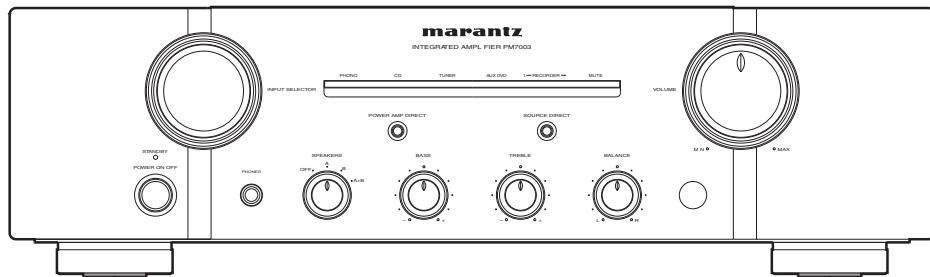


Service Manual

PM7003 /F N/K1SG/N1SG
/N1B
Integrated Amplifier



PM7003

TABLE OF CONTENTS

SECTION	PAGE
1. TECHNICAL SPECIFICATIONS	1
2. ALIGNMENTS.....	2
3. SERVICE MODE.....	4
4. PROTECTION MODE	5
5. WRITING MAIN MICROPROCESSOR PROCEDURE.....	7
6. WIRING DIAGRAM	25
7. BLOCK DIAGRAM	27
8. SCHEMATIC DIAGRAM.....	29
9. PARTS LOCATION.....	37
10. EXPLODED VIEW AND PARTS LIST	47
11. MICROPROCESSOR AND IC DATA.....	51
12. ELECTRICAL PARTS LIST	56
13. ABOUT REPLACE THE MICROPROCESSOR WITH A NEW ONE.....	71

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®

PM7003

Part no. 90M24AJ855010
First Issue 2008.07
MZ

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

CANADA

D&M Canada Inc.
5-505 APPLE CREEK BLVD.
MARKHAM, ONTARIO L3R 5B1
CANADA
PHONE : 905 - 415 - 9292
FAX : 905 - 475 - 4159

JAPAN

D&M Holdings Inc.
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
本 社 〒210-8569
神奈川県川崎市川崎区日進町2-1 D&Mビル

KOREA

D&M SALES AND MARKETING KOREA LTD.
CHUNG JIN B/D., #1001,
53-5, WONHYORO 3 GA, YONGSAN-GU,
SEOUL, 140-719, KOREA
PHONE : +82 - 2 - 323 - 2155
FAX : +82 - 2 - 323 - 2154

CHINA

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ものをして下さい。

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.

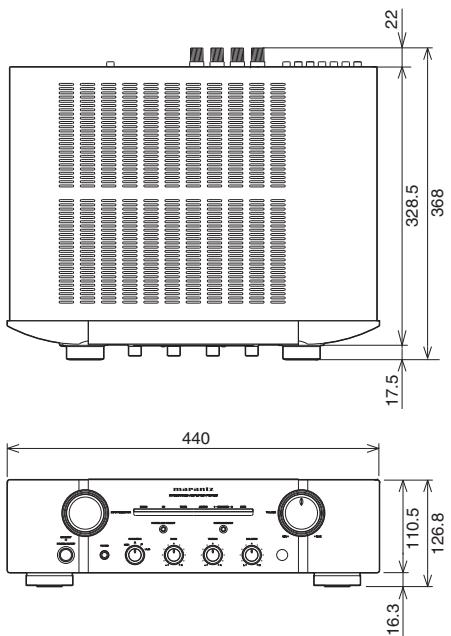
Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

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

1. TECHNICAL SPECIFICATIONS

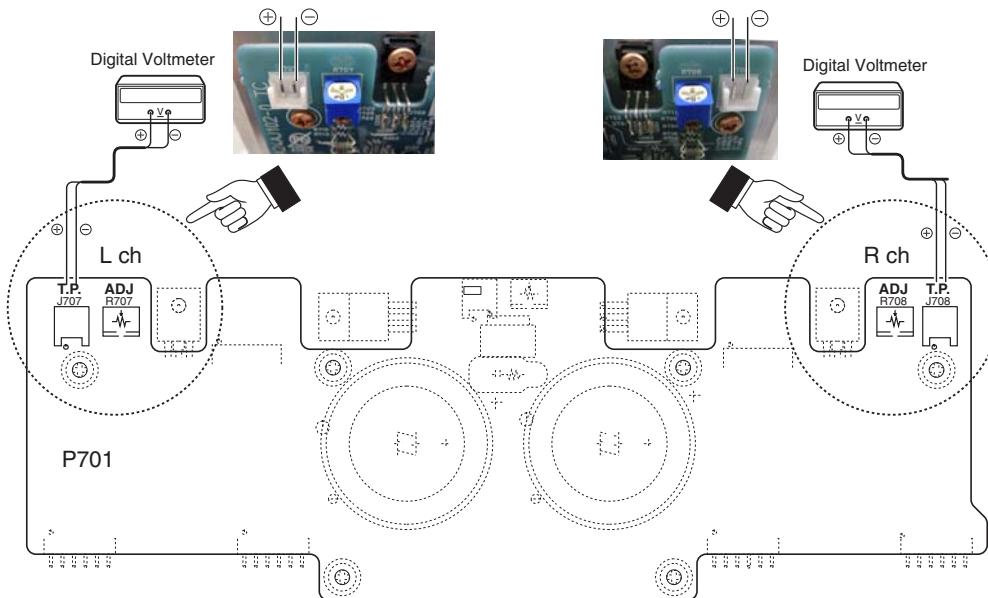
Power output (20 Hz – 20 kHz simultaneous drive of both channels)	
8 Ω load	70 W x 2
4 Ω load	100 W x 2)
Total harmonic distortion (20 Hz – 20 kHz simultaneous drive of both channels, 8 Ω load)	
.....	0.02 %
Output band width (8 Ω load, 0.05 %)	
.....	5 Hz – 60 kHz
Frequency response (CD, 1 W, 8 Ω load)	
.....	5 Hz – 100 kHz ±3 dB
Dumping factor (8 Ω load, 20 Hz – 20 kHz).....	100
Input sensitivity/Input impedance	
PHONO (MM)	2 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	1.6 V/600 Ω
Maximum allowable PHONO input level (1 kHz)	
MM.....	100 mV
RIAA deviation (20 Hz ~ 20 kHz)	±0.5 dB
S/N (IHF-A, 1 W, 8 Ω load)	
PHONO (MM))	85 dB
CD, LINE, TUNER, AUX/DVD, RECORDER	88 dB
POWER AMP DIRECT IN.....	106 dB
Tone control	
Bass (50 Hz)	±10 dB
Treble (20 kHz).....	±10 dB
Power requirement	
[F]	AC 100 V, 50/60 Hz
[N]	AC 230 V, 50 Hz
Power consumption	
EN60065/J60065	200 W
Standby power consumption	0.3 W
Accessories	
Remote controller (RC003PM).....	1
AAA batteries.....	2
Detachable AC power cable.....	1
Maximum outer dimensions (Amplifier)	
Width.....	440 mm
Height	126.8 mm
Depth	368 mm
Weight (Amplifier)	10.5 kg

DIMENSIONS (unit : mm)



2. ALIGNMENTS

1. Idling Current Alignment



Adjustment Procedure

Set the power voltage to rated voltage for this adjustment.

1. Adjust the Idling Current with the variable resistor R707 and R708 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 J707.
4. "+" of Connect Digital Voltage is connected to the No. 1 pin and connected "-" to No. 2 pin of J708.
5. Before turning on the power, R707 and R708 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 R707 (R708).

- Turn R707 (R708) clockwise to increase the idling current.
 - The adjustment value of idling current is $5 \text{ mV}(25 \text{ mA}) \pm 0.5 \text{ mV}(2.5 \text{ mA})$ each.
8. After 8 minutes.

Repeat the same procedure as 7.

- The adjustment value of idling current is $13.4 \text{ mV}(67 \text{ mA}) \pm 0.5 \text{ mV}(2.5 \text{ mA})$ each.

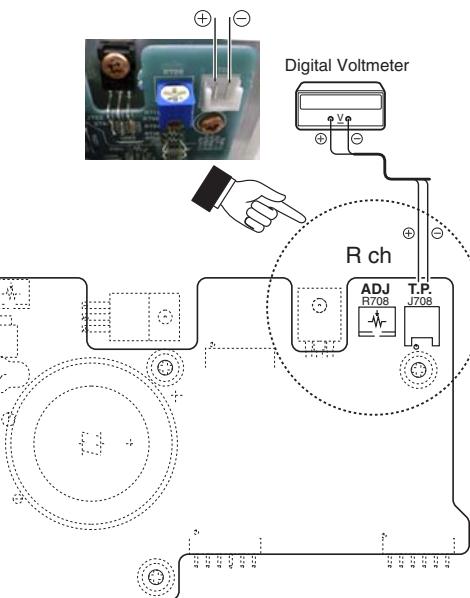
Adjustment is completed.

9. Remove connection cable, attach the top cover.

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

2. ALIGNMENTS

1. アイドリング電流調整



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R707とR708でアイドリング電流を調整します。
2. 電源をOFFします。
3. P701基板のJ707にデジタルボルトメーターを接続します。デジタルボルトメーターはJ707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J708にデジタルボルトメーターを接続します。デジタルボルトメーターはJ708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R707とR708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J707 (J708) に接続したデジタルボルトメーターの電圧値を監視しながら、半固定抵抗R707 (R708) をゆっくりと時計方向に回してください。

- R707とR708を時計方向に回すとアイド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 " $5 \text{ mV}(25 \text{ mA}) \pm 0.5 \text{ mV}(2.5 \text{ mA})$ " にします。

8. さらに8分経過後。

上記7.の手順でもう一度調整します。

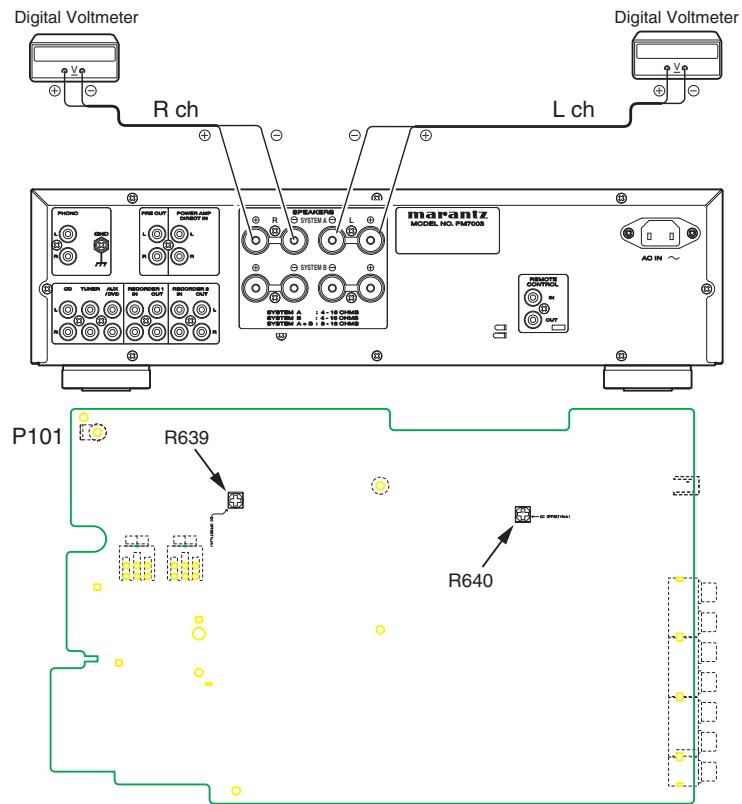
アイドリング電流の調整値はそれぞれ " $13.4 \text{ mV}(67 \text{ mA}) \pm 0.5 \text{ mV}(2.5 \text{ mA})$ " にします。

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。

注意 : 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" $10 \text{ mV}(50 \text{ mA})$ "になります。

2. DC Offset Voltage Adjustment



Adjustment Procedure

Set the power voltage to rated voltage for this adjustment.

- 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 "-".
- Adjust the VOLUME to MIN.
- Turn on the power. Then turn the SPAKERS knob to A. Adjustment is started immediately after a speaker relay turns on.
- First L CH is adjusted.
The variable resistor R639 on P101 is turned with adjustment driver, and the Digital Voltage Meter is adjusted to "0 mV ± 3 mV".
- Then, R CH is adjusted.
The variable resistor R640 on P101 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 (R639 and R640) 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.

- 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

2. DC Offset Voltage Adjustment

調整手順

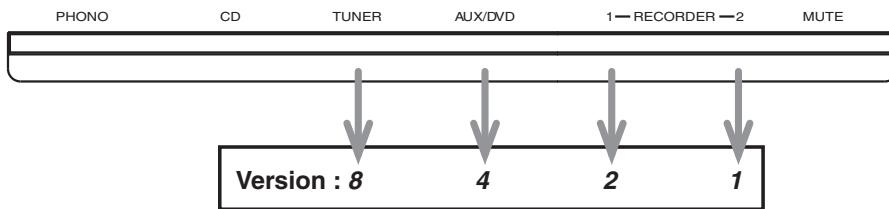
調整時は必ず電源電圧を定格電圧に合わせてください。

- 電源をONする前にリアパネルのSPEAKERS SYSTEM A のL CHおよび、R CHそれぞれの"+"端子と"-"端子間にデジタルボルトメーターを接続します。
 - ボリュームをMINにセットします。
 - 電源を投入し本体前面のSPEAKERSノブを回し、Aにします。
スピーカーリレーがONした後に調整を開始します。
 - 最初にL CHを調整します。
P101基板の半固定抵抗R639を調整ドライバーで回し、L CHスピーカー出力端子に接続したデジタルボルトメーターの電圧が"0 mv ± 3 mv"以内になるように調整します。
 - 次にR CHを調整します。
P101基板の半固定抵抗R640を調整ドライバーで回し、R CHスピーカー出力端子に接続したデジタルボルトメーターの電圧が"0 mv ± 3 mv"以内になるように調整します。
- 注意 :** 半固定抵抗(R639、R640)を時計回りに回すと、DCオフセット電圧は減少し、反時計回りに回すと増加します。DCオフセット電圧の値は非常にゆっくりと増減しますので、半固定抵抗はゆっくりと回してください。
- 調整後DCオフセット電圧は多少の変動がありますが、SPEAKERS SYSTEM AのL CHおよび、R CHそれぞれの"+"端子と"-"端子間のDCオフセット電圧は"0 mV ± 20 mV"の範囲であることを確認してください。

3. SERVICE MODE

Microprocessor (QU01) version check

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



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

Ex. :

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

3. SERVICE MODE

Microprocessor (QU01) version 確認

1. 本機に電源ケーブルを接続します。
2. **SOURCE DIRECT**ボタンを押しながら、**POWER**ボタンを押します。
3. **FIRMWARE**のバージョンがLEDにて表示されます。
(表示は3秒間のみです)

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. フロントパネルのLEDが順次点灯し、その後全点灯します。
- 5. 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. PROTECTION MODE

Explanation of microprocessor (QU01) [PROT-1 (pin6) and PROT-2 (pin7)].

[A] The PROT-1 (pin6) is the port to detect the following abnormalities of the Power AMP

1. Detection of an abnormality in the DC offset voltage from the Speaker Output terminal.
If the voltage from the Speaker Output terminal exceeds approximately 1.2V (DC), Q955 or Q956 will turn on and the signal from the PROT-1 terminal will change to L from H.
2. Detection of an abnormal current from the power transistors (Q713 ~ Q716).
If an electric current of over 7A flows in Q713 or Q715, Q951, Q953 and Q957 turn on, and the signal from the PORT-1 terminal will change to L from H.
If an electric current of over 7A flows in Q714 or Q716, Q952, Q954 and Q957 turn on, and the signal from the PORT-1 terminal will change to L from H.
3. Detection of an abnormal temperature of the Heat Sink.
If the temperature of the Heat Sink exceeds approximately +110 degrees C, the posistor (R969) will turn on Q958 and the signal from the PROT-1 terminal will change to L from H.

If any of the above three abnormalities is detected, the signal from the PROT-1 terminal will change to L from H, and the protection circuit will be activated, the signal from the SPK_OUT (pin10) changing to H from L and the speaker relays L751, L752 and L753 immediately turned off.

What this protection operation results in after this depends on how long the signal from the PROT-1 has to remain L.

- If the PROT-1 (pin6) recovers to "H" within as short a period of time as one second or less.
The MUTE indicator starts flickering, thereby indicates that the protection circuit has come into operation and automatically turns down the volume. The protection circuit is deactivated after approximately 15 seconds, so that readjusting the volume will allow normal use of the unit again. This protection operation is intended for the situation wherein the user has misused the unit temporarily and automatically resets the unit while the amp circuit is functioning properly.
- If the PROT-1 (pin6) remains L for more than one second. The amp will be powered off by the P_ON (pin15) changing to H from L and Power relay L852 turned off. Then, the STANDBY indicator flickers, thereby indicating that an error has occurred. This protection operation is intended for a failure in the amp circuit and immediately turns the power off to avoid the risk of any damage. Depending on how the user is handling the unit, this operation may be performed no matter if the amp is functioning properly.

4. PROTECTION動作について

マイコン(QU01)のPROT-1 (pin6)とPROT-2 (pin7)の説明。

[A] PROT-1 (pin6)は、パワーアンプの下記の異常動作を検出するポートです

1. スピーカー出力端子のDCオフセット電圧の異常電圧を検出。
スピーカー出力端子が約1.2V (DC) を超えるとQ955もしくはQ956がONして、PROT-1端子が "H→L" になる。
2. パワートランジスタ(Q713～Q716)の異常電流を検出。
Q713もしくはQ715に約7Aを超える電流が流れるとQ951, Q953, Q957がONして、PROT-1端子が "H→L" になる。
Q714もしくはQ716に約7Aを超える電流が流れるとQ952, Q954, Q957がONして、PROT-1端子が "H→L" になる。
3. ヒートシンクの異常温度を検出。
ヒートシンクの温度が約110°Cを超えると、ポジスター (R969)によってQ958がONして、PROT-1端子が "H→L" になる。

1.～3.のいずれかの異常検出でPROT-1端子が "H→L" になると保護回路が動作して、SPK_OUT (pin10) を "L→H" にして、即座にスピーカーリレー L751, L752, L753をOFFにします。

このPROTECTION動作はPROT-1端子が "L" になっている時間によって、その後の動作が異なります。

- PROT-1 (pin6)が1秒以内の短時間の間に "H" に復帰した場合。
MUTEインジケーターが点滅しPROTECTION動作になったことを知らせ、自動的にボリュームを下げます。
約15秒後に保護回路が解除しますのでボリュームを再調整すればそのまま使用することができます。
これは、ユーザーが一時的に使用法を誤った場合を想定したPROTECTION動作で、アンプ回路は故障していない場合に自動復帰する動作です。
- PROT-1 (pin6)が1秒以上 "L" になっている場合。
P_ON (pin15) を "H→L" にして電源リレー L852をOFFし、アンプの電源をシャットダウンします。
このときSTANDBYインジケーターが点滅し、異常が起きたことを表示します。
これは、アンプ回路の故障を想定したPROTECTION動作で、危険回避のため即座に電源を切る動作です。
ユーザーの使用状況によっては、アンプが故障していないくともこの状態になる可能性もあります。

アンプが故障しているかどうかを確認するには、一旦電源SWを切り1分ほど待ってから電源SWを再投入します。

この操作でPROTECTION動作が解除します。

電源SWを再投入してもPROT-1 (pin6)が "L" の異常状態の場合は、約3秒後に再びシャットダウンしてSTANDBYインジケーターが点滅します。

電源を再投入してもPROTECTION動作が解除されない場合は、アンプ回路が故障していると考えられます。

To check if the amp is in order, switch off the unit and switch it on again one minute later. This action will deactivate the protection operation. If the PROT-1 (pin6) remains "L", which constitutes an abnormality, the unit shuts down approximately 3 seconds later and the STANDBY indicator starts flickering.

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

[B] The PROT-2 (pin7) is the port to detect abnormalities of the power supply circuit.

1. Detection of an abnormality in the power amp power supply circuit.

This port monitors the midpoint voltage of the power amp power supply between +48V and -48V. If the voltage at the connection point of R801 and R802 exceeds DC $\pm 1.2V$, Q903 or Q904 will turn on to change the signal from the PROT-2 (pin7) to L from H.

2. Detection of an abnormality in the preamp power supply circuit.

Q901 and Q902 monitor the midpoint voltage between +28V and -28V. If the voltage at the connection point of R905 and R906 exceeds DC $\pm 1.2V$, Q901 or Q902 will turn on to change the signal from the PROT-2 (pin7) to L from H

3. Detection of an abnormality in the function relay power supply circuit.

If the +24VL of the relay power supply receives an electric current of over 80 mA, Q815 and Q901 will turn on to change the signal from the PORT-2 (pin7) to L from H.

If any of the above three abnormalities is detected, the signal from the P_ON (pin15) terminal will be changed to L from H, the power relay L852 will be turned off and the unit will be shut down. Then, the STANDBY indicator flickers and indicates that an abnormality has occurred.

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

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

If the RPOT-2 (pin7) remains L after the power is switched on again, the unit will be shut down again three seconds later with the STANDBY indicator flickering.

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

[B] PROT-2 (pin7)は、電源回路の異常を検出するポートです

1. パワーアンプ用電源回路の異常を検出。

パワーアンプ用電源の+48Vと-48Vの中点電圧を監視し、R801とR802の接続点の電圧が約 $\pm 1.2V$ (DC)を超えると、Q903もしくはQ904がONしてPROT-2 (pin7)が "H → L" になる。

2. プリアンプ用電源回路の異常を検出。

Q901とQ902はプリアンプ用電源の+28Vと-28Vの中点電圧を監視し、R905とR906の接続点の電圧が約 $\pm 1.2V$ (DC)を超えると、Q901もしくはQ902がONしてPROT-2 (pin7)が "H→L" になる。

3. ファンクションリレー用電源回路の異常を検出。

リレー用電源の+24VLに約80 mAを超える電流が流れると、Q815, Q901がONしてPROT-2 (pin7)が "H→L" になる。

1.～3. のいずれかの異常を検出すると、P_ON (pin15)を "L→H" にして、電源リレー L852 をOFFしシャットダウンします。このときSTANDBYインジケーターが点滅し、異常が起きたことを表示します。

これは、アンプ回路もしくは電源回路の故障を想定した PROTECTION動作で、危険回避のため即座に電源を切る動作です。

アンプ回路もしくは電源回路が故障しているかどうかを確認するには、一旦電源SWを切り1分ほど待ってから電源SWを再投入します。

この操作でPROTECTION動作が解除します。

電源SWを再投入してもPROT-2 (pin7)が "L" の異常状態の場合は、約3秒後に再びシャットダウンしてSTANDBYインジケーターが点滅します。

電源を再投入してもPROTECTION動作が解除されない場合は、アンプ回路もしくは電源回路が故障していると考えられます。

5. WRITING MAIN MICROPROCESSOR PROCEDURE

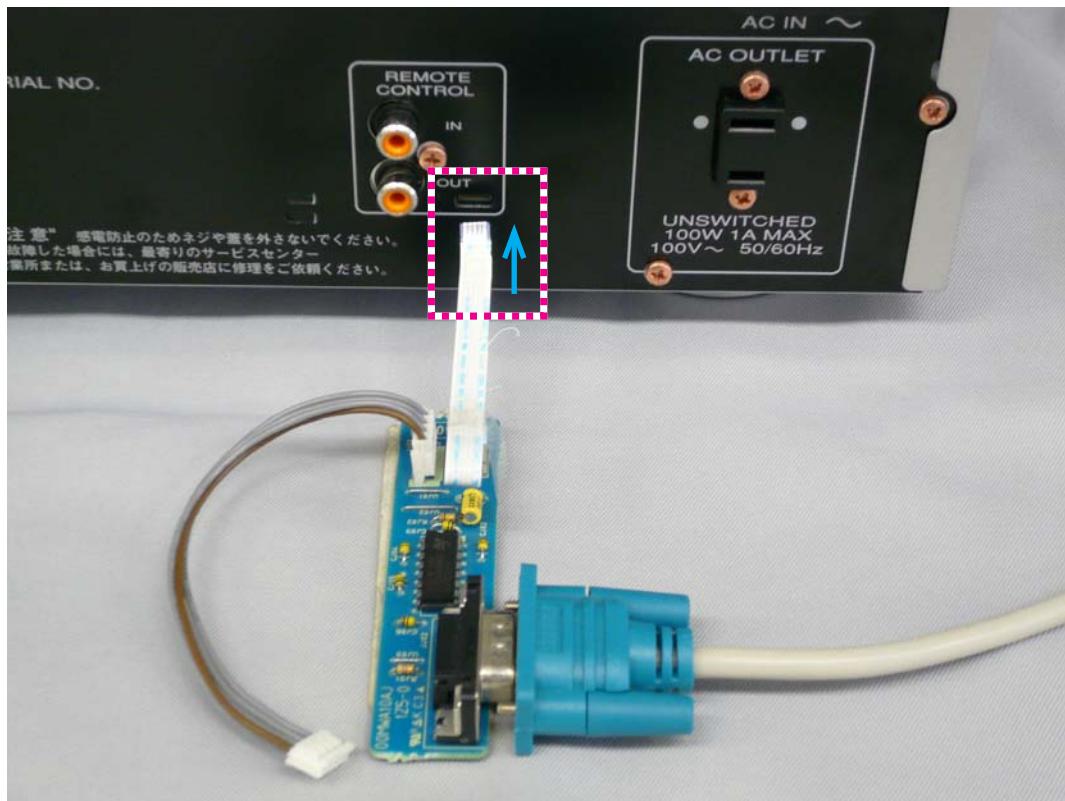
Microprocessor needs writing software, when a microprocessor (QU01) is replaced.

