908	I8	U181	G13
C305	B13	D901	H9	Q911	I8	R537	C8	R909	H8	U182	E15
C306	B13	D902	H9	Q912	G8	R538	B8	R910	G8	U183	G15
C307	C11	EX11	I15	Q915	I14	R539	C8	R925	C9	U184	A15
C309	C10	EX12	I15	Q916	C9	R540	B8	R926	H14	U184	A9
C310	D10	EX13	I15	R301	A15	R541	C8	R927	I13	U185	I2
C313	C13	EX14	I15	R302	A15	R542	B8	R928	I13	U187	G15
C314	A13	EX15	I14	R303	B15	R543	C8	R929	I13	U19	G4
C317	A15	J301	B16	R304	B15	R544	B8	S701	E1	U2	C2
C318	B15	J302	C16	R305	C15	R545	C4	S901	B1	U20	A5
C319	B15	J303	D16	R306	B15	R546	B4	S902	G16	U21	C5
C320	D15	J304	E16	R307	D15	R547	D6	S903	I16	U22	E5
C321	D15	J805	E9	R308	C15	R548	B6	U1	C2	U23	F5
C322	E15	J806	I2	R309	D15	R549	D7	U10	E3	U24	E5
C323	F15	J807	I16	R310	D15	R550	B7	U100	B10	U25	B6
C325	A15	J910	D10	R311	E15	R551	D8	U101	A10	U26	C6
C326	A15	J911	I3	R312	E15	R552	B8	U102	B10	U27	A6
C327	B15	J913	C2	R313	F15	R553	C8	U103	G10	U28	B6
C328	B15	J914	C2	R314	F15	R554	A8	U104	H11	U29	C6
C329	C15	J915	F14	R315	E15	R557	C7	U105	H11	U3	F2
C330	B15	J916	G9	R316	D15	R558	B7	U106	C11	U30	C6
C331	D15	J917	D3	R317	F15	R559	C8	U107	A11	U31	G6
C332	C15	J919	H2	R318	E15	R560	B8	U108	B11	U32	G6
C333	E15	J920	I13	R319	B15	R561	D5	U109	F11	U33	H6
C334	D15	L901	G13	R320	A15	R562	B5	U11	E3	U34	B6
C335	E15	L902	C9	R321	A15	R563	D5	U110	F11	U35	B6
C336	E15	L903	I2	R322	A15	R564	B5	U111	G11	U36	C6
C337	F15	Q302	D14	R323	B13	R565	B3	U112	F11	U37	C6
C338	F15	Q303	D12	R324	B13	R566	B3	U113	A11	U38	I6
C341	B12	Q305	C14	R325	B13	R567	C2	U114	B11	U39	F6
C342	B12	Q306	B14	R326	A13	R568	C2	U115	C11	U4	D2
C343	C12	Q307	B14	R327	B13	R701	F5	U116	D11	U40	F6
C344	A12	Q308	A14	R328	B13	R702	F12	U117	F11	U41	G6
C345	B10	Q309	C14	R329	B13	R703	F6	U118	H11	U42	F7
C346	B10	Q310	B14	R330	A13	R704	F12	U119	G11	U43	F7
C347	C10	Q311	B14	R331	A12	R705	F5	U12	E4	U44	H7
C348	A10	Q312	A14	R332	B12	R706	F12	U120	C11	U45	H7
C505	A4	Q313	C11	R333	B12	R707	F7	U121	G11	U46	C7
C506	A4	Q314	B11	R334	B12	R708	F10	U122	C11	U47	G7
C507	C4	Q315	B11	R335	B12	R709	G6	U123	I11	U48	A7
C508	B4	Q316	A11	R336	B12	R710	G11	U124	C12	U49	I7
C509	C7	Q317	C11	R337	B12	R711	F6	U125	C12	U5	C3
C510	B7	Q318	B11	R338	B12	R712	F11	U126	C12	U50	H7
C511	C8	Q319	B11	R339	B12	R713	G13	U127	D12	U51	H7
C512	B8	Q320	A11	R340	A12	R714	G13	U128	C12	U52	I7
C513	C3	Q501	C4	R341	C11	R715	G15	U129	D12	U53	F7
C514	B3	Q502	B4	R342	B11	R716	G15	U13	D3	U54	I7
C515	C3	Q503	C5	R343	B11	R719	F6	U130	F12	U55	F7
C516	B3	Q504	B5	R344	A11	R720	F11	U131	C12	U56	F7
C519	C5	Q505	C5	R345	C11	R721	G6	U132	F12	U57	B8
C520	B5	Q506	B5	R346	B11	R722	G11	U133	D12	U58	C8
C521	C5	Q507	C6	R347	B11	R723	G5	U134	B12	U59	I8
C522	B5	Q508	B6	R348	A11	R724	G12	U135	B12	U6	E3
C701	F5	Q509	C6	R349	A10	R725	G5	U136	C12	U60	F8
C702	F12	Q510	B6	R350	B10	R726	G12	U137	C12	U61	G8
C703	H7	Q511	C7	R355	C11	R727	G7	U138	A12	U62	H8
C704	H10	Q512	B7	R356	C10	R728	G11	U139	B12	U63	I8
C705	F7	Q513	C7	R357	C10	R729	G7	U14	E4	U64	F8
C706	F10	Q514	B7	R358	D10	R730	G10	U140	D12	U65	H8
C707	G5	Q515	C7	R359	C11	R731	H6	U141	D13	U66	D8
C708	G12	Q516	B7	R360	B11	R732	H11	U142	D13	U67	B8
C709	G6	Q517	C7	R361	B11	R733	H6	U143	E13	U68	A8
C710	G12	Q518	B7	R362	A11	R734	H11	U144	D13	U69	C8
C713	G6	Q519	C8	R363	B14	R735	H7	U145	E13	U7	E3
C714	G12	Q520	B8	R364	B14	R736	H10	U146	D13	U70	G8
C715	H6	Q521	C8	R365	B14	R737	H7	U147	B13	U71	F8
C716	H12	Q522	B8	R366	A14	R738	H10	U148	C13	U72	F8
C729	F7	Q701	F6	R367	B10	R739	H6	U149	E13	U73	D8
C730	F11	Q702	F11	R368	B10	R740	H11	U15	E4	U74	C9
C803	G4	Q703	G7	R369	D14	R741	H6	U150	D13	U75	H9
C804	G4	Q704	G11	R370	C14	R742	H11	U151	C13	U76	F9
C805	G4	Q705	G7	R501	C5	R743	H7	U152	D13	U77	F9
C806	G3	Q706	G10	R502	B5	R744	H10	U153	A13	U78	C9
C807	H4	Q707	G7	R503	C5	R745	H7	U154	B13	U79	C9
C808	H4	Q708	G11	R504	B5	R746	H10	U155	D13	U8	C3
C812	H5	Q709	G7	R505	C4	R757	H5	U156	D13	U80	D9
C901	G8	Q710	G10	R506	B4	R758	H12	U157	E13	U81	D9
C902	G9	Q711	H7	R507	C4	R759	H5	U158	A13	U82	D9
C903	F8	Q712	H11	R508	B4	R760	H12	U159	B13	U83	E9
C904	H9	Q713	H7	R509	C5	R793	G7	U16	E4	U84	E9
C905	H8	Q714	H11	R510	B5	R794	G11	U160	D13	U85	E9
C906	G9	Q715	H7	R513	C6	R795	G7	U161	E13	U86	F9
C907	G9	Q716	H10	R514	B6	R796	G10	U162	C13	U87	A9
C908	G3	Q717	H7	R515	C6	R803	G4	U163	C14	U88	B9
C930	C9	Q718	H10	R516	B6	R804	G3	U164	A14	U89	E9
C931	H14	Q741	G7	R517	C7	R805	H5	U165	B14	U9	B3
D301	C10	Q742	G11	R518	B7	R806	H3	U166	D14	U90	E9
D501	C6	Q743	G7	R519	C7	R807	H4	U167	I14	U91	G9
D502	B6	Q744	G10	R520	B7	R808	H3	U168	C14	U92	B10
D503	C6	Q801	F4	R521	C6	R809	H4	U169	D14	U93	E9
D504	B6	Q802	F3	R522	B6	R810	H3	U17	E4	U94	I10
D701	G5	Q803	H4	R523	C6	R811	I4	U170	H14	U95	F10
D702	G12	Q804	H3	R524	B6	R812	I4	U171	D14	U96	F10
D703	G6	Q901	F8	R525	C7	R820	I4	U172	D14	U97	C10
D704	G12	Q902	F8	R526	B7	R821	G4	U173	C14	U98	H10
D705	H6	Q903	F9	R527	C7	R822	G3	U174	D14	U99	D10
D706	H11	Q904	F9	R528	B7	R901	G8	U175	E14	W701	I6
D707	H6	Q905	H9	R531	C7	R902	G8	U176	C14	U176	C14
D708	H11	Q906	G9	R532	B7	R903	G8	U177	C14	U177	C14

