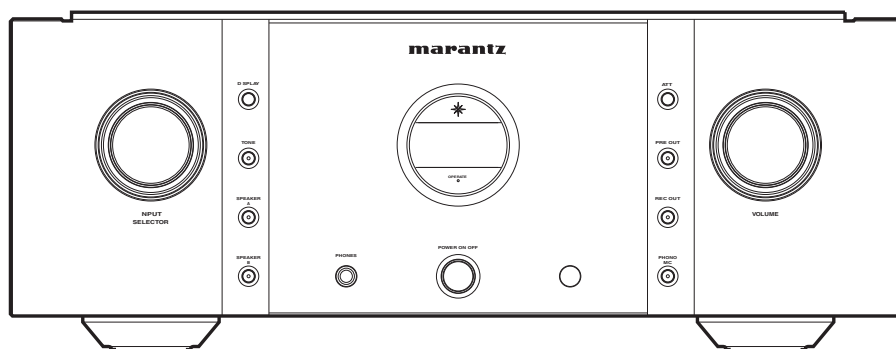


# Service Manual

PM-11S2 /F N/K1G/N1G/U1G

/N1S

Integrated Amplifier



PM-11S2

## TABLE OF CONTENTS

SECTION	PAGE
1. TECHNICAL SPECIFICATIONS .....	1
2. CAUTION .....	1
3. ALIGNMENTS .....	2
4. SERVICE MODE / TRIM CHECK MODE .....	4
5. PROTECTION MODE .....	8
6. UPDATE FIRMWARE .....	10
[A] SOFTWARE DOWNLOADS AND INSTALLS PROCEDURE .....	10
[B] WRITING AND UPDATE SOFTWARE .....	26
7. WIRING DIAGRAM .....	37
8. BLOCK DIAGRAM .....	39
9. SCHEMATIC DIAGRAM .....	41
10. PARTS LOCATION .....	55
11. EXPLODED VIEW AND PARTS LIST .....	71
12. MICROPROCESSOR AND IC DATA .....	76
13. ELECTRICAL PARTS LIST .....	83
14. ABOUT REPLACE THE MICROPROCESSOR WITH A NEW ONE .....	107

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®

## PM-11S2

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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  
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USA

#### EUROPE / TRADING

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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使用して下さい。

### SHOCK, FIRE HAZARD SERVICE TEST :

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

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

Ref. UL Standard No. 60065.

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

## 1. TECHNICAL SPECIFICATIONS

### Power output

(20 Hz – 20 kHz simultaneous drive of both channels)

8 Ω load .....	100 W x 2
4 Ω load .....	200 W x 2

### Total frequency distortion

(20 Hz – 20 kHz simultaneous drive of both channels, 8 Ω load) ... 0.01 %

Output band width (8 Ω load, 0.05 %) ..... 5 Hz – 50 kHz

Frequency response (CD, 1 W, 8 Ω load)

..... 5 Hz – 120 kHz ± 3 dB

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

### Input sensitivity/Input impedance

PHONO (MC) .....	270 μV/100 Ω
PHONO (MM) .....	3 mV/47 kΩ
BALANCED .....	480 mV/20 kΩ
CD/LINE .....	240 mV/20 kΩ

### Output voltage/Output impedance

PRE OUT ..... 1.9 V/220 Ω

### Maximum allowed PHONO input (1 kHz)

MC .....	12 mV
MM .....	130 mV
RIAA deviation (20 Hz – 20 kHz) .....	± 0.5 dB

### S/N (IHF-A, 1 W, 8 Ω load)

PHONO (MC : 0.5 mV input) .....	76 dB
PHONO (MM : 5 mV input) .....	90 dB
BALANCED : 500 mV input .....	95 dB
CD/LINE : 500 mV input .....	96 dB

### Tone control

Bass (50 Hz) .....	± 8 dB
Treble (20 kHz) .....	± 8 dB

### Power requirement

[/F] .....	AC 100 V 50/60 Hz
[/K] .....	AC 220V 50 Hz
[/N] .....	AC 230 V 50/60 Hz
[/U] .....	AC 120 V 60 Hz

### Power consumption

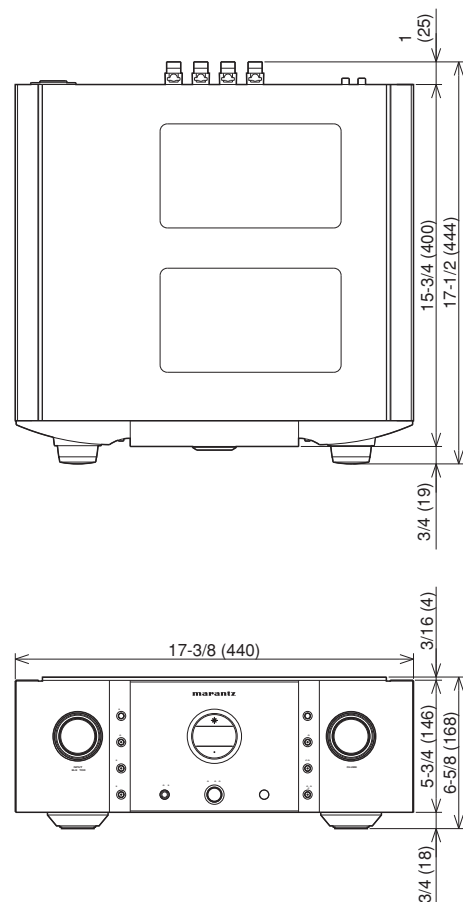
J60065/EN60065 7th Ed./UL60065 ..... 300 W

### Accessories

Remote controller (RC-11PMS1) .....	1
AAA batteries .....	2
Detachable AC power cable .....	1

### Maximum outer dimensions (Amp)

Width .....	17-3/8 in (440 mm)
Height .....	6-5/8 in (168 mm)
Depth .....	17-1/2 in (444 mm)
Weight (Amp) .....	58.6 lb (26.6 kg)



Unit: inch (mm)

## 2. CAUTION

The layout of this amplifier is well concerned for sound quality.

1. When screws and washers are removed, those parts must be set to the same places.
2. When wires are removed, the wires must be installed in the same roots, same places.
3. Do not hold the side panel (013D) to move the unit when the unit is disassembled.

## 2. 注意

当機は音質を考慮したレイアウトになっています。

1. ネジやワッシャ類を取り外した場合、元の位置に取り付けてください。
2. ワイヤ類を取り外した場合の配線ルートは、元のルート通りに戻してください。
3. 当機を分解した状態で移動するときは、サイドパネル(013D)を持たないでください。

### 3. ALIGNMENTS

#### Adjustment Procedure

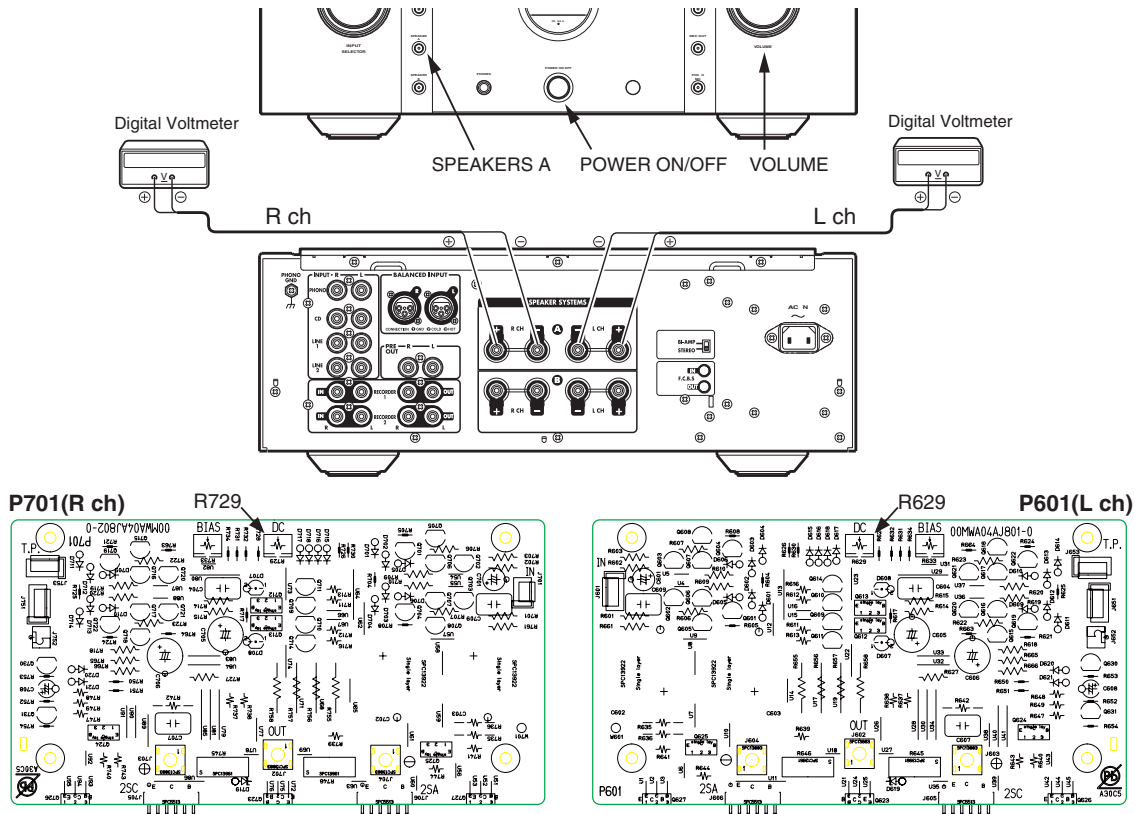
Set the power voltage to rated voltage for this adjustment

#### 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。

#### DC Offset Voltage Adjustment

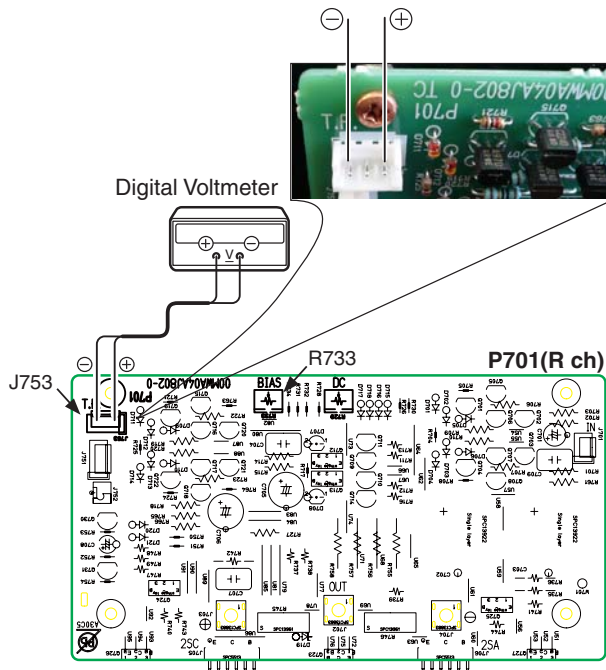
#### DCオフセット電圧調整



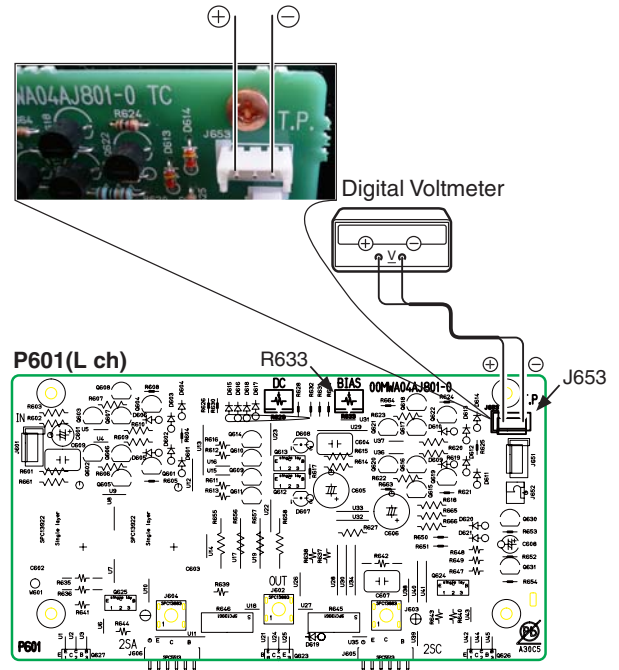
- Before turning on the power, Insert Digital Voltage Meter between the SPEAKER SYSTEMS A (L CH) "+" and "-". Insert Digital Voltage Meter between the SPEAKER SYSTEMS A (R CH) "+" and "-".
- Turn on the power, **VOLUME** is set as  $-\infty$ .
- Press the **SPEAKER A** button.
- After turn on the power and 2 minutes pass, first **L CH** is adjusted.  
The variable resistor **R629** on P601 is turned with adjustment driver, and the Digital Voltage Meter is adjusted to "**0 mV  $\pm$  10 mV**".
- Then, **R CH** is adjusted.  
The variable resistor **R729** on P701 is turned with adjustment driver, and the Digital Voltage Meter is adjusted to "**0 mV  $\pm$  10 mV**".
- 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 SPEAKER SYSTEMS A is "**0 mV  $\pm$  20 mV**".

- 電源をONする前にリアパネルのSPEAKER SYSTEMS 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。
- 電源を投入しボリュームを $-\infty$ にします。
- SPEAKERS A**のボタンをONにします。
- 電源を投入して2分経過後、最初に**L CH**を調整します。  
P601基板の半固定抵抗**R629**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  $\pm$  10 mV**"以内になるように調整します。
- 続けて、**R CH**を調整します。  
P701基板の半固定抵抗**R729**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  $\pm$  10 mV**"以内になるように調整します。
- 調整後DCオフセット電圧は多少の変動はありますが、SPEAKER SYSTEMS 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  $\pm$  20 mV**"の範囲であることを確認してください。

## Idling Current Adjustment



## アイドルリング電流調整



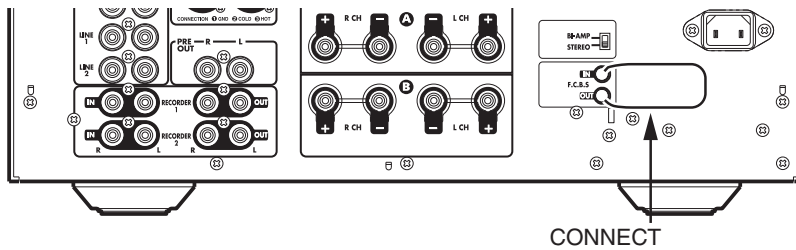
1. After DC Offset Voltage Adjustment is completed, adjust the Idling Current with the variable resistor **R633** and **R733** on the PWB (P601/P701).
  2. Turn off the power.
  3. "+" of Connect Digital Voltage is connected to the No. 1 pin and connected "-" to No. 3 pin of **J653**.
  4. "+" of Connect Digital Voltage is connected to the No. 1 pin and connected "-" to No. 3 pin of **J753**.
  5. Before turning on the power, **R633** and **R733** have been counter clockwise turned with the adjustment driver.
  6. Turn on the power, **VOLUME** is set as  $-\infty$ .
  7. With seeing the digital voltage meter turn the variable resistor clockwise slowly to adjust the idling current.
    - Idling adjustment with **R633** (**R733**).
    - Turn **R633** (**R733**) clockwise to increase the idling current.
    - The adjustment value of idling current is "**9.6 mV(48 mA)  $\pm$  0.5 mV(2.5 mA)**" each.
  8. After 5 minutes, repeat the same procedure as 7.
    - Turn **R633** (**R733**) clockwise to increase the idling current.
    - The adjustment value of idling current is "**10.4 mV(52 mA)  $\pm$  0.5 mV(2.5 mA)**" each.
- Adjustment is completed.
9. Remove connection cable, attach the top cover.

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

1. DCオフセット電圧調整終了後、P601/P701基板上の半固定抵抗**R633**と**R733**でアイドルリング電流を調整します。
  2. 電源をOFFします。
  3. P601基板の**J653**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**J653**の1番ピンを"+", 3番ピンを"-に接続します。
  4. P701基板の**J753**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**J753**の1番ピンを"+", 3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**R633**と**R733**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. P601/P701基板の**J653**/**J753**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**R633**と**R733**をゆっくりと時計向に回してください。
    - **R633**と**R733**を時計方向に回すとアイドルリング電流が増加します。
    - アイドリング電流の調整値はそれぞれ "**9.6 mV(48 mA)  $\pm$  0.5 mV(2.5 mA)**"とします。
  8. さらに"5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 "**10.4 mV(52 mA)  $\pm$  0.5 mV(2.5 mA)**"とします。
- 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。

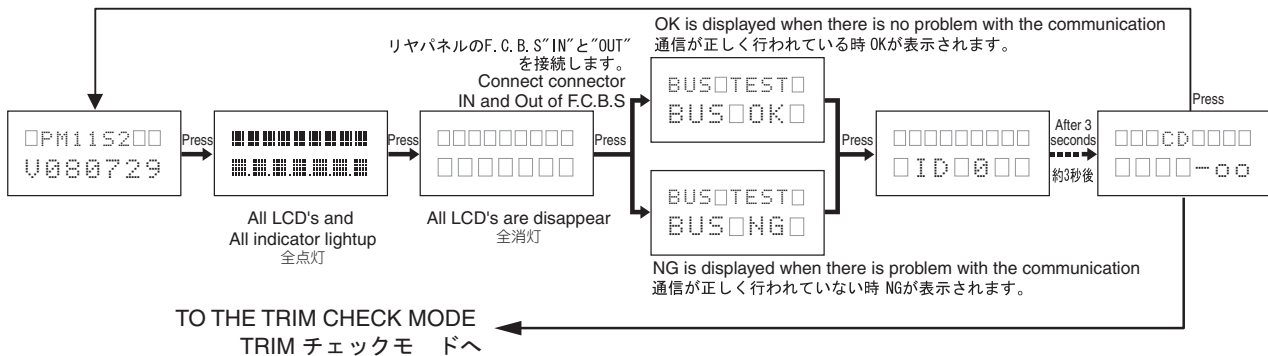
調整終了後トップカバーを取付けるとセット内部の温度上昇に伴いアイドルリング電流が減少し、電源投入後約30分で設定値の"**10mV(50mA)**"になります。

## 4. SERVICE MODE



- To enter the Service Mode, press the **POWER ON/OFF** button with pressing the **DISPLAY** and **ATT** buttons to turn on the unit. Or when the remote code "166363" is received while power is ON.  
When into the Service Mode, the memory is cleared and the unit is initialized.
- The Model name and Version number are displayed on the Front LCD.  
Whenever press the **DISPLAY** button, the display changes as follows.  
Turn off power to quit service mode.