NECESSARY EQUIPMENT

- Windows PC (2000 or 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 (PM7003_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.
4. 本機の電源ケーブルを差し込みます。
5. TM86FH47passフォルダをWindows PCの任意のフォルダにコピーします。

5. WRITING MAIN MICROPROCESSOR PROCEDURE

QU01を交換したときはQU01へプログラムを書き込む必要があります。下記手順に沿って書き込みをしてください。

必要機器

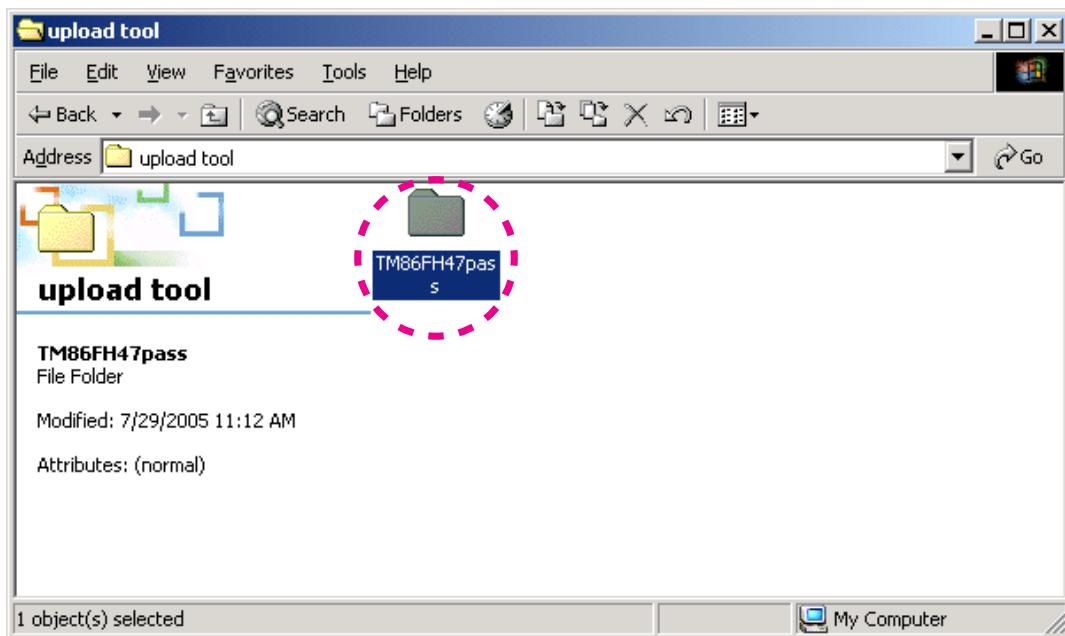
- Windows PC (2000またはXP、Serialポートつき)
- RS-232Cストレートケーブル(9Pinメス-9Pinメス)
- 接続治具(90M-PM11S1JIG)
- 書き込み用ソフトウェア式(FlashProg.exe、他)
- 書き込み用データ(PM7003_xxxx.h16)

書き込み手順

1. 本機の電源ケーブルを抜きます。
2. Windows PCのSerial Portと接続治具をRS-232Cケーブルで接続します。
3. 本機のリアパネルに接続治具のFPCをコントクト面を上にして差し込みます。

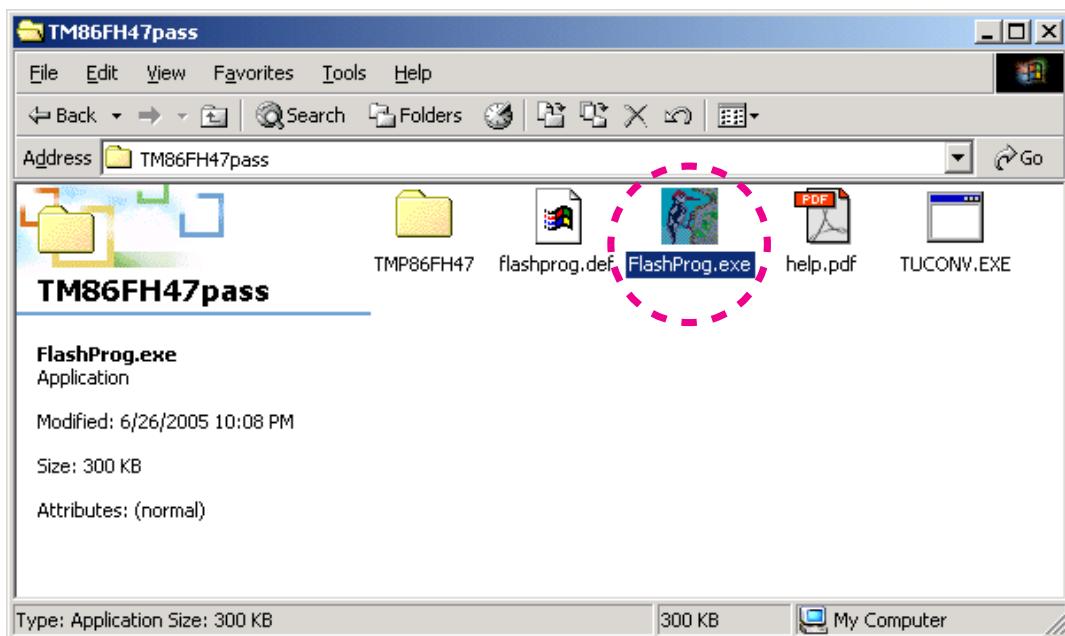
6. Double click the **TM86FH47pass** folder.

6. **TM86FH47pass** フォルダをダブルクリックして開きます。



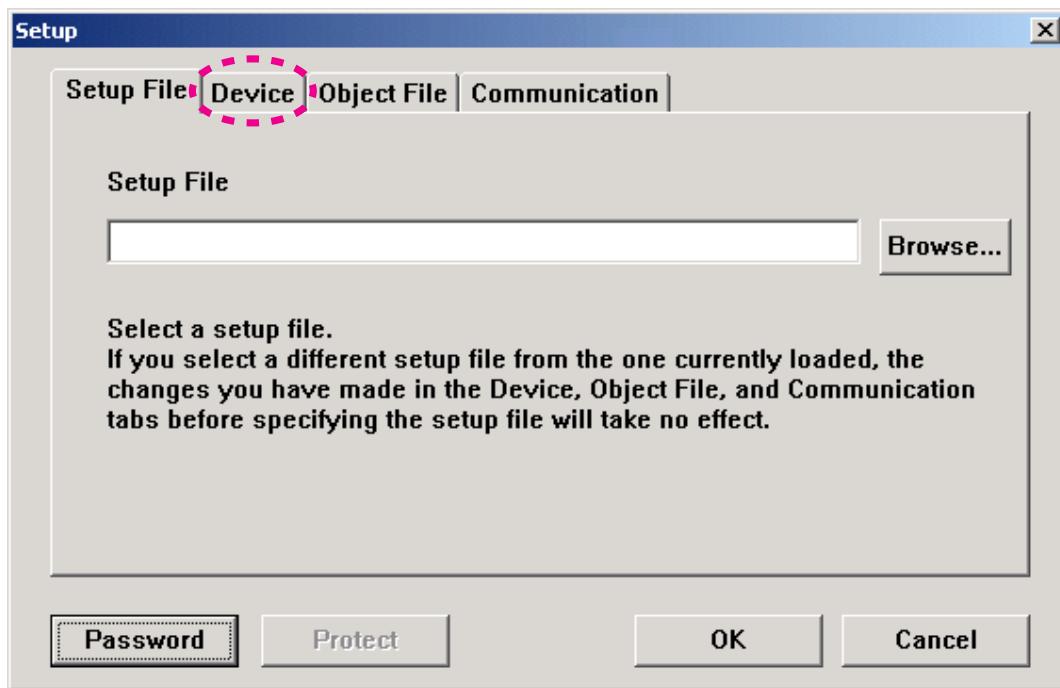
7. Double click **FlashProg.exe**.

7. **FlashProg.exe**をダブルクリックします。



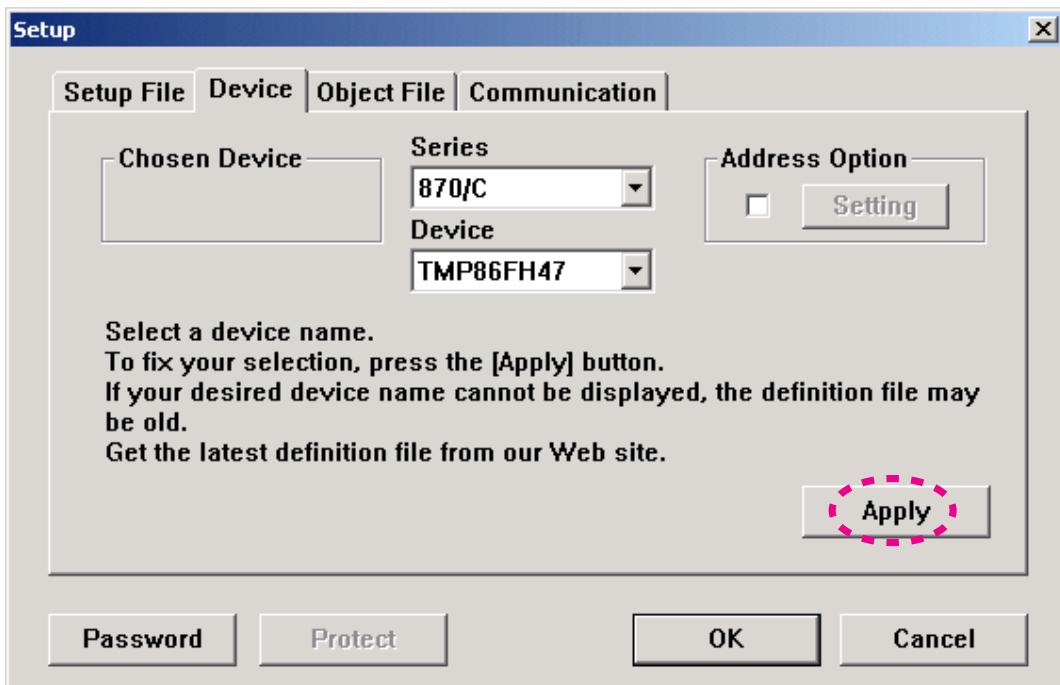
8. Click Device.

8. Deviceをクリックします。



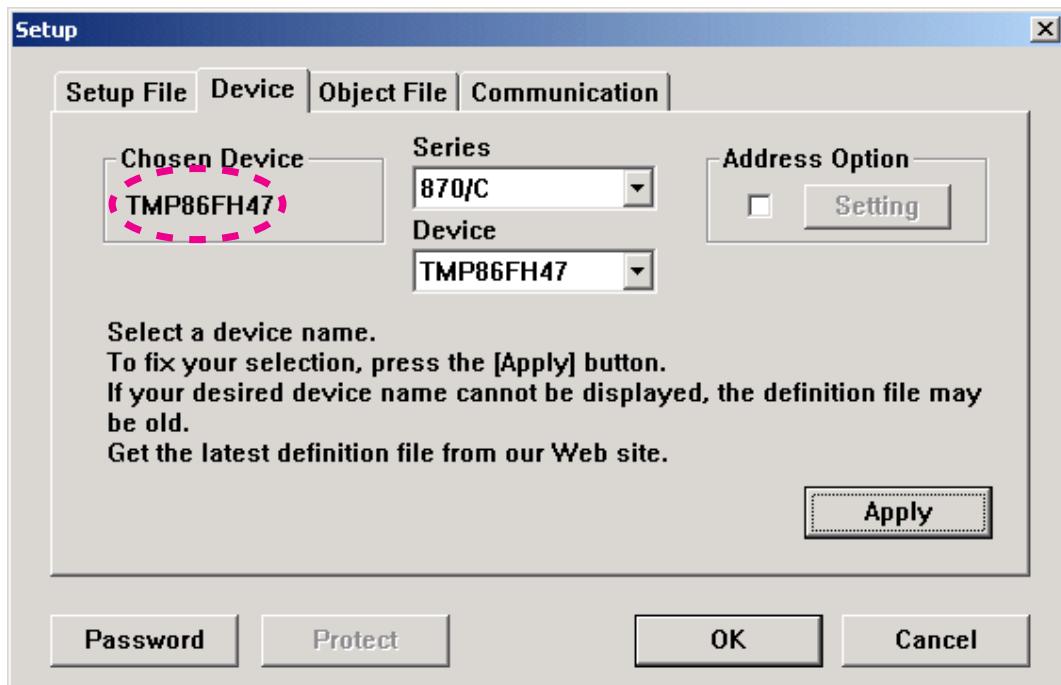
9. Click Apply.

9. Applyをクリックします。



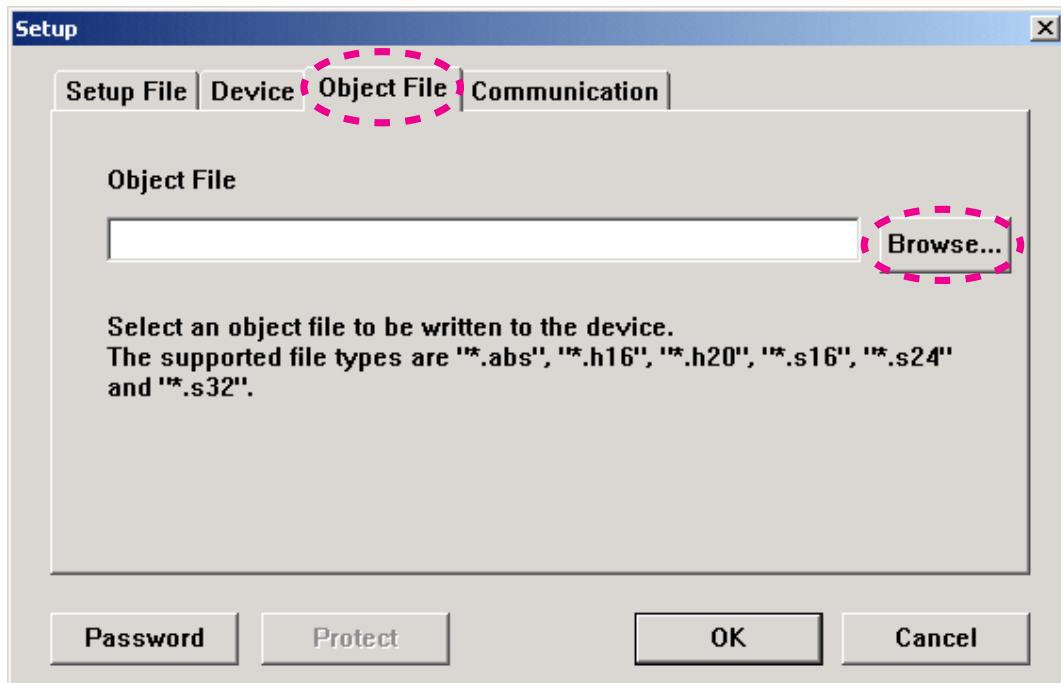
10.TMP86FH47 appear in Chosen Device.

10.Chosen DeviceにTMP86FH47が入力されます。



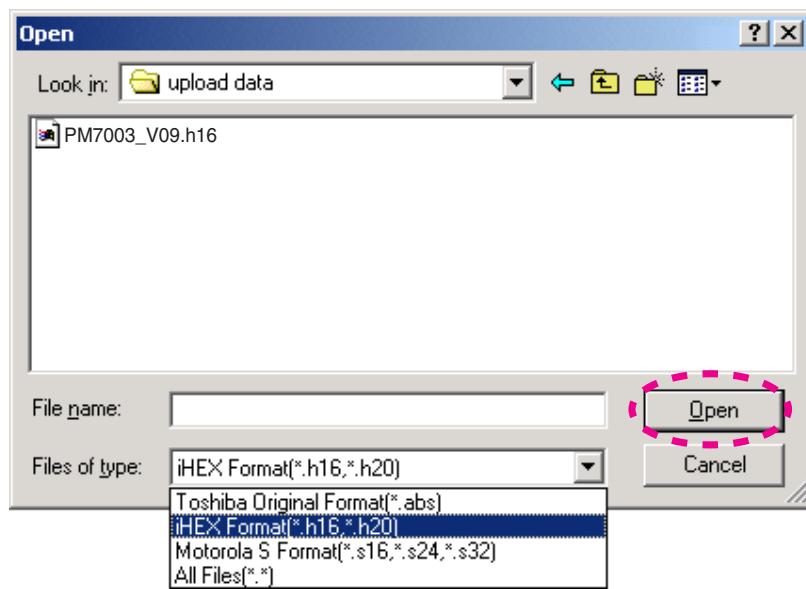
11.Click Object File, and click Browse...

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



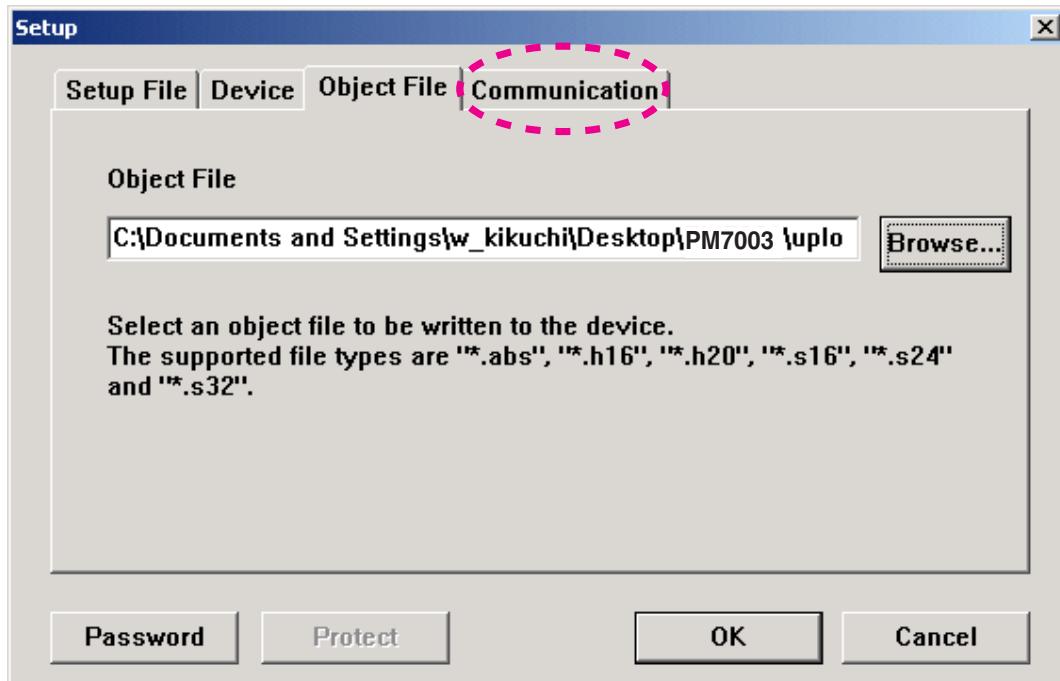
12. Choose **iHEX Format[*.h16, *.h20]** in Files of type.
Choose writing data, and click **Open**.

12. Files of typeから**iHEX Format[*.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。)



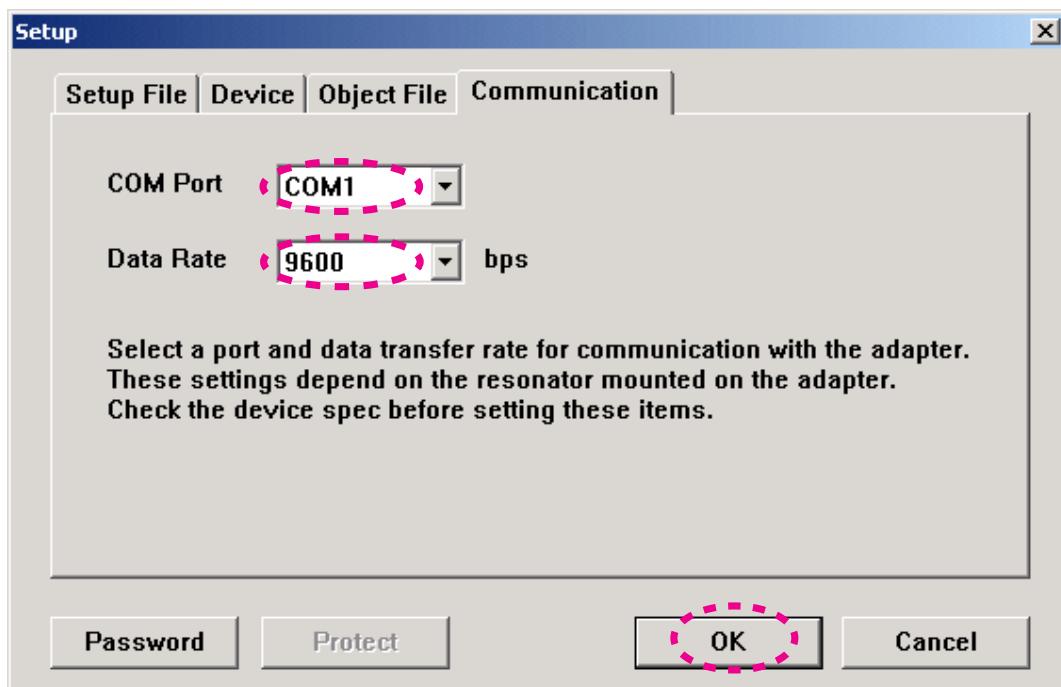
13. Click **Communication**.

13. **Communication**をクリックします。



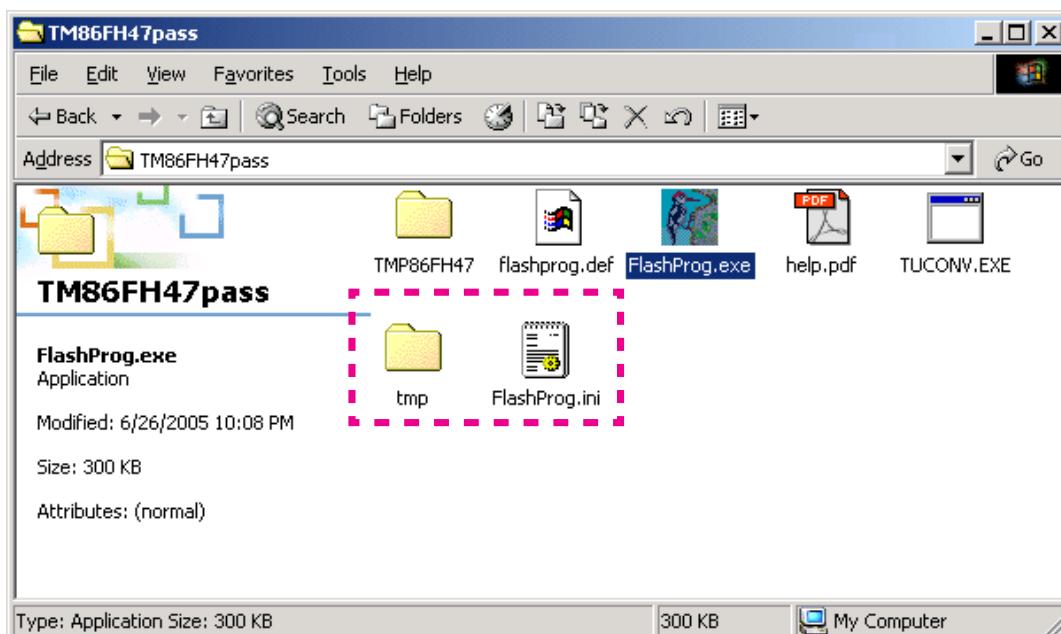
14. Choose **COM port number** in COM port.
Choose **9600** in Data Rate.
Click **OK**.

14. 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。



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

15. この時TM86FH47pass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。

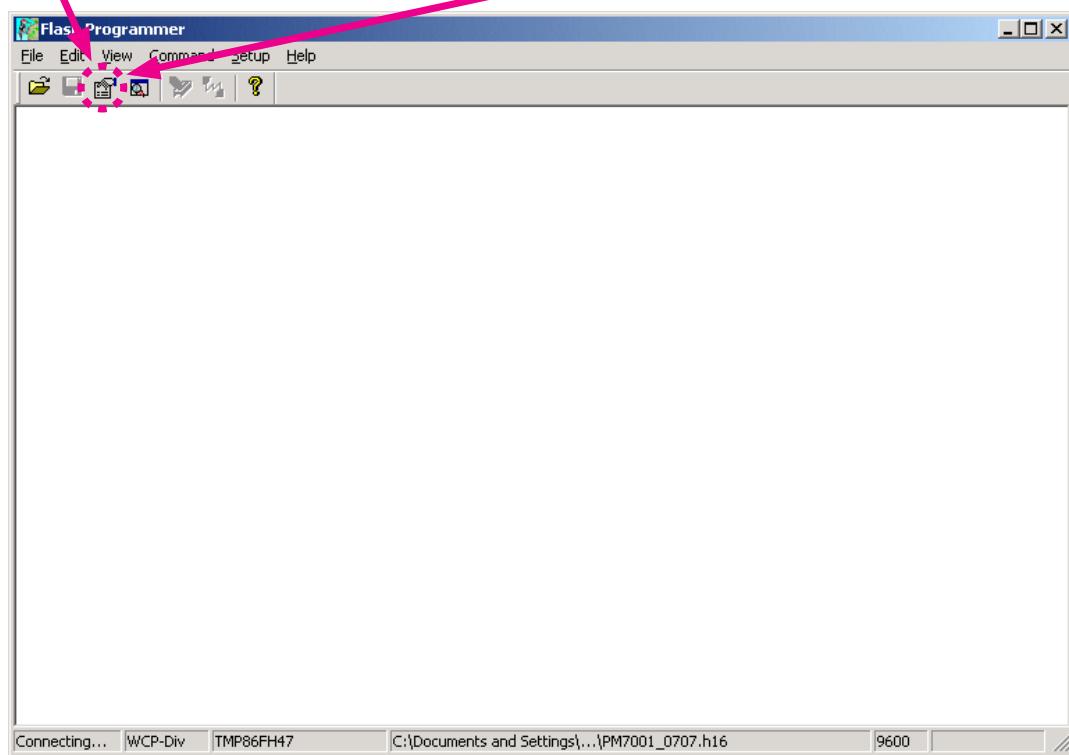


16.The Flash Programmer is launched.