**P291**



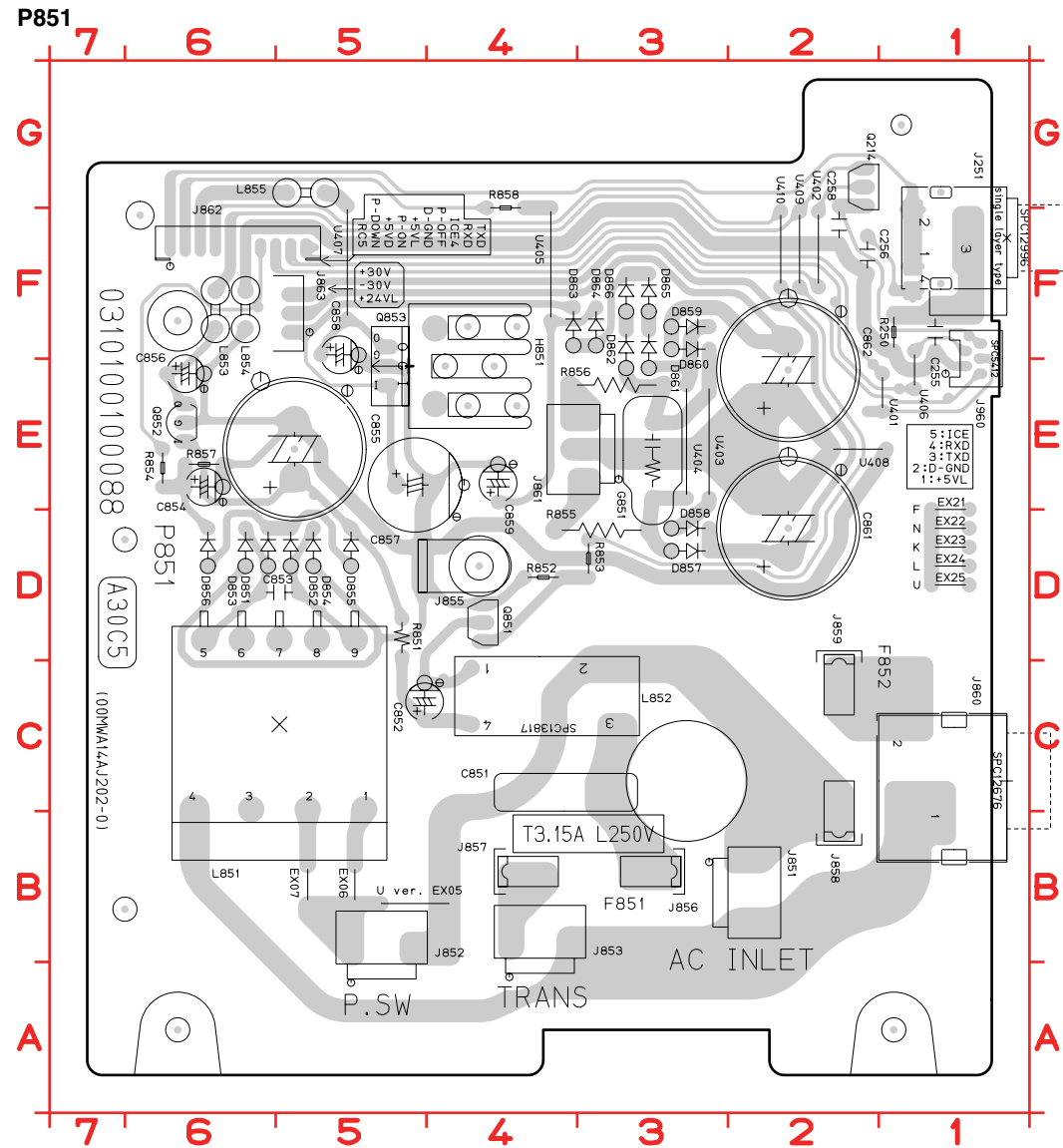
C291	B2
C292	B2
J291	A3
S291	A2

**P401**

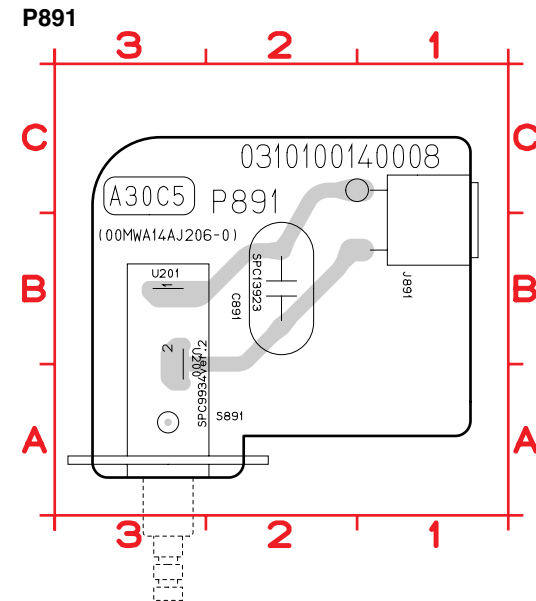


CA01	G2	QA03	E4	RA37	C3
CA02	G2	QA04	E2	RA38	C1
CA03	F3	QA05	E4	RA39	C4
CA04	F1	QA06	E2	RA40	C2
CA05	E4	QA07	D4	RA41	C3
CA06	E2	QA08	D2	RA42	C1
CA07	C3	QA09	D4	RA43	A3
CA08	C2	QA10	D2	RA44	A2
CA09	B3	QA11	D4	RA45	A3
CA10	B2	QA12	D2	RA46	A2
CA11	B4	QA13	D4	RA47	E3
CA12	B1	QA14	D2	RA48	E2
CA13	A4	QA15	C4	RA49	E3
CA14	A2	QA16	C2	RA50	E2
CA15	A3	QA17	C4	RA51	E3
CA16	A3	QA18	C2	RA52	E2
CA17	B4	QA19	C4	RA53	B3
CA18	B2	QA20	C2	RA54	B2
CA19	E3	QA21	C2	RA55	B4
CA20	E2	QA22	C4	RA56	B1
CA21	G2	RA01	G3	RA57	A4
CA22	G1	RA02	G1	RA58	A2
CA23	B4	RA03	G2	RA81	G5
CA24	B1	RA04	G2	RA82	G4
CA25	G1	RA05	F2	RA83	G5
CA27	F3	RA06	F2	RA84	G5
CA28	F2	RA07	E4	RA85	F5
CA29	E3	RA08	E1	RA86	F4
CA30	E2	RA09	E4	RA87	F5
CA81	G5	RA10	D2	RA88	F5
CA82	G5	RA11	E3	UA01	C1
CA83	G5	RA12	E1	UA02	F1
CA84	G4	RA13	E4	UA03	E1
CA85	G5	RA14	D2	UA05	B2
CA86	G5	RA15	E3	UA06	D2
CA87	F4	RA16	E1	UA07	D1
CA88	F4	RA17	D4	UA08	C2
CA89	F5	RA18	D2	UA09	E2
CA90	F5	RA19	D3	UA10	D2
DA01	D4	RA20	D1	UA12	C2
DA02	D2	RA21	D3	UA13	D2
DA03	D4	RA22	E2	UA14	A2
DA04	D2	RA23	D3	UA15	B2
EX3	G3	RA24	D2	UA17	B3
EX31	H3	RA25	D4	UA18	C3
EX32	H3	RA26	D2	UA19	D3
EX33	G3	RA27	D3	UA20	E3
EX34	G3	RA28	D1	UA21	D4
EX35	G3	RA29	C3	UA22	C4
EX4	G2	RA30	C2	UA23	