- 本体の**DISPLAY**ボタンと**ATT**ボタンを押しながら**POWER ON/OFF**ボタンを押します。  
また、電源ON中にリモコンコード"166363"を受信します。これでサービスモードに入ります。  
サービスモードに入ると全ての設定がクリアされ出荷状態になります。
- 初めにモデル名、バージョンが表示されます。  
**DISPLAY**ボタンを押すたびに下記の表示となります。  
**POWER ON/OFF**ボタンを押し、電源を切るとサービスモードが解除されます。

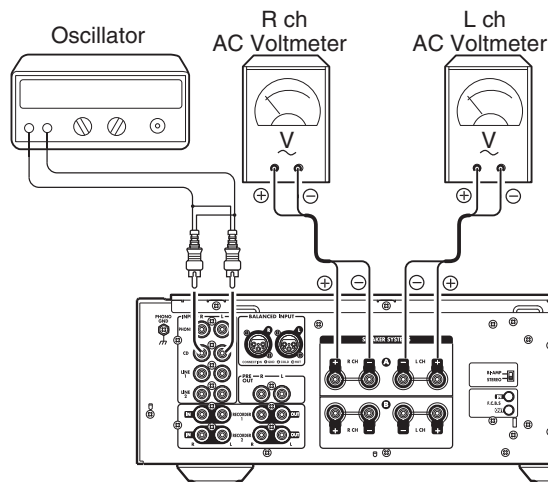


### TO ENTER THE TRIM CHECK MODE.

Before press the **TONE** button, following connection and setup are required.

### TRIMチェックモード

**TONE**ボタンを押す前に、下記の接続と設定を行います。

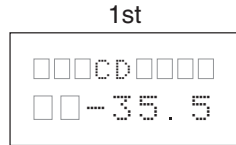


- Oscillator is connected to R and L of CD input terminal.
- Voltmeter is connected R CH + - and L CH + - of SPEAKER SYSTEMS A.

- CD入力端子のRとLに発振器を接続します。
- SPEAKER SYSTEMS AのRCH+-, LCH+-にACボルトメーターを接続します。

3. Adjust out put level of Oscillator to "500 mV, 1 kHz"
4. Turn **INPUT SELECTOR** knob, and select **CD**.
5. Turn **VOLUME** knob, and adjust volume level to "- 35.5 dB".
6. Press **SPEAKERS A** button.
7. Press **TONE** button (1 st).  
"- 35.5" is displayed and speaker output voltage is set to about 1.0 V.

3. 発振器を"500 mV, 1 kHz"に設定します。
4. **INPUT SELECTOR**ツマミを回し"CD"を選択します
5. **VOLUME**ツマミを回し"- 35.5 dB"にあわせませす。
6. **SPEAKERS A**ボタンを押します。
7. **TONE**ボタンを押します(1回目)。  
ディスプレイに"- 35.5"と表示され、スピーカー出力電圧は約1.0 Vになります。



When adjust output level with 1.0 V correctly, tune the output voltage of Oscillator to fine adjustment.  
After, whenever press the **TONE** button, 1.0 V of output level are made into 0 dB standard, TRIM adjustment function works and output level changes according to the display.

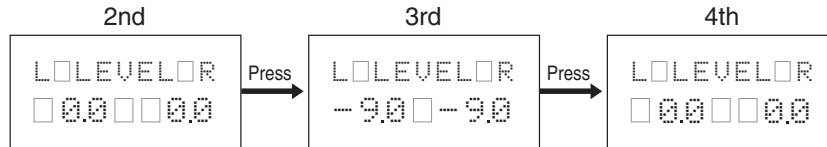
正確に1.0 Vに合わせる場合は発振器の出力電圧を微調整してください。  
以降、出力レベルの1.0 Vを基準 (0 dB) として、**TONE**ボタンを押すごとにトリム調整機能が働き表示に従い出力レベルが変化します。

**TO ENTER THE LEVEL TRIM ADJUSTMENT MODE.**

**LEVEL TRIM調整モード**

8. Set frequency of Oscillator to "1 kHz".  
Press **TONE** button (2nd). Whenever press the **TONE** button, the display changes as follows and output level changes according to the display.

8. 発振器の周波数を"1 kHz"にしてください。  
**TONE**ボタンを押します(2回目)。**TONE**ボタンを押すごとに下記のように表示が変わり、表示に従い出力レベルが変わります。

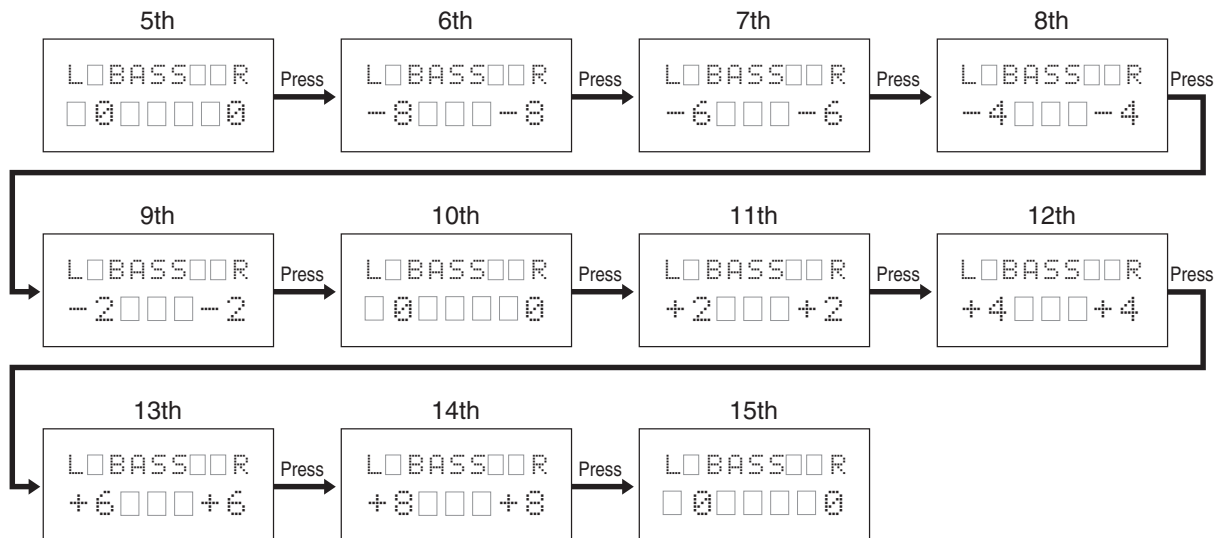


**TO ENTER THE BASS TRIM ADJUSTMENT MODE.**

**BASS TRIM調整モード**

9. Set frequency of Oscillator to "50 Hz".  
Press **TONE** button (5th). Whenever press the **TONE** button, the display changes as follows and output level changes according to the display.

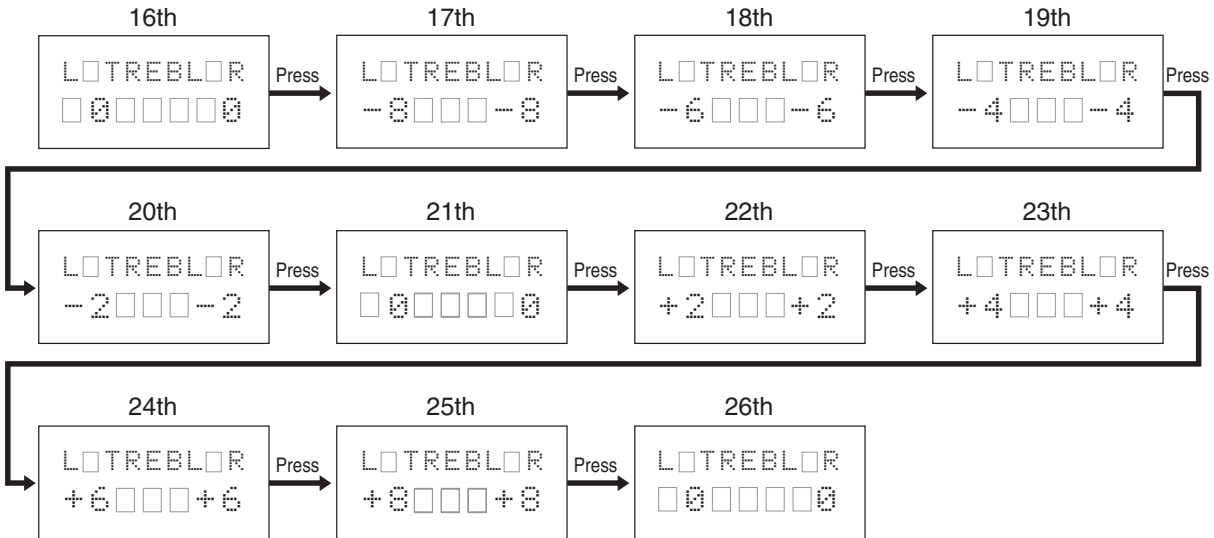
9. 発振器の周波数を"50 Hz"にしてください。  
**TONE**ボタンを押します(5回目)。**TONE**ボタンを押すごとに下記のように表示が変わり、表示に従い出力レベルが変わります。



**TO ENTER THE TREBLE TRIM ADJUSTMENT MODE.**

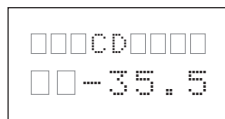
10. Set frequency of Oscillator to "30 kHz".

Press **TONE** button (16th). Whenever press the **TONE** button, the display changes as follows and output level changes according to the display.

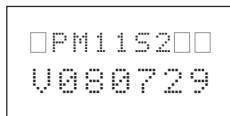


TRIM check mode is completed.

11. Press **DISPLAY** button, the display will be the following.



12. Press **DISPLAY** button, the display will be the following.



13. Turn off power to quit service mode.

Service mode can be ended if turn off power from every procedure.  
When into the Service Mode, the memory is cleared and the unit is initialized.

**TREBLE TRIM調整モード**

10. 発振器の周波数を"30 kHz"にしてください。

**TONE**ボタンを押します(16回目)。**TONE**ボタンを押すごとに下記のように表示が変わり、表示に従い出力レベルが変わります。

TRIMチェックモードは終了です。

11. **DISPLAY** ボタンを押します。下記の表示になります。

12. **DISPLAY** ボタンを押します。下記の表示になります。

13. **POWER ON/OFF** ボタンを押し、電源を切ります。サービスモードが解除されます。  
サービスモードはどの手順からも電源を切ると終了することができます。  
サービスモードを終了すると、本体の設定は全て出荷状態になります。



## Initial settings

CONTRAST : 0  
 ID No. : 0  
 SIDE ILLUMINATION : ON  
 LEVEL TRIM : 0.0 (L/R)  
 BASS TRIM : 0 (L/R)  
 TREBLE TRIM : 0 (L/R)  
 ATT : -20 dB  
 ATT : OFF  
 VOLUME : -∞

## 出荷状態内容

INPUT SELECTOR : CD  
 DISPLAY : ON  
 TONE : OFF  
 PHONO MC : OFF (MM)  
 PRE OUT : OFF  
 REC OUT : OFF  
 SPEAKER A : OFF  
 SPEAKER B : OFF

Be sure to set up manually.

MODE SW on Rear panel : **STEREO**,  
 POWER ON/OFF SW : **OFF**

必ず手動で設定すること。

MODE SW (リアパネル) : **STEREO**,  
 POWER ON/OFF SW : **OFF**

## SERIAL NUMBER CHECK MODE

- To enter the serial number check mode, press the **POWER ON/OFF** button with pressing the **TONE** and **PHONO MC** buttons to turn on the unit.
- The Serial number is displayed on the Front LCD.  
Turn off power to quit serial number check mode.

## シリアル番号の確認

- 本体の**TONE**ボタンと**PHONO MC**ボタンを押しながら**POWER ON/OFF**ボタンを押します。これでシリアル番号の確認モードに入ります。
- シリアル番号が表示されます。  
**POWER ON/OFF**ボタンを押し、電源を切るとシリアル番号の確認モードが解除されます。

20000730□
000001□

## ERROR MESSAGES

	Error	Contents	Measure
1	ERROR 02	The unit of ID No.2 overlaps.	ID number is changed into the ID No. not overlapping.
2	ERROR 03	The unit of ID No.3 overlaps.	
3	ERROR 04	The unit of ID No.4 overlaps.	
4	ERROR 11	The unit of ID No.2 to No.4 cannot communicate with the unit of ID No.1.	<ul style="list-style-type: none"> <li>If the unit ID number 1 is not turn on, turn on the unit ID No.1.</li> <li>Check the remote cable is connected correctly.</li> </ul>
5	ERROR 12	The unit of ID No.1 cannot communicate with the unit of ID No.2 to No.4	<ul style="list-style-type: none"> <li>ID No. is changed into ID No. not overlapping.</li> <li>Check the remote cable is connected correctly.</li> </ul>

## エラーメッセージ

	表示	内容	対策
1	ERROR 02	ID番号2のアンブが重複しています。	ID番号が重複しないようにID番号を設定してください。
2	ERROR 03	ID番号3のアンブが重複しています。	
3	ERROR 04	ID番号4のアンブが重複しています。	
4	ERROR 11	ID番号2~4のアンブがID番号1のアンブと通信できません。	<ul style="list-style-type: none"> <li>ID番号1のアンブに電源が入っていない場合は電源を入れてください。</li> <li>リモートケーブルが正しく接続されているか確認してください。</li> </ul>
5	ERROR 12	ID番号1のアンブがID番号2~4のアンブと通信できません。	<ul style="list-style-type: none"> <li>ID番号1のアンブが重複している場合はID番号を正しく設定してください。</li> <li>リモートケーブルが正しく接続されているか確認してください。</li> </ul>

## 5. PROTECTION MODE

Explanation of microprocessor (QU01) [PROT-1 (pin54) and PROT-2 (pin53)].

### [A] The PROT-1(pin54) 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), Q905 or Q906 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 (Q628, Q629, Q728, Q729).  
If an electric current of over 10A flows in Q628 or Q629, Q630, Q631 and Q908 turn on, and the signal from the PROT-1 terminal will change to L from H.  
If an electric current of over 10A flows in Q728 or Q729, Q730, Q731 and Q908 turn on, and the signal from the PROT-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 transistor (R659 and R759) will turn on Q907 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 (pin40) changing to L from H and the speaker relays L901 ~ L905 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 (pin54) recovers to "H" within as short a period of time as one second or less.  
The message "PROTECT" flashes on the display, thereby indicates that the protection circuit has come into operation and automatically turns down the volume. The protection circuit is deactivated after approximately 8 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 (pin54) remains L for more than one second.  
The amp will be powered off by the POW-1 (pin25) and POW-2 (pin24) changing to L from H and Power relay L852 and L853 turned off  
Then, the OPERATION 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.

## 5. PROTECTION動作について

マイコン(QU01)のPROT-1 (pin54) とPROT-2 (pin53)の説明。

### [A] PROT-1(pin54)は、パワーアンプの下記の異常動作を検出するポート

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Q905もしくはQ906がONして、PROT-1端子が "H→L" になる。
2. パワートランジスタ(Q628, Q629, Q728, Q729)の異常電流を検出。  
Q628もしくはQ629に約10Aを超える電流が流れるとQ630, Q631, Q908がONして、PROT-1端子が "H→L" になる。  
Q728もしくはQ729に約10Aを超える電流が流れるとQ730, Q731, Q908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℃を超えると、ポジスター (R659, R759)によってQ907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 (pin40) を "H→L" にして、即座にスピーカーリレー L901~L905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 (pin54)が1秒以内の短時間の間に "H" に復帰した場合。  
ディスプレイ部に"PROTECT"の文字が点滅し、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8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 (pin54)が1秒以上 "L" になっている場合。  
POW-1 (pin25)とPOW-2 (pin24) を "H→L" にして、電源リレー L852とL853 をOFFし、アンプの電源をシャットダウンします。  
このときOPERATEインジケータが点滅し、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て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 (pin54)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OPERATEインジケータが点滅します。  
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 (pin54) remains "L", which constitutes an abnormality, the unit shuts down approximately 3 seconds later and the OPERATION 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 (pin53) 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 +58V and -58V. If the voltage at the connection point of R809 and R810 exceeds DC  $\pm 1.2V$ , Q803 or Q804 will turn on to change the signal from the PROT-2 (pin53) to L from H.
2. Detection of an abnormality in the preamp power supply circuit.  
This port monitors the midpoint voltage between +30V and -30V. If the voltage at the connection point of R813 and R814 exceeds DC  $\pm 1.2V$ , Q805 or Q806 will turn on to change the signal from the PROT-2 (pin53) to L from H.
3. Detection of an abnormality in the function relay power supply circuit.  
If the +24VLB of the relay power supply receives an electric current of over 120mA, Q809 and Q805 will turn on to change the signal from the PORT-2 (pin53) to L from H.
4. The Fuse (F851) inside the SOFT START PWB (P851) blows, the signal from the PROT-2 (pin53) terminal will be changed to L from H.

If any of the above four abnormalities is detected, the signal from the POW-1 (pin25) and POW-2 (pin24) changing to L from H, the power relay L852 and L853 will be turned off and the unit will be shut down. Then, the OPERATE 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 shut s 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 (pin53) remains L after the power is switched on again, the unit will be shut down again three seconds later with the OPERATE 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 (pin53)は、電源回路の異常を検出するポート**

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+58V と-58Vの midpoint電圧を監視し、R809とR810の接続点の電圧が約  $\pm 1.2V$  (DC) を超えると、Q803もしくはQ804がONしてPROT-2 (pin53)が "H→L" になる。
2. プリアンプ用電源回路の異常を検出。  
プリアンプ用電源の +30V と -30V の midpoint電圧を監視し、R813とR814の接続点の電圧が約  $\pm 1.2V$  (DC) を超えると、Q805もしくはQ806がONしてPROT-2 (pin53)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+24VLB に約120mAを超える電流が流れると、Q809、Q805がONしてPROT-2(pin53)が "H→L" になる。
4. F851 FUSE (SOFT START PWB P851) が切れている場合、Q807がONし、PROT-2(pin53) が "H→L" になる。

1.~4.のいずれかの異常を検出すると、POW-1 (pin25)と POW-2 (pin24)を "H→L" にして、電源リレー L852とL853 を OFFしシャットダウンします。このときOPERATEインジケータが点滅し、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 (pin53)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OPERATEインジケータが点滅します。

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。

## 6. UPDATE FIRMWARE

### [A] SOFTWARE DOWNLOADS AND INSTALLS PROCEDURE

#### [A-1] DOWNLOADS OF THE SOFTWARE

(Flash Development Toolkit: the rest is FDT)

Download the software for update/write-in of the microprocessor.