Click **setup** icon.

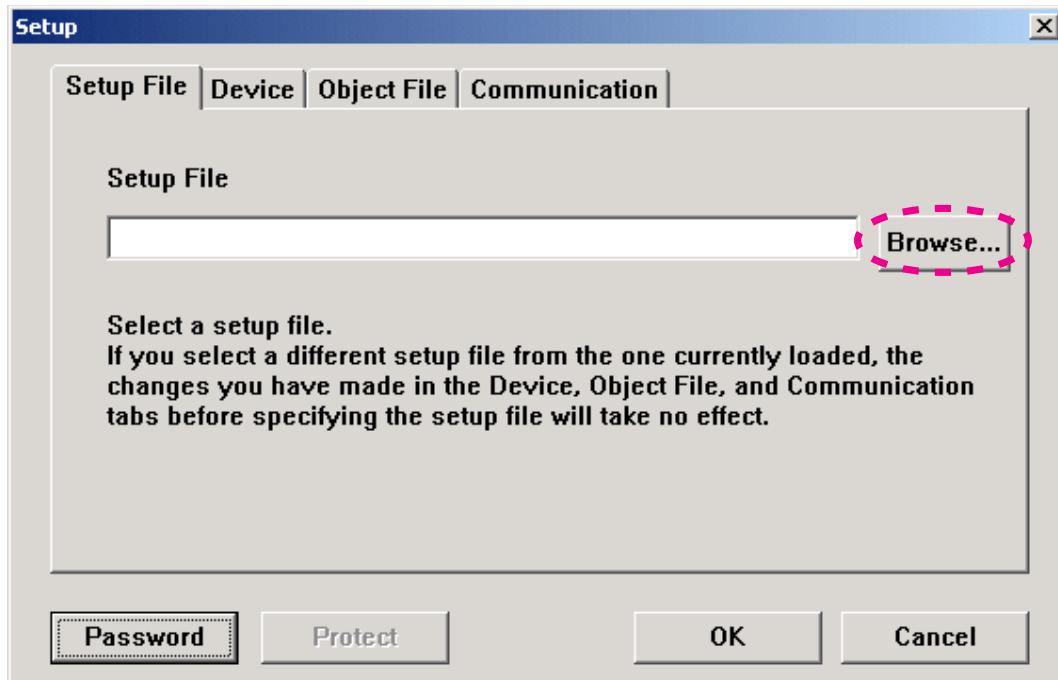
16.setupが閉じ、Flash Programmerが立ち上がります。

setupアイコンをクリックします。



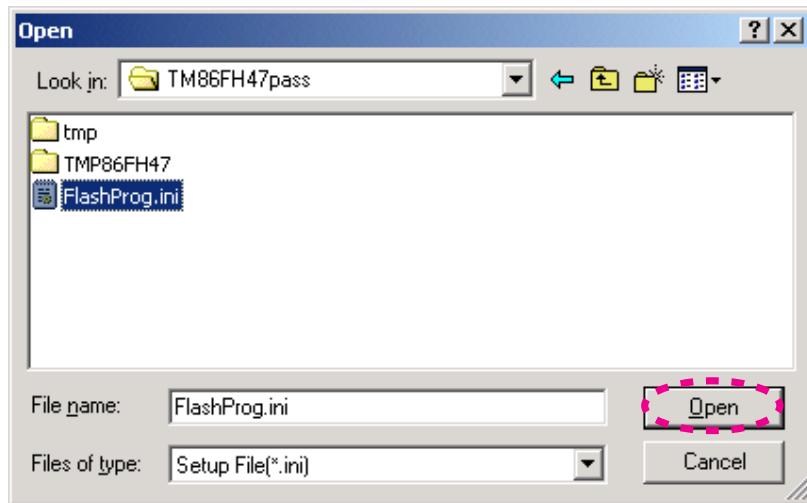
17.Click **Browse....**

17.Browse...をクリックします。



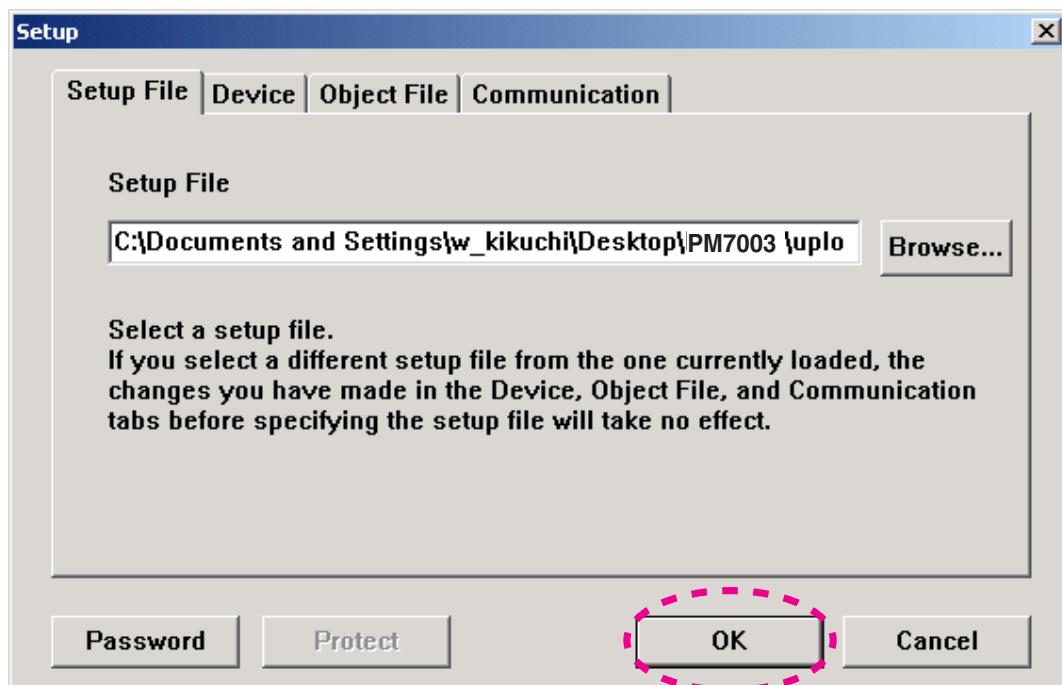
18.Choose **FlashProg.ini** in TM86FH47pass folder, and click **Open**.

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



19.Click **OK**.

19.OKをクリックします。

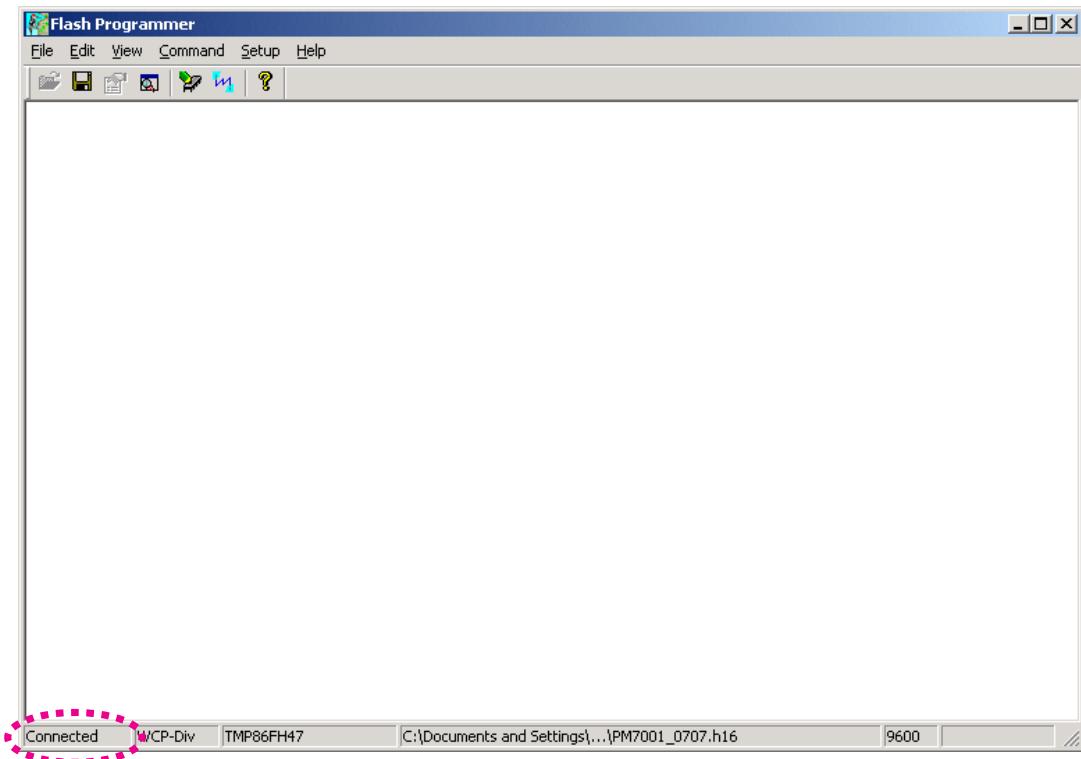


20.Press the **POWER ON/OFF** button, and turn on the unit.

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

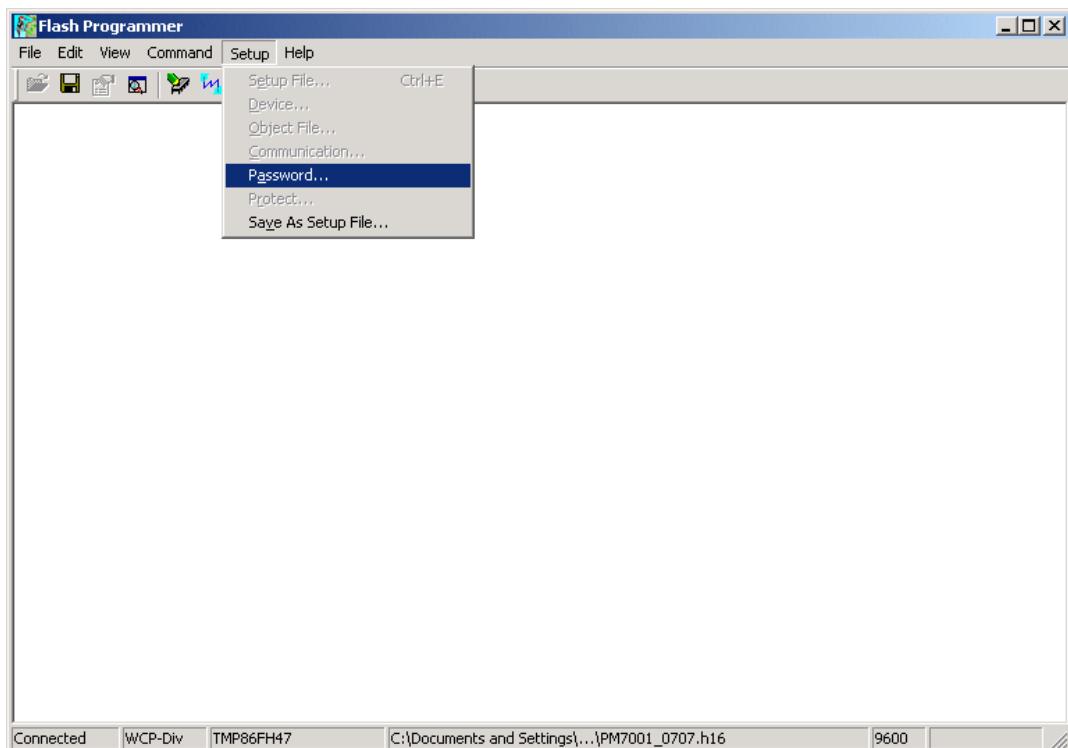
20.本機の電源スイッチをオンにします。

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。



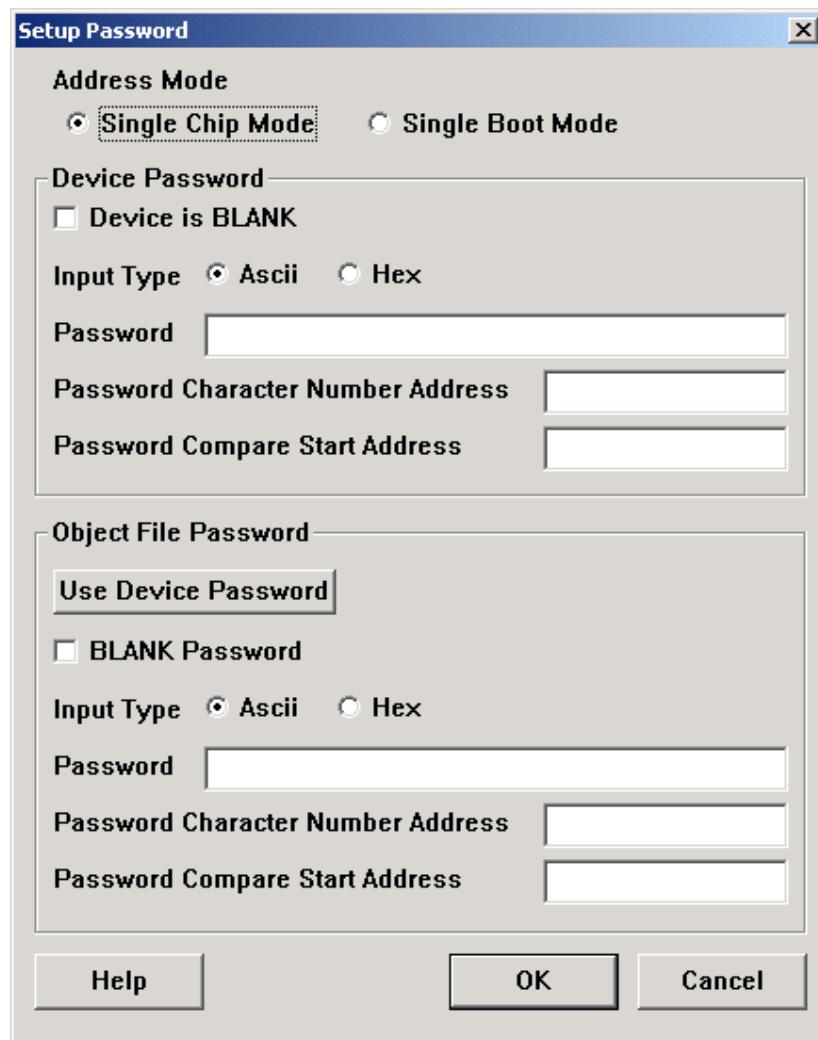
21.Select Password in Setup.

21.SetupからPasswordを選びます。



22. Setup Password opens.

22. Setup Password画面が開きます。



- When writing in a blank microprocessor
Refer to next page
- When writing (update) in the already written-in microprocessor
Refer to 19 page

- ブランクマイコンに書き込む場合は、次のページへ
- 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)は 19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.

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.

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でください。

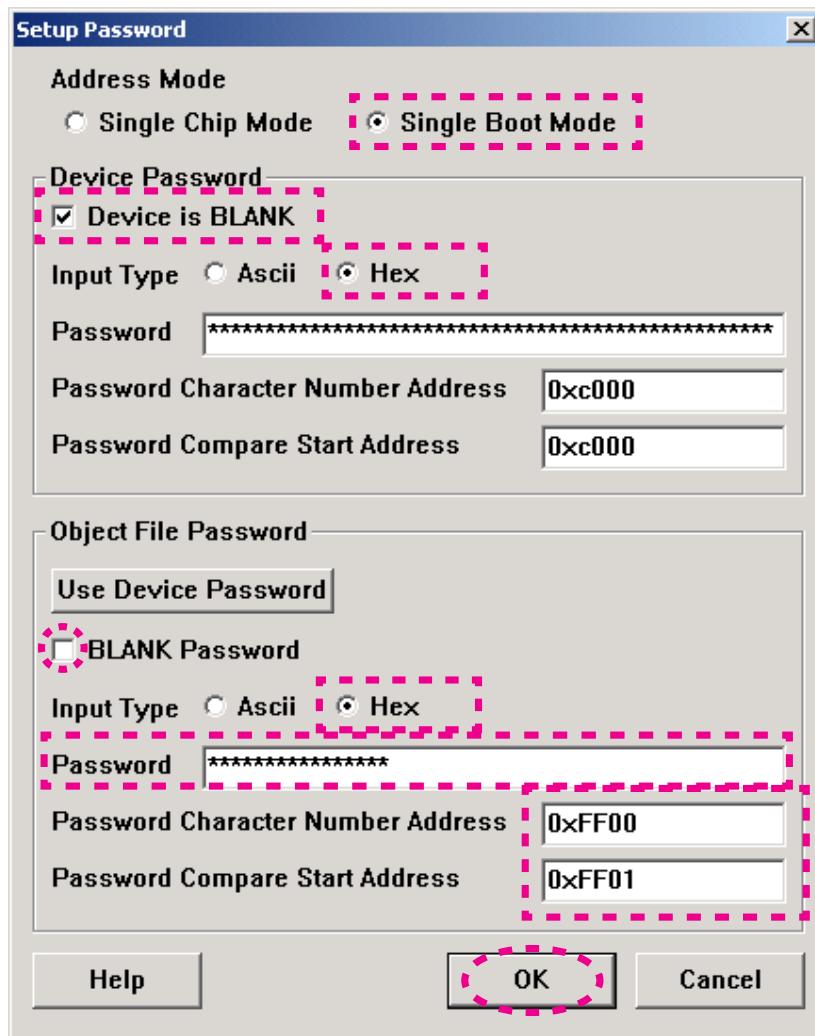
Input TypeからHexにチェックを入れてください。

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 in the already written-in microcomputer
(update)**

- 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にはチェックを入れないでください。

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でください。

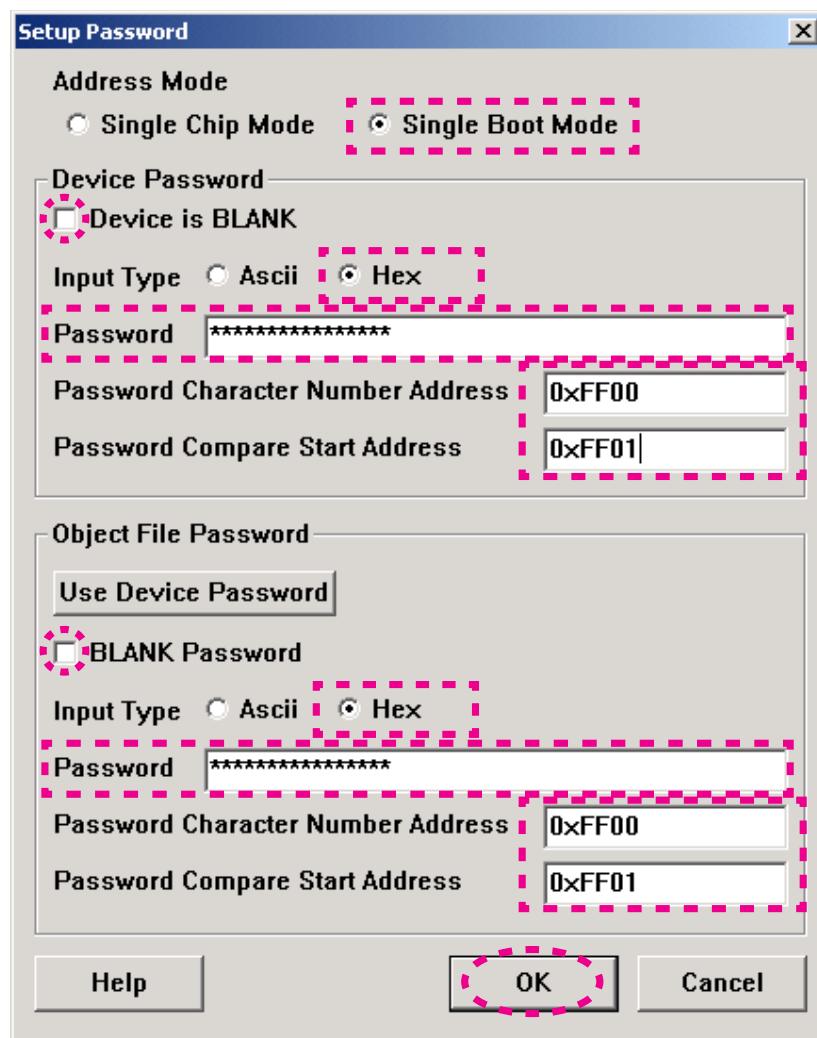
Input Typeから**Hex**にチェックを入れてください。

Passwordに**0102030405060708**を入力します。

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

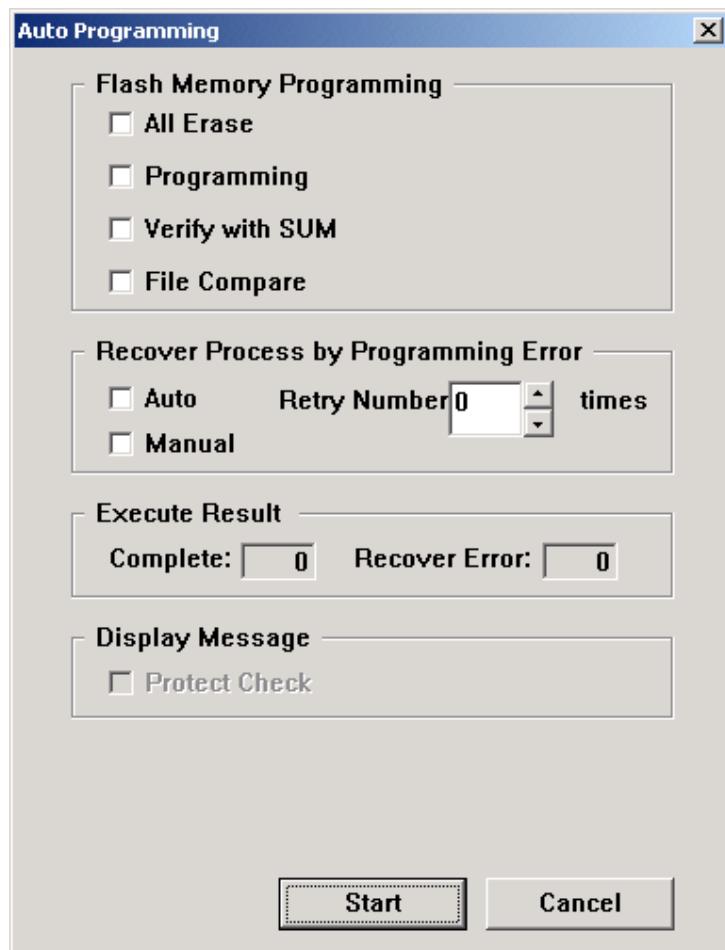
Password Compare Start Addressに**0xFF01**を入力します。

OKをクリックします。



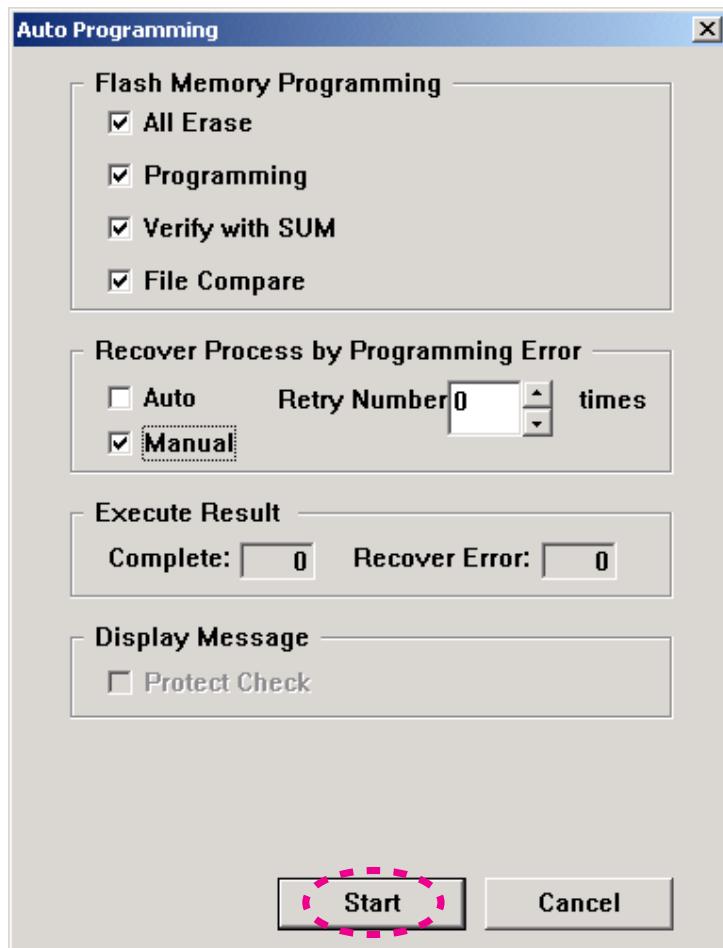
23.Auto Programming opens.