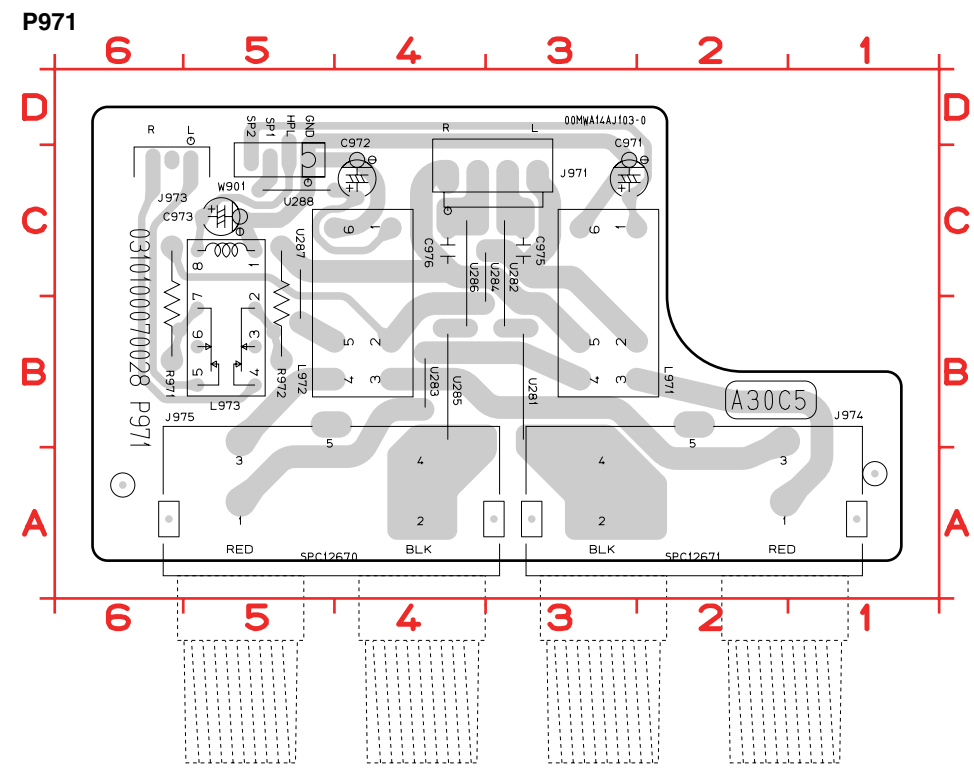




C255	F1	D866	F3	Q214	G2
C256	F2	EX05	B4	Q851	D4
C258	F2	EX06	B5	Q852	E6
C851	C3	EX07	B5	Q853	E5
C852	C5	EX21	E1	R250	F1
C853	D5	EX22	D1	R851	D5
C854	E6	EX23	D1	R852	D4
C855	E5	EX24	D1	R853	D3
C856	E6	EX25	D1	R854	E6
C857	E5	G851	E3	R855	D3
C858	F5	J251	F1	R856	E3
C859	E4	J851	B2	R857	E6
C861	D2	J852	B5	R858	G4
C862	E2	J853	B4	U401	E1
D851	D6	J855	D4	U402	F2
D852	D5	J856	B3	U403	E3
D853	D6	J857	B4	U404	E3
D854	D5	J858	B2	U405	F4
D855	D5	J859	C2	U406	E1
D856	D6	J860	C1	U407	F5
D857	D3	J861	E3	U408	E1
D858	D3	J862	F6	U409	F2
D859	F3	J863	F5	U410	F2
D860	F3	J960	E1		
D861	E3	L851	C5		
D862	E3	L852	C4		
D863	F4	L853	F6		
D864	F3	L854	F6		
D865	F3	L855	G5		

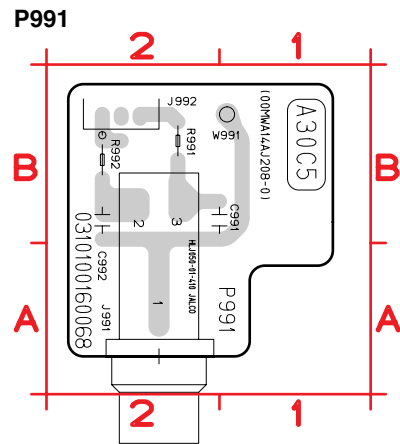


C891	B2
J891	C2
S891	A3
U200	A3
U201	B3

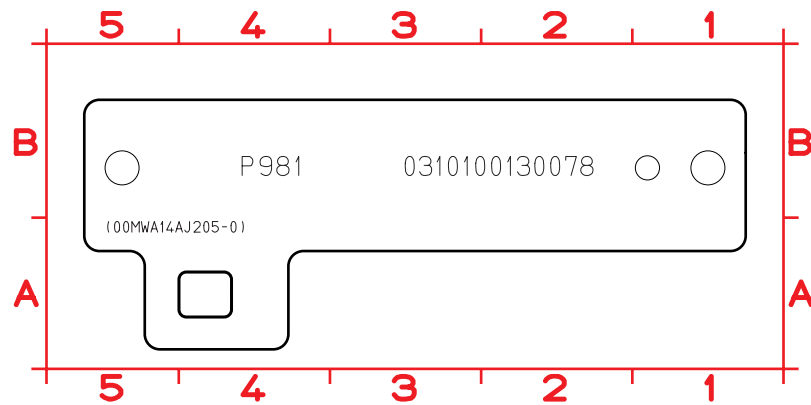


C971	C3
C972	C3
C973	C5
C975	C3
C976	C4
J971	C4
J973	C5
J974	A2
J975	A5
L971	C3
L972	C4
L973	C5
R971	B6
R972	B5
U281	B3
U282	B3
U283	B4
U284	B4
U285	B4
U286	B4
U287	B5
U288	C5
W901	C5

**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).



C991 B2  
 C992 B2  
 J991 A2  
 J992 B2  
 R991 B2  
 R992 B2  
 W991 B1



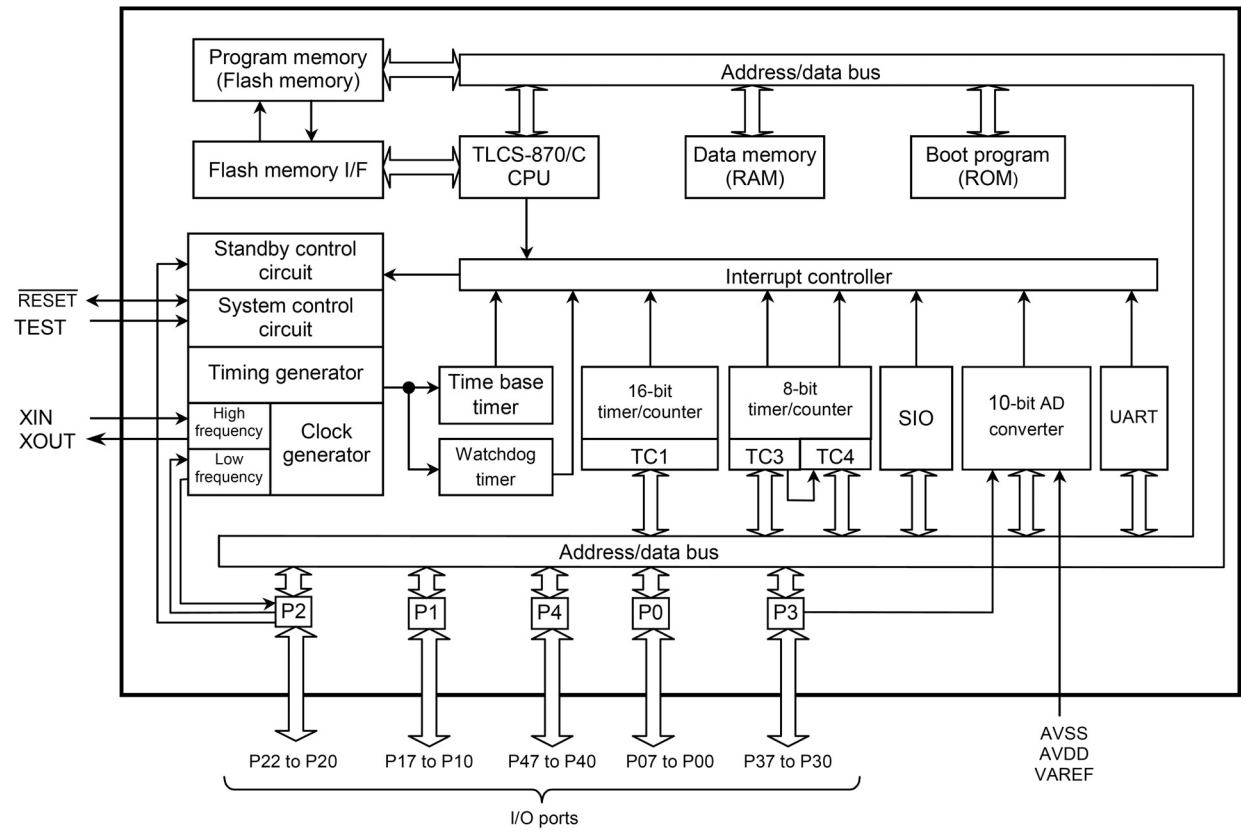
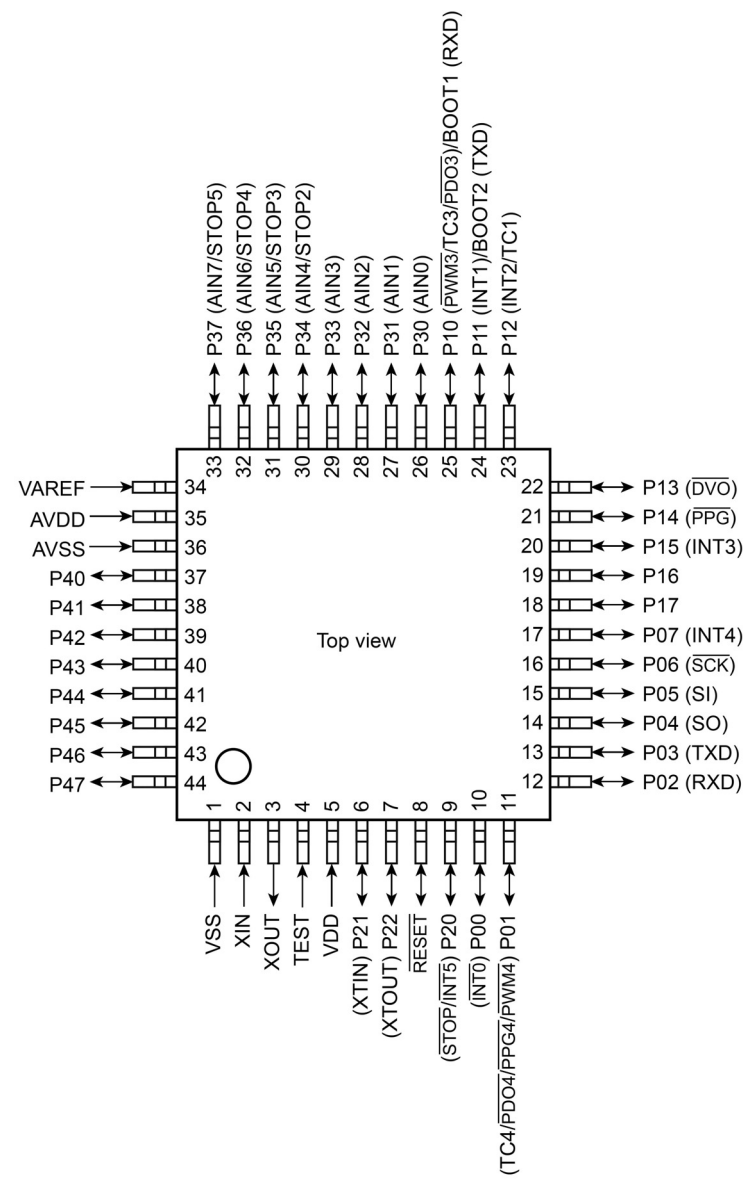
**鉛フリー半田**  
 半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
 When soldering, use the Lead-free Solder (Sn-Ag-Cu).