1. Launch the browser.
2. Type the "http://www.renesas.com/" into an address. And click the **Go** or press the **Enter** on keyboard of PC.

**NOTE :** This site is managed by RENESAS. The following explanation may differ from the actual composition. When different, please proceed along with the site composition of RENESAS.

3. Click the **GLOBAL SITE**.

## 6. UPDATE FIRMWARE

### [A] SOFTWARE DOWNLOADS AND INSTALLS PROCEDURE

#### [A-1] DOWNLOADS OF THE SOFTWARE

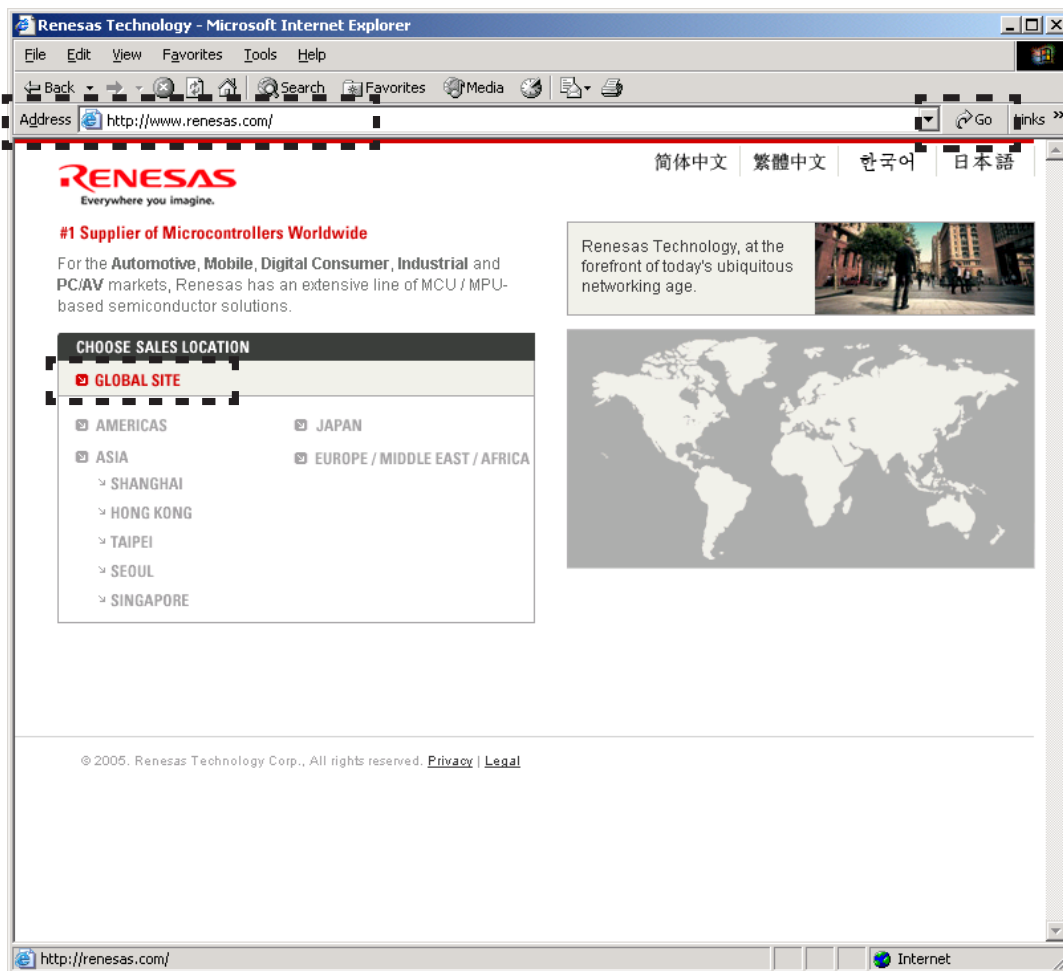
(Flash Development Toolkit: 以下 FDT)

マイコンの書き込み用ソフトウェア(FDT)をダウンロードします。

1. ブラウザ(インターネットエクスプローラーなど)を立ち上げます。
2. ブラウザのアドレスに"http://www.renesas.com/"を入力し、**移動**、またはキーボードの**Enter**を押します。

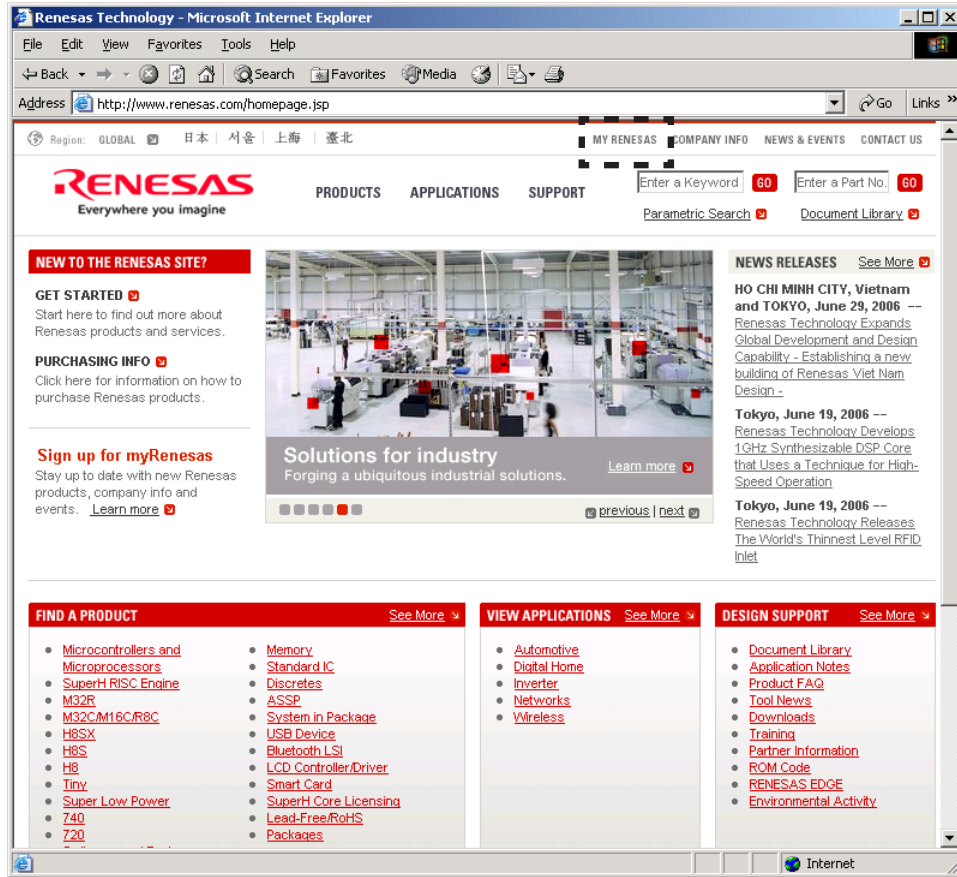
**注意 :** このサイトはRENESASが管理しているため、以下の説明が実際のサイト構成と異なっている場合があります。その場合は実際のRENESASのサイト構成に沿って進めてください。

3. **GLOBAL SITE**をクリックします。



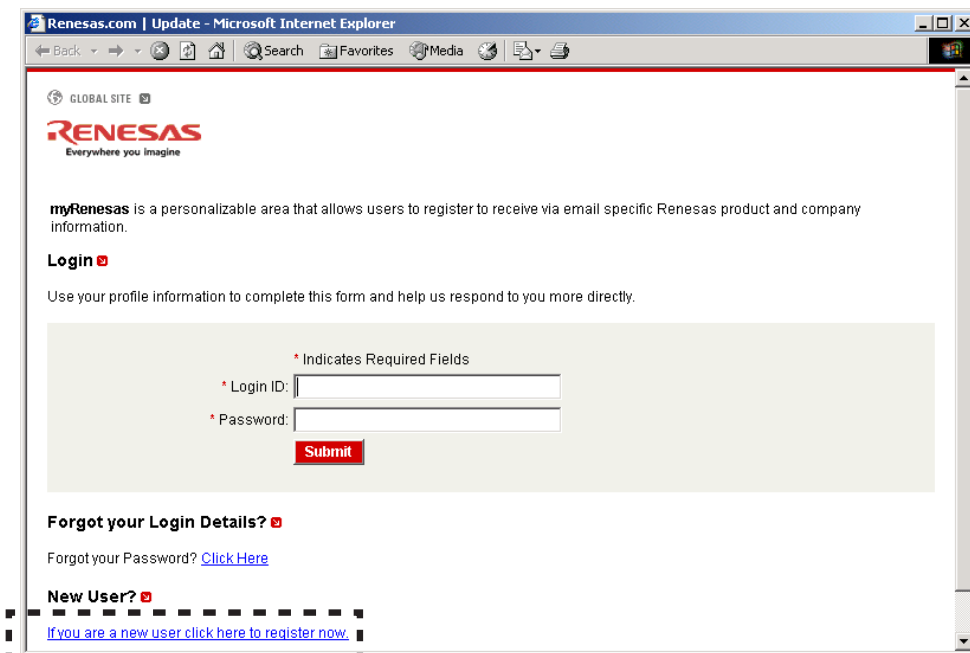
4. A login ID is necessary to download the FDT.  
If you have Login ID, please advance to step 15.  
If you do not have Login ID, Click the **MY RENESAS**.

4. FDTのダウンロードにはLogin IDが必要になります。  
既にLogin IDを持っている方は手順の15へ進んでください。  
Login IDを持っていない方は**MY RENESAS**をクリックします。

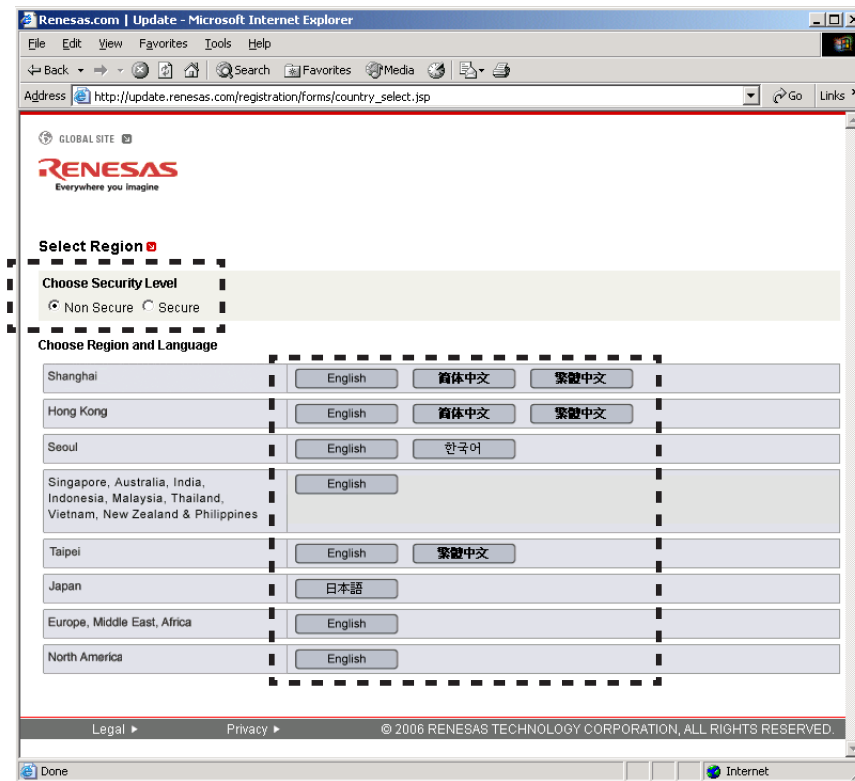


5. Click the **If you are a new user click here to register now**.

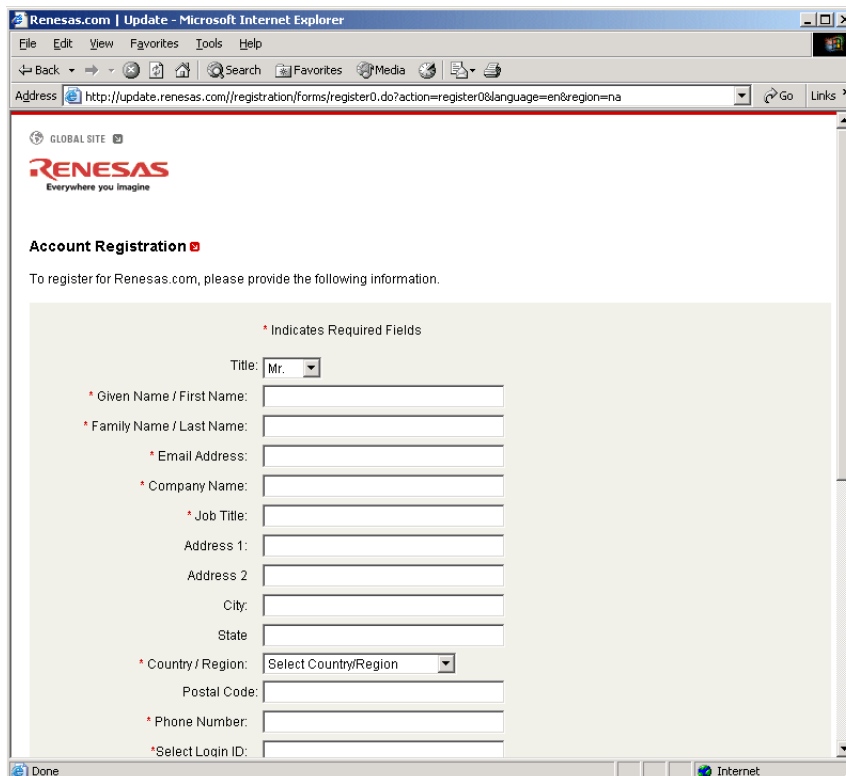
5. **If you are a new user click here to register now**をクリックします。



6. Choose **Non Secure** or **Secure** in Security Level at your network environment. Choose **English** or **another one** in Region and Language.
6. PCのネットワーク環境によりChoose Security Levelから**Non Secure**, または**Secure**を選んでください。Choose Region and Languageから日本語をクリックします。



7. Input the each item.
- NOTE :** The items displayed by a language and region are different.
7. 各項目を記入します。
- 注意 :** 下記説明は英語ですが、日本語を選んだ場合日本語で表示されます。



8. If you have inputted the necessary items, check the **I Agree**, and click the **Submit**.

8. 必須項目を入力したならば、**同意します**にチェックを入れ、**送信**をクリックします。

City:   
State:   
\* Country / Region:   
Postal Code:   
\* Phone Number:   
\* Select Login ID:   
\* Select Password:   
\* Password (confirm):   
\* Password Hint:   
\* Answer:   
 Do not supply my information to authorized distributors.  
 Renesas may use the e-mail address I have provided above to send me marketing promotions and news updates.  
 Renesas Sales can contact me.  
**Registration Agreement**  
Do you allow Renesas to process and store the information you submit in accordance with the Renesas Privacy Policy? [Click Here](#)  
 I Disagree  I Agree  
**Submit**  
TRUSTe  
© 2006 RENESAS TECHNOLOGY CORPORATION, ALL RIGHTS RESERVED.

9. The input is needless in this page. Scroll down the page.

9. このページは入力しなくても結構です。ページをスクロールダウンします。

GLOBAL SITE  
**RENESAS**  
Everywhere you imagine  
**Content Subscription**  
Select a set of products and add them to your subscription list using the pull downs below. Select "ALL" in a pull down to subscribe to all newsletters related to a topic. Select "NONE" to subscribe to high-level information about a topic only.  
Category:   
Family:   
Series:   
Group:  **Add**  
**Subscribed Products**  

Category	Family	Series	Group
Empty			

**Applications / System Solutions**  
 Digital Home Electronics  
 Automotive  
 Network  
 Wireless

10. Click the **Submit**.

10. 送信をクリックします。

Category: Select product\_category

Family: [Dropdown]

Series: [Dropdown]

Group: [Dropdown] **Add**

**Subscribed Products**

Category	Family	Series	Group
Empty			

**Applications / System Solutions**

Digital Home Electronics

Automotive

Network

Wireless

**Other**

News and Events

Press Releases

**Submit**

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11. Immediately, an E-mail arrives from the RENESAS.  
Click the link in the E-mail to go to the registration site,  
and input the Login ID and Password.  
And Click the **Submit**.

11. 直ちに、RENESASからE-mailが届きます。  
E-mail内に有る登録サイトへのリンクをクリックします。  
Login IDとPasswordを入力し**Submit**をクリックします。

GLOBAL SITE

**RENESAS**  
Everywhere you Imagine

**Login**

Please login to proceed Download Process.

\* Indicates Required Fields

\* Login ID: [Input Field]

Password: [Input Field]

**Submit**

**Forgot your Login Details?**

Forgot your Password? [Click Here](#)

**New User?**

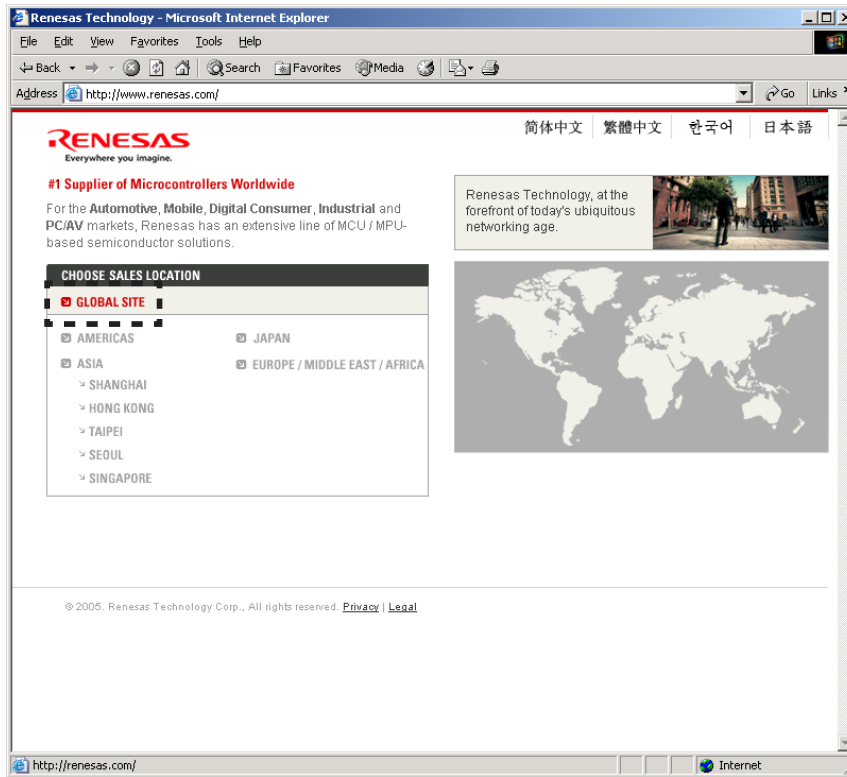
[If you are a new user click here to register now.](#)

Legal Privacy © 2006 RENESAS TECHNOLOGY CORPORATION, ALL RIGHTS RESERVED.