23.Auto Programmingの設定画面が開きます。



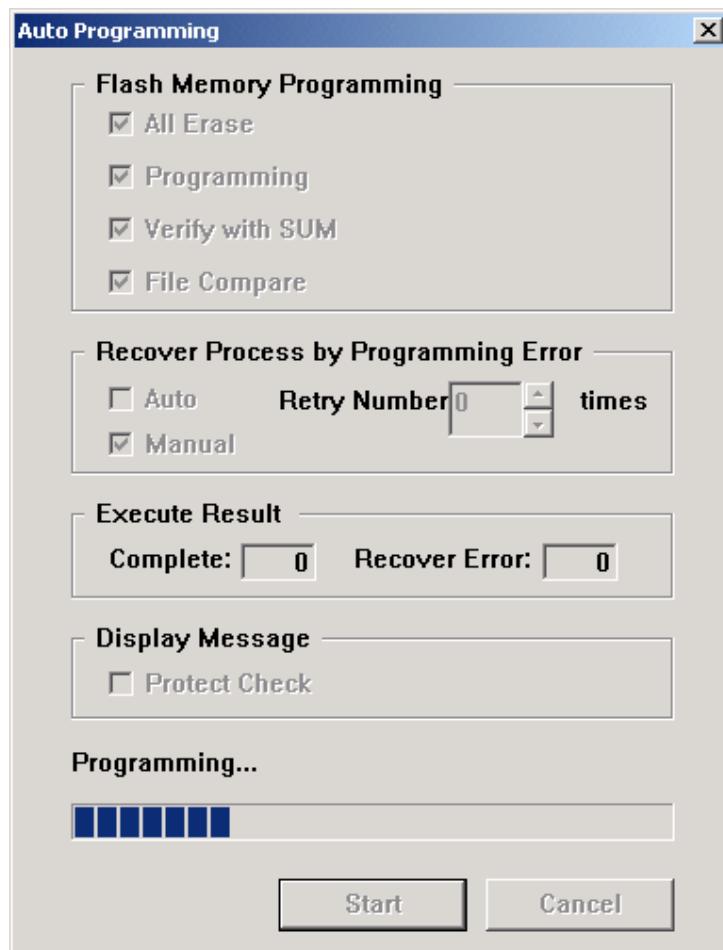
24.Check **All Erase**, **Programming**, **Verify with SUM** and **File Compare** in Flash Memory Programming.
Check **Manual** in Recover Process by Programming Error.
Click **Start**.

24.Flash Memory Programmingから**All Erase**, **Programming**, **Verify with SUM**, **File Compare**にチェックを入れます。
Recover Process by Programming Errorから**Manual**にチェックを入れます。
Startをクリックします。



25.Writing data is written into the microprocessor (QU01).

25.メインマイコン(QU01)への書き込みが行われます。



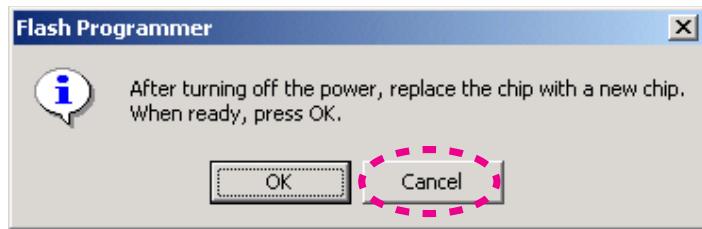
26.Click Yes, when writing is successful.

26.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。



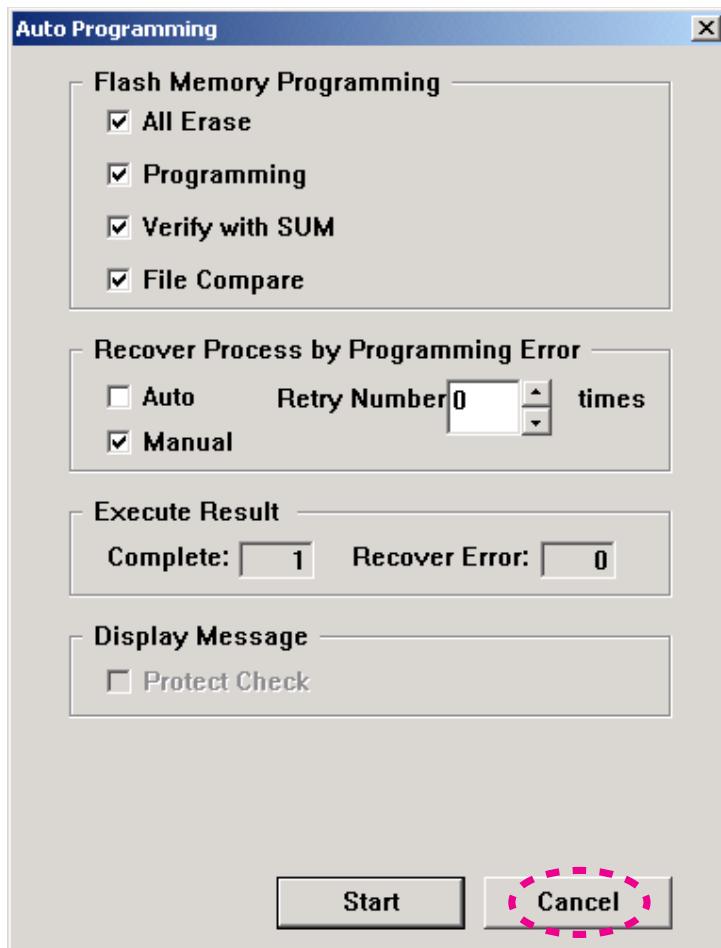
27.Click **Cancel**.

27.**Cancel**をクリックし終了します。



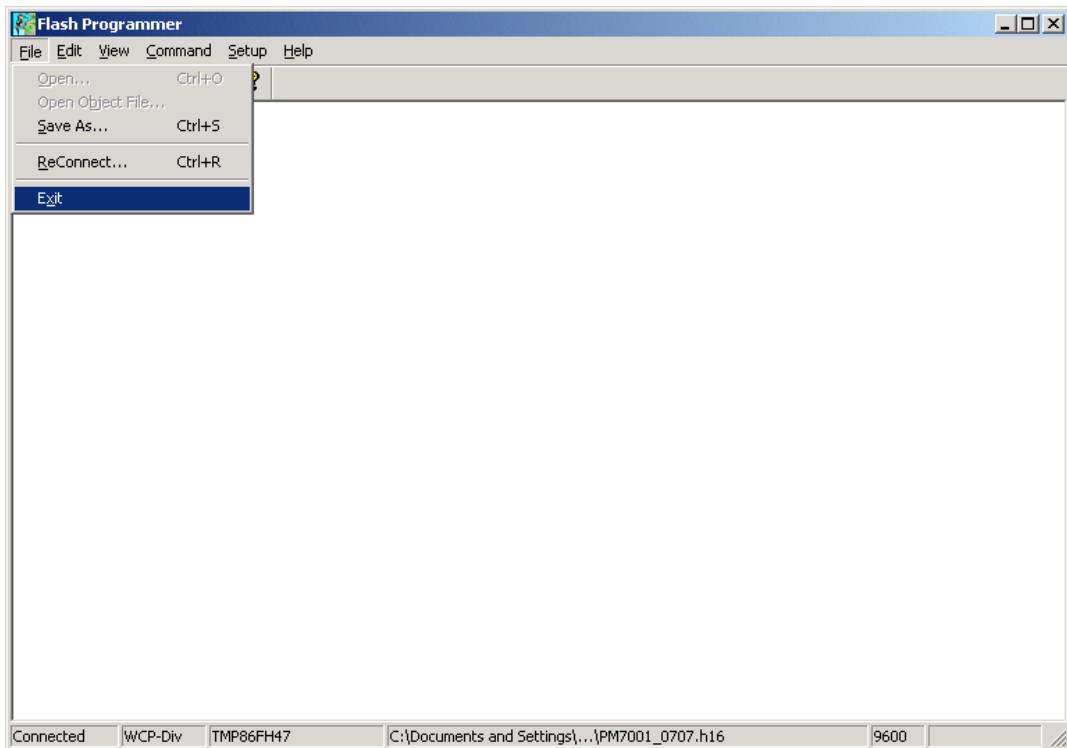
28.Click **Cancel**.

28.**Cancel**をクリックします。



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

29. **File**から**Exit**を選び終了します。



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

Disconnect each cable.

31. Check the software version.

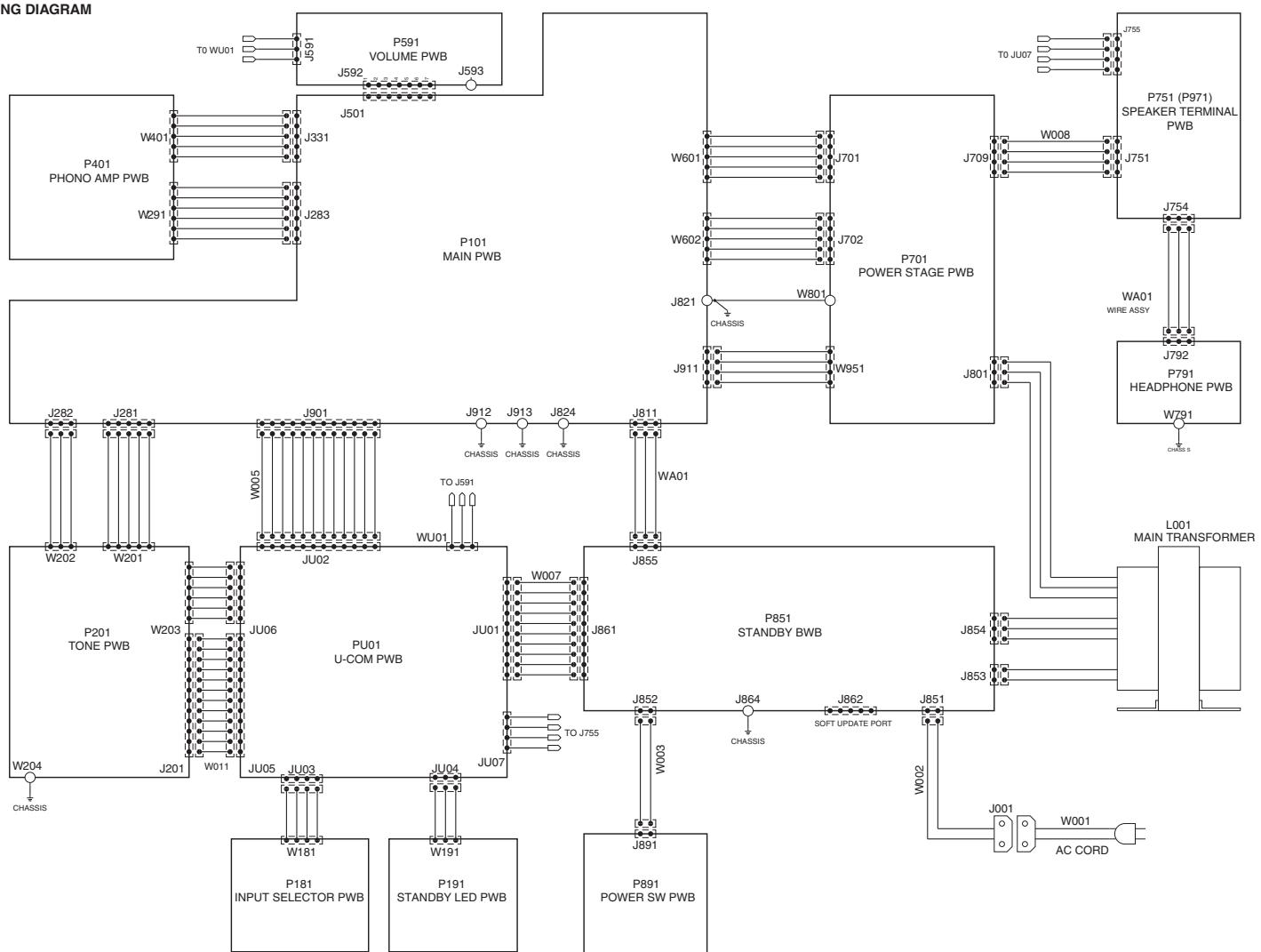
Refer to "**3. SERVICE MODE**" on page 4.