## 9. MICROPROCESSOR AND IC DATA

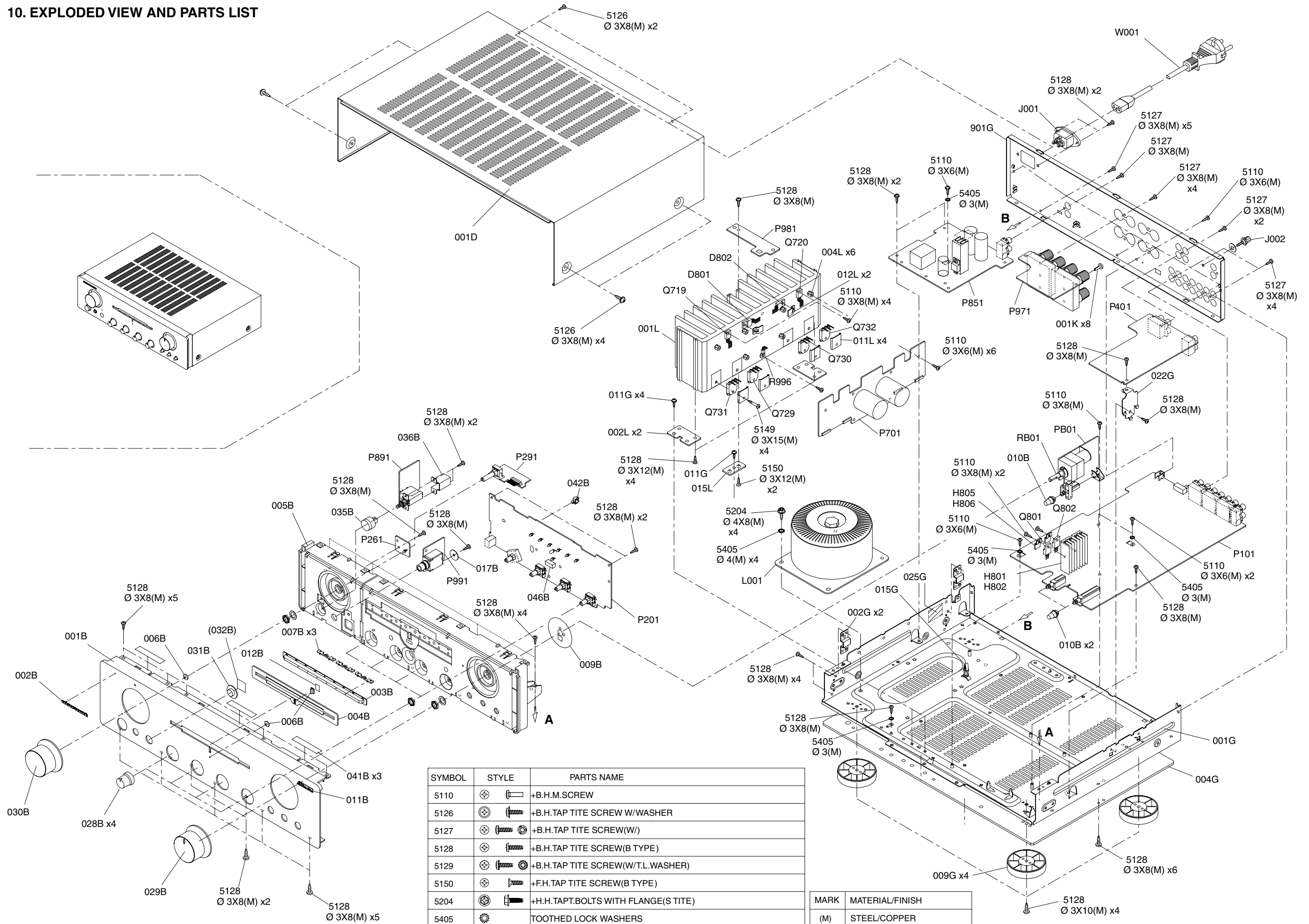
### Q201 : TMP86FH47UG

Pin No.	Port name	I/O	use	Port Setting				Note
				Name	Act.	Init.	STBY	
1	VSS	-	-	VSS	-	-	-	0 V
2	XIN	I	I		-	-	-	8M Clock in
3	XOUT	O	O		-	-	-	8M Clock out
4	TEST	I	I		H	L	L	L->H : PROM Mode
5	VDD	-	-	VDD	-	-	-	
6	P21 (XTIN)	I/O	I	PROTECT_1	L	H	H	DC Vol/Over Current
7	P22 (XTOUT)	I/O	I	PROTECT_2	L	H	H	Vol. Abnormal Detect
8	RESET	I/O	I		L	-	H	u-com Reset port
9	P20 (STOP/INT5)	I/O	I	P_OFF	L	H	L	Detect Power Off
10	P00 (INT0)	I/O	O	SPK	L	H	H	Spk Relay ON
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	Volume up
13	P03 (TXD)	I/O	O	VOL_DOWN	L	H	H	Volume down
14	P04 (SO)	I/O	O	DI	-	L	L	Data (LC78212)
15	P05 (SI)	I/O	O	P_ON	L	H	H	Primary Relay ON
16	P06 (SCK)	I/O	O	CLK	-	-	L	Clock (LC78212)
17	P07 (INT4)	I/O	O	CE	H	L	L	CE (LC78212)
18	P17	I/O	O	IIC_CLOCK	-	L	L	I2C (EEPROM) (Pull up)
19	P16	I/O	I/O	IIC_DATA	-	L	L	I2C (EEPROM) (Pull up)
20	P15 (INT3)	I/O	I	POWER_TACT	L	H	H	U ver. Power SW
21	P14 (PPG)	I/O	O	REC1_MUTE	L	H	L	Not USE (Pull Up)
22	P13 (DVO)	I/O	O	REC2_MUTE	L	H	L	Not USE (Pull Up)
23	P12 (INT/TC1)	I/O	I	RC-5_IN	L	H	H	RC-5 Input
24	P11 (INT1)(BOOT2)	I/O	I/O	Boot2/TXD	-	-	-	Communication (Pull Up)
25	P10 (PWM3/TC3/PD03)(BOOT1)	I/O	I/O	Boot1/RXD	-	-	-	Communication (Pull Up)
26	P30 (AIN0)	I/O	I	REC_SEL_1	-	-	-	Rec out sel A/D
27	P31 (AIN1)	I/O	I	M_B_DOWN	L	H	H	Main B Down
28	P32 (AIN2)	I/O	I	ENC_1	L	H	H	Input Sel. Rotary Enc.
29	P33 (AIN3)	I/O	I	ENC_2	L	H	H	Input Sel. Rotary Enc.
30	P34 (AIN4/STOP2)	I/O	I	MODEL_SELE	-	-	-	PM7001:H/PM8001:L
31	P35 (AIN5/STOP3)	I/O	O	KILL IR	H	L	L	RC-5 Kill
32	P36 (AIN6/STOP4)	I/O	O	M_MUTE	H	L	L	Manual Mute
33	P37 (AIN7/STOP5)	I/O	I	CODE_SEL	L	H	L	Code Sele. H : 16/L : ?
34	VAREF	-	-	VAREF	-	-	-	A/D Reference
35	AVDD	-	-	AVDD	-	-	-	
36	AVSS	-	-	AVSS	-	-	-	0 V
37	P40	I/O	O	LED_STANDBY	L	H	L	Standby LED
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	Rec 1 LED
43	P46	I/O	O	LED_REC2	L	H	H	Rec 2 LED
44	P47	I/O	O	LED_MUTE	L	H	H	Mute LED