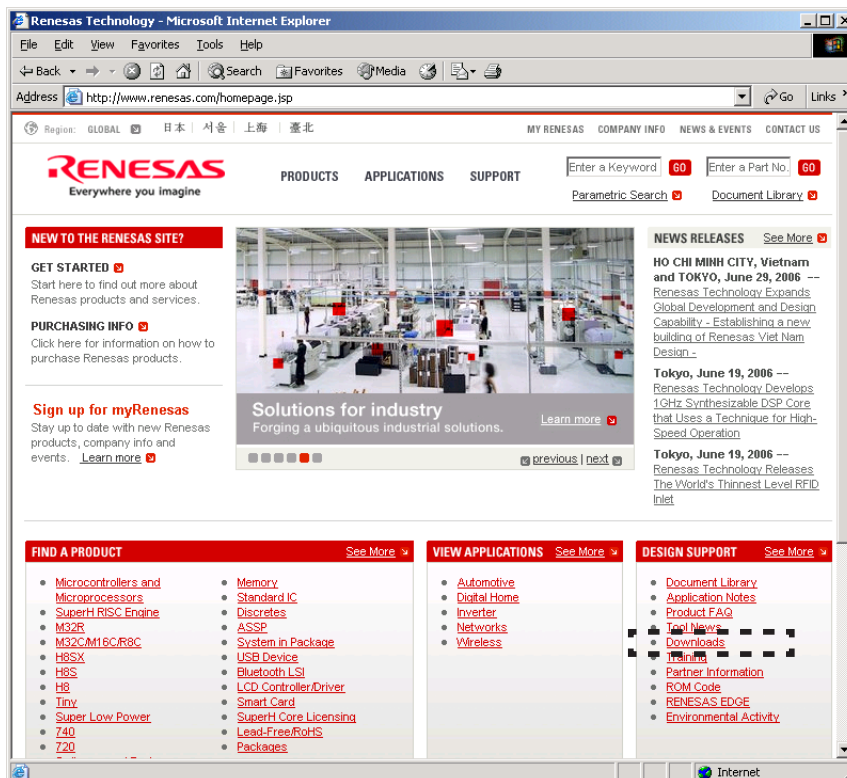
12. Registration is finished.
13. Open the RENESAS top page from registration page.
14. Click the **GLOBAL SITE**.

12. 登録が完了します。
13. 登録ページに有るリンクからRENESASのトップページに移動します。
14. **GLOBAL SITE**をクリックします。



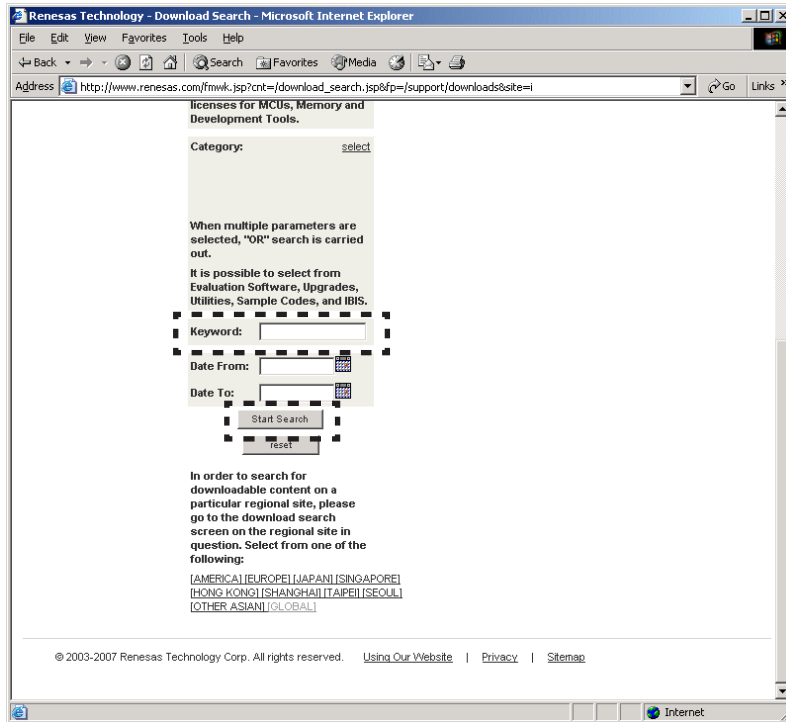
15. Click the **Downloads** in the DESIGN SUPPORT.

15. DESIGN SUPPORT内の**Downloads**をクリックします。



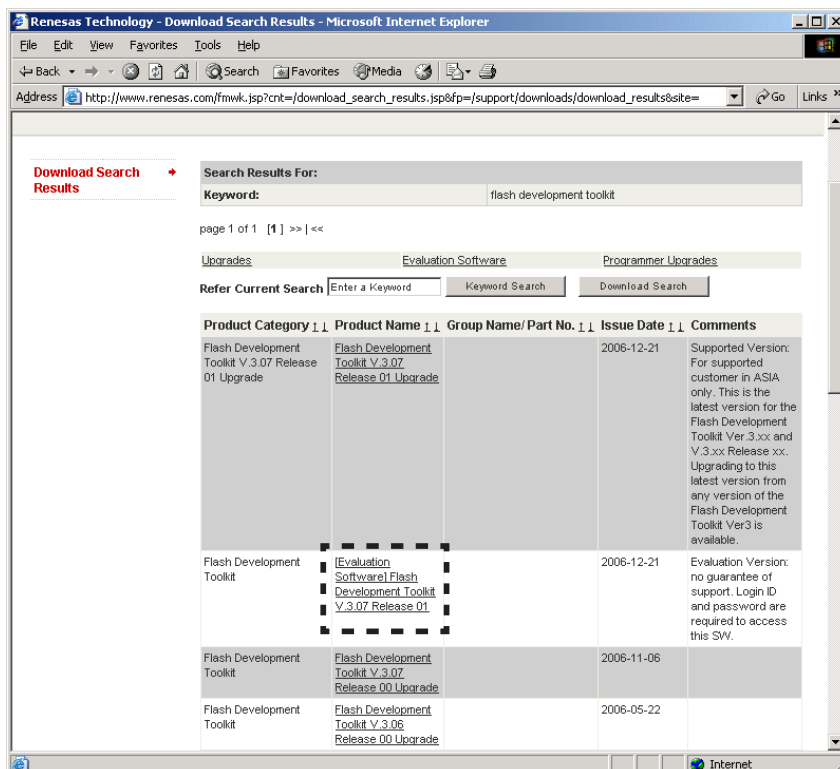
16. Scroll down the page, and type the "Flash Development toolkit" into the Keyword.  
And click the **Start Search**.

16. ページをスクロールダウンし、Keywordに"Flash Development toolkit"を入力します。  
**Start Search**をクリックします。



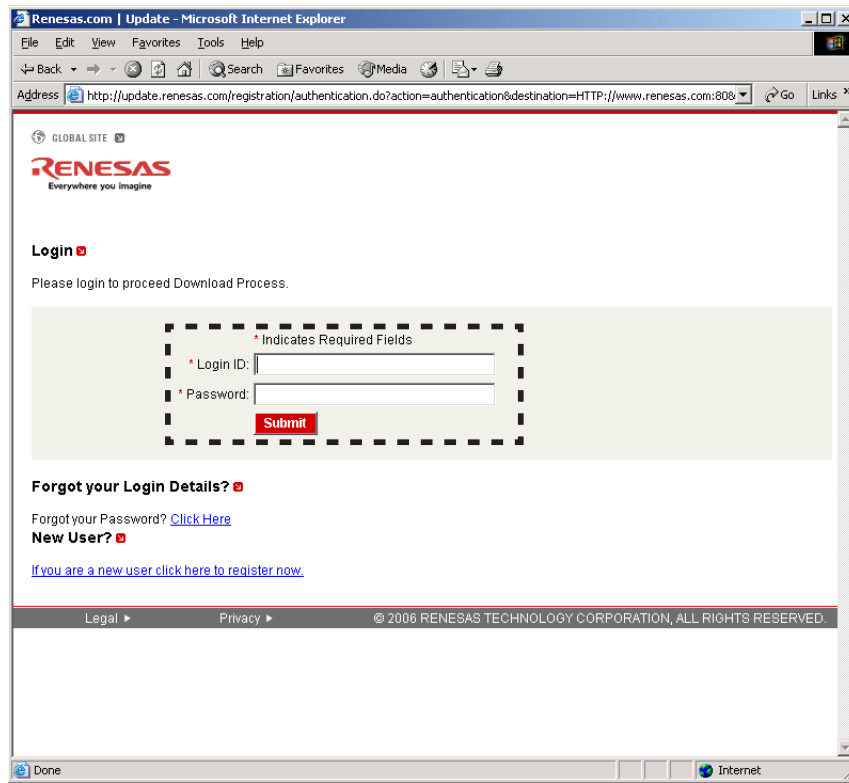
17. Click the **latest Flash Development Toolkit V3.xx** in the table. **But DO NOT click the upgrade version because installation fails.**  
**NOTE :** The latest edition is FDT V3.07 Release 01 at February, 2007. It is in FDT V3.07 Release 01 as follows and explains it.

17. 検索結果の中から**最新のFlash Development Toolkit V3.xx**をクリックします。アップグレード版はインストールに失敗するのでクリックしないでください。  
**注意 :** 2007年2月の最新バージョンはV3.07 Release 01になります。以下FDT V3.07 Release 01で説明します。



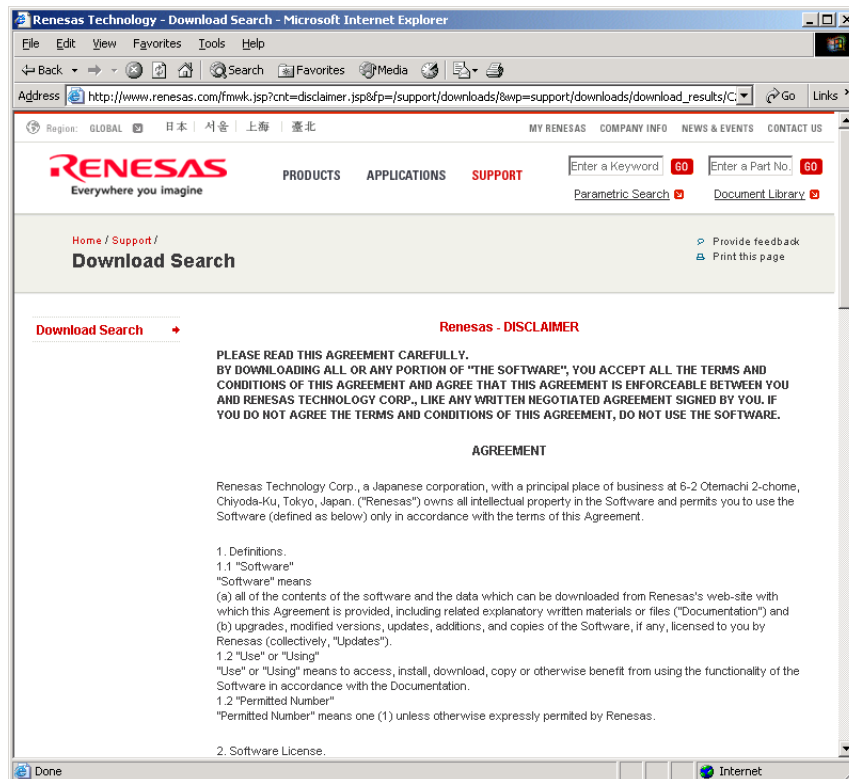
18. Input the Login ID and Password.  
And click the **Submit**.

18. ダウンロードするためにLogin IDとPasswordを入力します。  
**Submit**をクリックします。



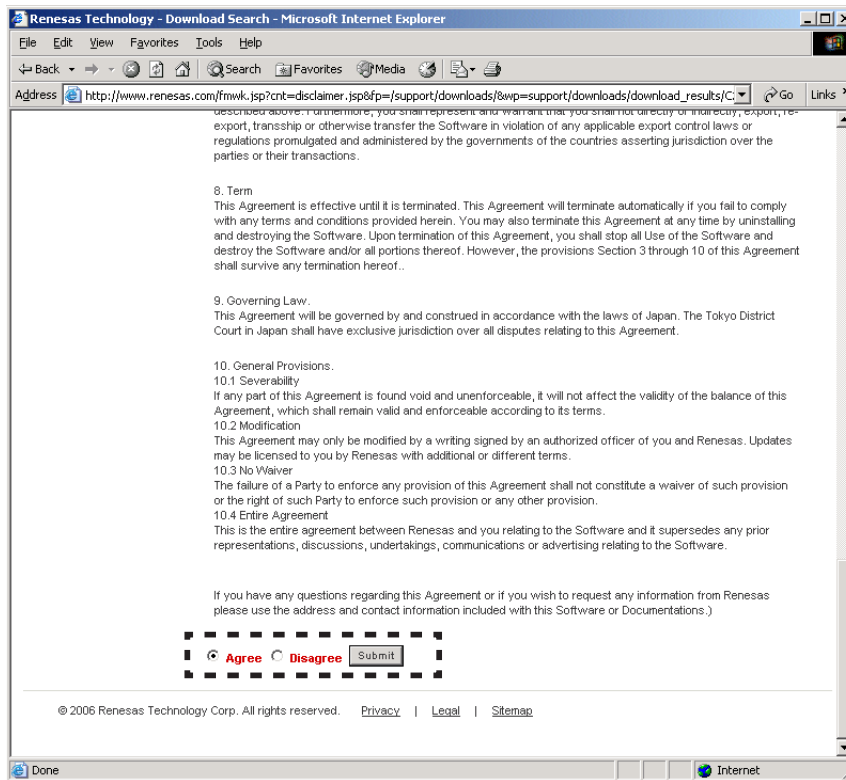
19. Scroll down the page.

19. ページをスクロールダウンします。



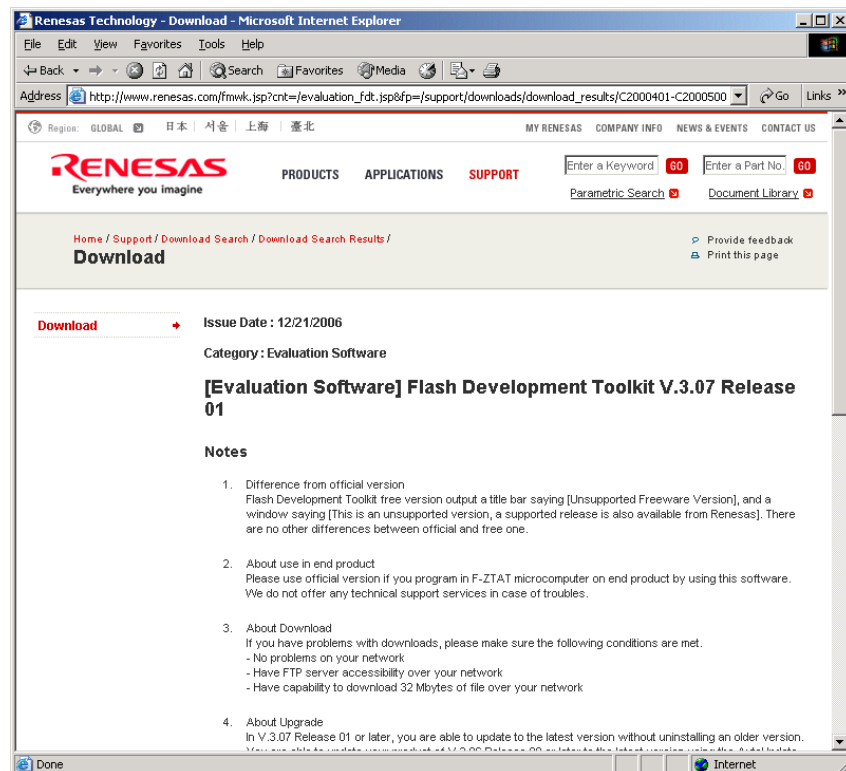
20. Check the **Agree**, and click the **Submit**.

20. **Agree**にチェックを入れ、**Submit**をクリックします。



21. Scroll down the page.

21. ページをスクロールダウンします。



22. Click the **Download**.

22. **Download**をクリックします。

if you uninstall the Flash Development Toolkit V.3.07 through the Add/Remove Programs dialog box in Windows' Control Panel, the AutoUpdate Utility may not operate properly.  
For details, see [RENESAS TOOL NEWS](#).

[Available MCUs for Flash Development Toolkit Ver3.x and V3.xx Releasexx](#)


### Installation Methods after Downloading

- When executing the downloaded file in a directory, the installer is automatically executed.(Make sure the drive of the directory used for executing has enough capacity.)
- Follow the instructions indicated by the installer.
- In case of MS-Windows XP, 2000 and NT4.0, make sure that installer is executed by one who is authorized as an Administrator. No one but the user who has the authority of an Administrator can install this tool.

### Comments

Be note that this software is evaluation version with no technical support service.