30. 本機の電源スイッチを切りケーブルを外します。

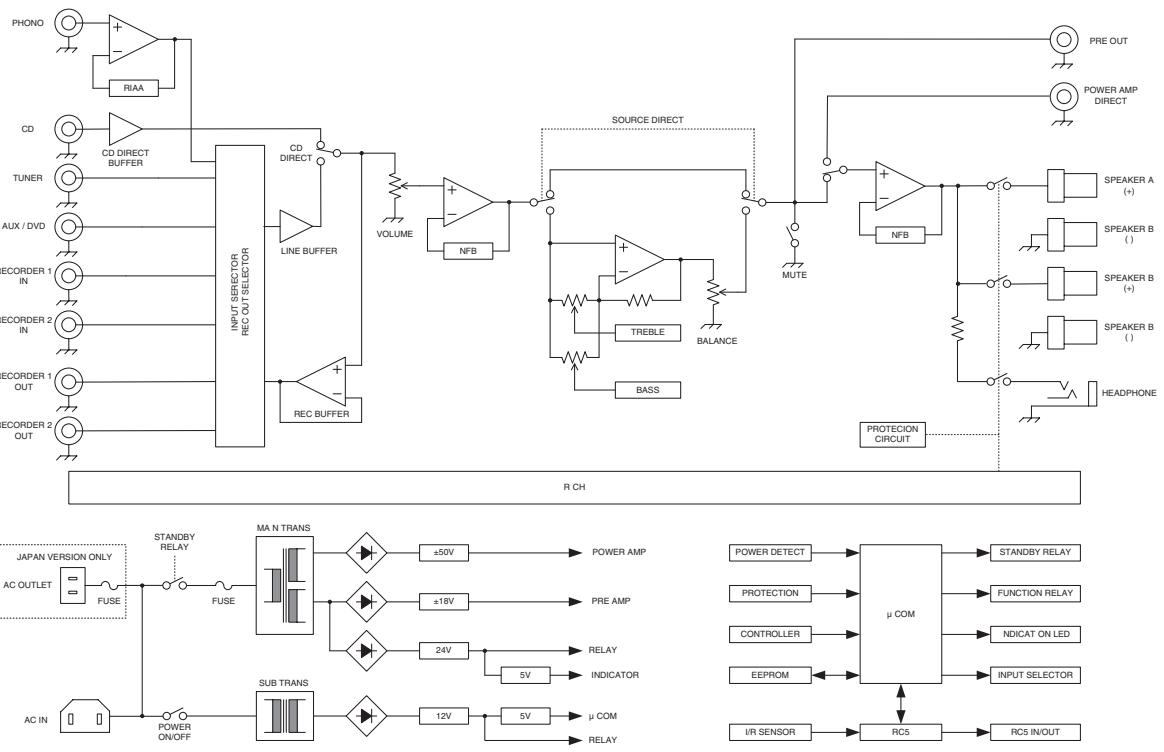
31. SoftwareのVersion確認をしてください。

4ページの"**3. SERVICE MODE**"で確認します。

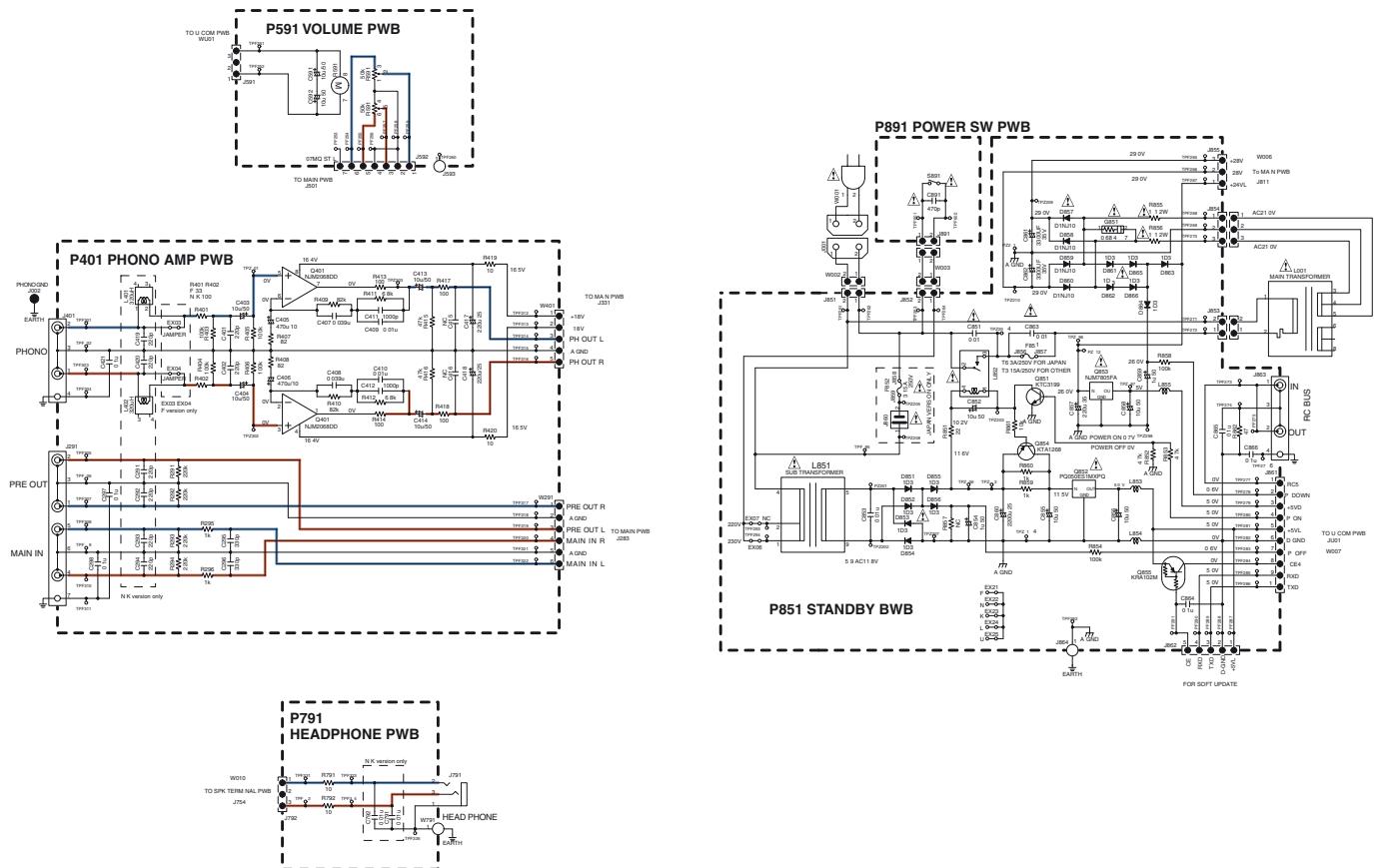
6. WIRING DIAGRAM



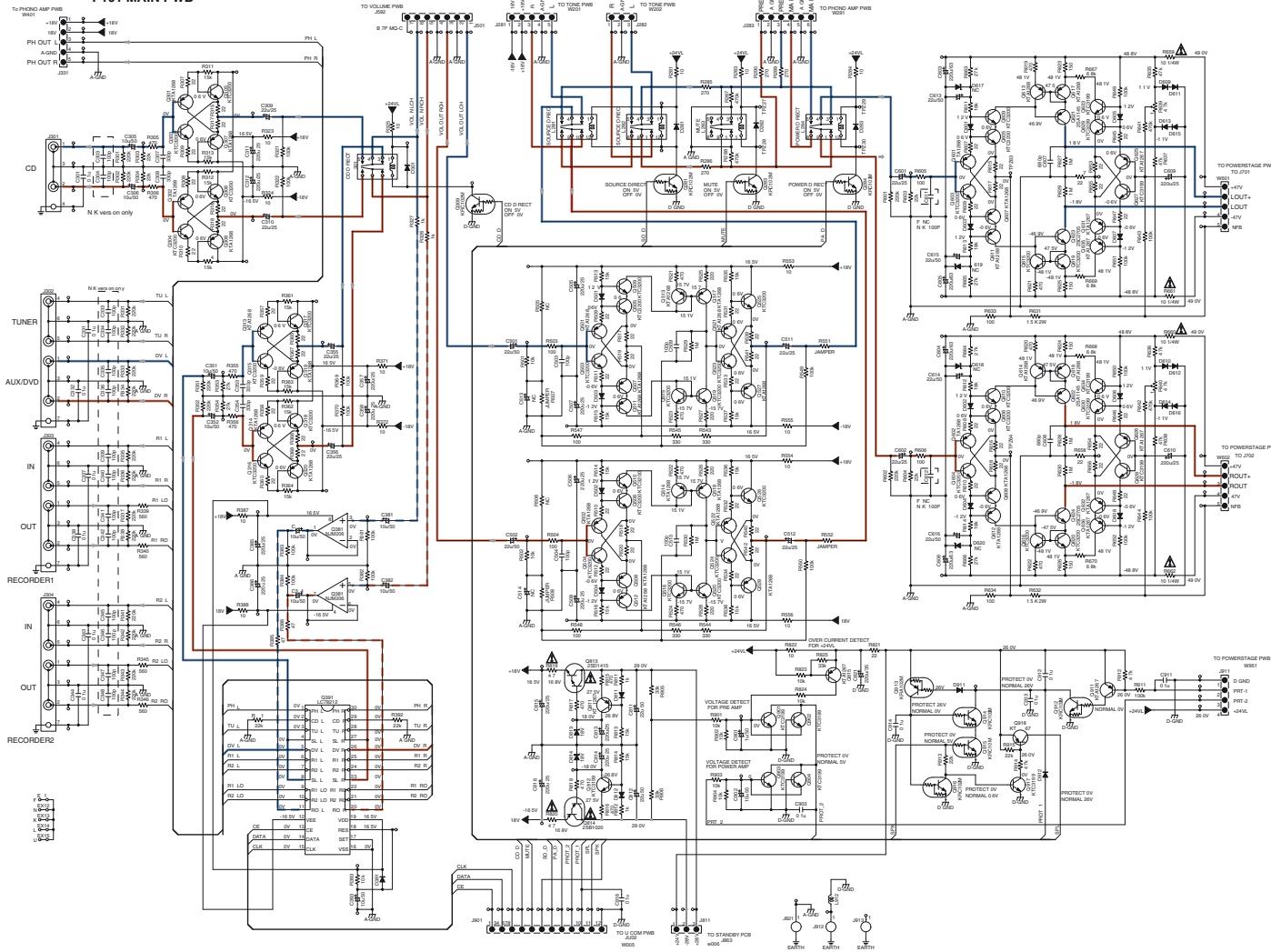
7. BLOCK DIAGRAM

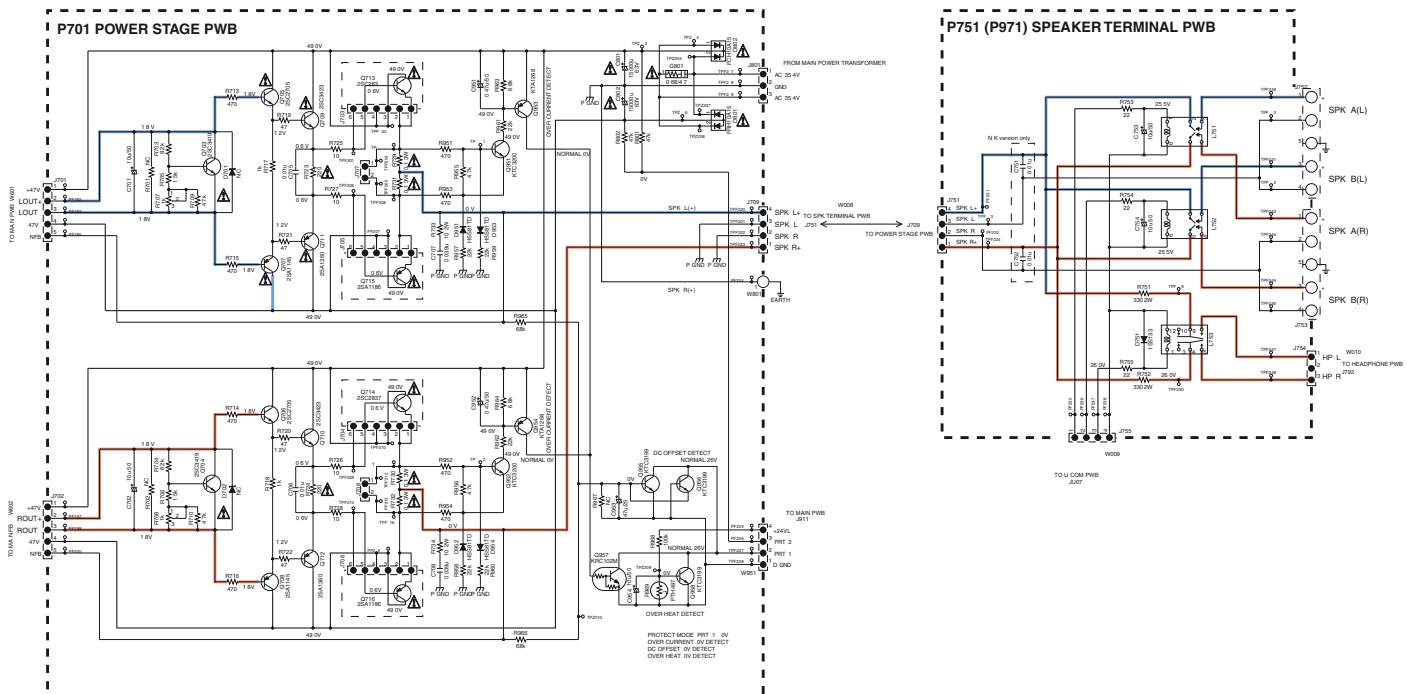


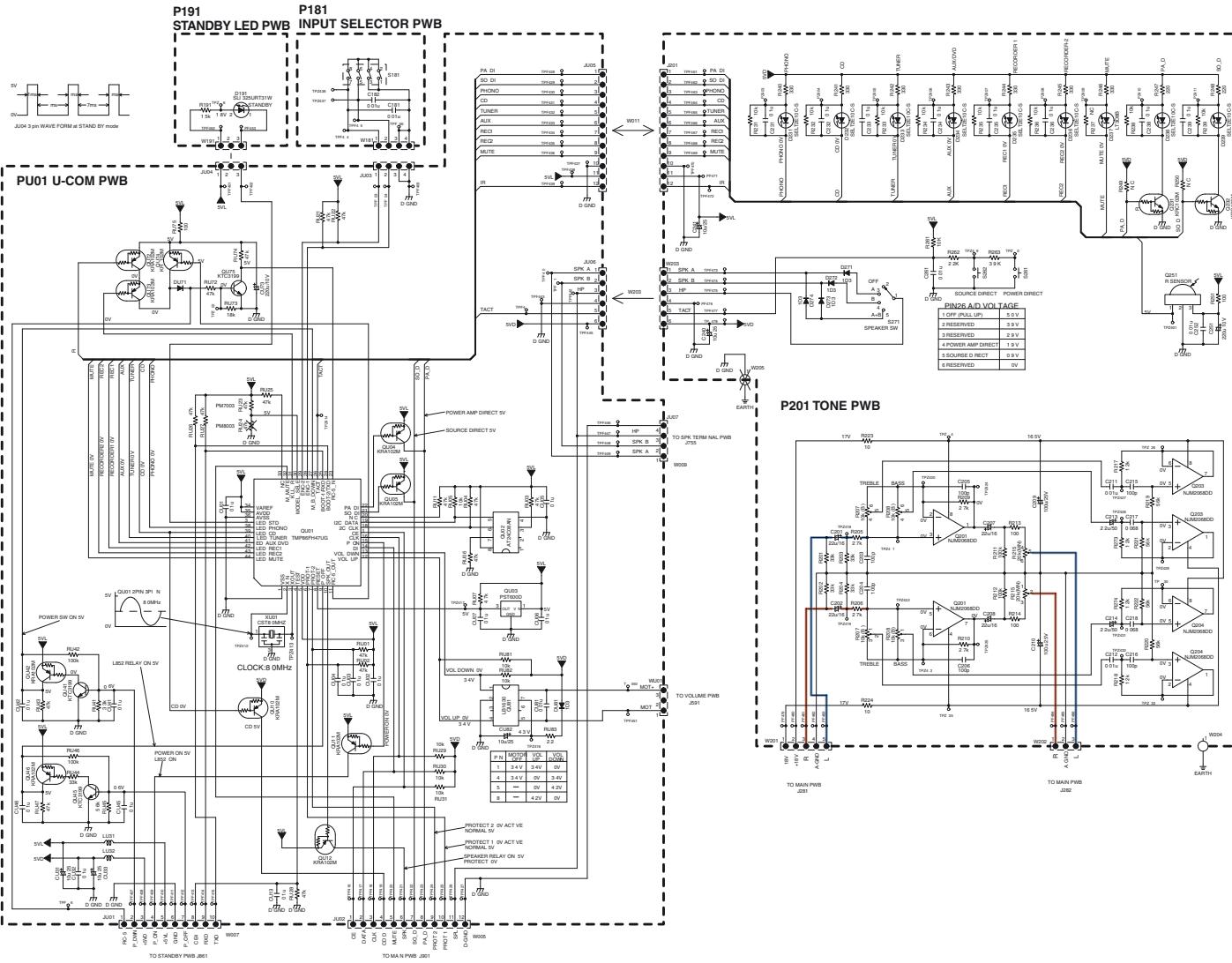
8. SCHEMATIC DIAGRAM



P101 MAIN PWB

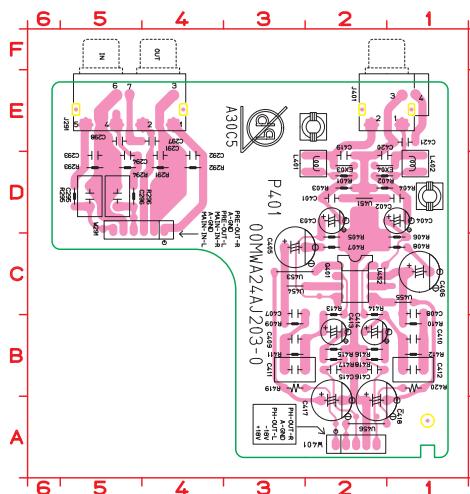






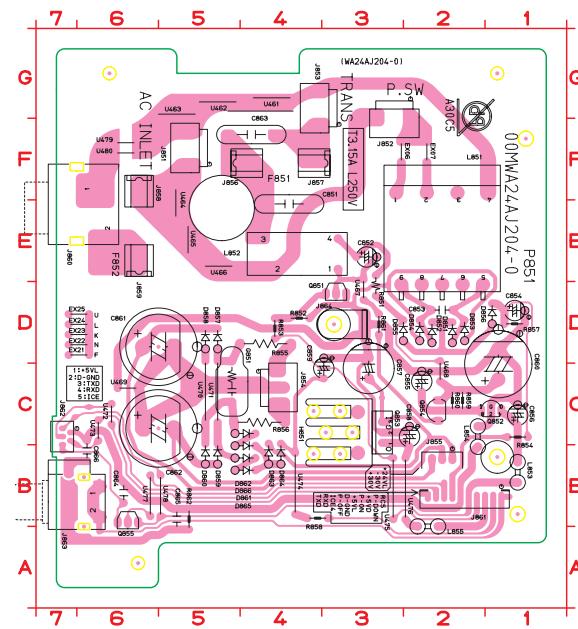
9. PARTS LOCATION

P401 PWB



C291 D4
C292 D4
C293 D5
C294 D5
C295 D5
R401 D2
R402 D1
C296 D2
R403 D2
C297 D2
R404 D2
C298 D2
R405 C2
C401 D1
R406 C1
C407 D1
R407 C1
C408 D2
R408 C1
C409 B3
R410 B1
C411 B1
R412 B1
C413 C2
R414 C2
C415 B2
R416 B2
C417 B2
R417 B2
C418 B2
R418 B2
C419 B3
R419 B3
C420 D1
U455 C1
C421 D1
U456 A2
C422 D2
W291 D4
EX04 D1
J291 E5
J401 E2
L401 D2
C402 D1
G401 C2
R291 D4
R292 D4
R293 D5

P851 B PWB



C851 E4	D852 D2	EX21 D7	J862 C7	R855 D5	U470 C5
C852 E3	D853 D2	EX22 D7	J863 B7	R856 C5	U471 C5
C853 D2	D854 D2	EX23 D7	J864 D3	R857 D1	U472 C6
C854 D1	D855 D3	EX24 D7	L851 E2	R858 B4	U473 C6
C855 C2	D856 D1	EX25 D7	L852 E3	R859 C2	U474 B4
C856 C1	D857 D2	G851 D5	L853 B1	R860 C2	U475 B3
C857 C3	D858 D2	J854 D5	L854 B2	R861 C3	U476 C3
C858 B2	D859 B5	J852 G2	L855 B2	R862 B5	U477 B6
C859 C3	D860 B5	J853 F4	Q851 D3	U461 G4	U478 B5
C860 C1	D861 B5	J854 C4	Q852 C1	U462 G5	U479 F6
C861 D6	D862 C5	J855 B2	Q853 C3	U463 G5	
C862 C6	D863 C5	J856 F5	Q854 C3	U464 E5	
C863 B5	D864 B4	J857 G3	Q855 B6	U465 E5	
C864 B2	D865 B5	J858 F6	R851 D3	U466 E5	
C865 B5	D866 B5	J859 E6	R852 D4	U467 D3	
C866 C6	EX06 F3	J860 E7	R853 D4	U468 C2	
D851 D2	EX07 F2	J861 B1	R854 C1	U469 C6	

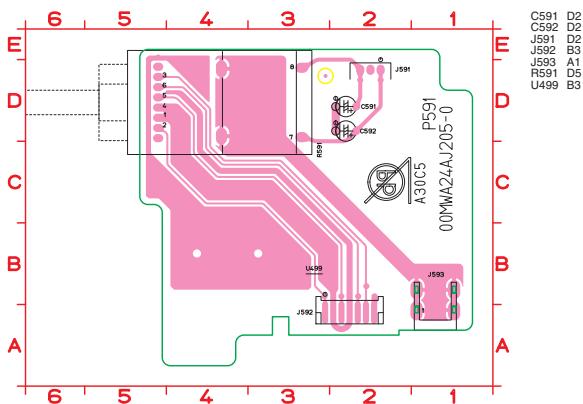
鉛フリー半田

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).

P591 B PWB



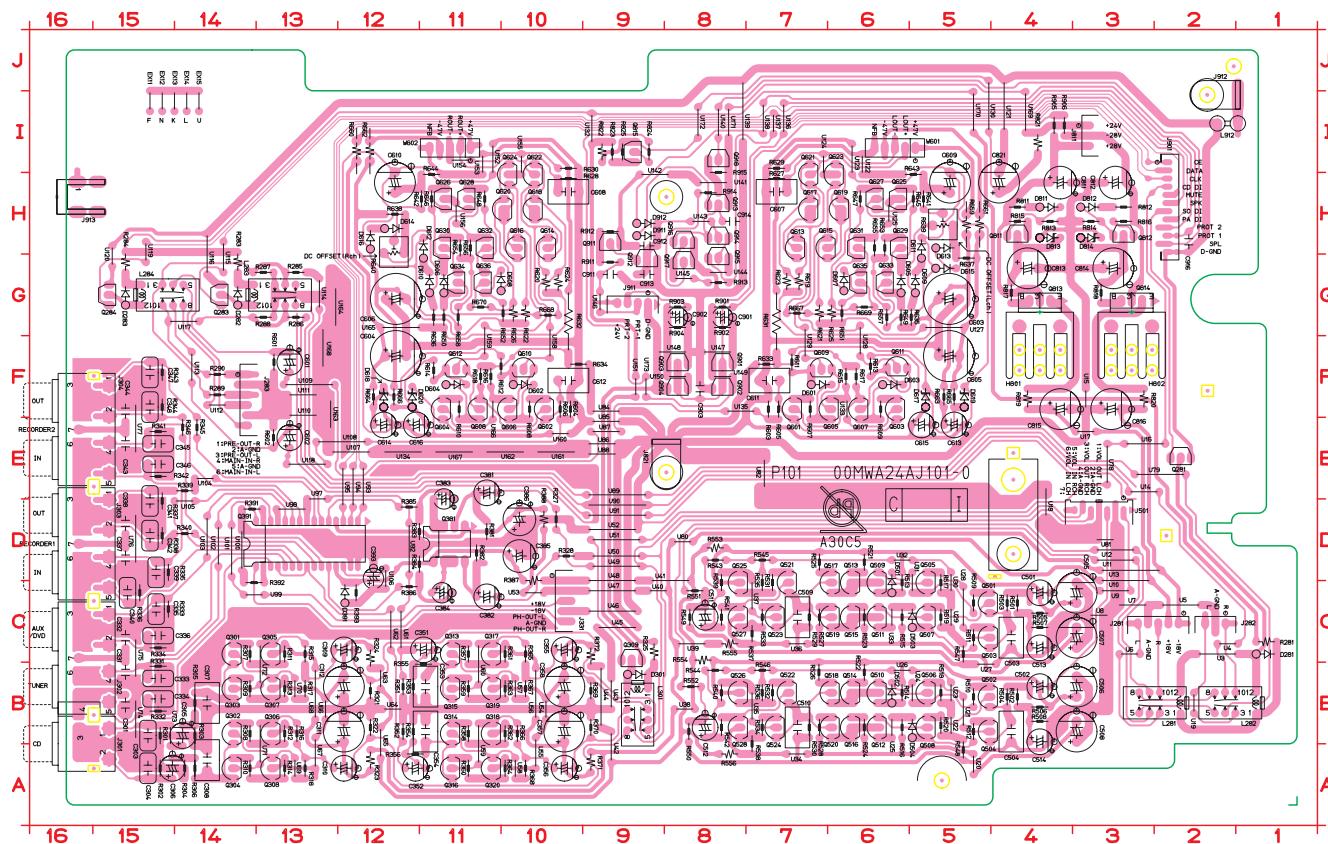
P101 PWB

C001 B15	C003 A15	C011 G9	C019 B11	C017 C11	C015 G8	R388 D10	R624 G10	U109 F13	U31 G5
C003 A15	C011 G9	C019 B11	C017 G8	R391 C12	R625 G6	U111 D3	U32 D5		
C034 A15	C012 H9	C020 A11	C018 I8	R393 C12	R626 G10	U111 F13	U33 C6		
C035 A14	C013 G9	C020 A11	C018 I8	R393 C12	R627 H7	U111 F13	U34 A7		
C036 A15	C014 H8	C081 D11	R283 C14	R502 B4	R628 H10	U112 F14	U35 B7		
C037 B14	C016 H2	C081 D14	R283 C14	R502 B4	R629 I7	U113 F14	U36 C7		
C038 A15	C017 G7	C082 E5	R283 C14	R503 B4	R630 J0	U114 F13	U37 D7		
C039 C13	D282 G14	C082 E5	R283 C14	R504 B4	R631 F7	U115 G14	U38 B8		
C310 A13	D283 G15	C083 G5	R286 G13	R505 C4	R632 F10	U116 G14	U39 C8		
C311 B12	D301 B9	C084 B5	R287 G13	R506 B4	R633 F7	U117 G14	U40 C1		
C312 B12	D301 C12	C085 C5	R288 G14	R507 C4	R634 F9	U118 E13	U41 D8		
C331 C15	D501 C6	C086 B5	R289 F14	R508 B4	R635 G9	U119 G15	U41 D8		
C332 C15	D502 C6	C087 B5	R289 F14	R509 B4	R636 H11	U120 F11	U43 B9		
C333 B15	D503 C5	C088 B5	R301 A15	R510 B5	R637 G5	U120 G15	U43 B9		
C334 B15	D504 B5	C089 C6	R302 A15	R511 C5	R638 H12	U121 I4	U44 B9		
C335 C15	D601 F7	C090 B5	R303 A14	R512 C5	R639 G6	U122 H6	U45 C9		
C336 C15	D602 F10	C091 C5	R304 A14	R513 C6	R640 H12	U122 H6	U46 C9		
C337 F15	D603 B6	C092 B6	R305 B14	R514 B6	R641 G7	U124 H47	U47 C9		
C338 B15	D604 H11	C093 B6	R306 B14	R515 B6	R642 H11	U125 G6	U48 G9		
C339 C15	D605 G6	C094 B6	R307 C14	R516 B6	R643 H6	U127 G5	U49 D9		
C340 C15	D606 G11	C095 C6	R308 B14	R517 C5	R644 H11	U128 F6	U50 C2		
C341 D15	D607 G6	C096 B6	R309 B14	R518 B5	R645 H5	U129 F7	U50 D9		
C342 D15	D608 G11	C097 C6	R310 A14	R519 C5	R646 H11	U130 D5	U51 D9		
C343 D15	D609 G6	C098 B6	R311 A13	R520 C5	R647 H11	U131 F11	U52 C9		
C344 E15	D610 G11	C099 B6	R312 B13	R521 D6	R648 H11	U132 G9	U53 C10		
C345 E15	D611 G5	C099 B6	R313 B13	R522 B6	R649 G6	U133 E6	U54 B10		
C346 E15	D612 H5	C099 B6	R314 A13	R523 C6	R650 G11	U134 E11	U55 A10		
C347 F15	D613 H5	C099 B6	R315 B13	R524 B6	R651 G6	U135 F7	U56 B10		
C348 B15	D614 H12	C099 B6	R316 B13	R525 B6	R652 F10	U137 G7	U57 D9		
C349 C12	D615 H12	C099 B6	R317 B13	R526 B7	R653 G40	U138 G7	U58 A10		
C350 A12	D616 H12	C099 B6	R318 A13	R527 C7	R654 G11	U138 I7	U59 A11		
C351 B11	D617 F5	C099 B6	R319 B12	R528 B7	R655 H6	U139 I8	U60 C3		
C352 B11	D618 F5	C097 C8	R320 B12	R529 C7	R656 H11	U140 E2	U60 B11		
C353 B11	D619 F5	C098 B6	R323 A12	R530 B7	R657 G6	U140 I8	U61 C12		
C354 B10	D620 F12	C099 B6	R324 C12	R531 B7	R658 H11	U141 G11	U62 C2		
C355 B10	D621 H4	C092 F10	R325 C9	R532 B7	R659 H6	U142 H8	U63 B12		
C356 B10	D622 H3	C093 F6	R327 D10	R533 C7	R660 I2	U143 H8	U64 B12		
C381 B11	D613 H4	C094 F11	R328 D10	R534 B7	R661 H5	U144 G8	U65 A12		
C382 C11	D614 H12	C095 F6	R331 B15	R535 C7	R662 I2	U145 F9	U66 B13		
C383 E11	D615 H9	C096 F10	R332 B15	R536 B7	R663 F9	U146 G7	U67 A3		
C384 E11	D616 H9	C097 F6	R333 B15	R537 C7	R664 F2	U147 F9	U68 B13		
C385 D10	D617 F11	C098 F11	R334 C15	R538 A7	R665 F5	U148 F8	U69 A13		
C386 D10	D618 I15	C099 F7	R335 C15	R539 C9	R666 F12	U149 F8	U70 C3		
C393 C12	D619 F10	C099 F10	R336 C15	R540 B8	R667 G7	U150 F8	U70 B13		
C501 C4	E741 C4	C091 F6	R337 D15	R541 C8	R668 G10	U150 F8	U71 A13		
C502 C4	E742 C4	C092 F6	R338 C11	R542 C9	R669 F10	U151 F9	U72 A15		
C503 C4	J301 C2	C093 H7	R339 E19	R543 D8	R670 G1	U152 H11	U73 A15		
C504 B4	J302 C2	C094 H10	R340 D15	R544 B8	R671 H4	U153 H11	U74 B15		
C505 C3	J303 F14	C095 H7	R341 E15	R545 D7	R672 H3	U154 I11	U75 B15		
C507 C3	J304 B16	C096 H10	R342 E15	R546 B7	R673 H4	U155 H10	U76 D15		
C508 C3	J305 B16	C097 H10	R343 F17	R547 B5	R674 H3	U156 H11	U77 E15		
C509 C7	J304 E16	C098 H6	R344 F14	R548 C8	R675 H3	U157 F5	U78 F2		
C510 B7	J331 D10	C099 H6	R345 F14	R549 C8	R676 H3	U158 F3	U79 E2		
C511 C8	J501 D3	C092 H10	R350 B10	R550 B8	R677 G4	U159 F1	U79 E2		
C512 B8	J502 H11	C093 H11	R351 B12	R551 C8	R678 G4	U160 E10	U80 D8		
C513 B8	J503 C2	C094 H10	R352 B12	R552 B8	R679 F4	U161 E10	U81 D3		
C514 B4	J501 I2	C095 H10	R353 B12	R553 B12	R680 F5	U162 G6	U82 E7		
C601 F13	J911 G9	C095 H6	R354 B12	R554 C8	R681 I4	U163 E13	F9		
C602 E13	J912 I2	C096 H11	R355 B12	R555 B12	R682 I9	U164 G13	E95		
C603 G5	J913 H16	C097 H16	R356 A12	R556 A12	R683 I9	U165 G11	U86 E9		
C604 F12	J914 H11	C098 H11	R357 C11	R601 F13	R684 I9	U166 E11	U87 E9		
C605 F12	J915 H11	C099 H6	R358 B11	R602 E13	R685 G6	U167 E11	U88 E9		
C606 G12	L283 G14	C099 H6	R359 B11	R603 F6	R686 G6	U168 G3	U89 D9		
C607 H7	L284 G15	C093 H11	R360 A11	R604 F10	R687 G8	U169 I4	U90 D9		
C608 H5	L301 B9	C094 H11	R361 B10	R605 E7	R690 G8	U170 D3	U91 D9		
C609 H5	L301 B9	C095 H11	R362 B10	R606 E10	R690 G8	U170 I5	U91 D9		
C610 H12	L302 B9	C094 G11	R363 B10	R607 F7	R695 I4	U171 I8	U92 D12		
C611 H12	L303 B9	C095 G14	R364 A10	R608 F7	R696 I4	U172 B8	U93 D2		
C612 F10	L304 G15	C096 G11	R365 B10	R609 F6	R697 I9	U173 F9	U94 D12		
C613 E5	L301 C14	C091 H4	R367 B10	R611 F7	R698 I9	U174 D4	U95 D12		
C614 E12	L302 B14	C092 H3	R368 A10	R612 F11	R699 H8	U175 B3	U96 C13		
C615 E5	L303 B14	C093 G4	R369 B9	R613 F6	R700 I8	U176 B5	W601 I5		
C616 E12	L304 B14	C094 F8	R370 B9	R614 F6	R701 I8	U177 B5	W602 I11		
C617 H4	L305 C13	C095 F8	R371 B9	R615 F6	R700 D14	U178 D5			
C618 H4	L306 B13	C090 F8	R372 C9	R616 F11	R701 D14	U179 D5			
C619 G3	L307 B13	C092 F8	R381 D11	R617 F6	R702 D14	U180 B6			
C620 G3	L308 B13	C093 F8	R382 D11	R618 F11	R703 D14	U181 B6			
C621 F4	L309 C9	C094 F8	R383 D12	R619 G7	R704 E14	U182 B6			
C622 F4	L309 C9	C095 F8	R384 D12	R620 G7	R705 E14	U183 B6			
C623 H4	L310 B11	C096 F8	R385 D12	R621 G7	R706 E12	U184 C1			
C624 H4	L310 B11	C097 G9	R386 C12	R622 G10	R707 E12	U185 C1			
C625 G8	L310 B11	C093 H8	R387 D10	R623 G7	R708 E12	U186 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。

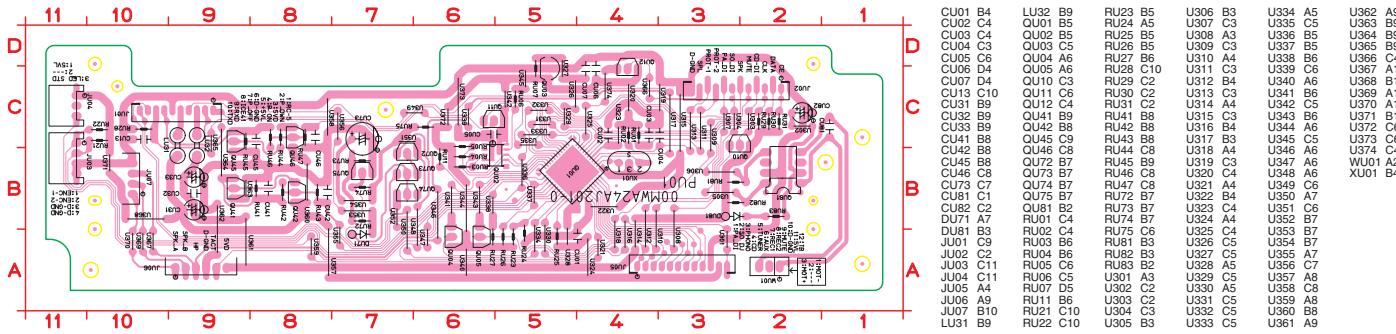
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