Q201 : TMP86FH47UG



# 10. EXPLODED VIEW AND PARTS LIST



PWB NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
	001B	/N1B	00M14AJ248020	00M14AJ248020	PANEL	FRONT AL PANEL BL PM7001KI
	001B	/N1S	00M14AJ248220	00M14AJ248220	PANEL	FRONT AL PANEL SL PM7001KI
	002B	/N1B	00M14AJ251010	00M14AJ251010	BADGE	MZ BADGE(BL)
	002B	/N1S	00M14AJ251020	00M14AJ251020	BADGE	MZ BADGE(SL)
	003B	/N1B	00M14AJ063110	00M14AJ063110	ESCUTCHEON	CENTER ESC.(GL)
	003B	/N1S	00M14AJ063210	00M14AJ063210	ESCUTCHEON	CENTER ESC.(SL)
	004B	/N1B	00M14AJ259010	00M14AJ259010	BUSHING	CENTER ESC.BUSH(BL)
	004B	/N1S	00M14AJ259210	00M14AJ259210	BUSHING	CENTER ESC.BUSH(SL)
	005B	/N1B	00M14AJ105020	00M14AJ105020	CHASSIS	FRONT MOLD CHASSIS(BL)
	005B	/N1S	00M14AJ105220	00M14AJ105220	CHASSIS	FRONT MOLD CHASSIS(SL)
	006B		00M14AJ355010	00M14AJ355010	LENS	INDICATOR LENS
	007B		00M14AJ355020	00M14AJ355020	LENS	CENTER ESC LENS
	010B	/N1B	00M14AJ270020	00M14AJ270020	BUTTON	FUNCTION BUTTON (BL)
	010B	/N1S	00M14AJ270220	00M14AJ270220	BUTTON	FUNCTION BUTTON (SL)
	011B	/N1B	00M356K251010	00M356K251010	BADGE	KI BADGE (BL)
	011B	/N1S	00M356K251030	00M356K251030	BADGE	KI BADGE (SL)
	028B	/N1B	00M14AJ154500	00M14AJ154500	KNOB	TONE/REC SELCTOR KNOB(BL)
	028B	/N1S	00M14AJ154520	00M14AJ154520	KNOB	TONE/REC SELCTOR KNOB(SL)
	029B	/N1B	00M14AJ154010	00M14AJ154010	KNOB	MASTER VOLUME KNOB POINTER (BL)
	029B	/N1S	00M14AJ154210	00M14AJ154210	KNOB	MASTER VOLUME KNOB POINTER (SL)
	030B	/N1B	00M14AJ154020	00M14AJ154020	KNOB	INPUT SELECTOR KNOB (BL)
	030B	/N1S	00M14AJ154220	00M14AJ154220	KNOB	INPUT SELECTOR KNOB (SL)
	031B	/N1B	00M14AJ355030	00M14AJ355030	LENS	IR LENS (BL)
	031B	/N1S	00M14AJ355130	00M14AJ355130	LENS	IR LENS WHITE
	035B	/N1B	00M14AJ270010	00M14AJ270010	BUTTON	POWER BUTTON(BL)
	035B	/N1S	00M14AJ270210	00M14AJ270210	BUTTON	POWER BUTTON(SL)
	009G	/N1B	00M14AJ057110	00M14AJ057110	LEG	LEGS (GOLD)
	009G	/N1S	00M14AJ057210	00M14AJ057210	LEG	LEGS (SILVER)
	▲ J001		0410500010090	0410500010090	TERMINAL	! MC991874 MAINS INLET
	▲ L001		1010100030088	1010100030088	TRANSF.	# POWER TRANSFORMER 230V
	L002		1170100010070	1170100010070	FERRITE CORE	FERRITE CORE TFCK-16813 FOR W012
	P101		nsp	nsp	PWB ASSY	MAIN PWB (P101)
	P201		nsp	nsp	PWB ASSY	U-PRO/TONE PWB (P201)
	P261		nsp	nsp	PWB ASSY	STANDBY LED PWB (P261)
	P291		nsp	nsp	PWB ASSY	INPUT SEL PWB (P291)
	P401		nsp	nsp	PWB ASSY	PHONO AMP PWB (P401)
	P701		nsp	nsp	PWB ASSY	POWER STAGE PWB (P701)
	P851		nsp	nsp	PWB ASSY	STANDBY PWB (P851)
	P891		nsp	nsp	PWB ASSY	POWER SW PWB (P891)
	P971		nsp	nsp	PWB ASSY	SPK TERMINAL PWB (P971)
	P981		nsp	nsp	PWB ASSY	CLAMP PWB (P981)
	P991		nsp	nsp	PWB ASSY	HEADPHONE PWB (P991)
	PB01		nsp	nsp	PWB ASSY	VOLUME PWB ASSY (PB01)
<b>PACKING</b>						
	001T		00M14AJ851310	00M14AJ851310	USER GUIDE	USER GUIDE /N
	Z001		3070100010088	3070100010088	UNIT KIT	REMOTE CONTROLLER RC4001PM
	▲ W001		0110500020010	0110500020010	MAINS CORD	# 2P MAINS CORD 10A 250V CLASS2
<b>NOT STANDARD SPARE PART</b>						
	001S		nsp	00M14AJ801010	PACKING CASE	PACKING CASE PM7001
	002S		nsp	00M14AJ809010	CUSHION	CUSHION(L/R)
	001D	/N1B	nsp	00M14AJ257010	LID	TOP COVER SLIT TYPE (BL)
	001D	/N1S	nsp	00M14AJ257210	LID	TOP COVER SLIT TYPE (SL)

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

# 11. ELECTRICAL PARTS LIST

## PARTS INFORMATION

### RESISTORS

- 1) 00MGD05 × × × 140, Carbon film fixed resistor, ±5% 1/4W
- 2) 00MGD05 × × × 160, Carbon film fixed resistor, ±5% 1/6W

① Resistance value

Examples ;

- ① Resistance value
- |                |                |                 |                 |
|----------------|----------------|-----------------|-----------------|
| 0.1 Ω .... 001 | 10 Ω .... 100  | 1 kΩ .... 102   | 100 kΩ .... 104 |
| 0.5 Ω .... 005 | 18 Ω .... 180  | 2.7 kΩ .... 272 | 680 kΩ .... 684 |
| 1 Ω .... 010   | 100 Ω .... 101 | 10 kΩ .... 103  | 1 MΩ .... 105   |
| 6.8 Ω .... 068 | 390 Ω .... 391 | 22 kΩ .... 223  | 4.7 MΩ .... 475 |

**Note :** Please distinguish 1/4W from 1/6W by the shape of parts used actually.

### CAPACITORS

#### CERAMIC CAP.

- 3) 00MDD1 × × × × 370 Ceramic capacitor  
Disc type  
Temp.coeff.P350 ~N1000, 50V
- ② Capacity value  
③ Tolerance

Examples ;

- ② Tolerance (Capacity deviation)
- ±0.25 pF .... 0
  - ±0.5 pF .... 1
  - ±5% .... 5

\* Tolerance of COMMON PARTS handled here are as follows :

- 0.5 pF ~ 5 pF .... ±0.25 pF
- 6 pF ~ 10 pF .... ±0.5 pF
- 12 pF ~ 560 pF .... ±5%

③ Capacity value

- |                 |                |                 |
|-----------------|----------------|-----------------|
| 0.5 pF .... 005 | 3 pF .... 030  | 100 pF .... 101 |
| 1 pF .... 010   | 10 pF .... 100 | 220 pF .... 221 |
| 1.5 pF .... 015 | 47 pF .... 470 | 560 pF .... 561 |