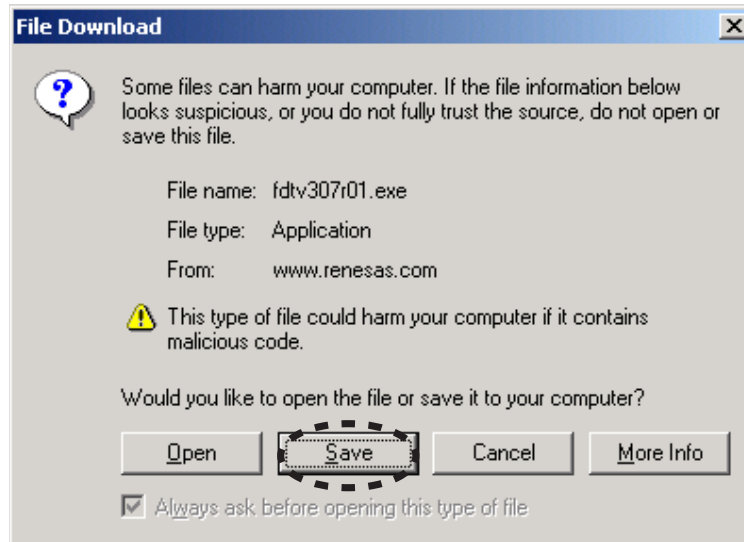
### Download

Product Name	File Name	File Size	Download Link
[Evaluation Software] Flash Development Toolkit V.3.07 Release 01	fdtv307r01.exe	30,902,160 bytes (29.47 Mbytes)	

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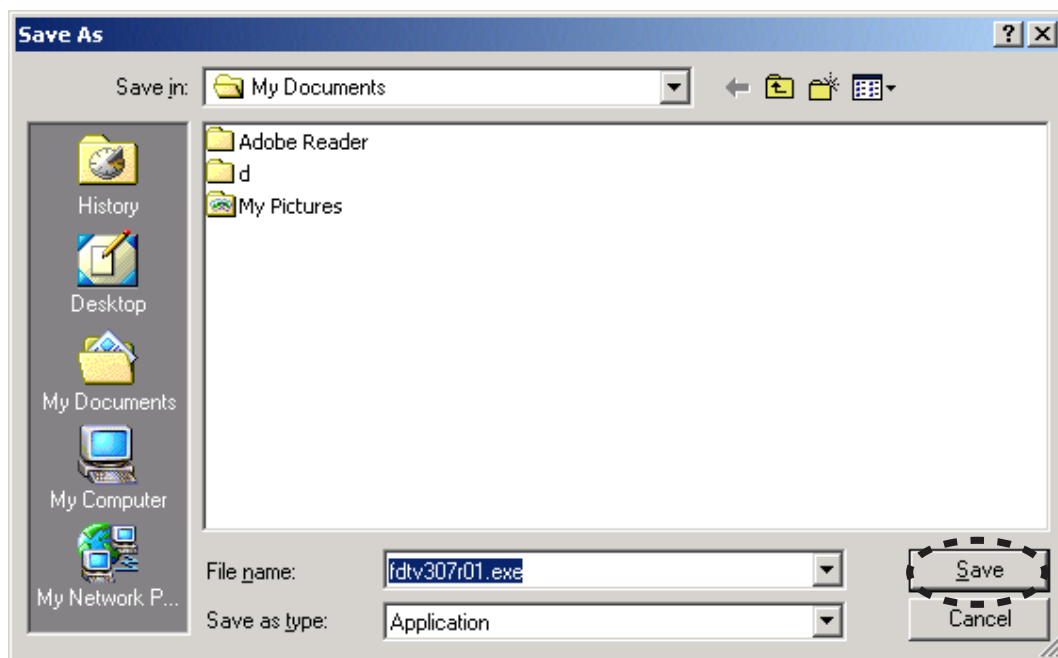
23. Click the **Save**.

23. **Save**をクリックします。



24. Save the fdtv307r01.exe on your PC's hard disc.  
**NOTE** : A file name is change by improvement.

24. fdtv307r01.exeを任意のフォルダに保存します。  
**注意** : ファイル名はバージョンにより変わります。

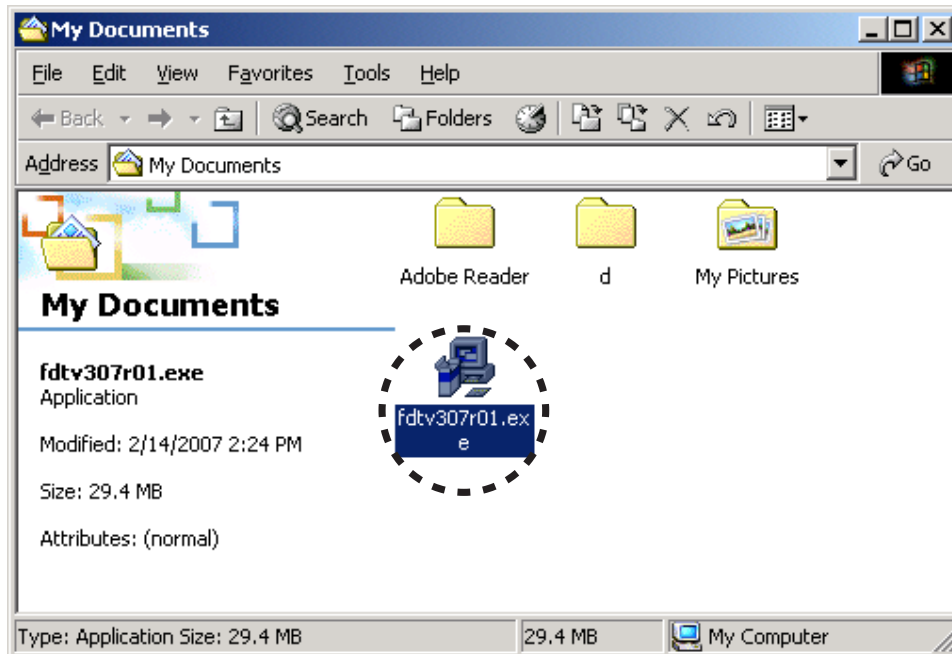


**[A-2] INSTALLS OF THE SOFTWARE  
(Flash Development Toolkit Ver.3.07)**

1. Open the folder with the downloaded file.
2. And double click the **fdtv307r01.exe**.

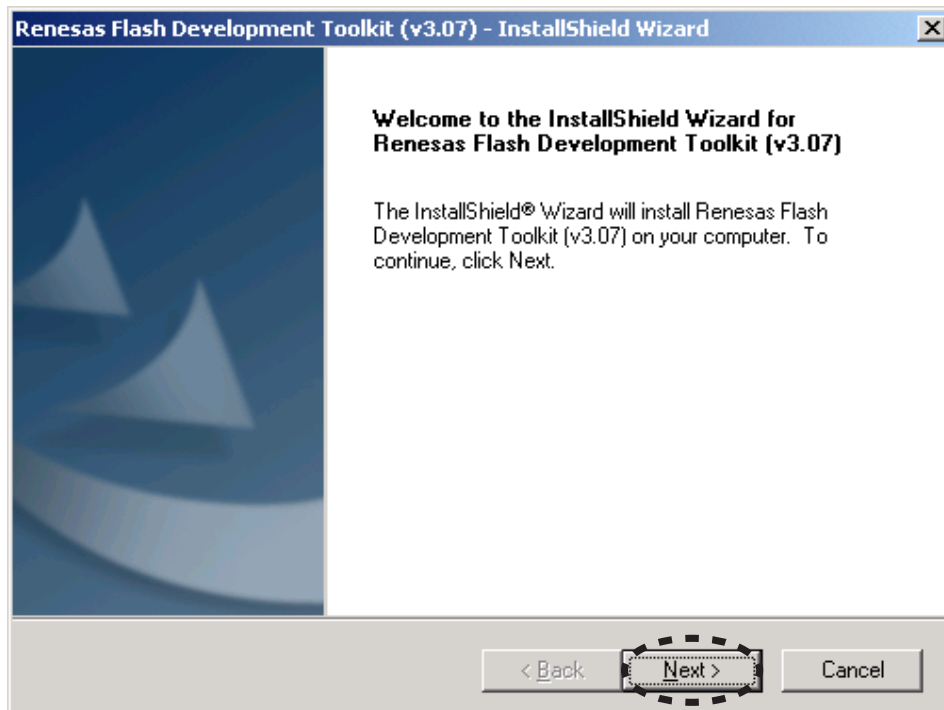
**[A-2] INSTALLS OF THE SOFTWARE  
(Flash Development Toolkit Ver.3.07)**

1. ダウンロードしたファイルのあるフォルダを開きます。
2. **fdtv307r01.exe**をダブルクリックします。

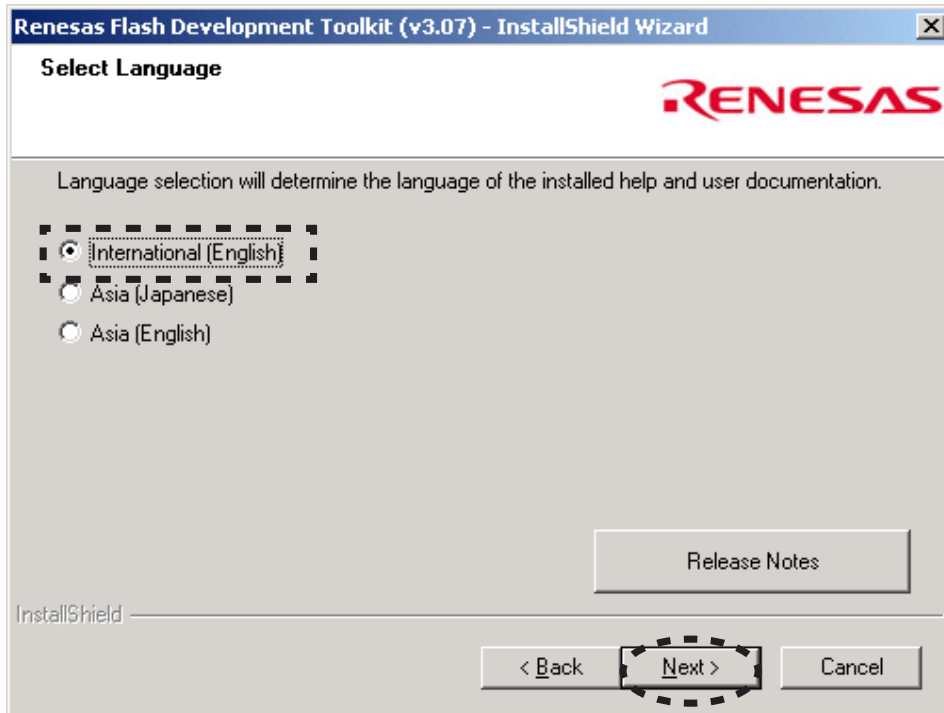


3. Click the **Next**.

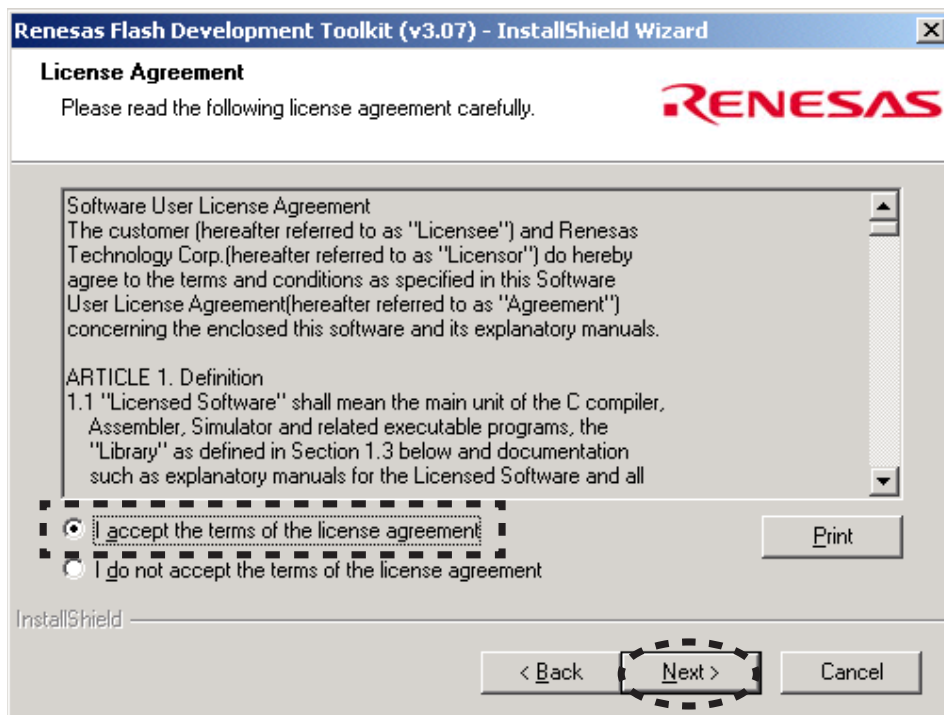
3. **Next**をクリックします。



4. Check the **International [English]**, and click the **Next**.      4. **International [English]**にチェックを入れ**Next**をクリックします。



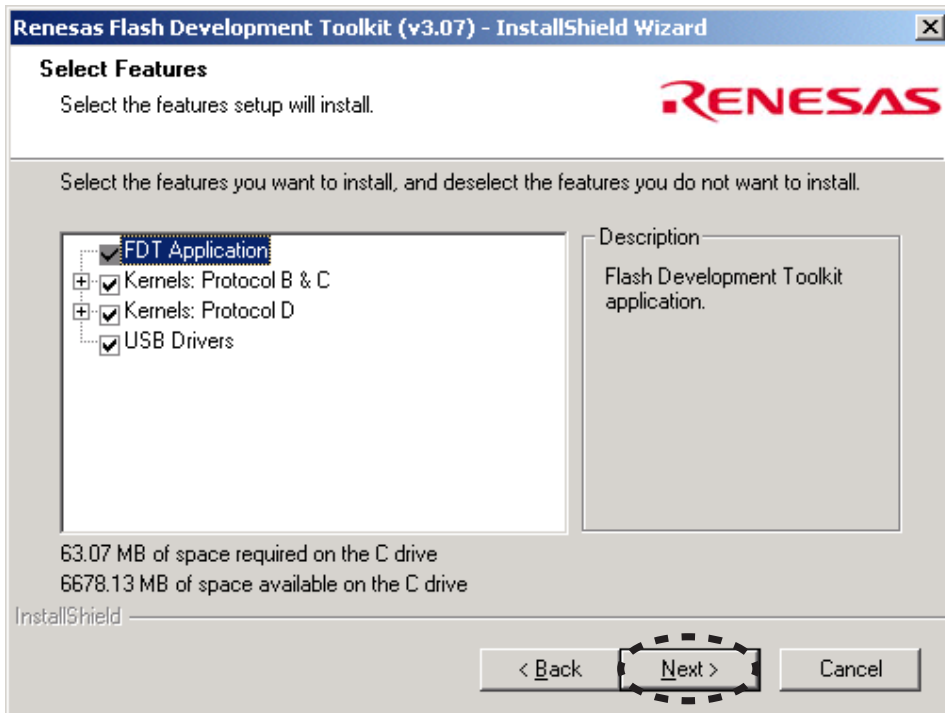
5. Check the **I accept the terms of the license agreement**, and Click the **Next**.      5. **I accept the terms of the license agreement**にチェックを入れ、**Next**をクリックします。





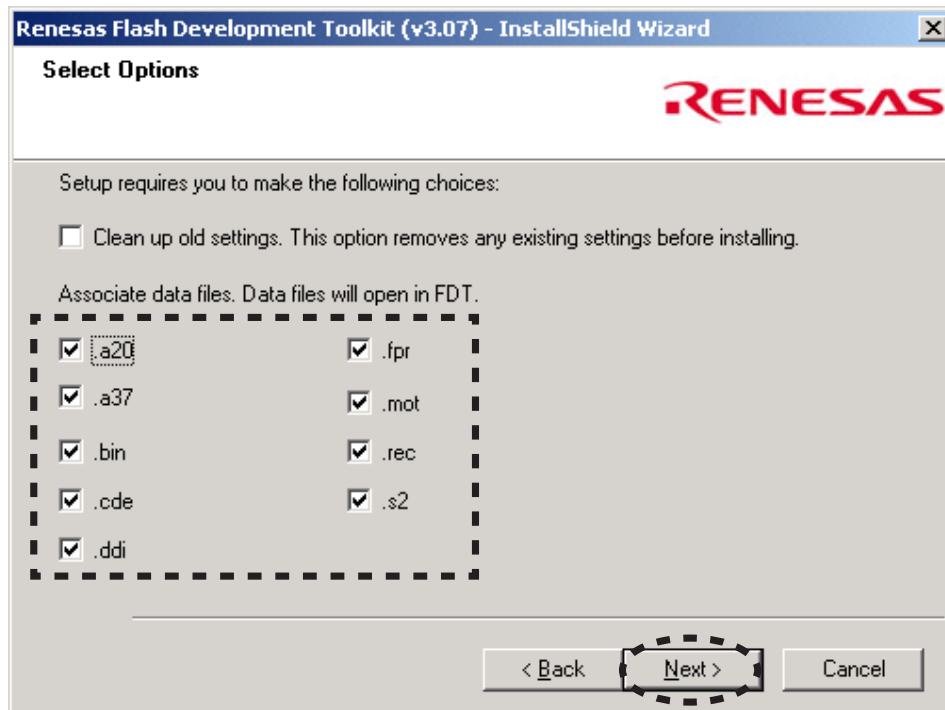
6 Click the **Next**.

6. **Next**をクリックします。



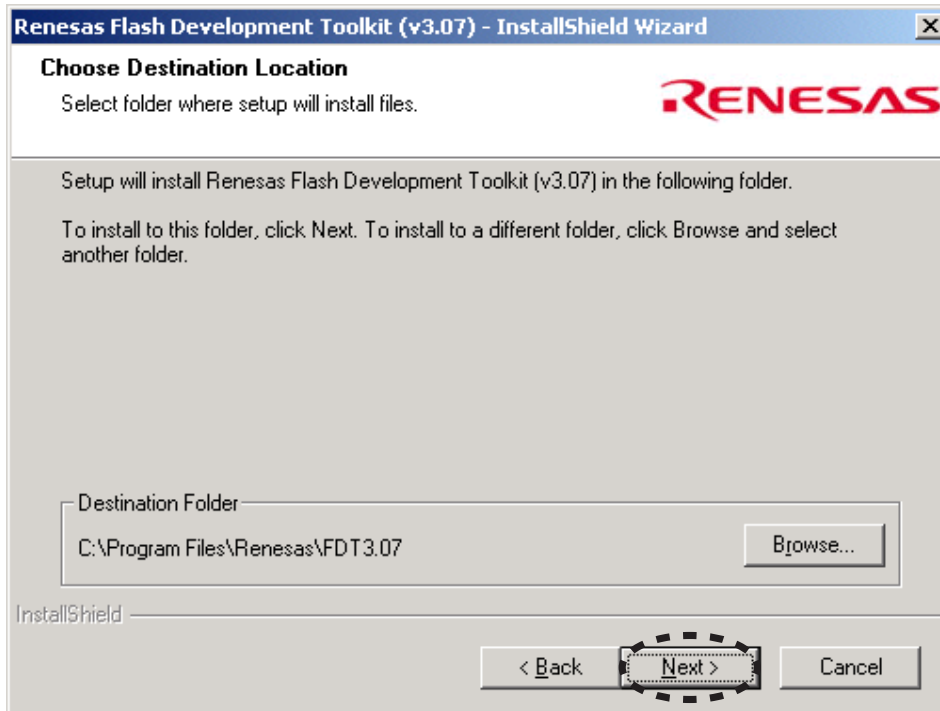
7. Check the all file type, and Click the **Next**.