P101 B PWB

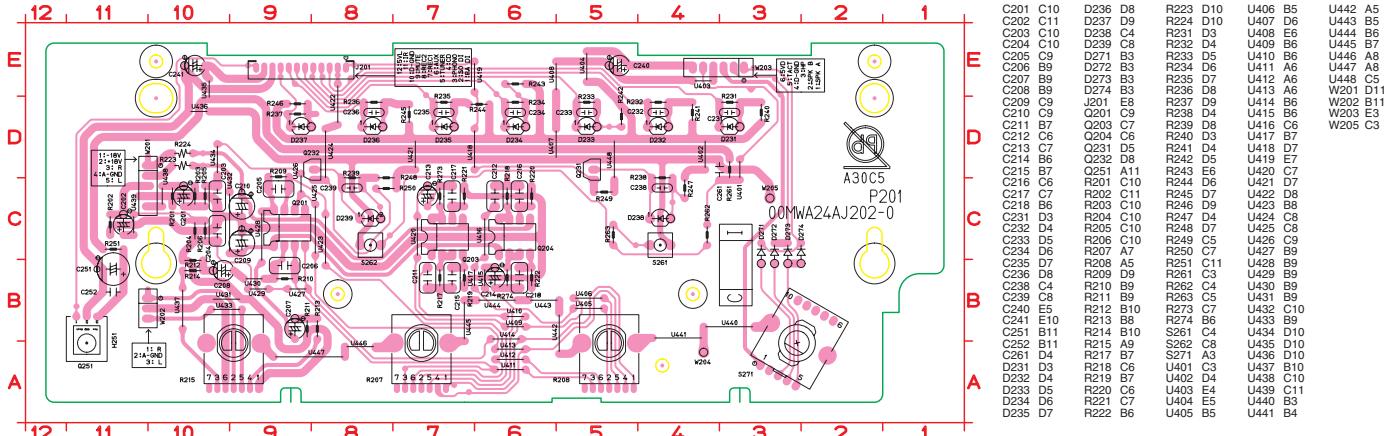


鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PU01 A PWB



P201 A PWB

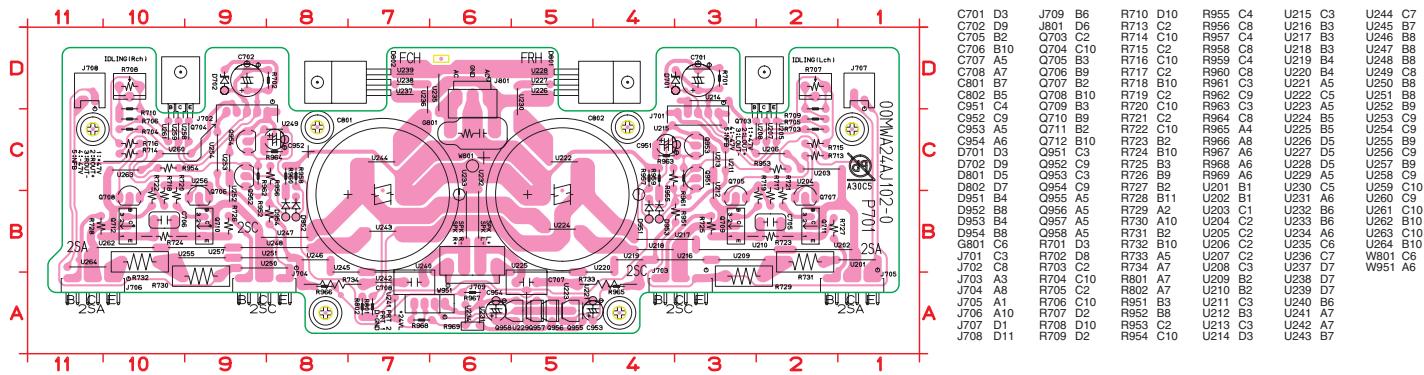
**鉛フリー半田**

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

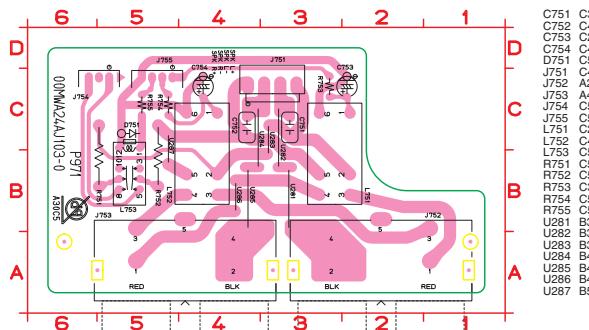
Lead-free Solder

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

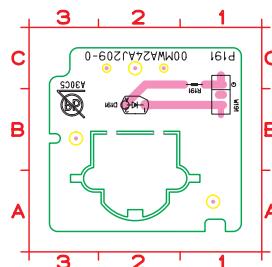
P701 B PWB



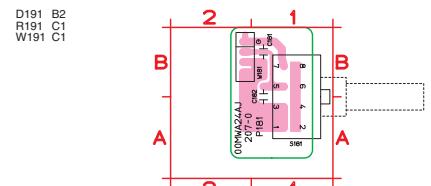
P751 (P971) B PWB



P191 A PWB



P181 B PWB



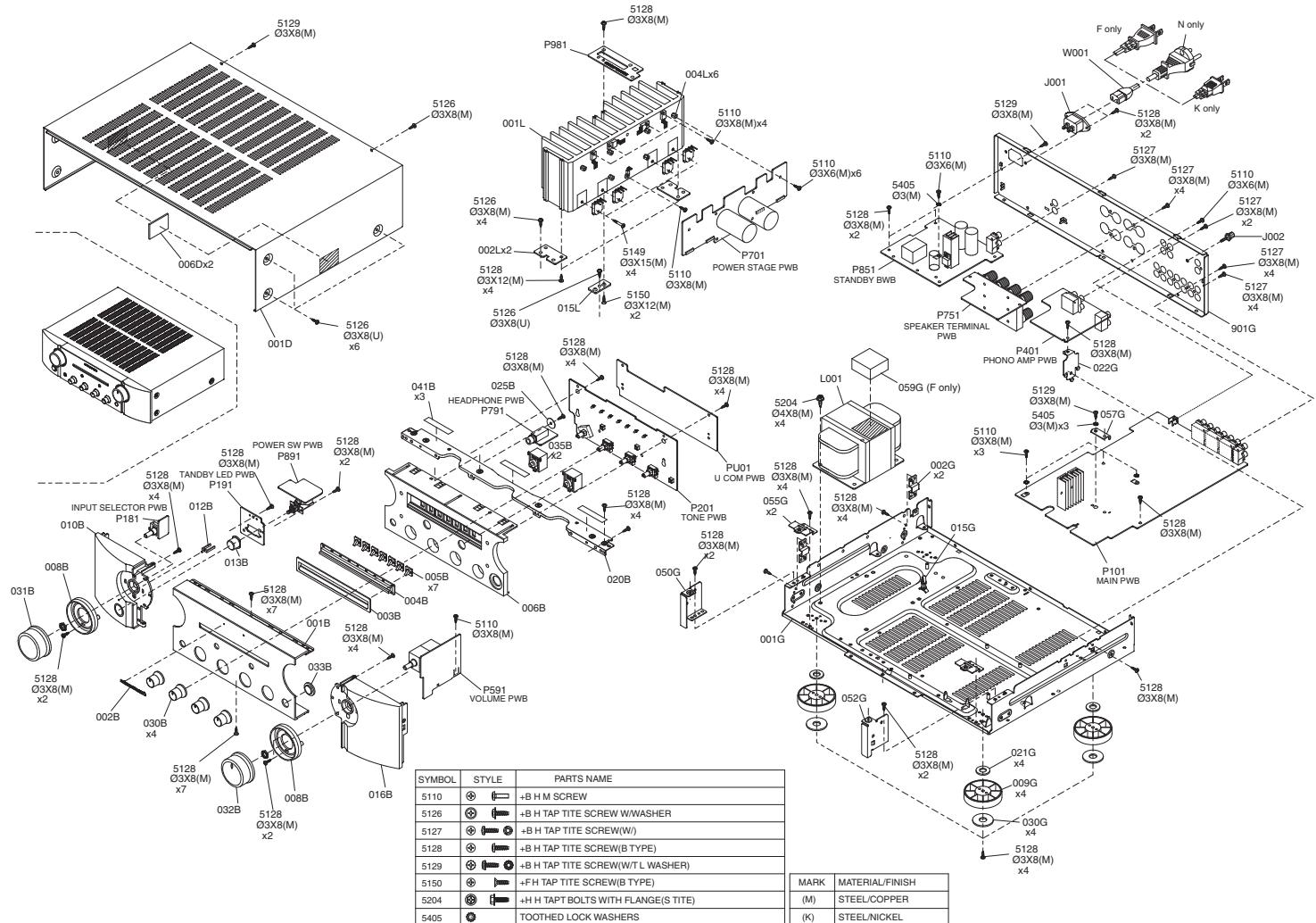
鉛フリー半田

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).

10. EXPLODED VIEW AND PARTS LIST



P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
	001B	F N	nsp	402410028034M	PANEL	FRONT PANEL PM7003 SG
	001B	/K1SG	nsp	402410028034M	PANEL	FRONT PANEL PM7003 SG
	001B	/N1B	402410028003M	402410028003M	PANEL	FRONT PANEL PM7003 BL
	001B	/N1SG	402410028034M	402410028034M	PANEL	FRONT PANEL PM7003 SG
	002B		421410006004M	421410006004M	BADGE	MARANTZ BADGE (AL) M1 MODEL
	003B		422410012002M	422410012002M	ESCRUTCHEON	CENTER ESC. BL/SG
	004B	F N	nsp	422410013036M	ESCRUTCHEON	CENTER ESC.BASE SG
	004B	/K1SG	nsp	422410013036M	ESCRUTCHEON	CENTER ESC.BASE SG
	004B	/N1B	422410013005M	422410013005M	ESCRUTCHEON	CENTER ESC.BASE BL
	004B	/N1SG	422410013036M	422410013036M	ESCRUTCHEON	CENTER ESC.BASE SG
	005B		423410006000M	423410006000M	LENS	LENS FUNCTION
	006B	F N	nsp	443410006035M	CHASSIS	FRONT MOLD CHASSIS SG
	006B	/K1SG	nsp	443410006035M	CHASSIS	FRONT MOLD CHASSIS SG
	006B	/N1B	443410006004M	443410006004M	CHASSIS	FRONT MOLD CHASSIS BL
	006B	/N1SG	443410006035M	443410006035M	CHASSIS	FRONT MOLD CHASSIS SG
	008B	F N	nsp	424510004037M	RING	RING VOLUME SG
	008B	/K1SG	nsp	424510004037M	RING	RING VOLUME SG
	008B	/N1B	424510004006M	424510004006M	RING	RING VOLUME BL
	008B	/N1SG	424510004037M	424510004037M	RING	RING VOLUME SG
	010B	F N	nsp	402410032033M	PANEL	SIDE ESC, L SG
	010B	/K1SG	nsp	402410032033M	PANEL	SIDE ESC, L SG
	010B	/N1B	402410032002M	402410032002M	PANEL	SIDE ESC, L BL
	010B	/N1SG	402410032033M	402410032033M	PANEL	SIDE ESC, L SG
	012B		481510003006M	481510003006M	LENS	LENS POWER LED
	013B	F N	nsp	411510027034M	BUTTON	BUTTON POWER PUSH SG
	013B	/K1SG	nsp	411510027034M	BUTTON	BUTTON POWER PUSH SG
	013B	/N1B	411510027003M	411510027003M	BUTTON	BUTTON POWER PUSH BL
	013B	/N1SG	411510027034M	411510027034M	BUTTON	BUTTON POWER PUSH SG
	016B	F N	nsp	402410034039M	PANEL	SIDE ESC.R SG
	016B	/K1SG	nsp	402410034039M	PANEL	SIDE ESC.R SG
	016B	/N1B	402410034008M	402410034008M	PANEL	SIDE ESC.R BL
	016B	/N1SG	402410034039M	402410034039M	PANEL	SIDE ESC.R SG
	030B	F N	nsp	412510012035M	KNOB	KNOB TONE/REC SELCTOR SG
	030B	/K1SG	nsp	412510012035M	KNOB	KNOB TONE/REC SELCTOR SG
	030B	/N1B	412510012004M	412510012004M	KNOB	KNOB TONE/REC SELCTOR BL
	030B	/N1SG	412510012035M	412510012035M	KNOB	KNOB TONE/REC SELCTOR SG
	031B	F N	nsp	412410006031M	KNOB	KNOB INPUT SELECTOR SG
	031B	/K1SG	nsp	412410006031M	KNOB	KNOB INPUT SELECTOR SG
	031B	/N1B	412410006000M	412410006000M	KNOB	KNOB INPUT SELECTOR BL
	031B	/N1SG	412410006031M	412410006031M	KNOB	KNOB INPUT SELECTOR SG
	032B	F N	nsp	412410008037M	KNOB	KNOB MASTER VOLUME POINTER SG
	032B	/K1SG	nsp	412410008037M	KNOB	KNOB MASTER VOLUME POINTER SG
	032B	/N1B	412410008006M	412410008006M	KNOB	KNOB MASTER VOLUME POINTER BL
	032B	/N1SG	412410008037M	412410008037M	KNOB	KNOB MASTER VOLUME POINTER SG
	033B	F N	nsp	481510004047M	LENS	LENS IR WH
	033B	/K1SG	nsp	481510004047M	LENS	LENS IR WH
	033B	/N1B	481510004009M	481510004009M	LENS	LENS IR BL
	033B	/N1SG	481510004047M	481510004047M	LENS	LENS IR WH
	035B	F N	nsp	411510028037M	BUTTON	BUTTON FUNKTION SG
	035B	/K1SG	nsp	411510028037M	BUTTON	BUTTON FUNKTION SG
	035B	/N1B	411510028006M	411510028006M	B_TT_N	B_TT_N_F_N_TI_N_BL
	035B	/N1SG	411510028037M	411510028037M	BUTTON	BUTTON FUNKTION SG
	009G		00M14AJ057210	00M14AJ057210	LEG	LEGS SL
	021G		00M227J056010	00M227J056010	BUFFER	LEG PEFU SHEET
	030G		00M14AJ056110	00M14AJ056110	BUFFER	LEGS CUSHION
▲J001			00MYJ04002640	00MYJ04002640	JACK	I R-301(21) AC INLET MAXES CABLE CO.LTD
J002			00MYL03010330	00MYL03010330	TERMINAL	GND TERMINAL
▲L001	F N	nsp	101010023002M	TRANSF.	# POWER TRANSFORMER FOR 100V	
▲L001	/K1SG	nsp	1013100010098	TRANSF.	# POWER TRANSFORMER FOR 230V	
▲L001	/N1B	1013100010098	1013100010098	TRANSF.	# POWER TRANSFORMER FOR 230V	
▲L001	/N1SG	1013100010098	1013100010098	TRANSF.	# POWER TRANSFORMER FOR 230V	
P101		nsp	nsp	PWB ASSY	MAIN PWB (P101) FOR F	
P104		nsp	nsp	PWB ASSY	WIRE PROTECTION PWB	
P181		nsp	nsp	PWB ASSY	INPUT SEL PWB (P181) FOR N F	
P191		nsp	nsp	PWB ASSY	STANDBY LED PWB (P191) FOR N F	
P201		nsp	nsp	PWB ASSY	TONE PWB (P201) FOR N F	
P401		nsp	nsp	PWB ASSY	PHONO EQ AMP PWB (P401) FOR F	

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
	P591		nsp	nsp	PWB ASSY	VOLUME PWB (P591) FOR N F
	P701		nsp	nsp	PWB ASSY	POWER STAGE PWB (P701) FOR N F
	P751		nsp	nsp	PWB ASSY	SPK TERMINAL PWB(P751)FOR F
	P791		nsp	nsp	PWB ASSY	HEAD PHONE PWB (P791) FOR F
	P851		nsp	nsp	PWB ASSY	STANDBY PWB (P851) FOR F
	P891		nsp	nsp	PWB ASSY	POWER SW PWB (P891) FOR N F
	P981		nsp	nsp	PWB ASSY	CLAMP PWB (P981) FOR N F
	PU01		nsp	nsp	PWB ASSY	U-COM PWB (PU01) FOR N F
PACKING						
	001T	F N	nsp	541110081018M	USER GUIDE	USER GUIDE PM7003/PM8003(F)
	001T	/K1SG	nsp	541110081056M	USER GUIDE	USER GUIDE PM7003(K)
	001T	/N1B	541110081032M	541110081032M	USER GUIDE	USER GUIDE PM7003/PM8003(N)
	001T	/N1SG	541110081032M	541110081032M	USER GUIDE	USER GUIDE PM7003/PM8003(N)
▲W001	, „	nsp	00D2062223001	MAINS CORD	# MAINS CORD 2P FOR 12A 125V	
▲W001	/K1SG	nsp	00MZC01808030	MAINS CORD	# MAINS CORD CCEE 2.5A 250V (CHAUS)	
▲W001	/N1B	0110500020010	0110500020010	MAINS CORD	# 970304/1 EUROPEAN MAINS CODESET	
▲W001	/N1SG	0110500020010	0110500020010	MAINS CORD	# 970304/1 EUROPEAN MAINS CODESET	
Z001		307010030006M	307010030006M	UNIT KIT	REMOTE CONTROLLER RC003PM	
NOT STANDARD SPARE PART						
	001S		nsp	531210028002M	PACKING CASE	PACKING CASE PM7003
	002S		nsp	533610017004M	CUSHION	CUSHION L/R
	001D	F N	nsp	00M14AJ257310	LID	TOP COVER SG
	001D	/K1SG	nsp	00M14AJ257310	LID	TOP COVER SG
	001D	/N1B	nsp	00M14AJ257320	LID	TOP COVER BL
	001D	/N1SG	nsp	00M14AJ257310	LID	TOP COVER SG

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

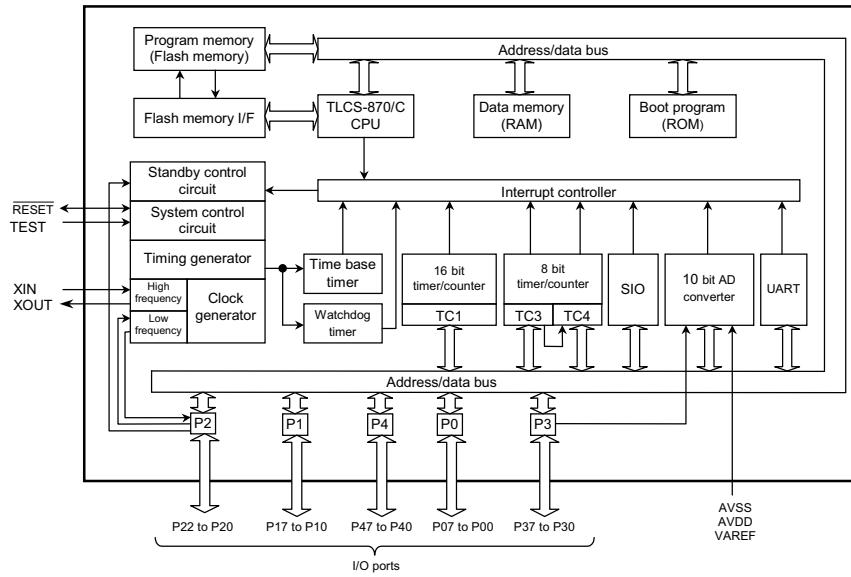
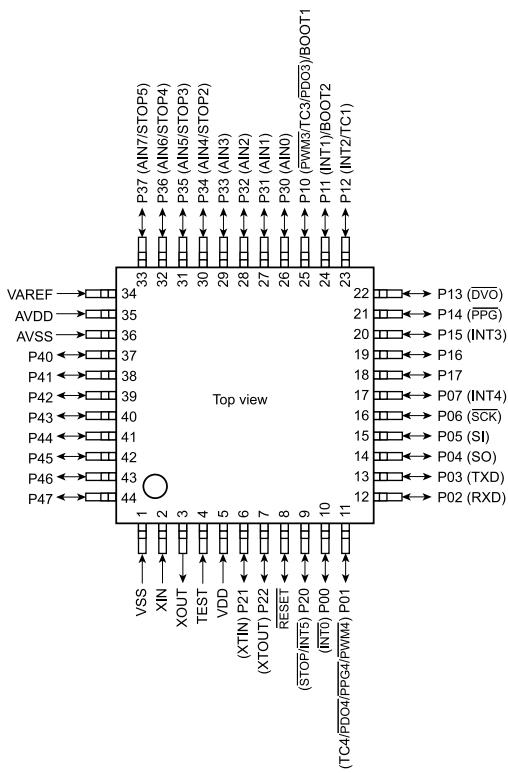
11. MICROPROCESSOR AND IC DATA

QU01 : TMP86FH47UG

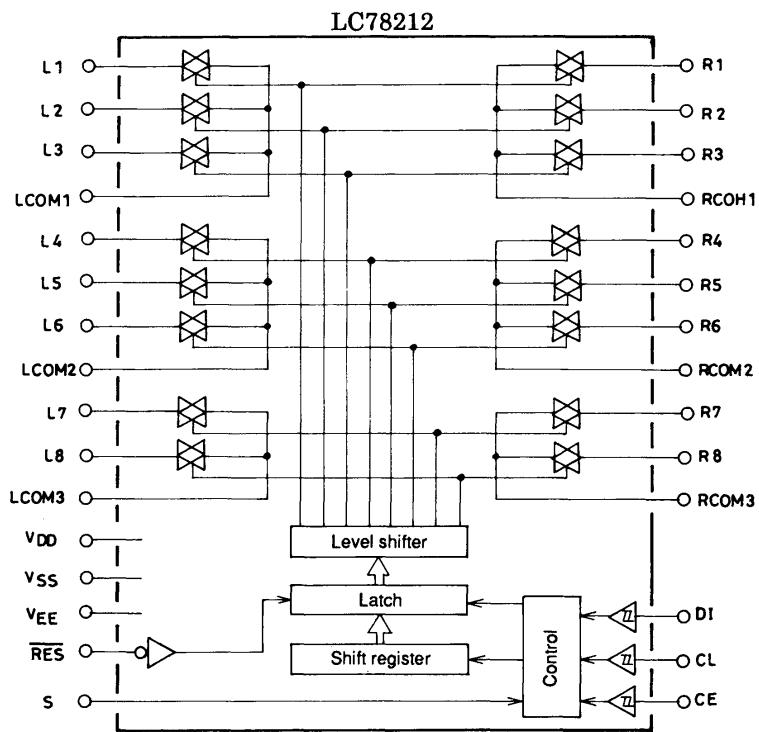
Pin No.	Port name	I/O	use	Port Setting				Note
				Name	Act.	Init	STBY	
1	VSS	-	-	VSS	-	-	-	0 V
2	XIN	I	I	XIN	-	-	-	8M Clock in
3	XOUT	O	O	XOUT	-	-	-	8M Clock out
4	TEST	I	I	TEST	H	L	L	L->H : PROM Mode
5	VDD	-	-	VDD	-	-	-	u-com power supply
6	P21 (XTIN)	I/O	I	PROTECT_1	L	H	H	DC Vol/Over Current
7	P22 (XTOUT)	I/O	I	PROTECT_2	L	H	H	Vol. Abnormal Detect
8	RESET	I/O	I	RESET	L	-	H	u-com Reset connector
9	P20 (STOP/INT5)	I/O	I	P_OFF	L	H	L	Detect Power Down(primary power supply ON/OFF detection)
10	P00 (INT0)	I/O	O	SPK	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	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	-	H	H	I2C (EEPROM) (Pull up)
19	P16	I/O	I/O	IIC_DATA	-	H	H	I2C (EEPROM) (Pull up)
20	P15 (INT3)	I/O	I	NC.	-	-	-	-
21	P14 (PPG)	I/O	O	SO_DI	L	H	H	Source Direct Relay
22	P13 (DVO)	I/O	O	PA_DI	L	H	H	Power Amp Direct Relay
23	P12 (INT2/TC1)	I/O	I	RC-5_IN	L	H	H	RC-5 Input
24	P11 (INT1)(BOOT2)	I/O	I/O	Boot2/TXD	-	-	-	Pull Up
25	P10 (PWM3/TC3/PD03) (BOOT1)	I/O	I/O	Boot1/RXD	-	-	-	Pull Up
26	P30 (AIN0)	I/O	I	TACT	-	-	-	Tact sw A/D
27	P31 (AIN1)	I/O	I	M_B_DOWN	L	H	H	Amp power supply OFF
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	NC.	-	-	-	-
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 / warning, and SPK OFF
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

The contents of Port Setting (Act. : ACTIVE, Stand : STANDBY, Back : BACKUP)

QU01 : TMP86FH47UG



Q391 : LC78212



LAPT 2SC2837

Silicon NPN Epitaxial Planar Transistor (Complement to type 2SA1186)

Application : Audio and General Purpose

Absolute maximum ratings (Ta=25°C)

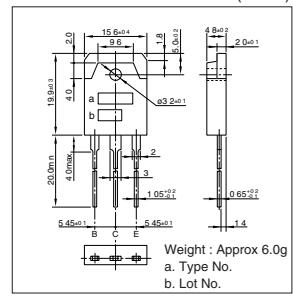
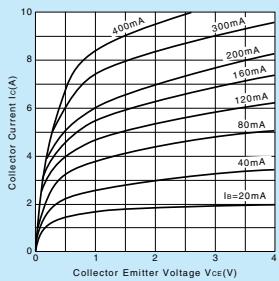
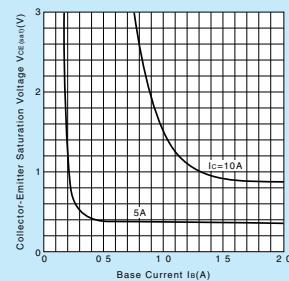
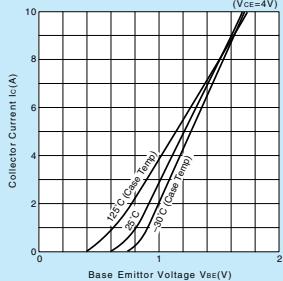
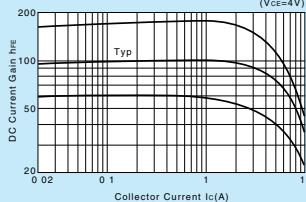
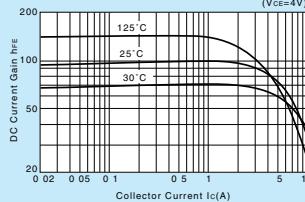
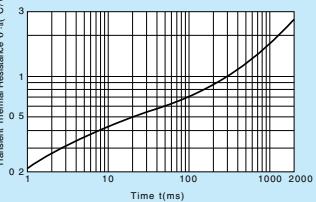
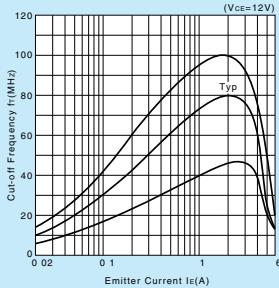
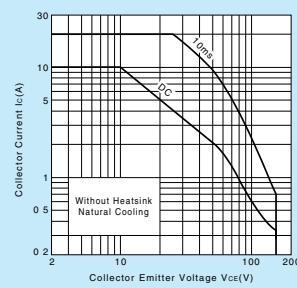
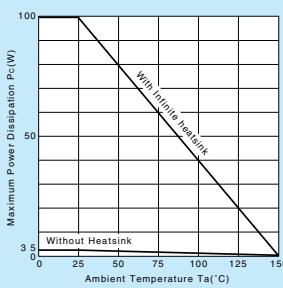
Symbol	2SC2837	Unit
V _{CBO}	150	V
V _{CEO}	150	V
V _{EBO}	5	V
I _c	10	A
I _b	2	A
P _c	100(T _c =25°C)	W
T _j	150	°C
T _{tg}	-55 to +150	°C

Electrical Characteristics (Ta=25°C)