#### CERAMIC CAP.

- 4) 00MDK16 × × × 300, High dielectric constant ceramic capacitor  
Disc type  
Temp.chara. 2B4, 50V
- ④ Capacity value

Examples ;

- ④ Capacity value
- |                 |                  |                   |
|-----------------|------------------|-------------------|
| 100 pF .... 101 | 1000 pF .... 102 | 10000 pF .... 103 |
| 470 pF .... 471 | 2200 pF .... 222 |                   |

#### ELECTROLY CAP. ( $\text{Z}$ )

- 5) 00MEA × × × × × 10, Electrolytic capacitor  
One-way lead type, Tolerance ±20%
- ⑤ Capacity value  
⑥ Working voltage

Examples ;

- ⑤ Capacity value
- |                  |                 |                  |
|------------------|-----------------|------------------|
| 0.1 μF .... 104  | 4.7 μF .... 475 | 100 μF .... 107  |
| 0.33 μF .... 334 | 10 μF .... 106  | 330 μF .... 337  |
| 1 μF .... 105    | 22 μF .... 226  | 1100 μF .... 118 |
|                  |                 | 2200 μF .... 228 |
- ⑥ Working voltage
- |               |              |
|---------------|--------------|
| 6.3V .... 006 | 25V .... 025 |
| 10V .... 010  | 35V .... 035 |
| 16V .... 016  | 50V .... 050 |

#### FILM CAP. ( $\text{F}$ )

- 6) 00MDF15 × × × 350 Plastic film capacitor  
One-way type, Mylar ±5% 50V
  - 00MDF15 × × × 310 Plastic film capacitor  
One-way type, Mylar ±5% 50V
  - 00MDF16 × × × 310 Plastic film capacitor  
One-way type, Mylar ±10% 50V
- ⑦ Capacity value

Examples ;

- ⑦ Capacity value
- |                              |                  |
|------------------------------|------------------|
| 0.001 μF (1000 pF) ..... 102 | 0.1 μF .... 104  |
| 0.0018 μF ..... 182          | 0.56 μF .... 564 |
| 0.01 μF ..... 103            | 1 μF .... 105    |
| 0.015 μF ..... 153           |                  |

## NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

### 1. KOA Corporation

Part No. (MJI)	Type No. (KOA)	Description
00MNH05 × × × 140	RF25S × × × × ΩJ	(±5% 1/4W)
00MNH05 × × × 120	RF50S × × × × ΩJ	(±5% 1/2W)
00MNH85 × × × 110	RF73B2A × × × × ΩJ	(±5% 1/10W)
00MNH95 × × × 140	RF73B2E × × × × ΩJ	(±5% 1/4W)

\* Resistance value      Resistance value (0.1 Ω - 10 kΩ)

### 2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)	Type No. (MEC)	Description
00MNF05 × × × 140	ERD-2FCJ × × ×	(±5% 1/4W)
00MRF05 × × × 140		
00MNF02 × × × 140	ERD-2FCG × × ×	(±2% 1/4W)
00MRF02 × × × 140		

\* Resistance value      \* Resistance value

Examples ;

- \* Resistance value
- |                |                |                 |                 |
|----------------|----------------|-----------------|-----------------|
| 0.1 Ω .... 001 | 10 Ω .... 100  | 1 kΩ .... 102   | 100 kΩ .... 104 |
| 0.5 Ω .... 005 | 18 Ω .... 180  | 2.7 kΩ .... 272 | 680 kΩ .... 684 |
| 1 Ω .... 010   | 100 Ω .... 101 | 10 kΩ .... 103  | 1 MΩ .... 105   |
| 6.8 Ω .... 068 | 390 Ω .... 391 | 22 kΩ .... 223  | 4.7 MΩ .... 475 |



## ABBREVIATION AND MARKS

ANT. : ANTENNA	BATT. : BATTERY
CAP. : CAPACITOR	CER. : CERAMIC
CONN. : CONNECTING	DIG. : DIGITAL
HP : HEADPHONE	MIC. : MICROPHONE
μ-PRO : MICROPROCESSOR	REC. : RECORDING
RES. : RESISTOR	SPK : SPEAKER
SW : SWITCH	TRANSF. : TRANSFORMER
TRIM. : TRIMMING	TRS. : TRANSISTOR
VAR. : VARIABLE	X'TAL : CRYSTAL


## NOTE ON FUSE :

Regarding to all parts of parts code **00MFS20xxx2xx**, replace only with Wickmann-Werke GmbH, Type 372 non glass type fuse.

## 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。



PWB NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
					<b>MAIN PWB (P101)</b>	
P101	C303		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P101	C304		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P101	C305		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C306		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C307		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C313		nsp	1340500044050	ELECT. CAP.	22 UF M 25V ARS-TYPE ELNA
P101	C314		nsp	1340500044050	ELECT. CAP.	22 UF M 25V ARS-TYPE ELNA
P101	C343		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P101	C344		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P101	C345		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C346		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C347		nsp	1340500044050	ELECT. CAP.	22 UF M 25V ARS-TYPE ELNA
P101	C348		nsp	1340500044050	ELECT. CAP.	22 UF M 25V ARS-TYPE ELNA
P101	C505		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P101	C506		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P101	C511		nsp	1340500084070	ELECT. CAP.	ROS-16V 470 MG 3PE-T2
P101	C512		nsp	1340500084070	ELECT. CAP.	ROS-16V 470 MG 3PE-T2
P101	C513		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C514		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C515		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C516		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C521		nsp	1340500164080	ELECT. CAP.	100UF 25V ARA
P101	C522		nsp	1340500164080	ELECT. CAP.	100UF 25V ARA
P101	C701		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P101	C702		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P101	C705		nsp	1340500164080	ELECT. CAP.	100UF 25V ARA
P101	C706		nsp	1340500164080	ELECT. CAP.	100UF 25V ARA
P101	C707		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C708		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C709		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C710		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C713		nsp	1340100885040	ELECT. CAP.	RA2-63V471M16#8-S1
P101	C714		nsp	1340100885040	ELECT. CAP.	RA2-63V471M16#8-S1
P101	C715		nsp	1340100885040	ELECT. CAP.	RA2-63V471M16#8-S1
P101	C716		nsp	1340100885040	ELECT. CAP.	RA2-63V471M16#8-S1
P101	C803		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C804		nsp	1340500114030	ELECT. CAP.	220UF M 25 V ARA
P101	C805		nsp	1340500164080	ELECT. CAP.	100UF 25V ARA
P101	C806		nsp	1340500164080	ELECT. CAP.	100UF 25V ARA
P101	C812		nsp	1340100595060	ELECT. CAP.	RA2-35V221MH3#8-T2
P101	C901		nsp	1340100665040	ELECT. CAP.	RA2-50V010ME3E#8-T2
P101	C902		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C930		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C931		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	D301		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D501		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D502		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D503		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D504		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D701		00D2760645907	00D2760645907	DIODE	MTZJ18A T77
P101	D702		00D2760645907	00D2760645907	DIODE	MTZJ18A T77
P101	D703		00D2760645907	00D2760645907	DIODE	MTZJ18A T77
P101	D704		00D2760645907	00D2760645907	DIODE	MTZJ18A T77
P101	D705		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D706		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D707		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D708		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D803		00D2760645910	00D2760645910	DIODE	MTZJ20A T77
P101	D804		00D2760645910	00D2760645910	DIODE	MTZJ20A T77
P101	D805		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D806		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D901		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D902		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	J301		0460100020090	0460100020090	TERMINAL	YKC21-3446
P101	J302		0460100080070	0460100080070	TERMINAL	YKC21-3441
P101	J303		0460100080070	0460100080070	TERMINAL	YKC21-3441

NOTE : \*nsp\* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

PWB NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	J304		0460100080070	0460100080070	TERMINAL	YKC21-3441
P101	J917		0450100010030	0450100010030	CONN.	B10P-MQ-C
P101	L901		0820100020050	0820100020050	RELAY	MR82-24USR
P101	L902		0820100020050	0820100020050	RELAY	MR82-24USR
P101	L903		1190100014090	1190100014090	COIL	BL02RN2R1N1A FERRITE BEAD
P101	Q302		2340100017040	2340100017040	IC	LC78212
P101	Q303		2340100017040	2340100017040	IC	LC78212
P101	Q305		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q306		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q307		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q308		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q309		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q310		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q311		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q312		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q313		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q314		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q315		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q316		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q317		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q318		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q319		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q320		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q501		2350100040030	2350100040030	IC	NJM2114D
P101	Q502		2350100040030	2350100040030	IC	NJM2114D
P101	Q503		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q504		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q505		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q506		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q507		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q508		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q509		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q510		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q511		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q512		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q513		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q514		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q515		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q516		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q517		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q518		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q519		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q520		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q521		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q522		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q701		2350100040030	2350100040030	IC	NJM2114D
P101	Q702		2350100040030	2350100040030	IC	NJM2114D
P101	Q703		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q704		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q705		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q706		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q707		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q708		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q709		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q710		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q711		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q712		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q713		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q714		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q715		00D2710168900	00D2710168900	TRS.	2SA1145 (O)/(Y)TPE6
P101	Q716		00D2710168900	00D2710168900	TRS.	2SA1145 (O)/(Y)TPE6
P101	Q717		00D2730281906	00D2730281906	TRS.	2SC2705 (O)/(Y)TPE6
P101	Q718		00D2730281906	00D2730281906	TRS.	2SC2705 (O)/(Y)TPE6
P101	Q741		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q742		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q743		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q744		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR

NOTE : \*nsp\* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

PWB NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	▲ Q801		2140500010050	2140500010050	TRS.	! 2SD1415A
P101	▲ Q802		2120500010090	2120500010090	TRS.	! 2SB1020A
P101	Q803		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q804		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q901		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q902		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q903		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q904		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q905		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q906		00D2690206908	00D2690206908	TRS.	KRC102M-AT(10K-10K)
P101	Q907		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P101	Q908		00D2690206908	00D2690206908	TRS.	KRC102M-AT(10K-10K)
P101	Q909		00D2690206908	00D2690206908	TRS.	KRC102M-AT(10K-10K)
P101	Q910		00D2690206908	00D2690206908	TRS.	KRC102M-AT(10K-10K)
P101	Q911		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q912		00D2690206908	00D2690206908	TRS.	KRC102M-AT(10K-10K)
P101	Q915		00D2690206908	00D2690206908	TRS.	KRC102M-AT(10K-10K)
P101	Q916		00D2690206908	00D2690206908	TRS.	KRC102M-AT(10K-10K)
P101	▲ R757		1210500024030	1210500024030	RES.	! CFP1/4CGTA100J
P101	▲ R758		1210500024030	1210500024030	RES.	! CFP1/4CGTA100J
P101	▲ R759		1210500024030	1210500024030	RES.	! CFP1/4CGTA100J
P101	▲ R760		1210500024030	1210500024030	RES.	! CFP1/4CGTA100J
P101	▲ R821		1210100054040	1210100054040	RES.	! CFPS1/4CMHTA-4R7J
P101	▲ R822		1210100054040	1210100054040	RES.	! CFPS1/4CMHTA-4R7J
P101	S701		0650100030030	0650100030030	SW	SPUN191600
P101	S901		0650100020000	0650100020000	SW	SPUN194900
P101	S902		0640100010040	0640100010040	SW	SSSU122P09N-1
					<b>U-PRO/TONE PWB (P201)</b>	
P201	C204		nsp	1340101274090	ELECT. CAP.	RC2-25V100ME1#-T2
P201	C207		nsp	1340101274090	ELECT. CAP.	RC2-25V100ME1#-T2
P201	C251		nsp	1340101184050	ELECT. CAP.	RC2-10V221MG1#-T2
P201	C253		nsp	1340101184050	ELECT. CAP.	RC2-10V221MG1#-T2
P201	C254		nsp	1340101274090	ELECT. CAP.	RC2-25V100ME1#-T2
P201	C257		nsp	1340101274090	ELECT. CAP.	RC2-25V100ME1#-T2
P201	C601		nsp	1340101204080	ELECT. CAP.	RC2-16V220ME1#-T2
P201	C602		nsp	1340101204080	ELECT. CAP.	RC2-16V220ME1#-T2
P201	C611		nsp	1340101434010	ELECT. CAP.	RC2-50V2R2MD1#-T2
P201	C612		nsp	1340101434010	ELECT. CAP.	RC2-50V2R2MD1#-T2
P201	C615		nsp	1340101204080	ELECT. CAP.	RC2-16V220ME1#-T2
P201	C616		nsp	1340101204080	ELECT. CAP.	RC2-16V220ME1#-T2
P201	C617		nsp	1340101314080	ELECT. CAP.	RC2-25V101MG1#-T2
P201	C618		nsp	1340101314080	ELECT. CAP.	RC2-25V101MG1#-T2
P201	D202		2030500013020	2030500013020	DIODE	1D3 1A/200V
P201	D251		2630100010090	2630100010090	L.E.D.	LT3D8B RED LED
P201	D252		2630100024080	2630100024080	L.E.D.	BLUE LED 3MM SEL2E10C
P201	D253		2630100024080	2630100024080	L.E.D.	BLUE LED 3MM SEL2E10C
P201	D254		2630100024080	2630100024080	L.E.D.	BLUE LED 3MM SEL2E10C
P201	D255		2630100024080	2630100024080	L.E.D.	BLUE LED 3MM SEL2E10C
P201	D256		2630100024080	2630100024080	L.E.D.	BLUE LED 3MM SEL2E10C
P201	D257		2630100024080	2630100024080	L.E.D.	BLUE LED 3MM SEL2E10C
P201	D259		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P201	D260		00D3939576903	00D3939576903	DISPLAY	SELU1E10CXM-002
P201	J205		0440100450000	0440100450000	CONN.	TSK-B04X-A1
P201	L201		1190100014090	1190100014090	COIL	BL02RN2R1N1A FERRITE BEAD
P201	L202		1190100014090	1190100014090	COIL	BL02RN2R1N1A FERRITE BEAD
P201	Q201		2439100016008	2439100016008	U-PRO	TMP86FH47UG WITHOUT SOFTWARE
P201	Q202		2350100037030	2350100037030	IC	LB1630 MOTOR DRIVE IC
P201	Q204		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P201	Q205		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P201	Q206		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P201	Q207		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P201	Q208		2350100024030	2350100024030	IC	PST600D-2 RESET IC
P201	Q209		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P201	Q210		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P201	Q211		2469100015000	2469100015000	IC	AT24C08AN-10SU-2.7 EEPROM
P201	Q212		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P201	Q213		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)

NOTE : \*nsp\* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

PWB NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P201	Q215		00D2690206908	00D2690206908	TRS.	KRC102M-AT(10K-10K)
P201	Q251		2620100010060	2620100010060	PHOTO UNIT	RPM6936-V4 (IR SENSOR)
P201	Q252		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P201	Q253		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P201	Q254		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P201	Q255		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P201	Q601		00D2630609002	00D2630609002	IC	NJM2068DDC +T
P201	Q603		00D2630609002	00D2630609002	IC	NJM2068DDC +T
P201	Q604		00D2630609002	00D2630609002	IC	NJM2068DDC +T
P201	R605		0750100020070	0750100020070	VAR. RES.	4K14K124003J
P201	R606		0750100020070	0750100020070	VAR. RES.	4K14K124003J
P201	R621		0750100030000	0750100030000	VAR. RES.	RK14K1240D0P
P201	S251		0630100010010	0630100010010	ROTARY SW	SRBV17-F0020-11
P201	X201		1420100014090	1420100014090	FILTER	CST8.00MT-TF01
					<b>STANDBY LED PWB (P261)</b>	
P261	D258		2630100010090	2630100010090	L.E.D.	LT3D8B RED LED
					<b>INPUT SEL PWB (P291)</b>	
P291	J291		0440100470060	0440100470060	CONN.	TSK-B04P-A1
P291	S291		0630100020040	0630100020040	ROTARY SW	SRRSIC
					<b>PHONO AMP PWB (P401)</b>	
P401	CA03		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P401	CA04		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P401	CA05		nsp	1340500164080	ELECT. CAP.	100UF 25V ARA
P401	CA06		nsp	1340500164080	ELECT. CAP.	100UF 25V ARA
P401	CA13		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P401	CA14		nsp	1340500024090	ELECT. CAP.	10 UF 35V ARS
P401	CA17		nsp	1340500240030	ELECT. CAP.	ROA-25V470MG3#-T2
P401	CA18		nsp	1340500240030	ELECT. CAP.	ROA-25V470MG3#-T2
P401	DA01		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P401	DA02		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P401	DA03		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P401	DA04		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P401	JA01		0460100020090	0460100020090	TERMINAL	YKC21-3446
P401	JA81		0460100080070	0460100080070	TERMINAL	YKC21-3441
P401	LA01		1150100010018	1150100010018	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	LA02		1150100010018	1150100010018	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	QA01		2350100040030	2350100040030	IC	NJM2114D
P401	QA02		2350100040030	2350100040030	IC	NJM2114D
P401	QA03		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P401	QA04		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P401	QA05		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA06		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA07		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA08		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA09		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P401	QA10		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P401	QA11		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P401	QA12		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P401	QA13		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA14		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA15		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P401	QA16		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P401	QA17		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA18		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA19		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA20		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P401	QA21		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P401	QA22		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
					<b>POWER STAGE PWB (P701)</b>	
P701	C719		nsp	1340500084070	ELECT. CAP.	ROS-16V 470 MG 3PE-T2
P701	C720		nsp	1340500084070	ELECT. CAP.	ROS-16V 470 MG 3PE-T2
P701	▲ C801		1340500210040	1340500210040	ELECT. CAP.	! LKG1J183MESCZT
P701	▲ C802		1340500210040	1340500210040	ELECT. CAP.	! LKG1J183MESCZT
P701	C951		nsp	1340100655010	ELECT. CAP.	RA2-50VR47ME3#8-T2
P701	C952		nsp	1340100655010	ELECT. CAP.	RA2-50VR47ME3#8-T2
P701	C953		nsp	1340100445040	ELECT. CAP.	RA2-25V470ME3#8-T2
P701	C954		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2