7. 全てのファイルタイプにチェックを入れ、**Next**をクリックします。



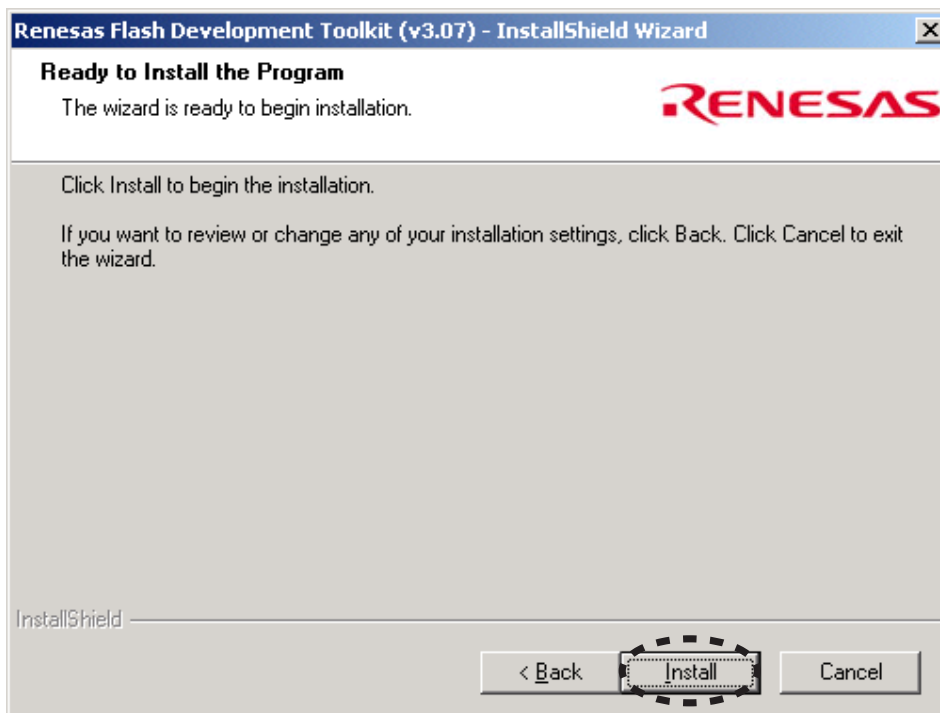
8. Click the **Next**.

8. **Next**をクリックします。



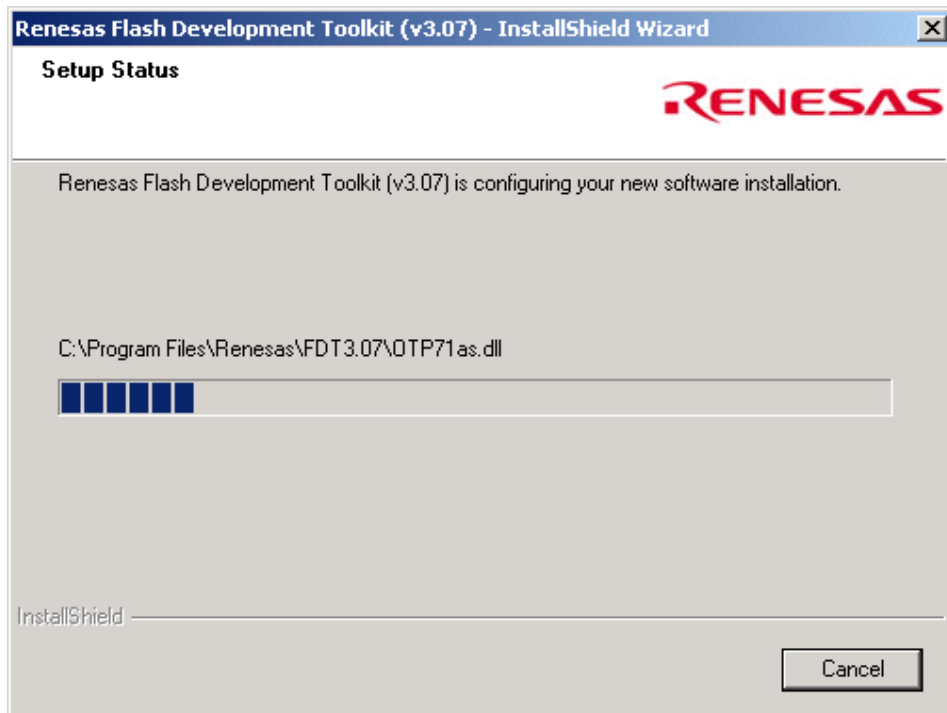
9. Click the **Install**.

9. **Install**をクリックします。



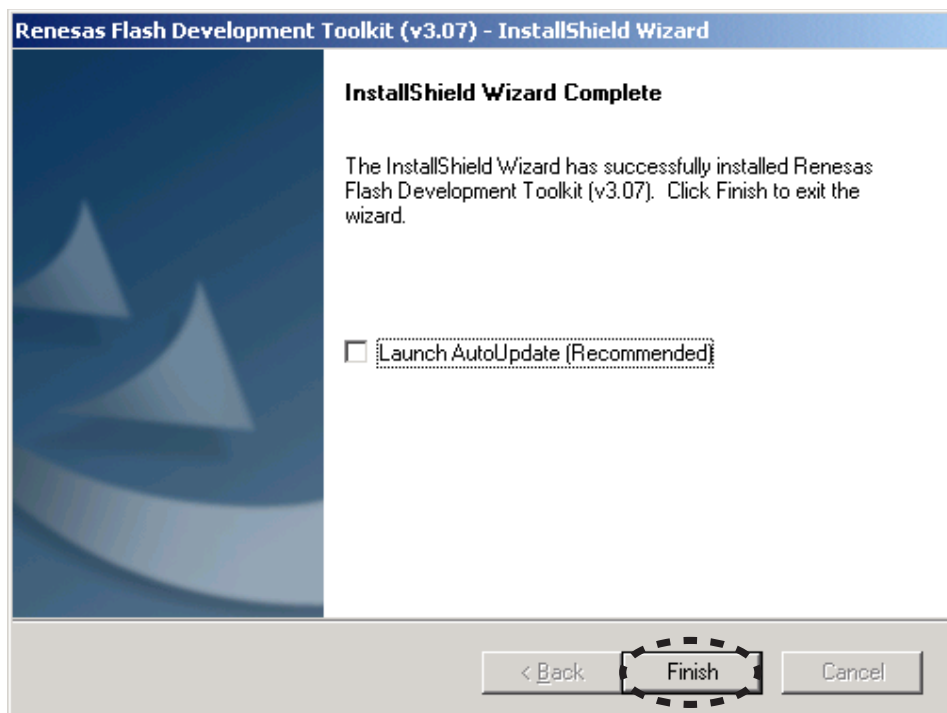
10. The Setup Status bar appears.

10. インストールの状態が表示されます。



11. Un-Check the Launch AutoUpdate, and click the **Finish**.

11. 11. Launch AutoUpdateのチェックを外し、**Finish**をクリックします。



## [B] WRITING AND UPDATE SOFTWARE

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

Software for microprocessor (QU01) can be updated/downloaded.

Have update/download application software. ("fdtv307r01.exe (FDT3.07 Release 01) or latest version")

### Update/Download microprocessor's software to internal Flash-ROM.

- This mode is to update/download the software for microprocessor.
- The target device is internal flash ROM of microprocessor (QU01) on U-COM PWB (PD01).
- The updating/downloading of software takes about 30 seconds.

### NECESSARY EQUIPMENT

The following items are required for updating/downloading.

- Windows PC (OS: Windows2000 or WindowsXP) with Serial port.
- RS-232C Dsub-9 pin cable (female to female/straight type).
- Writing data. P/N : 00M04AJ499G00 (PM-11S2\_vyymmdd.mot)  
**NOTE :** G00 is a revision number. The latest revision is G00 at present.  
The yy is two digits of year. The mm is month.  
The dd is date.
- Flash Development Toolkit 3.07 or latest version V3.xx. (fdtv307r01.exe or latest version)
- Connection JIG. (90M-PM11S1JIG)

## [B] WRITING AND UPDATE SOFTWARE

メインマイコン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。

メインマイコンのソフトウェアは更新、および書き込みが出来ます。

更新および書き込みには書き込み用アプリケーションが必要です。 ("fdtv307r01.exe (FDT3.07 Release 01)または最新版")

### Update/Download microprocessor's software to internal Flash-ROM.

- このモードはMAINマイコンの更新および書き込み用です。
- U-COM基板(PD01)のQU01のマイコン内部のフラッシュROMに書き込みます。
- 書き込みにかかる時間は約30秒です。

### 必要機器

下記は更新および書き込みに必要な機器です。

- Windows PC (OS : Windows2000 またはWindowsXP) で Serial ポートのあるもの。
- RS-232C ストレートケーブル(9Pin メス-9Pin メス)。
- 書き込み用データ。P/N : 00M04AJ499G00 (PM-11S2\_vyymmdd.mot)  
**注意 :** G00はリリース番号。最新リリース番号はG00です。  
yyは年の下二桁、mmは月、ddは日
- Flash Development Toolkit 3.07または最新版 V3.xx. (fdtv307r01.exeまたは最新版)
- 接続治具(90M-PM11S1JIG)。

**[B-1] Update/Download microprocessor's software to internal Flash-ROM.**

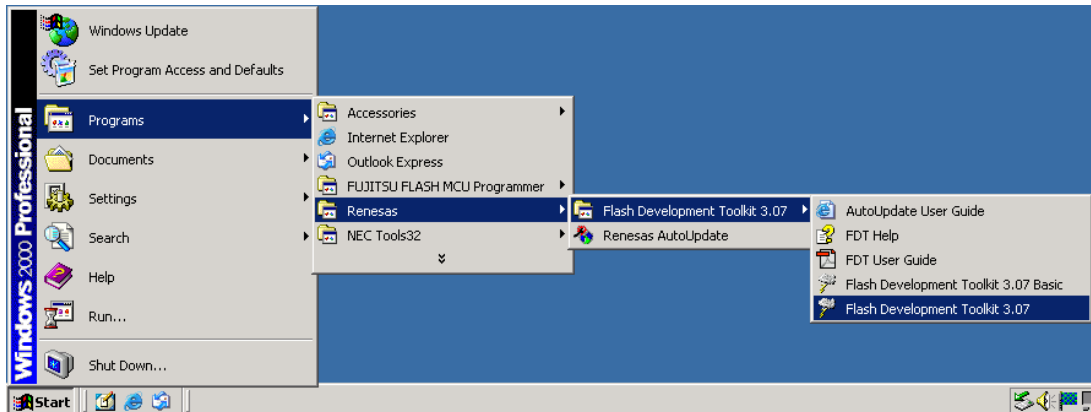
**[B-1-1] The writing software setup procedure**

1. Launch the Flash Development Toolkit v3.07 (FDT).  
**NOTE :** Please refer to "[A] SOFTWARE DOWNLOAD AND INSTALL PROCEDURE", when you do not have FDT.
2. Click **Start, Programs, Renesas, Flash Development Toolkit 3.07** and **Flash Development Toolkit 3.07**.

**[B-1] Update/Download microprocessor's software to internal Flash-ROM.**

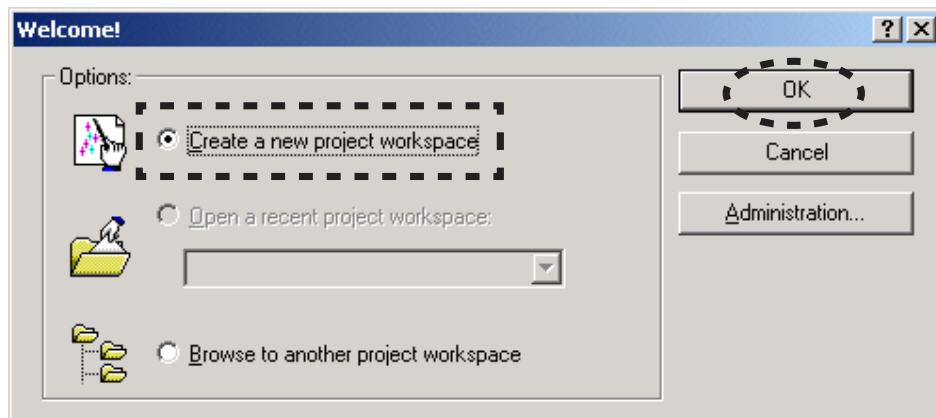
**[B-1-1] The writing software setup procedure**

1. Flash Development Toolkit v3.07 (FDT)を起動します。  
**注意 :** FDTを持っていない方は"[A] SOFTWARE DOWNLOAD AND INSTALL PROCEDURE"を参照してダウンロードしてください。
2. **Start, Programs, Renesas, Flash Development Toolkit 3.07, Flash Development Toolkit 3.07**をクリックします。



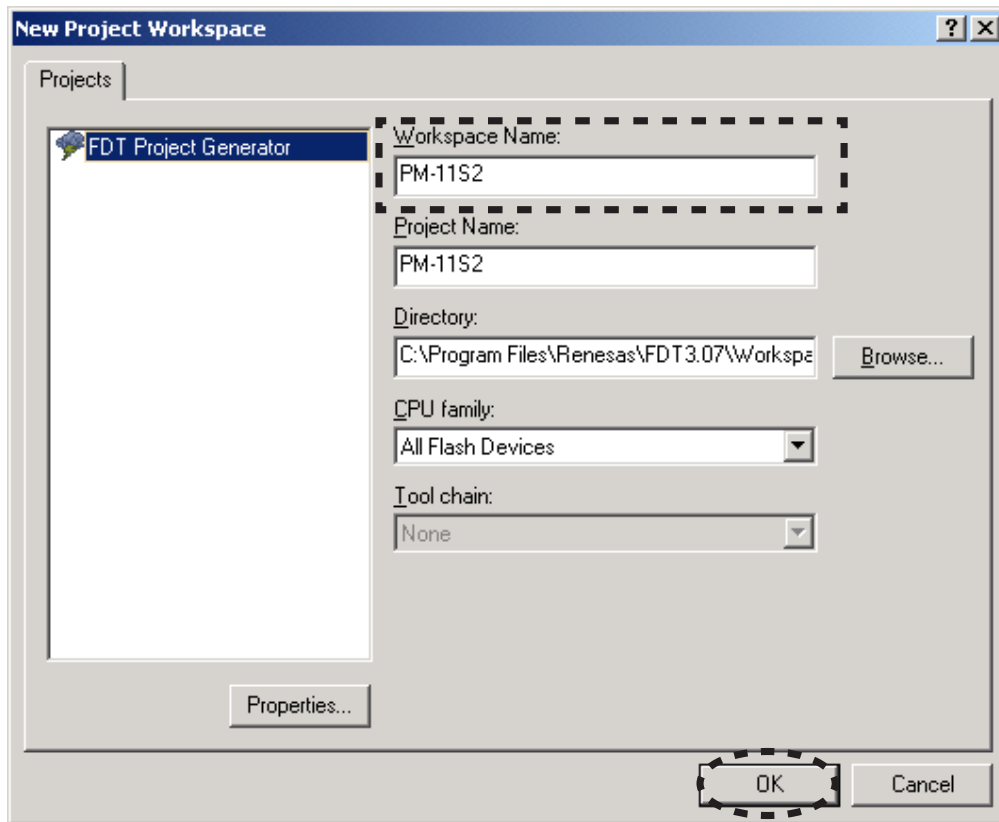
3. Check the **Create a new project workspace**, and click the **OK**.  
**NOTE :** It needs setup for PM-11S2. When you have already setup, please advance to "[B-1-2] Writing Procedure for microprocessor".

3. **Create a new project workspace**をチェックし、**OK**をクリックします。  
**注意 :** PM-11S2用の設定が必要です。既に設定が終わっている方は"[B-1-2] Writing Procedure for microprocessor"へ進んでください。



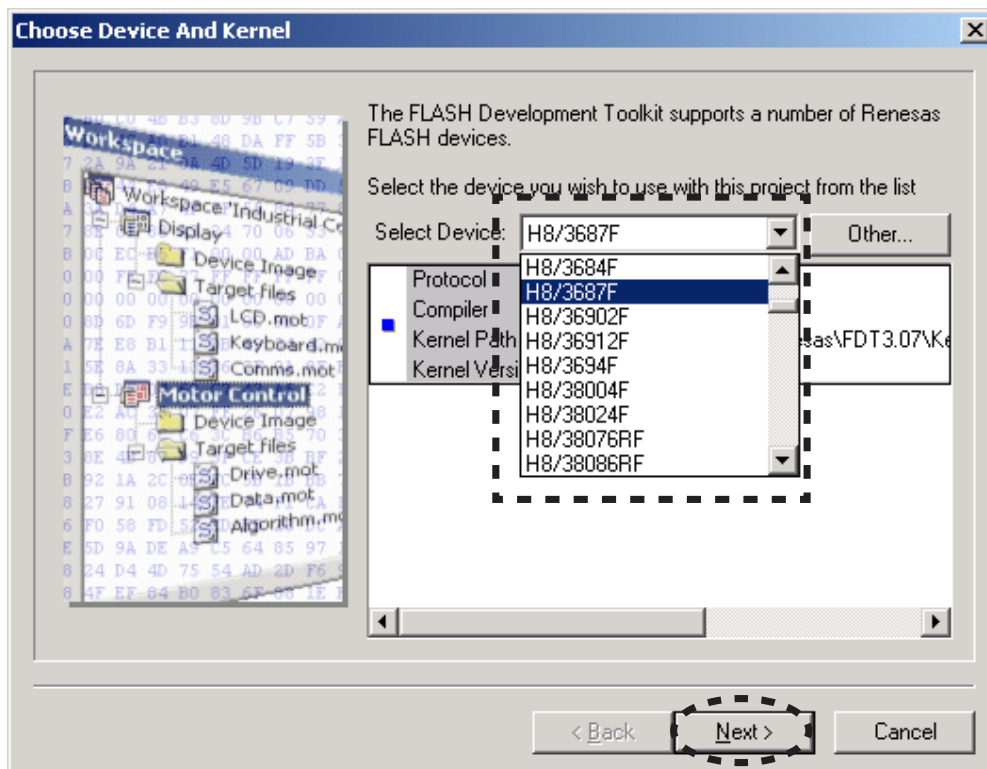
4. **PM-11S2** is inputted into the Workspace Name.  
(It is simultaneously inputted into Project Name.)  
Click the **OK**.