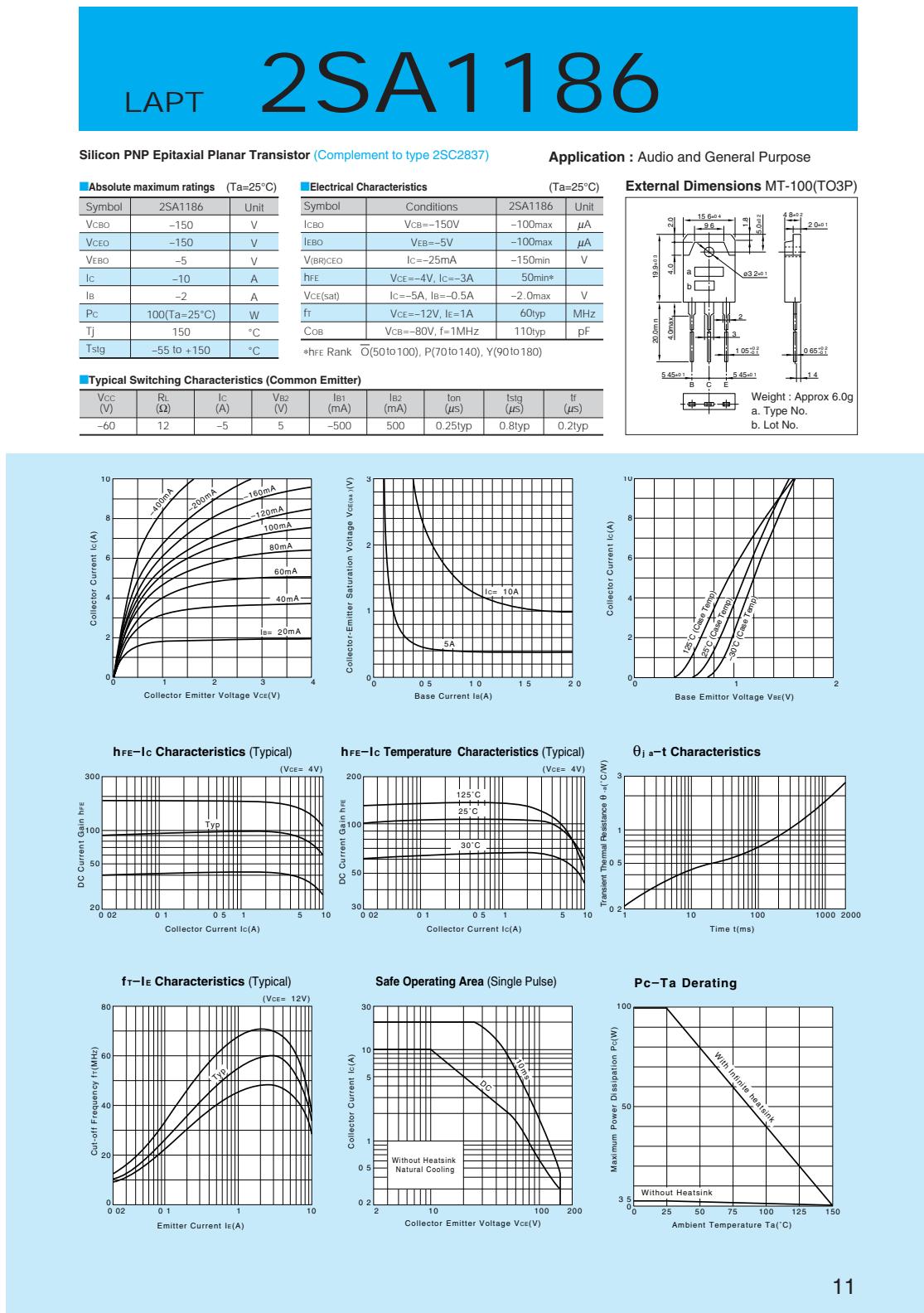
Symbol	Conditions	2SC2837	Unit
I _{cBO}	V _{CB} =150V	100max	μA
I _{eBO}	V _{EB} =5V	100max	μA
V _{(BR)CEO}	I _c =25mA	150min	V
h _{FE}	V _{CE} =4V, I _c =3V	50min*	
V _{cE(sat)}	I _c =5A, I _b =0.5A	2.0max	V
f _r	V _{CE} =12V, I _b =1A	70typ	MHz
C _{OB}	V _{CB} =80V, f=1MHz	60typ	pF

*h_{FE} Rank O(50 to 100), P(70 to 140), Y(90 to 180)**Typical Switching Characteristics (Common Emitter)**

V _{CC} (V)	R _L (Ω)	I _c (A)	V _{B2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{tg} (μs)	t _f (μs)
60	12	5	-5	500	-500	0.2typ	1.4typ	0.35typ

External Dimensions MT-100(TO3P)**I_c-V_{CE} Characteristics (Typical)****V_{ce(sat)}-I_b Characteristics (Typical)****Ic-V_{BE} Temperature Characteristics (Typical)****h_{FE}-I_c Characteristics (Typical)****h_{FE}-I_c Temperature Characteristics (Typical)****θ_{ja-t} Characteristics****f_r-I_e Characteristics (Typical)****Safe Operating Area (Single Pulse)****P_c-Ta Derating**

Q715/Q716 : 2SA1186Y



12. ELECTRICAL PARTS LIST

PARTS INFORMATION

RESISTORS

- 1) 00MGD05 $\times \times \times 140$, Carbon film fixed resistor, $\pm 5\%$ 1/4W
 2) 00MGD05 $\times \times \times 160$, Carbon film fixed resistor, $\pm 5\%$ 1/6W
 ① Resistance value

Examples :

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

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

CAPACITORS

CERAMIC CAP.

- 3) 00MDD1 $\times \times \times 370$, Ceramic capacitor
 ② ③ Disc type
 Capacity value
 Tolerance

Examples :

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

* Tolerance of COMMON PARTS handled here are as follows :

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

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

CERAMIC CAP.

- 4) 00MDK16 $\times \times \times 300$, High dielectric constant ceramic capacitor
 ④ Disc type
 Capacity value

Examples :

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

ELECTROLY CAP. ($\frac{1}{2}$)

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

Examples :

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

FILM CAP. ($\frac{1}{2}$)

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

Examples :

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

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

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

1. KOA Corporation	Type No. (KOA)	Description
Part No. (MJI)	00MNH05 $\times \times \times 140$ → RF25S $\times \times \times \times \Omega J$	(±5% 1/4W)
	00MNH05 $\times \times \times 120$ → RF50S $\times \times \times \times \Omega J$	(±5% 1/2W)
	00MNH85 $\times \times \times 110$ → RF73B2A $\times \times \times \times \Omega J$	(±5% 1/10W)
	00MNH95 $\times \times \times 140$ → RF73B2E $\times \times \times \times \Omega J$	(±5% 1/4W)

① → Resistance value ② → Resistance value
 (0.1 10kΩ)

2. Matsushita Electronic Components Co., Ltd

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

① → Resistance value ② → Resistance value

Examples :

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
					MAIN PWB P101 (00MWA24AJ101-)	
P101	C303	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C303	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C303	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C304	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C304	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C304	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C305		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C306		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C307		1330100075020	1330100075020	FILM CAP.	APSV 0100 J 331 0000 0200
P101	C308		1330100075020	1330100075020	FILM CAP.	APSV 0100 J 331 0000 0200
P101	C309		1340100425080	1340100425080	ELECT. CAP.	RA2-25V220ME3#8-T2
P101	C310		1340100425080	1340100425080	ELECT. CAP.	RA2-25V220ME3#8-T2
P101	C311		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C312		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C333	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C333	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C333	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C334	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C334	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C334	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C335	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C335	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C335	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C336	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C336	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C336	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C339	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C339	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C339	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C340	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C340	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C340	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C341	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C341	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C341	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C342	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C342	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C342	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C345	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C345	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C345	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C346	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C346	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C346	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C347	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C347	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C347	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C348	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C348	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C348	N1	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C351		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C352		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C353		1330100075020	1330100075020	FILM CAP.	APSV 0100 J 331 0000 0200
P101	C354		1330100075020	1330100075020	FILM CAP.	APSV 0100 J 331 0000 0200
P101	C355		1340100425080	1340100425080	ELECT. CAP.	RA2-25V220ME3#8-T2
P101	C356		1340100425080	1340100425080	ELECT. CAP.	RA2-25V220ME3#8-T2
P101	C357		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C358		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C381		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C382		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C383		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C384		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C385		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C386		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C393		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	C501		1340100715060	1340100715060	ELECT. CAP.	RA2-50V220ME3#8-T2

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	C502		1340100715060	1340100715060	ELECT. CAP.	RA2-50V220ME3#8-T2
P101	C503		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C504		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C505		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C506		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C507		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C508		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C509		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C510		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C511		1340500044050	1340500044050	ELECT. CAP.	22 UF M 25V ARS-TYPE ELNA
P101	C512		1340500044050	1340500044050	ELECT. CAP.	22 UF M 25V ARS-TYPE ELNA
P101	C601		1340500044050	1340500044050	ELECT. CAP.	22 UF M 25V ARS-TYPE ELNA
P101	C602		1340500044050	1340500044050	ELECT. CAP.	22 UF M 25V ARS-TYPE ELNA
P101	C603		1340100865080	1340100865080	ELECT. CAP.	RA2-63V221MH5#8-S1
P101	C604		1340100865080	1340100865080	ELECT. CAP.	RA2-63V221MH5#8-S1
P101	C605		1340100865080	1340100865080	ELECT. CAP.	RA2-63V221MH5#8-S1
P101	C606		1340100865080	1340100865080	ELECT. CAP.	RA2-63V221MH5#8-S1
P101	C607		1330100504070	1330100504070	FILM CAP.	FNS(135)-100VDC-681J
P101	C608		1330100504070	1330100504070	FILM CAP.	FNS(135)-100VDC-681J
P101	C609		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C610		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C611	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C611	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C611	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C612	/K1SG	nsp	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C612	/N1B	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C612	/N1SG	1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P101	C613		1340100715060	1340100715060	ELECT. CAP.	RA2-50V220ME3#8-T2
P101	C614		1340100715060	1340100715060	ELECT. CAP.	RA2-50V220ME3#8-T2
P101	C615		1340100715060	1340100715060	ELECT. CAP.	RA2-50V220ME3#8-T2
P101	C616		1340100715060	1340100715060	ELECT. CAP.	RA2-50V220ME3#8-T2
P101	C811		1340100715060	1340100715060	ELECT. CAP.	RA2-50V220ME3#8-T2
P101	C812		1340100715060	1340100715060	ELECT. CAP.	RA2-50V220ME3#8-T2
P101	C813		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C814		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C815		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C816		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P101	C821		1340100595060	1340100595060	ELECT. CAP.	RA2-35V221MH3#8-T2
P101	C901		1340100665040	1340100665040	ELECT. CAP.	RA2-50V010ME3E#8-T2
P101	C902		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P101	D281		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D282		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D283		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D301		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D391		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	D601		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D602		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D603		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D604		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D605		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D606		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D607		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D608		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D609		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D610		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D611		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D612		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D613		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D614		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D615		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D616		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D811		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D812		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	D813		nsp	00D2760645910	DIODE	MTZJ20A T77
P101	D814		nsp	00D2760645910	DIODE	MTZJ20A T77
P101	D911		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	D912		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P101	J301		643810029001S	643810029001S	TERMINAL	CINCH JACK 2P AU MSP-242V3-12 GILT LF
P101	J302		643810025009S	643810025009S	TERMINAL	CINCH JACK 4P NI MSP-244V4-02 NI LF
P101	J303		643810025009S	643810025009S	TERMINAL	CINCH JACK 4P NI MSP-244V4-02 NI LF
P101	J304		643810025009S	643810025009S	TERMINAL	CINCH JACK 4P NI MSP-244V4-02 NI LF
P101	L281		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L282		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L283		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L284		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L301		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L912		1190100014090	1190100014090	FERRITE BEAD	BL02RN2R1N1~ FERRITE BEAD
P101	Q281		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q283		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q284		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q301		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q302		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q303		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q304		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q305		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q306		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q307		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q308		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q309		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
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	Q381		00D2630609002	00D2630609002	IC	NJM2068DDC +T
P101	Q391		2340100017040	2340100017040	IC	LC78212
P101	Q501		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q502		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q503		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q504		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q505		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q506		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q507		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q508		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q509		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q510		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q511		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q512		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q513		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q514		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q515		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q516		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q517		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q518		2110500020090	2110500020090	TRS.	KTA1268 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	Q523		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q524		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q525		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q526		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q527		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q528		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q601		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q602		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q603		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	Q604		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q605		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q606		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q607		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q608		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q609		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q610		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q611		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q612		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q613		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q614		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q615		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q616		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q617		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q618		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P101	Q619		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q620		2130500020050	2130500020050	TRS.	KTC3200 RANK=GR
P101	Q621		00D2710168900	00D2710168900	TRS.	2SA1145 (O)/(Y)TPE6
P101	Q622		00D2710168900	00D2710168900	TRS.	2SA1145 (O)/(Y)TPE6
P101	Q623		00D2730281906	00D2730281906	TRS.	2SC2705 (O)/(Y)TPE6
P101	Q624		00D2730281906	00D2730281906	TRS.	2SC2705 (O)/(Y)TPE6
P101	Q625		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q626		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q627		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q628		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q629		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q630		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q631		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q632		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q633		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q634		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q635		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q636		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q811		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q812		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	▲Q813		2140500010050	2140500010050	TRS.	! 2SD1415A
P101	▲Q814		2120500010090	2120500010090	TRS.	! 2SB1020A
P101	Q815		2110500010060	2110500010060	TRS.	KTA1267 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	Q911		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	Q912		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q913		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
P101	Q914		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q915		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q916		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q917		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P101	Q918		2110500010060	2110500010060	TRS.	KTA1267 RANK=Y
P101	▲R281		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	▲R283		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	▲R284		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	R285	nsp	00D2412397927	00D2412397927	RES.	RD14B2E271JT(5)
P101	R286	nsp	00D2412397927	00D2412397927	RES.	RD14B2E271JT(5)
P101	R287	nsp	00D2412404991	00D2412404991	RES.	RD14B2E474JT(5)
P101	R288	nsp	00D2412404991	00D2412404991	RES.	RD14B2E474JT(5)
P101	R289	nsp	00D2412397927	00D2412397927	RES.	RD14B2E271JT(5)
P101	R290	nsp	00D2412397927	00D2412397927	RES.	RD14B2E271JT(5)
P101	R301	nsp	00D2412404917	00D2412404917	RES.	RD14B2E224JT(5)
P101	R302	nsp	00D2412404917	00D2412404917	RES.	RD14B2E224JT(5)
P101	R303	nsp	00D2412401978	00D2412401978	RES.	RD14B2E223JT(5)
P101	R304	nsp	00D2412401978	00D2412401978	RES.	RD14B2E223JT(5)
P101	R305	nsp	00D2412397972	00D2412397972	RES.	RD14B2E471JT(5)
P101	R306	nsp	00D2412397972	00D2412397972	RES.	RD14B2E471JT(5)
P101	R307	nsp	00D2412394962	00D2412394962	RES.	RD14B2E220JT(5)
P101	R308	nsp	00D2412394962	00D2412394962	RES.	RD14B2E220JT(5)

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	R309		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R310		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R311		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R312		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R313		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R314		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R315		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R316		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R317		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R318		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R321		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R322		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	▲R323		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	▲R324		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	▲R325		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	R327		nsp	00D2412398955	RES.	RD14B2E102JT(5)
P101	R328		nsp	00D2412398955	RES.	RD14B2E102JT(5)
P101	R331		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R332		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R333		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R334		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R335		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R336		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R337		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R338		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R339		nsp	00D2412397998	RES.	RD14B2E561JT(5)
P101	R340		nsp	00D2412397998	RES.	RD14B2E561JT(5)
P101	R341		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R342		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R343		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R344		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R345		nsp	00D2412397998	RES.	RD14B2E561JT(5)
P101	R346		nsp	00D2412397998	RES.	RD14B2E561JT(5)
P101	R351		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R352		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R353		nsp	00D2412401994	RES.	RD14B2E273JT(5)
P101	R354		nsp	00D2412401994	RES.	RD14B2E273JT(5)
P101	R355		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	R356		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	R357		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R358		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R359		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R360		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R361		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R362		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R363		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R364		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R365		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R366		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R367		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R368		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R369		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R370		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	▲R371		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	▲R372		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	R381		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R382		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R383		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R384		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R385		nsp	00D2412395945	RES.	RD14B2E470JT(5)
P101	R386		nsp	00D2412395945	RES.	RD14B2E470JT(5)
P101	▲R387		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	▲R388		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	R391		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P101	R392		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P101	R393		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P101	R501		nsp	00D2412400995	RES.	RD14B2E103JT(5)

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	R502		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P101	R503		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P101	R504		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P101	R509		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R510		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R511		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R512		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R513		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R514		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R515		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R516		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R517		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R518		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R519		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R520		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R521		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	R522		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	R523		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	R524		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	R525		nsp	00D2412397901	RES.	RD14B2E221JT(5)
P101	R526		nsp	00D2412397901	RES.	RD14B2E221JT(5)
P101	R527		nsp	00D2412397901	RES.	RD14B2E221JT(5)
P101	R528		nsp	00D2412397901	RES.	RD14B2E221JT(5)
P101	R529		nsp	00D2412405974	RES.	RD14B2E105JT(5)
P101	R530		nsp	00D2412405974	RES.	RD14B2E105JT(5)
P101	R531		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R532		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R533		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R534		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R535		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R536		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R537		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R538		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R539		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R540		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R541		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R542		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R543		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P101	R544		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P101	R545		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P101	R546		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P101	R547		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P101	R548		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P101	R549		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R550		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	▲R553		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	▲R554		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	▲R555		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	▲R556		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	R601		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P101	R602		nsp	00D2412404917	RES.	RD14B2E224 T,
P101	R603		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P101	R604		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P101	R605		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P101	R606		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P101	R607		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R608		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R609		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R610		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R611		nsp	00D2412401952	RES.	RD14B2E183JT(5)
P101	R612		nsp	00D2412401952	RES.	RD14B2E183JT(5)
P101	R613		nsp	00D2412401952	RES.	RD14B2E183JT(5)
P101	R614		nsp	00D2412401952	RES.	RD14B2E183JT(5)
P101	R615		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R616		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R617		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R618		nsp	00D2412394962	RES.	RD14B2E220JT(5)

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	R619		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P101	R620		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P101	R621		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P101	R622		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P101	R623		nsp	1210100234020	RES.	CFPS1/4CMHTA151J
P101	R624		nsp	1210100234020	RES.	CFPS1/4CMHTA151J
P101	R625		nsp	1210100234020	RES.	CFPS1/4CMHTA151J
P101	R626		nsp	1210100234020	RES.	CFPS1/4CMHTA151J
P101	R627		nsp	00D2412405974	RES.	RD14B2E105JT(5)
P101	R628		nsp	00D2412405974	RES.	RD14B2E105JT(5)
P101	R629		nsp	00D2412405974	RES.	RD14B2E105JT(5)
P101	R630		nsp	00D2412405974	RES.	RD14B2E105JT(5)
P101	R631		nsp	1240500030090	RES.	MOS2CL15A152J 1.5KOHM +5% 2W
P101	R632		nsp	1240500030090	RES.	MOS2CL15A152J 1.5KOHM +5% 2W
P101	R633		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P101	R634		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P101	R635		nsp	00D2412402951	RES.	RD14B2E473JT(5)
P101	R636		nsp	00D2412402951	RES.	RD14B2E473JT(5)
P101	R637		nsp	00D2412402951	RES.	RD14B2E473JT(5)
P101	R638		nsp	00D2412402951	RES.	RD14B2E473JT(5)
P101	R639		00MRA04720780	00MRA04720780	TRIM. RES.	KVSF637TC472 4.7KOHM
P101	R640		00MRA04720780	00MRA04720780	TRIM. RES.	KVSF637TC472 4.7KOHM
P101	R641		nsp	00D2412404991	RES.	RD14B2E474JT_5
P101	R642		nsp	00D2412404991	RES.	RD14B2E474JT(5)
P101	R643		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R644		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R645		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R646		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R647		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R648		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R649		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R650		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R651		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R652		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R653		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R654		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R655		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R656		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R657		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	R658		nsp	00D2412394962	RES.	RD14B2E220JT(5)
P101	▲R659		1210500024030	1210500024030	RES.	! CFP1/4CGTA100J
P101	▲R660		1210500024030	1210500024030	RES.	! CFP1/4CGTA100J
P101	▲R661		1210500024030	1210500024030	RES.	! CFP1/4CGTA100J
P101	▲R662		1210500024030	1210500024030	RES.	! CFP1/4CGTA100J
P101	R663		nsp	00D2412401994	RES.	RD14B2E273JT(5)
P101	R664		nsp	00D2412401994	RES.	RD14B2E273JT(5)
P101	R665		nsp	00D2412401994	RES.	RD14B2E273JT(5)
P101	R666		nsp	00D2412401994	RES.	RD14B2E273JT(5)
P101	R667		nsp	00D2412400953	RES.	RD14B2E682JT(5)
P101	R668		nsp	00D2412400953	RES.	RD14B2E682JT(5)
P101	R669		nsp	00D2412400953	RES.	RD14B2E682JT(5)
P101	R670		nsp	00D2412400953	RES.	RD14B2E682JT(5)
P101	R811		nsp	00D2412398955	RES.	RD14B2E102JT(5)
P101	R812		nsp	00D2412398955	RES.	RD14B2E102JT(5)
P101	R813		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R814		nsp	00D2412401936	RES.	RD14B2E153JT(5)
P101	R815		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	R816		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	R817		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	R818		nsp	00D2412397972	RES.	RD14B2E471JT(5)
P101	▲R819		1210100054040	1210100054040	RES.	! CFPS1/4CMHTA-4R7J
P101	▲R820		1210100054040	1210100054040	RES.	! CFPS1/4CMHTA-4R7J
P101	▲R821		1210100134050	1210100134050	RES.	! CFPS1/4CMHTA220J
P101	▲R822		1210100094060	1210100094060	RES.	! CFPS1/4CMHTA100J
P101	R823		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P101	R824		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P101	R825		nsp	00D2412402919	RES.	RD14B2E333JT(5)

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	R901		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P101	R902		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P101	R903		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P101	R904		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P101	R905		nsp	00D2412402919	RES.	RD14B2E333JT(5)
P101	R906		nsp	00D2412402919	RES.	RD14B2E333JT(5)
P101	R911		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P101	R912		nsp	00D2412400911	RES.	RD14B2E472JT(5)
P101	R913		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P101	R914		nsp	00D2412400911	RES.	RD14B2E472JT(5)
P101	R915		nsp	00D2412401978	RES.	RD14B2E223JT(5)
						SEL PWB P181 (00MWA24AJ207-)
P181	S181		0630100020040	0630100020040	ROTARY SW	SRRSIC
						STANBY LEVER 191 (00MWA24AJ209-)
P191	D191		263710016400S	263710016400S	L.E.D.	SLI-325URT31W TP
P191	R191		nsp	00D2412398997	RES.	RD14B2E152JT(5)
						TONE AMP PWB P201 (00MWA24AJ202-)
P201	C201		1340101204080	1340101204080	ELECT. CAP.	RC2-16V220ME1#-T2
P201	C202		1340101204080	1340101204080	ELECT. CAP.	RC2-16V220ME1#-T2
P201	C203		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P201	C204		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P201	C205		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P201	C206		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P201	C207		1340101204080	1340101204080	ELECT. CAP.	RC2-16V220ME1#-T2
P201	C208		1340101204080	1340101204080	ELECT. CAP.	RC2-16V220ME1#-T2
P201	C209		1340101314080	1340101314080	ELECT. CAP.	RC2-25V101MG1#-T2
P201	C210		1340101314080	1340101314080	ELECT. CAP.	RC2-25V101MG1#-T2
P201	C211		1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P201	C212		1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P201	C213		1340101434010	1340101434010	ELECT. CAP.	RC2-50V2R2MD1#-T2
P201	C214		1340101434010	1340101434010	ELECT. CAP.	RC2-50V2R2MD1#-T2
P201	C215		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P201	C216		1330100015040	1330100015040	FILM CAP.	APSV 0100 J 101 0000 0200
P201	C217		1330500364090	1330500364090	FILM CAP.	AMCV0050J68300000200
P201	C218		1330500364090	1330500364090	FILM CAP.	AMCV0050J68300000200
P201	C240		1340101274090	1340101274090	ELECT. CAP.	RC2-25V100ME1#-T2
P201	C241		1340101274090	1340101274090	ELECT. CAP.	RC2-25V100ME1#-T2
P201	C251		1340101184050	1340101184050	ELECT. CAP.	RC2-10V221MG1#-T2
P201	D231		263710014404S	263710014404S	L.E.D.	SELT2E10C-S TP6 F/G RANK
P201	D232		263710014404S	263710014404S	L.E.D.	SELT2E10C-S TP6 F/G RANK
P201	D233		263710014404S	263710014404S	L.E.D.	SELT2E10C-S TP6 F/G RANK
P201	D234		263710014404S	263710014404S	L.E.D.	SELT2E10C-S TP6 F/G RANK
P201	D235		263710014404S	263710014404S	L.E.D.	SELT2E10C-S TP6 F/G RANK
P201	D236		263710014404S	263710014404S	L.E.D.	SELT2E10C-S TP6 F/G RANK
P201	D237		176010004401S	176010004401S	DISPLAY	SELU2610C-S TP6
P201	D238		2630100024080	2630100024080	L.E.D.	BLUE LED 3MM SEL2E10C
P201	D239		2630100024080	2630100024080	L.E.D.	BLUE LED 3MM SEL2E10C
P201	D271		2030500013020	2030500013020	DIODE	1D3 1A/200V
P201	D272		2030500013020	2030500013020	DIODE	1D3 1A/200V
P201	D273		2030500013020	2030500013020	DIODE	1D3 1A/200V
P201	D274		2030500013020	2030500013020	DIODE	1D 1A 2_V
P201	Q201		00D2630609002	00D2630609002	IC	NJM2068DDC +T
P201	Q203		00D2630609002	00D2630609002	IC	NJM2068DDC +T
P201	Q204		00D2630609002	00D2630609002	IC	NJM2068DDC +T
P201	Q231		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P201	Q232		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P201	Q251		2620100010060	2620100010060	PHOTO UNIT	RPM6936-V4 (IR SENSOR)
P201	R201		nsp	00D2412402919	RES.	RD14B2E333JT(5)
P201	R202		nsp	00D2412402919	RES.	RD14B2E333JT(5)
P201	R203		nsp	00D2412402919	RES.	RD14B2E333JT(5)
P201	R204		nsp	00D2412402919	RES.	RD14B2E333JT(5)
P201	R205		nsp	00D2412399954	RES.	RD14B2E272JT(5)
P201	R206		nsp	00D2412399954	RES.	RD14B2E272JT(5)
P201	R207		0750100020070	0750100020070	VAR. RES.	4K14K124003J
P201	R208		0750100020070	0750100020070	VAR. RES.	4K14K124003J
P201	R209		nsp	00D2412399954	RES.	RD14B2E272JT(5)
P201	R210		nsp	00D2412399954	RES.	RD14B2E272JT(5)