NOTE : \*nsp\* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

PWB NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P701	▲ D801		2040500030040	2040500030040	DIODE	! FCH10A15
P701	▲ D802		2040500020010	2040500020010	DIODE	! FCH10A15
P701	D951		nsp	2010500013060	DIODE	HSS81150V 150MA
P701	D952		nsp	2010500013060	DIODE	HSS81150V 150MA
P701	▲ G801		1890100010020	1890100010020	CAP.COMP.	! RFD2B474K 0.47UF+6.8OHM
P701	J751		0450100020060	0450100020060	CONN.	IMSA-1068-06Z042 6P
P701	J752		0450100020060	0450100020060	CONN.	IMSA-1068-06Z042 6P
P701	J753		0450100020060	0450100020060	CONN.	IMSA-1068-06Z042 6P
P701	J754		0450100020060	0450100020060	CONN.	IMSA-1068-06Z042 6P
P701	▲ KT01		2170500010040	2170500010040	TRS.	! 2SA1186/2SC2837 PAIR (Q729/Q731, Q730/Q732)
P701	Q719		2130500040010	2130500040010	TRS.	2SC3419 Y 40V 0.8A PC=1.2W (5W)
P701	Q720		2130500040010	2130500040010	TRS.	2SC3419 Y 40V 0.8A PC=1.2W (5W)
P701	Q721		00D2730281906	00D2730281906	TRS.	2SC2705 (O)/(Y)TPE6
P701	Q722		00D2730281906	00D2730281906	TRS.	2SC2705 (O)/(Y)TPE6
P701	Q723		00D2710168900	00D2710168900	TRS.	2SA1145 (O)/(Y)TPE6
P701	Q724		00D2710168900	00D2710168900	TRS.	2SA1145 (O)/(Y)TPE6
P701	Q725		00D2730333003	00D2730333003	TRS.	2SC3423 (O/Y)
P701	Q726		00D2730333003	00D2730333003	TRS.	2SC3423 (O/Y)
P701	Q727		00D2710202002	00D2710202002	TRS.	2SA1360 (O/Y)
P701	Q728		00D2710202002	00D2710202002	TRS.	2SA1360 (O/Y)
P701	▲ Q729		nsp	nsp	TRS.	! 2SC2837(R/O) PAIR WITH Q731
P701	▲ Q730		nsp	nsp	TRS.	! 2SC2837(R/O) PAIR WITH Q732
P701	▲ Q731		nsp	nsp	TRS.	! 2SA1186(R/O) PAIR WITH Q729
P701	▲ Q732		nsp	nsp	TRS.	! 2SA1186(R/O) PAIR WITH Q730
P701	Q951		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P701	Q952		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P701	Q953		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P701	Q954		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P701	Q955		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P701	Q956		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P701	Q957		00D2690206908	00D2690206908	TRS.	KRC102M-AT(10K-10K)
P701	Q958		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P701	R753		1610100010040	1610100010040	TRIM RES.	RH063LCJ3R
P701	R754		1610100010040	1610100010040	TRIM RES.	RH063LCJ3R
P701	▲ R771		1210500034060	1210500034060	RES.	! CFP1/4CGTA221J
P701	▲ R772		1210500034060	1210500034060	RES.	! CFP1/4CGTA221J
P701	R777		1290500010080	1290500010080	RES.	BPR58CFR10J
P701	R778		1290500010080	1290500010080	RES.	BPR58CFR10J
P701	R779		1290500010080	1290500010080	RES.	BPR58CFR10J
P701	R780		1290500010080	1290500010080	RES.	BPR58CFR10J
P701	R966		00D2790034054	00D2790034054	VARISTOR	PTH9M04BC222TS2F333
					<b>STANDBY PWB (P851)</b>	
P851	▲ C851		1330500010070	1330500010070	FILM CAP.	! CF-MH22E103M-C
P851	C852		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P851	C854		nsp	1340100665040	ELECT. CAP.	RA2-50V010ME3E#8-T2
P851	▲ C855		1340100505090	1340100505090	ELECT. CAP.	! RA2-35V222MJ6#8-S1
P851	C856		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P851	C857		nsp	1340100595060	ELECT. CAP.	RA2-35V221MH3#8-T2
P851	C858		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P851	C859		nsp	1340100665040	ELECT. CAP.	RA2-50V010ME3E#8-T2
P851	▲ C861		1340500220070	1340500220070	ELECT. CAP.	! UFW1V472MHD1AA
P851	▲ C862		1340500220070	1340500220070	ELECT. CAP.	! UFW1V472MHD1AA
P851	▲ D851		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D852		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D853		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D854		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D855		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D856		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D857		2040500013050	2040500013050	DIODE	! 11EQS10-TA1B2
P851	▲ D858		2040500013050	2040500013050	DIODE	! 11EQS10-TA1B2
P851	▲ D859		2040500013050	2040500013050	DIODE	! 11EQS10-TA1B2
P851	▲ D860		2040500013050	2040500013050	DIODE	! 11EQS10-TA1B2
P851	▲ D861		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D862		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D863		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D864		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ D865		2030500013020	2030500013020	DIODE	! 1D3 1A/200V

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PWB NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P851	▲ D866		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲ F851		0520100150000	0520100150000	FUSE	# S506-3.15A 3.15A 250V BS LISTED
P851	▲ G851		1890100010020	1890100010020	CAP.COMP.	! RFD2B474K 0.47UF+6.8OHM
P851	J251		0460100040050	0460100040050	TERMINAL	YKC21-3046
P851	▲ L851		1013100020028	1013100020028	TRANSF.	# STANDBY TRANSFORMER FOR 230V
P851	▲ L852		0820100017050	0820100017050	RELAY	# SDT-S-109DMR TV-810A RELAY
P851	L853		1190100014090	1190100014090	COIL	BL02RN2R1N1A FERRITE BEAD
P851	L854		1190100014090	1190100014090	COIL	BL02RN2R1N1A FERRITE BEAD
P851	L855		1190100014090	1190100014090	COIL	BL02RN2R1N1A FERRITE BEAD
P851	Q214		00D2690204900	00D2690204900	TRS.	KRA102M-AT(10K-10K)
P851	Q851		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P851	▲ Q852		2310100014080	2310100014080	IC	! NJM78L05A
P851	▲ Q853		2310100020050	2310100020050	IC	! NJM7805FA +5V
P851	▲ R855		1210500010040	1210500010040	RES.	! CFPB1/2CL12.5A1R0J
P851	▲ R856		1210500010040	1210500010040	RES.	! CFPB1/2CL12.5A1R0J
<b>POWER SW PWB (P891)</b>						
P891	▲ C891		1320500030000	1320500030000	CER. CAP.	! DE0910 B 471K -KX 470PF 250V
P891	▲ S891		0610500020060	0610500020060	SW	# ESB92S17B TV-5 STROKE=1.5MM
<b>SPK TERMINAL PWB (P971)</b>						
P971	C971		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P971	C972		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P971	C973		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P971	J974		0460100010060	0460100010060	TERMINAL	T6549-D SPEAKER TERMINAL
P971	J975		0460100060010	0460100060010	TERMINAL	T6549-E SPEAKER TERMINAL
P971	L971		0820100030080	0820100030080	RELAY	G5PA-28 5A/250VAC OMRON
P971	L972		0820100030080	0820100030080	RELAY	G5PA-28 5A/250VAC OMRON
P971	L973		0820100020050	0820100020050	RELAY	MR82-24USR
<b>HEADPHONE PWB (P991)</b>						
P991	J991	/N1B	6430100030070	6430100030070	TERMINAL	YKB21-5807 HP JACK(GOLD)
P991	J991	/N1S	6430100020040	6430100020040	TERMINAL	YKB21-5805 HP JACK(SILVER)
<b>VOLUME PWB ASSY (PB01)</b>						
PB01	CB01		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
PB01	CB02		nsp	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
PB01	JB01		0450100030090	0450100030090	CONN.	10MQ-ST-L
PB01	RB01		0750100040030	0750100040030	VAR. RES.	RK27112MC
PB01	SB01		0650100010070	0650100010070	SW	4USH12 PUSH SWITCH

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