4. Workspace Nameに**PM-11S2**を入力します。  
(同時にProject Nameにも入力されます)  
**OK**をクリックします。

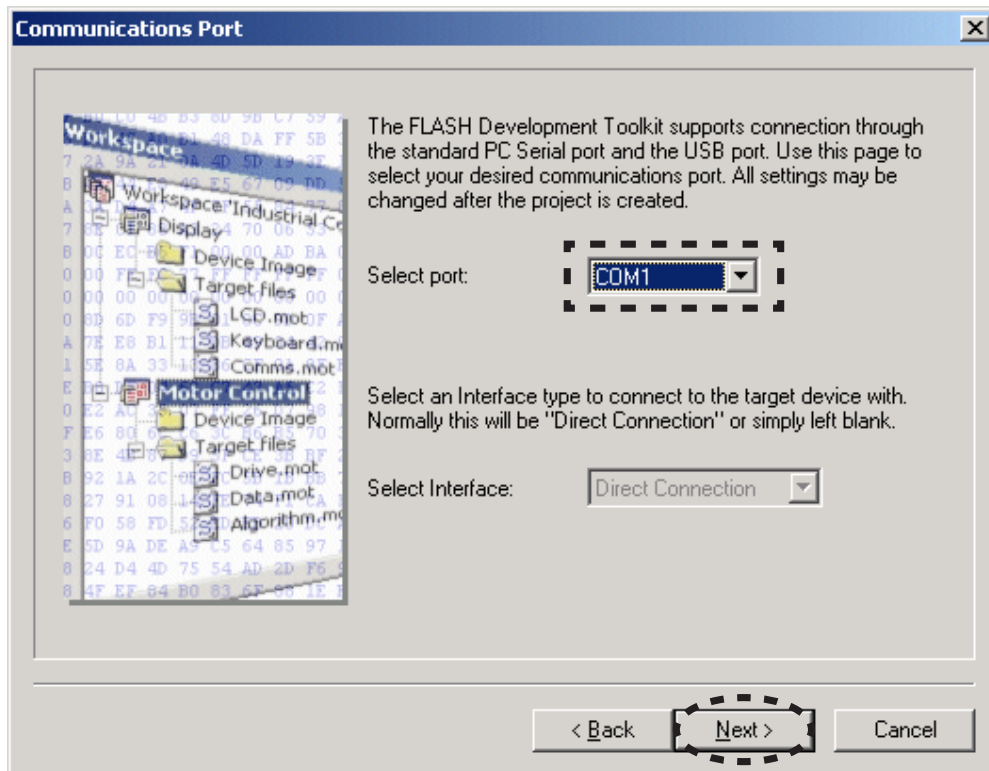


5. Choose the **H8/3687F** in Select Device. And click the **Next**.

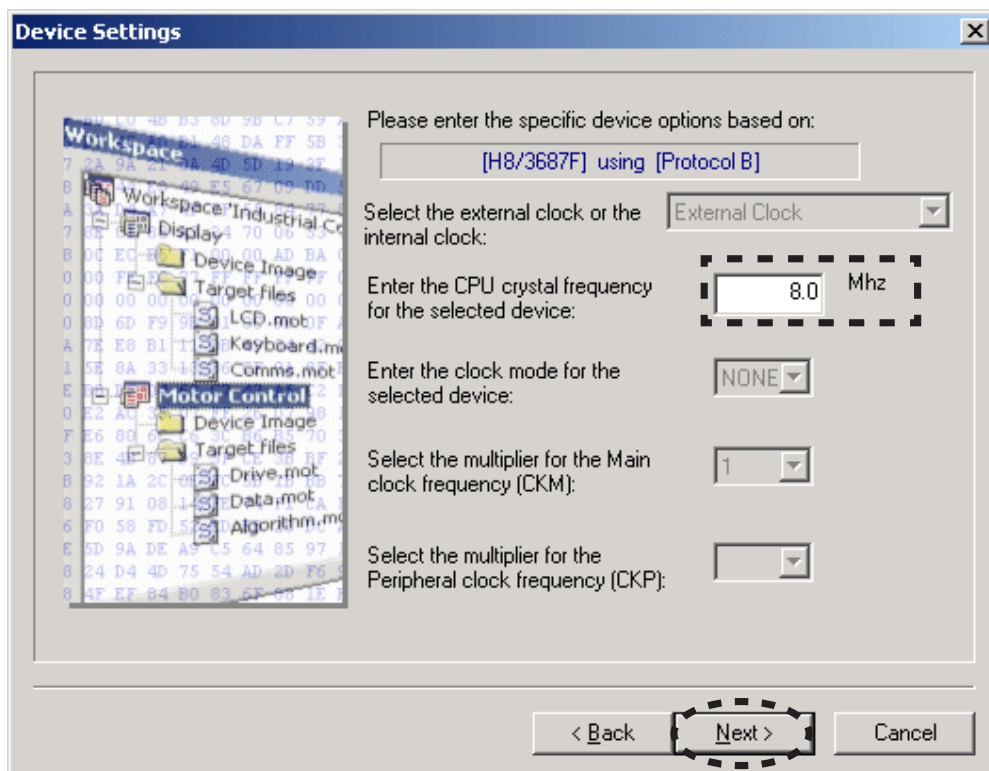
5. Select Deviceから**H8/3687F**を選択し、**Next**をクリックします。



6. Choose the **Serial port number** in the Select Port. And click the **Next**.
6. Select Portから**Serialポート番号**を選び、**Next**をクリックします。

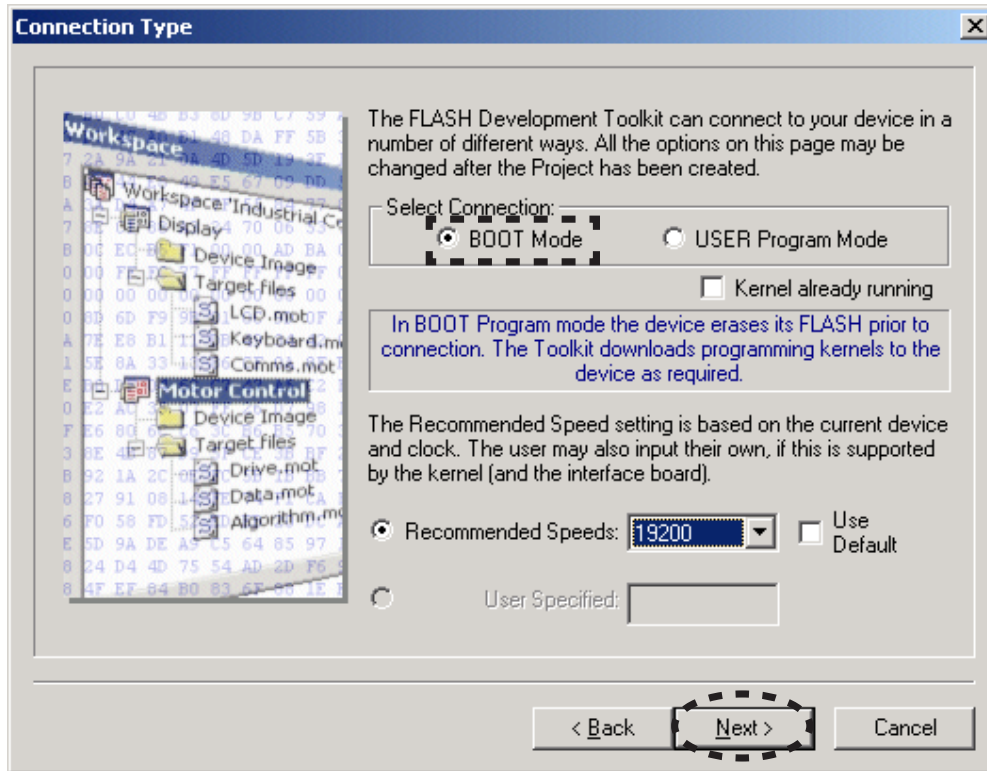


7. **8.0** is inputted into the Enter the CPU crystal frequency for the selected device. And click the **Next**.
7. Enter the CPU crystal frequency for the selected device to **8.0**を入力し、**Next**をクリックします。



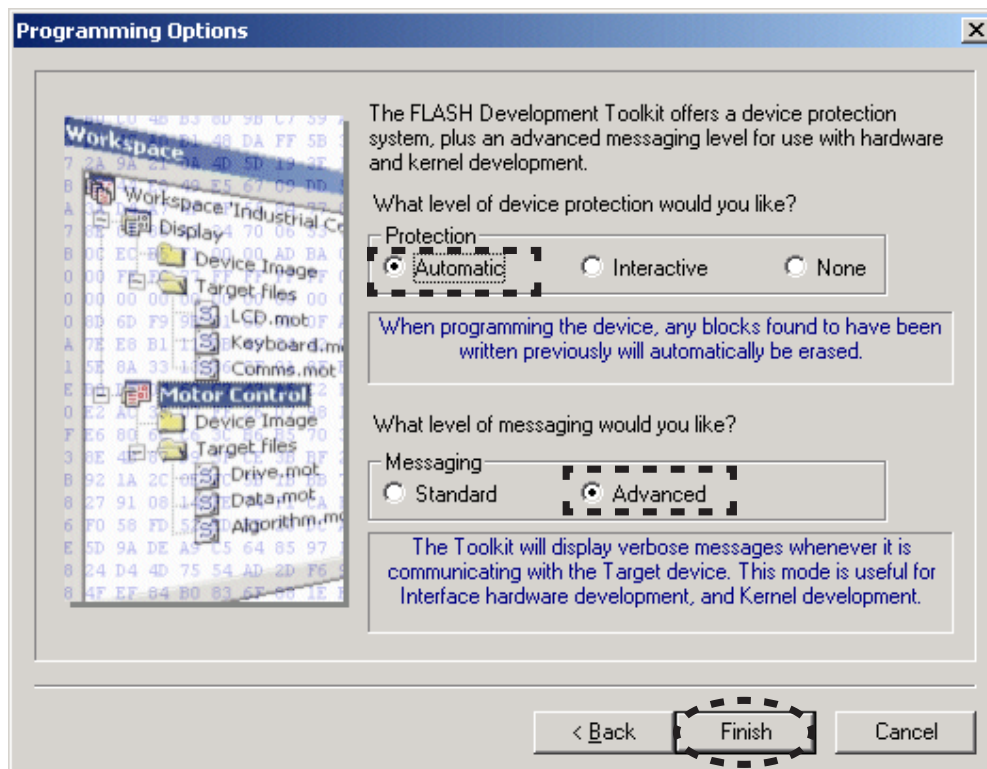
8. Check The **BOOT Mode** in Select Connection.  
Un-check the **Use Default**, and choose the **19200** in Recommended Speeds.  
Click the **Next**.

8. Select Connectionの**BOOT Mode**をチェックします。  
Recommended Speedsの**Use Default**のチェックを外し、**19200**を選択します。  
**Next**をクリックします。



9. Check the **Automatic** in Protection.  
Check the **Advanced** in Messaging.  
Click the **Finish**.

9. Protectionの**Automatic**をチェックします。  
Messagingの**Advanced**をチェックします。  
**Finish**をクリックします。



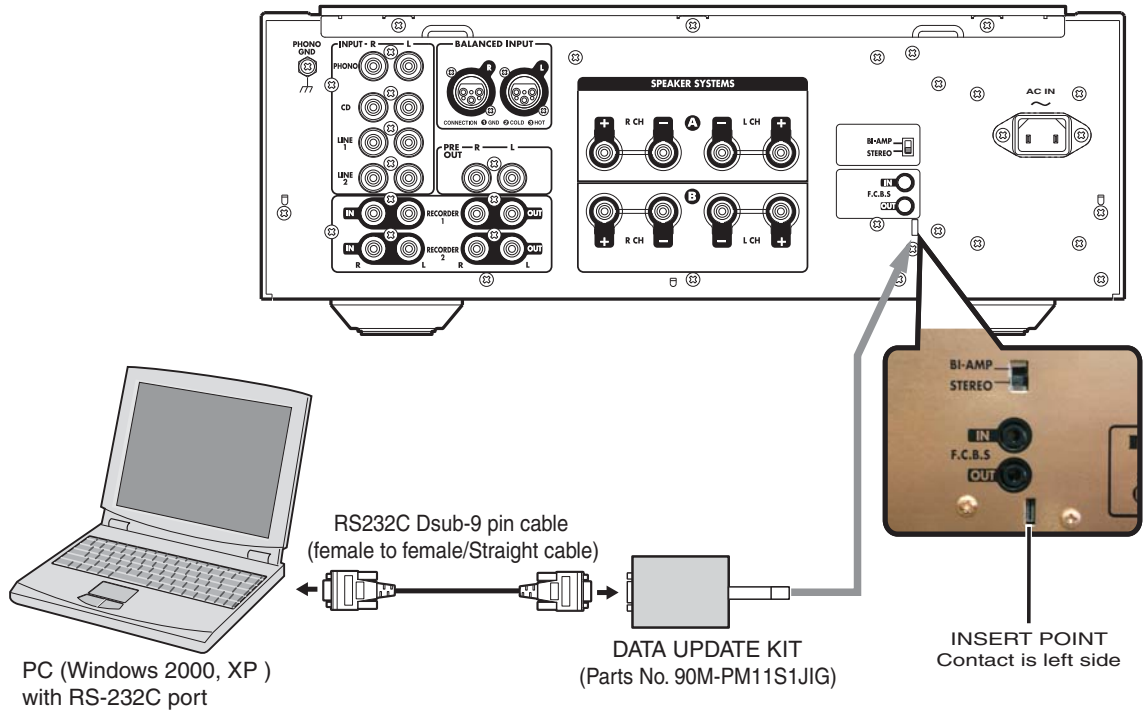


**[B-1-2] Writing Procedure for microprocessor**

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

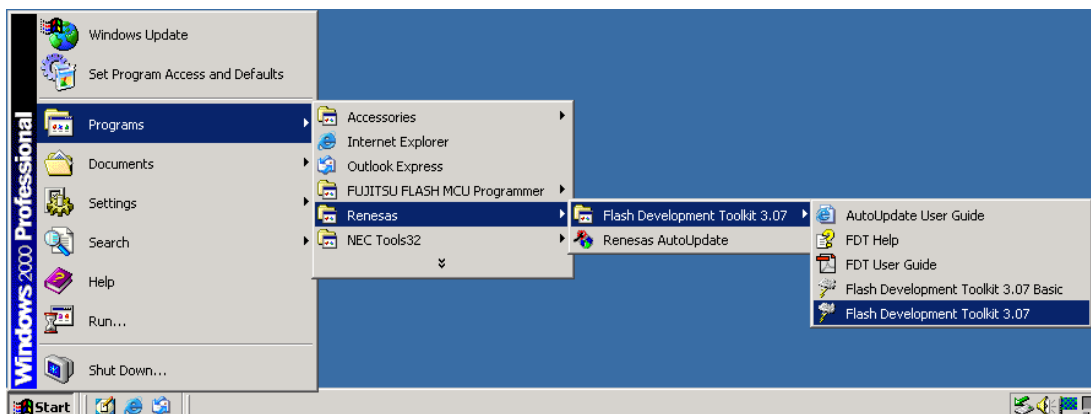
**[B-1-2] Writing Procedure for microprocessor**

1. 本機の電源ケーブルを抜きます。
2. 接続治具のRS-232CコネクタとWindows PCのSerialポートを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FFC をコンタクト面に左にして差し込みます。

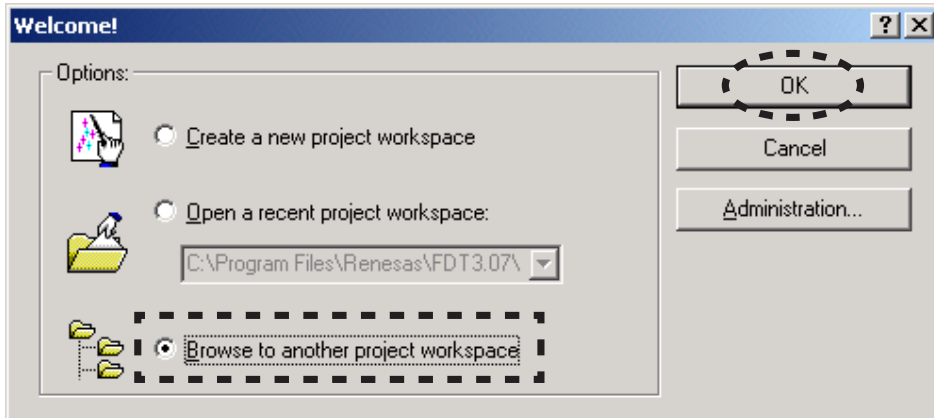


4. Connect the mains cord into the unit.
5. Launch the Flash Development Toolkit (FDT), When FDT is not launch. When FDT is already launch, please advance to step No.9.
6. Click **Start, Programs, Renesas, Flash Development Toolkit 3.07** and **Flash Development Toolkit 3.07**.