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P201	R211		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P201	R212		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P201	R213		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P201	R214		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P201	R215		0750100030000	0750100030000	VAR. RES.	RK14K1240D0P
P201	R217		nsp	00D2412398971	RES.	RD14B2E122JT(5)
P201	R218		nsp	00D2412398971	RES.	RD14B2E122JT(5)
P201	R219		nsp	00D2412402977	RES.	RD14B2E563JT(5)
P201	R220		nsp	00D2412402977	RES.	RD14B2E563JT(5)
P201	R221		nsp	00D2412402977	RES.	RD14B2E563JT(5)
P201	R222		nsp	00D2412402977	RES.	RD14B2E563JT(5)
P201	R223		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
P201	R224		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
P201	R231		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P201	R232		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P201	R233		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P201	R234		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P201	R235		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P201	R236		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P201	R238		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P201	R239		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P201	R240		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P201	R241		nsp	00D2412397943	RES.	RD14B2E331JT_5
P201	R242		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P201	R243		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P201	R244		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P201	R245		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P201	R246		nsp	00D2412397943	RES.	RD14B2E331JT(5)
P201	R247		nsp	00D2412397901	RES.	RD14B2E221JT(5)
P201	R248		nsp	00D2412397901	RES.	RD14B2E221JT(5)
P201	R251		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P201	R261		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P201	R262		nsp	00D2412399938	RES.	RD14B2E222JT(5)
P201	R263		nsp	00D2412399996	RES.	RD14B2E392JT(5)
P201	R273		nsp	00D2412398971	RES.	RD14B2E122JT(5)
P201	R274		nsp	00D2412398971	RES.	RD14B2E122JT(5)
P201	S261		00MSP01012030	00MSP01012030	PUSH SW	SKHVF 260GF RED
P201	S262		00MSP01012030	00MSP01012030	PUSH SW	SKHVF 260GF RED
P201	S271		00MSR01040150	00MSR01040150	ROTARY SW	SRBV141200 NON-SHORTING L=20
PHONO AMP PWB P401 (00MWA24AJ203-)						
P401	C291	/K1SG	nsp	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C291	/N1B	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C291	/N1SG	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C292	/K1SG	nsp	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C292	/N1B	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C292	/N1SG	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C293	/K1SG	nsp	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C293	/N1B	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C293	/N1SG	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C294	/K1SG	nsp	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	2 4	/N1B	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C294	/N1SG	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C295		1330100075020	1330100075020	FILM CAP.	APSV 0100 J 331 0000 0200
P401	C296		1330100075020	1330100075020	FILM CAP.	APSV 0100 J 331 0000 0200
P401	C401		1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C402		1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C403		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P401	C404		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P401	C405		1340100235070	1340100235070	ELECT. CAP.	RA2-10V471MG3#8-T2
P401	C406		1340100235070	1340100235070	ELECT. CAP.	RA2-10V471MG3#8-T2
P401	C407		133050050405S	133050050405S	FILM CAP.	APSV 0100 J 3930000 D200
P401	C408		133050050405S	133050050405S	FILM CAP.	APSV 0100 J 3930000 D200
P401	C409		1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P401	C410		1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P401	C411		1330100135070	1330100135070	FILM CAP.	APSV 0100 J 102 0000 0200
P401	C412		1330100135070	1330100135070	FILM CAP.	APSV 0100 J 102 0000 0200
P401	C413		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P401	C414		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P401	C417		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P401	C418		1340100465000	1340100465000	ELECT. CAP.	RA2-25V221MG3#8-T2
P401	C419	/K1SG	nsp	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C419	/N1B	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C419	/N1SG	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C420	/K1SG	nsp	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C420	/N1B	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	C420	/N1SG	1330100055060	1330100055060	FILM CAP.	APSV 0100 J 221 0000 0200
P401	J291		643810025009S	643810025009S	TERMINAL	CINCH JACK 4P NI MSP-244V4-02 NI LF
P401	J401		643810026002S	643810026002S	TERMINAL	CINCH JACK 2P NI MSP-242V3-02 NI LF
P401	L401	/K1SG	nsp	1150100010018	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L401	/N1B	1150100010018	1150100010018	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L401	/N1SG	1150100010018	1150100010018	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L402	/K1SG	nsp	1150100010018	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L402	/N1B	1150100010018	1150100010018	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L402	/N1SG	1150100010018	1150100010018	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	Q401		00D2630609002	00D2630609002	IC	NJM2068DDC +T
P401	R291		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P401	R292		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P401	R293		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P401	R294		nsp	00D2412404917	RES.	RD14B2E224JT(5)
P401	R295		nsp	00D2412398955	RES.	RD14B2E102JT_5,
P401	R296		nsp	00D2412398955	RES.	RD14B2E102JT(5)
P401	R401	F N	nsp	00D2412191903	RES.	RD14B2H330JT
P401	R401	/K1SG	nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R401	/N1B	nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R401	/N1SG	nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R402	F N	nsp	00D2412191903	RES.	RD14B2H330JT
P401	R402	/K1SG	nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R402	/N1B	nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R402	/N1SG	nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R403		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P401	R404		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P401	R405		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P401	R406		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P401	R407		nsp	00D2412396902	RES.	RD14B2E820JT(5)
P401	R408		nsp	00D2412396902	RES.	RD14B2E820JT(5)
P401	R409		nsp	00D2412403918	RES.	RD14B2E823JT(5)
P401	R410		nsp	00D2412403918	RES.	RD14B2E823JT(5)
P401	R411		nsp	00D2412400953	RES.	RD14B2E682JT(5)
P401	R412		nsp	00D2412400953	RES.	RD14B2E682JT(5)
P401	R413		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R414		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R415		nsp	00D2412402951	RES.	RD14B2E473JT(5)
P401	R416		nsp	00D2412402951	RES.	RD14B2E473JT(5)
P401	R417		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R418		nsp	00D2412396928	RES.	RD14B2E101JT(5)
P401	R419		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
P401	R420		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
						VOLUME PWB P591 (00MWA24AJ205-)
P591	C591		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P591	C592		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P591	R591		0753100010018	0753100010018	VAR. RES.	RK16812MG
						POWER STAGE PWB P701 (00MWA24AJ102-)
P701	C701		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P701	C702		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P701	C705		1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P701	C706		1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P701	C707		133050050405S	133050050405S	FILM CAP.	APSV 0100 J 3930000 D200
P701	C708		133050050405S	133050050405S	FILM CAP.	APSV 0100 J 3930000 D200
P701	▲C801		1340500010008	1340500010008	ELECT. CAP.	! 15000UF/63V(MARANTZ ORIGINAL)
P701	▲C802		1340500010008	1340500010008	ELECT. CAP.	! 15000UF/63V(MARANTZ ORIGINAL)
P701	C951		1340100655010	1340100655010	ELECT. CAP.	RA2-50VR47ME3#8-T2
P701	C952		1340100655010	1340100655010	ELECT. CAP.	RA2-50VR47ME3#8-T2
P701	C953		1340100445040	1340100445040	ELECT. CAP.	RA2-25V470ME3#8-T2
P701	C954		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P701	▲D801		2040500030040	2040500030040	DIODE	! FRH10A15
P701	▲D802		2040500020010	2040500020010	DIODE	! FCH10A15
P701	D951		nsp	2010500013060	DIODE	HSS81150V 150MA
P701	D952		nsp	2010500013060	DIODE	HSS81150V 150MA
P701	D953		nsp	2010500013060	DIODE	HSS81150V 150MA
P701	D954		nsp	2010500013060	DIODE	HSS81150V 150MA
P701	▲G801		00MBF68400010	00MBF68400010	CAP.COMP.	! 0.68UF/4.70HM
P701	▲KT01		2170500010040	2170500010040	TRS.	! 2SA1186/2SC2837 PAIR FOR Q713/Q715
P701	▲KT02		2170500010040	2170500010040	TRS.	! 2SA1186/2SC2837 PAIR FOR Q713/Q715
P701	▲Q703		2130500040010	2130500040010	TRS.	! C3419 Y 40V 0.8A PC=1.2W (5W)
P701	▲Q704		2130500040010	2130500040010	TRS.	! C3419 Y 40V 0.8A PC=1.2W (5W)
P701	▲Q705		00D2730281906	00D2730281906	TRS.	! 2SC2705 (O)/(Y)TPE6
P701	▲Q706		00D2730281906	00D2730281906	TRS.	! 2SC2705 (O)/(Y)TPE6
P701	▲Q707		00D2710168900	00D2710168900	TRS.	! 2SA1145 (O)/(Y)TPE6
P701	▲Q708		00D2710168900	00D2710168900	TRS.	! 2SA1145 (O)/(Y)TPE6
P701	▲Q709		00D2730333003	00D2730333003	TRS.	! 2SC3423 (O/Y)
P701	▲Q710		00D2730333003	00D2730333003	TRS.	! 2SC3423 (O/Y)
P701	▲Q711		00D2710202002	00D2710202002	TRS.	! 2SA1360 (O/Y)
P701	▲Q712		00D2710202002	00D2710202002	TRS.	! 2SA1360 (O/Y)
P701	▲Q713		nsp	nsp	TRS.	! 2SC2837 Y P PAIR WITH Q715 OF KT01
P701	▲Q714		nsp	nsp	TRS.	! 2SC2837 Y P PAIR WITH Q716 OF KT02
P701	▲Q715		nsp	nsp	TRS.	! 2SA1186 Y P PAIR WITH Q713 OF KT01
P701	▲Q716		nsp	nsp	TRS.	! 2SA1186 Y P PAIR WITH Q714 OF KT02
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/P (10K-10K)
P701	Q958		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P701	R703		nsp	00D2412400979	RES.	RD14B2E822JT(5)
P701	R704		nsp	00D2412400979	RES.	RD14B2E822JT(5)
P701	R705		nsp	00D2412398997	RES.	RD14B2E152JT(5)
P701	R706		nsp	00D2412398997	RES.	RD14B2E152JT(5)
P701	R707		00MRA01020760	00MRA01020760	TRIM. RES.	1K OHM VERTICAL
P701	R708		00MRA01020760	00MRA01020760	TRIM. RES.	1K OHM VERTICAL
P701	R709		nsp	00D2412400911	RES.	RD14B2E472JT(5)
P701	R710		nsp	00D2412400911	RES.	RD14B2E472JT(5)
P701	R713		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P701	R714		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P701	R715		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P701	R716		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P701	R717		nsp	1210100334090	RES.	CFPS1/4CMHTA102J
P701	R718		nsp	1210100334090	RES.	CFPS1/4CMHTA102J
P701	R719		nsp	1210100174070	RES.	CFPS1/4CMHTA470J
P701	R720		nsp	1210100174070	RES.	CFPS1/4CMHTA470J
P701	R721		nsp	1210100174070	RES.	CFPS1/4CMHTA470J
P701	R722		nsp	1210100174070	RES.	CFPS1/4CMHTA470J
P701	▲R723		1210500034060	1210500034060	RES.	! CFP1/4CGTA221J
P701	▲R724		1210500034060	1210500034060	RES.	! FP1 4 TA221
P701	R725		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
P701	R726		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
P701	R727		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
P701	R728		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
P701	▲R729		00D2432061000	00D2432061000	RES.	! RW99=3F0R1K
P701	▲R730		00D2432061000	00D2432061000	RES.	! RW99=3F0R1K
P701	▲R731		00D2432061000	00D2432061000	RES.	! RW99=3F0R1K
P701	▲R732		00D2432061000	00D2432061000	RES.	! RW99=3F0R1K
P701	R733		nsp	1240500010030	RES.	MOS2CL15A100J 10OHM +-5% 2W
P701	R734		nsp	1240500010030	RES.	MOS2CL15A100J 10OHM +-5% 2W
P701	R801		nsp	00D2412402951	RES.	RD14B2E473JT(5)
P701	R802		nsp	00D2412402951	RES.	RD14B2E473JT(5)
P701	R951		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P701	R952		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P701	R953		nsp	1210100294000	RES.	CFPS1/4CMHTA471J
P701	R954		nsp	1210100294000	RES.	CFPS1/4CMHTA471J

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P701	R955		nsp	1210100414000	RES.	CFPS1/4CMHTA472J
P701	R956		nsp	1210100414000	RES.	CFPS1/4CMHTA472J
P701	R957		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P701	R958		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P701	R959		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P701	R960		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P701	R961		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P701	R962		nsp	00D2412401978	RES.	RD14B2E223JT(5)
P701	R963		nsp	00D2412400953	RES.	RD14B2E682JT(5)
P701	R964		nsp	00D2412400953	RES.	RD14B2E682JT(5)
P701	R965		nsp	00D2412402993	RES.	RD14B2E683JT(5)
P701	R966		nsp	00D2412402993	RES.	RD14B2E683JT(5)
P701	R968		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P701	R969		00D2790034054	00D2790034054	THERMISTOR	PTH9M04BC222TS2F333
						SPK TERMINAL PWB P751 (00MWA24AJ103-)
P751	C751	/K1SG	nsp	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P751	C751	/N1B	1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P751	C751	/N1SG	1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P751	C752	/K1SG	nsp	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P751	C752	/N1B	1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P751	C752	/N1SG	1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P751	C753		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P751	C754		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P751	D751		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
P751	J752		646710022000M	646710022000M	TERMINAL	SPK TERMINAL T7438-A
P751	J753		646710023003M	646710023003M	TERMINAL	SPK TERMINAL T7438-B
P751	L751		00D2140213001	00D2140213001	RELAY	RELAY(FTR-F4) G5PA-28 5A/250VAC
P751	L752		00D2140213001	00D2140213001	RELAY	RELAY(FTR-F4) G5PA-28 5A/250VAC
P751	L753		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P751	R751		nsp	1240500020060	RES.	MOS2CL15A331J330OHM +-5% 2W
P751	R752		nsp	1240500020060	RES.	MOS2CL15A331J330OHM +-5% 2W
P751	R753		nsp	1210100134050	RES.	CFPS1/4CMHTA220J
P751	R754		nsp	1210100134050	RES.	CFPS1/4CMHTA220J
P751	R755		nsp	1210100134050	RES.	CFPS1/4CMHTA220J
						HEADPHONE PWB P791(00MWA24AJ208-)
P791	C791	/K1SG	nsp	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P791	C791	/N1B	1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P791	C791	/N1SG	1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P791	C792	/K1SG	nsp	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P791	C792	/N1B	1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P791	C792	/N1SG	1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P791	J791		6430100050030	6430100050030	TERMINAL	YKB26-5009G HP JACK(SILVER)
P791	R791		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
P791	R792		nsp	1210100094060	RES.	CFPS1/4CMHTA100J
						STANDBY PWB P851 (00MWA24AJ204-)
P851	▲C851		133750061200S	133750061200S	FILM CAP.	# PHE840MA5100MA01R05
P851	C852		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P851	C853		1330100255000	1330100255000	FILM CAP.	APSV 0100 J 103 0000 0200
P851	C854		1340100665040	1340100665040	ELECT. CAP.	RA2-50V010ME3E#8-T2
P851	C855		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P851	C856		1340100705030	1340100705030	ELE. T. AP.	RA2-50V100ME3E#8-T2
P851	C857		1340100595060	1340100595060	ELECT. CAP.	RA2-35V221MH3#8-T2
P851	C858		1340100705030	1340100705030	ELECT. CAP.	RA2-50V100ME3E#8-T2
P851	C859		1340100665040	1340100665040	ELECT. CAP.	RA2-50V010ME3E#8-T2
P851	C860		1340100505090	1340100505090	ELECT. CAP.	RA2-25V222MJ6#8
P851	C861		1340100645080	1340100645080	ELECT. CAP.	RA2-35V332MK8#8-S1
P851	C862		1340100645080	1340100645080	ELECT. CAP.	RA2-35V332MK8#8-S1
P851	▲C863		133750061200S	133750061200S	FILM CAP.	# PHE840MA5100MA01R05
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		2040500043040	2040500043040	DIODE	!D1NJ10 100V 1A SBD
P851	▲D858		2040500043040	2040500043040	DIODE	!D1NJ10 100V 1A SBD
P851	▲D859		2040500043040	2040500043040	DIODE	!D1NJ10 100V 1A SBD

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P851	▲D860		2040500043040	2040500043040	DIODE	! D1NJ10 100V 1A SBD
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
P851	▲D866		2030500013020	2030500013020	DIODE	! 1D3 1A/200V
P851	▲F851	F N	nsp	0520100180090	FUSE	# 021806.3MXP (FUSE 6.3A 250V)
P851	▲F851	/K1SG	nsp	0520100150000	FUSE	# 02183.15MXP
P851	▲F851	/N1B	0520100150000	0520100150000	FUSE	# 02183.15MXP
P851	▲F851	/N1SG	0520100150000	0520100150000	FUSE	# 02183.15MXP
P851	▲F852	F N	nsp	0520100150000	FUSE	# 02183.15MXP
P851	▲G851		00MBF68400010	00MBF68400010	CAP.COMP.	! 0.68UF/4.70HM
P851	▲J860	I IV	nsp	6410500020060	TERMINAL	! M7039-A AC OUTLET
P851	J863		643810027005M	643810027005M	TERMINAL	CINCH JACK 2P ORG YKC21-3641N
P851	▲L851	F N	nsp	1010100050048	TRANSF.	# POWER TRANSFORMER FOR 110V/100V
P851	▲L851	/K1SG	nsp	1013100020028	TRANSF.	# STANDBY TRANSFORMER FOR 230V
P851	▲L851	/N1B	1013100020028	1013100020028	TRANSF.	# STANDBY TRANSFORMER FOR 230V
P851	▲L851	/N1SG	1013100020028	1013100020028	TRANSF.	# STANDBY TRANSFORMER FOR 230V
P851	▲L852		682010006001S	682010006001S	RELAY	# FTR-H2AK009T
P851	L853		1190100014090	1190100014090	FERRITE BEAD	BL02RN2R1N1A FERRITE BEAD
P851	L854		1190100014090	1190100014090	FERRITE BEAD	BL02RN2R1N1A FERRITE BEAD
P851	L855		1190100014090	1190100014090	FERRITE BEAD	BL02RN2R1N1A FERRITE BEAD
P851	Q851		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
P851	▲Q852		231010022009S	231010022009S	IC	! PQ050ES1MXPQ
P851	▲Q853		2310100020050	2310100020050	IC	! NJM7805FA +5V
P851	Q854		2110500020090	2110500020090	TRS.	KTA1268 RANK=GR
P851	Q855		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
P851	R851		nsp	1210100134050	RES.	CFPS1/4CMHTA220J
P851	R852		nsp	00D2412400911	RES.	RD14B2E472JT(5)
P851	R853		nsp	00D2412400911	RES.	RD14B2E472JT(5)
P851	R854		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P851	▲R855		1210500010040	1210500010040	RES.	! CFPB1/2CL12.5A1R0J
P851	▲R856		1210500010040	1210500010040	RES.	! CFPB1/2CL12.5A1R0J
P851	R858		nsp	00D2412403934	RES.	RD14B2E104JT(5)
P851	R859		nsp	00D2412398955	RES.	RD14B2E102JT(5)
P851	R860		nsp	00D2412398955	RES.	RD14B2E102JT(5)
P851	R861		nsp	00D2412400995	RES.	RD14B2E103JT(5)
P851	R862		nsp	00D2412395945	RES.	RD14B2E470JT(5)
						POWER SW PWB P891(00MWA24AJ206-)
P891	▲C891		1320500030000	1320500030000	CER. CAP.	# DE0910 B 471K -KX 470PF 250V
P891	▲S891		665010008002D	665010008002D	SW	# ESB92S13B TV-5 STROKE=.5MM
						U-COM PWB PU01 (00MWA24AJ201-)
PU01	CU31		1340101274090	1340101274090	ELECT. CAP.	RC2-25V100ME1#-T2
PU01	CU33		1340101274090	1340101274090	ELECT. CAP.	RC2-25V100ME1#-T2
PU01	CU73		1340101184050	1340101184050	ELECT. CAP.	RC2-10V221MG1#-T2
PU01	CU82		1340101274090	1340101274090	ELECT. CAP.	RC2-25V100ME1#-T2
PU01	DU71		nsp	00D2760401905	DIODE	1SS133T77 (TAPE)
PU01	DU81		2030500013020	2030500013020	DIODE	1D3 1A/200V
PU01	LU31		1190100014090	1190100014090	FERRITE BEAD	BL02RN2R1N1A FERRITE BEAD
PU01	LU32		1190100014090	1190100014090	FERRITE BEAD	BL02RN2R1N1A FERRITE BEAD
PU01	QU01		2439100016008	2439100016008	U-PRO	TMP86FH47UG
PU01			00M24AJ499A00	00M24AJ499A00	SOFTWARE	PM7003 SOFTWARE FOR QU01 VER00
PU01	QU02		2469100015000	2469100015000	IC	AT24C08AN-10SU-2 EEPROM
PU01	QU03		2350100024030	2350100024030	IC	PST600D-2 RESET IC
PU01	QU04		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
PU01	QU05		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
PU01	QU10		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
PU01	QU11		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
PU01	QU12		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
PU01	QU41		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
PU01	QU42		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
PU01	QU45		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
PU01	QU46		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
PU01	QU72		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
PU01	QU73		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
PU01	QU74		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
PU01	QU75		2130500010020	2130500010020	TRS.	KTC3199 RANK=Y
PU01	QU81		2350100037030	2350100037030	IC	LB1630 MOTOR DRIVE IC
PU01	RU01		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU02		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU03		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU04		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU05		nsp	00D2412400995	RES.	RD14B2E103JT(5)
PU01	RU06		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU07		nsp	00D2412400911	RES.	RD14B2E472JT(5)
PU01	RU11		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU21		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU22		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU23		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU25		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU26		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU27		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU28		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU29		nsp	00D2412400995	RES.	RD14B2E103JT(5)
PU01	RU30		nsp	00D2412400995	RES.	RD14B2E103JT(5)
PU01	RU31		nsp	00D2412400995	RES.	RD14B2E103JT(5)
PU01	RU41		nsp	00D2412399970	RES.	RD14B2E332JT(5)
PU01	RU42		nsp	00D2412403934	RES.	RD14B2E104JT(5)
PU01	RU43		nsp	00D2412402951	RES.	RD14B2E473JT_5
PU01	RU44		nsp	00D2412402919	RES.	RD14B2E333JT(5)
PU01	RU45		nsp	00D2412400937	RES.	RD14B2E562JT(5)
PU01	RU46		nsp	00D2412403934	RES.	RD14B2E104JT(5)
PU01	RU47		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU72		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU73		nsp	00D2412401952	RES.	RD14B2E183JT(5)
PU01	RU74		nsp	00D2412402951	RES.	RD14B2E473JT(5)
PU01	RU75		nsp	00D2412396928	RES.	RD14B2E101JT(5)
PU01	RU81		nsp	00D2412400995	RES.	RD14B2E103JT(5)
PU01	RU82		nsp	00D2412400995	RES.	RD14B2E103JT(5)
PU01	RU83		nsp	1210100014020	RES.	CFPS1/4CMHTA-2R2J
PU01	XU01		142010004507S	142010004507S	CER. VIB.	CSTLS8M00G53

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

13. ABOUT REPLACE THE MICROPROCESSOR WITH A NEW ONE

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

PWB Name	Pos. No.	Description	After replaced	Remark
PU01	QU01	TMP86FH47UG	C	SOFTWARE : 00M24AJ499A00

After replaced

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

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

C : Empty Flash ROM (Without software). You should be write-in of the software to the microprocessor or flash ROM.

Refer to "Update procedure" or "writing procedure", when you should be write-in the software.

マイコン等を交換した場合の対応について

U-PRO(マイコン)およびFlash ROM等を交換した場合の対応方法を下記の記載します。

PWB Name	Pos. No.	Description	交換時の対応	備考
PU01	QU01	TMP86FH47UG	C	SOFTWARE : 00M24AJ499A00

交換時の対応

A : Mask ROM (ソフトウェア書き込み済み) 交換時にソフトウェアの書き込みは必要ありません。

B : Flash ROM (ソフトウェア書き込み済み) バージョンアップにより交換時にソフトウェアの書き換えが必要な場合があります。バージョンの確認をしてください。

C : 空ROM (Flash ROM) 交換時必ずソフトウェアの書き込みが必要になります。Update、書き込み方法を参照してください。