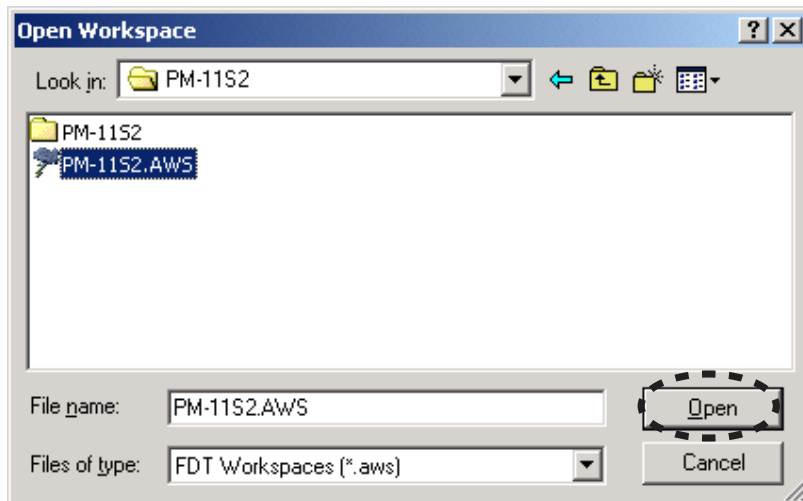
4. 本機に電源コードを接続します。
5. Flash Development Toolkit v3.07(FDT)を起動していない場合は起動します。既にFDTを起動している方はステップ9に進んでください。
6. **Start, Programs, Renesas, Flash Development Toolkit 3.07, Flash Development Toolkit 3.07**をクリックします。



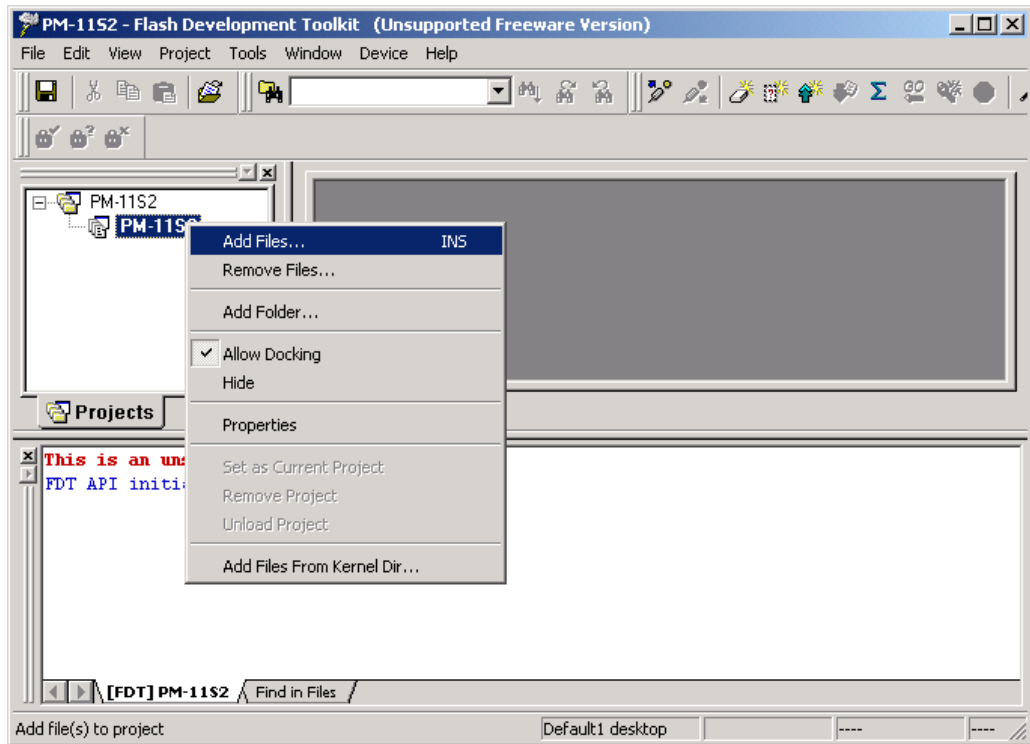
7. Check the **Browse to another project workspace**, and click **OK**.      7. **Browse to another project workspace**をチェックし、**OK**をクリックします。



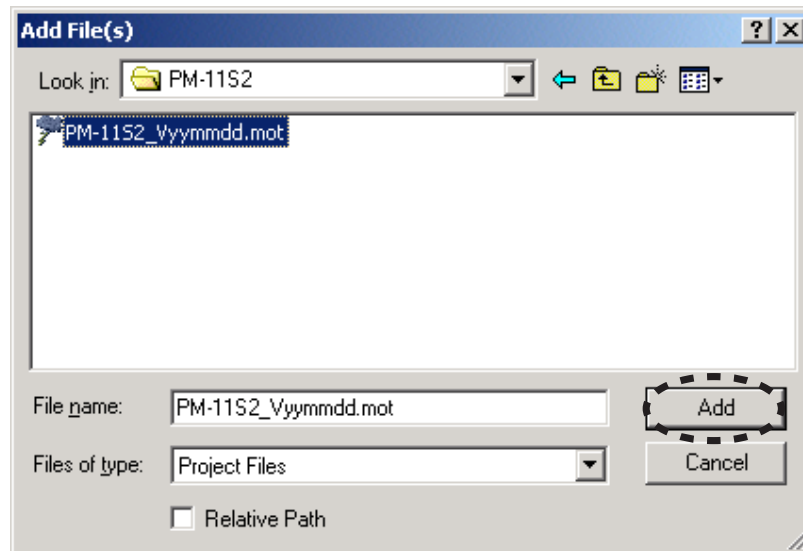
8. Choose **PM-11S2.AWS** in PM-11S2 folder under workspace folder. And Click the **Open**.      8. workspaceフォルダの下のPM-11S2フォルダ内の **PM-11S2.AWS**を選択し、**Open**をクリックします。



9. Right button of mouse click on the **PM-11S2**, and select the **Add Files...** in a menu.
9. **PM-11S2**を右クリックし、メニューから**Add Files...**をクリックします。



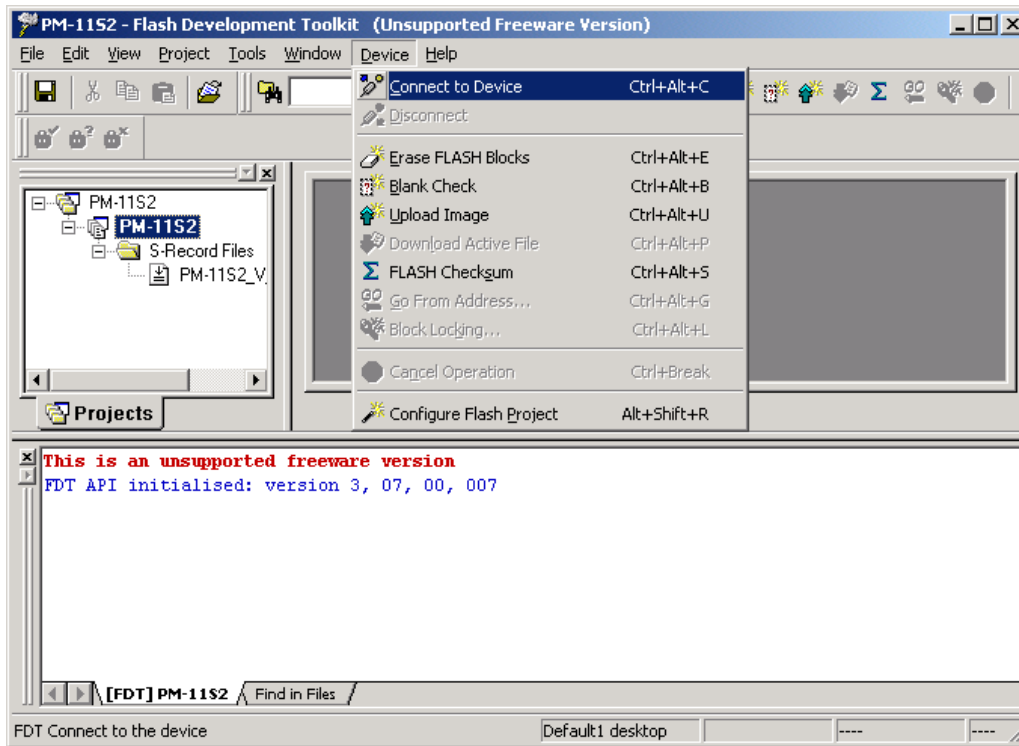
10. Choose the **PM-11S2\_Vvymdd.mot**, and click the **Add**.
10. **PM-11S2\_Vvymdd.mot**を選択し、**Add**をクリックします。
- NOTE** : The yy is digits of year. The mm is month. The dd is date.
- 注意** : yyは年の下二桁、mmは月、ddは日



11. Press the **POWER ON/OFF** button for turn on the unit. At that time, the LCD display and LED does not light
11. **POWER ON/OFF**ボタンを押し、本機の電源を入れます。この時、LCDディスプレイとLEDは点灯しません。

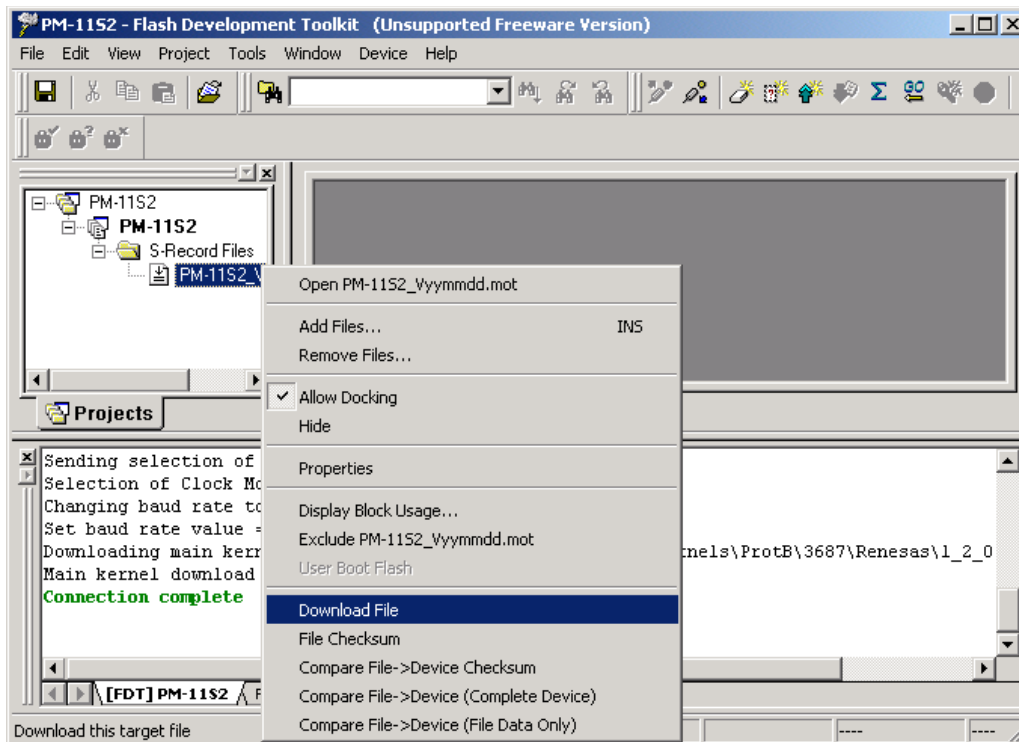
12. Click the **Device** in the menu bar and select the **Connect to Device**.

12. **Device**をクリックし、メニューから**Connect to Device**をクリックします。



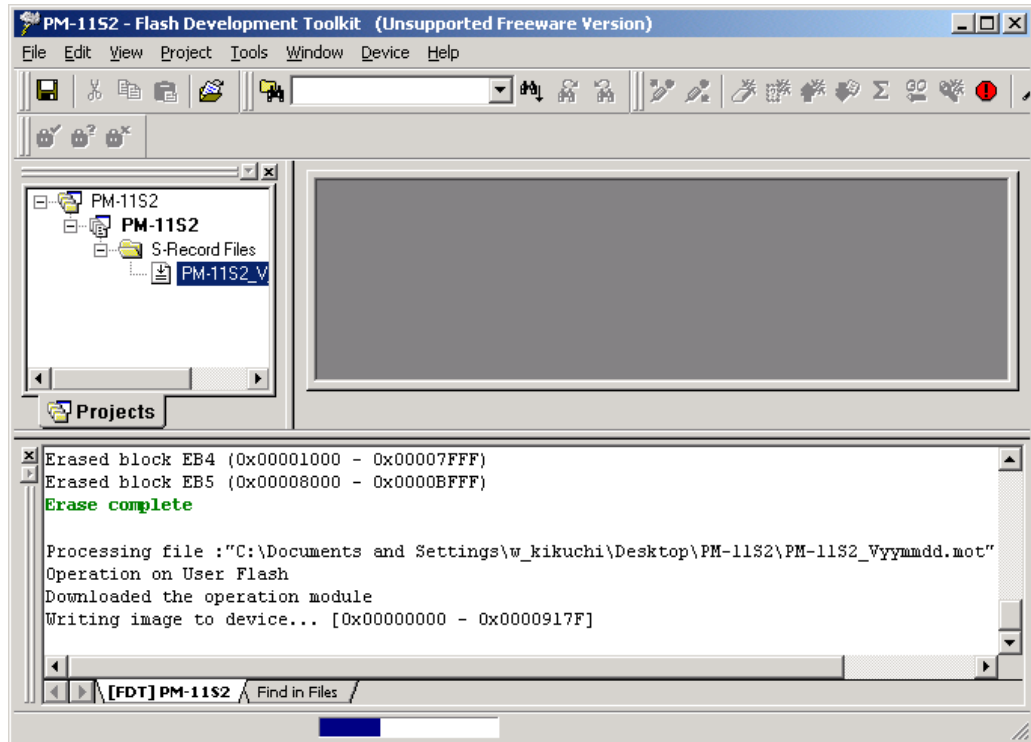
13. Press right button of mouse on the **PM-11S2\_Vvymmdd.mot**, and select the **Download File** in a menu.

13. **PM-11S2\_Vvymmdd.mot**を右クリックし、メニューから**Download File**をクリックします。



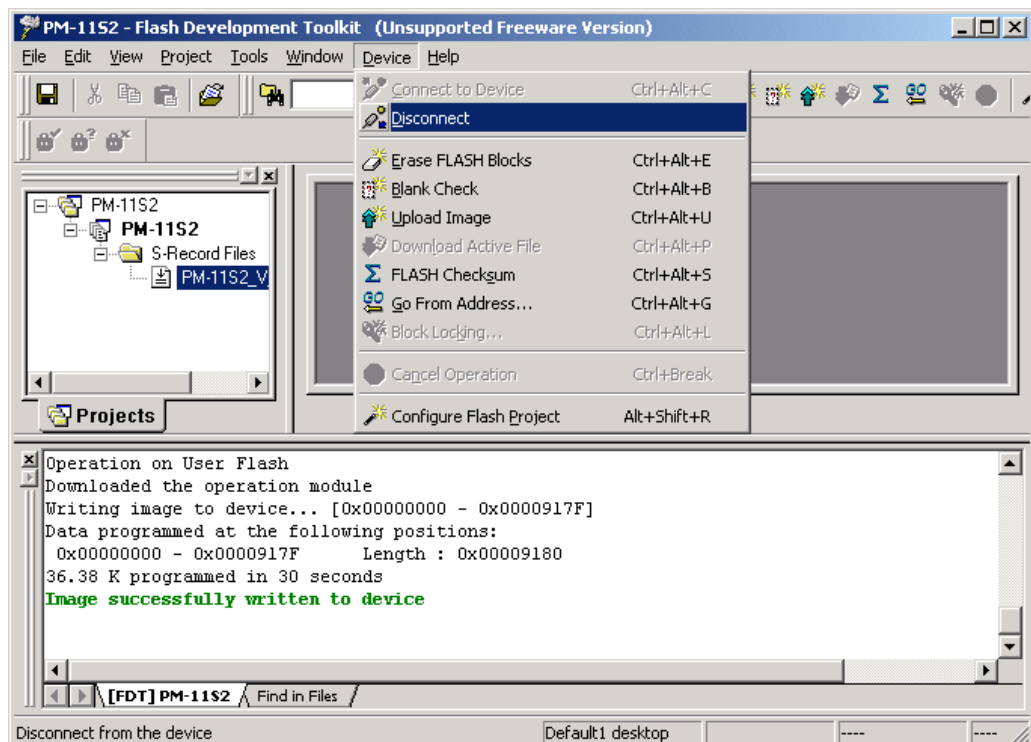
14. Software is written into the microprocessor.  
The writing of software takes about 30 seconds.

14. ソフトウェアがマイコンに書き込まれます。  
書き込みにかかる時間は約30秒です。



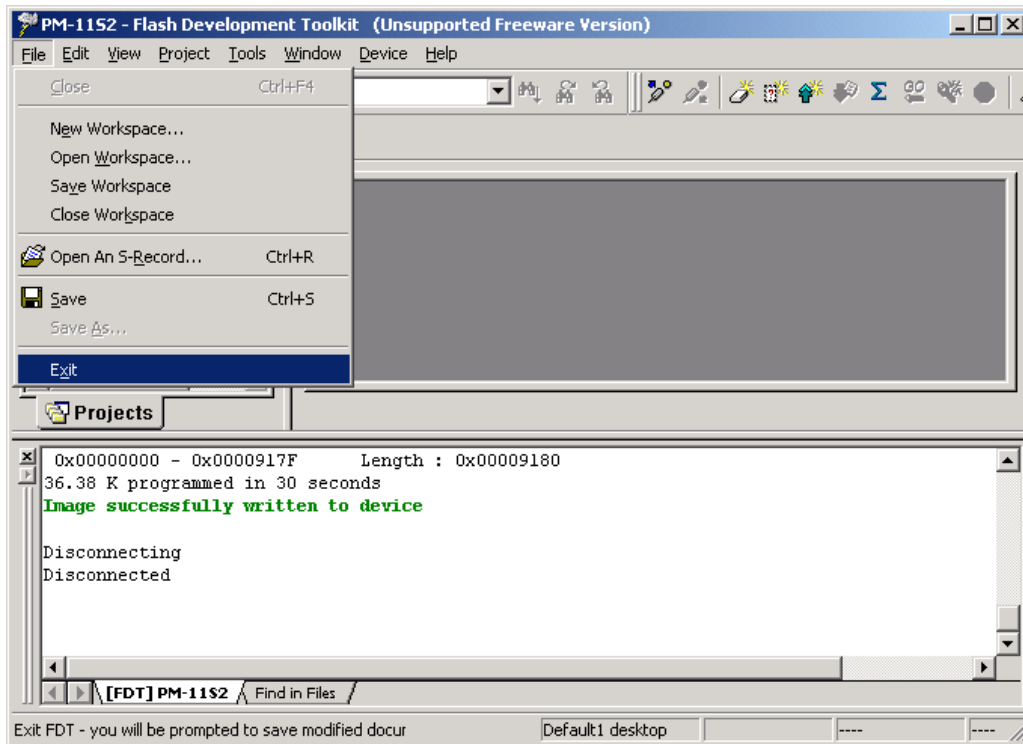
15. Click the **Device** in the menu bar and select the **Disconnect**.

15. **Device**をクリックし、メニューから**Disconnect**をクリックします。



16. Click the **File** and select the **Exit** in menu.

16. **File**をクリックし、メニューから**Exit**をクリックします。



17. Press the **POWER ON/OFF** button for turn off the unit.

17. **POWER ON/OFF**ボタンを押し、本機の電源を切ります。

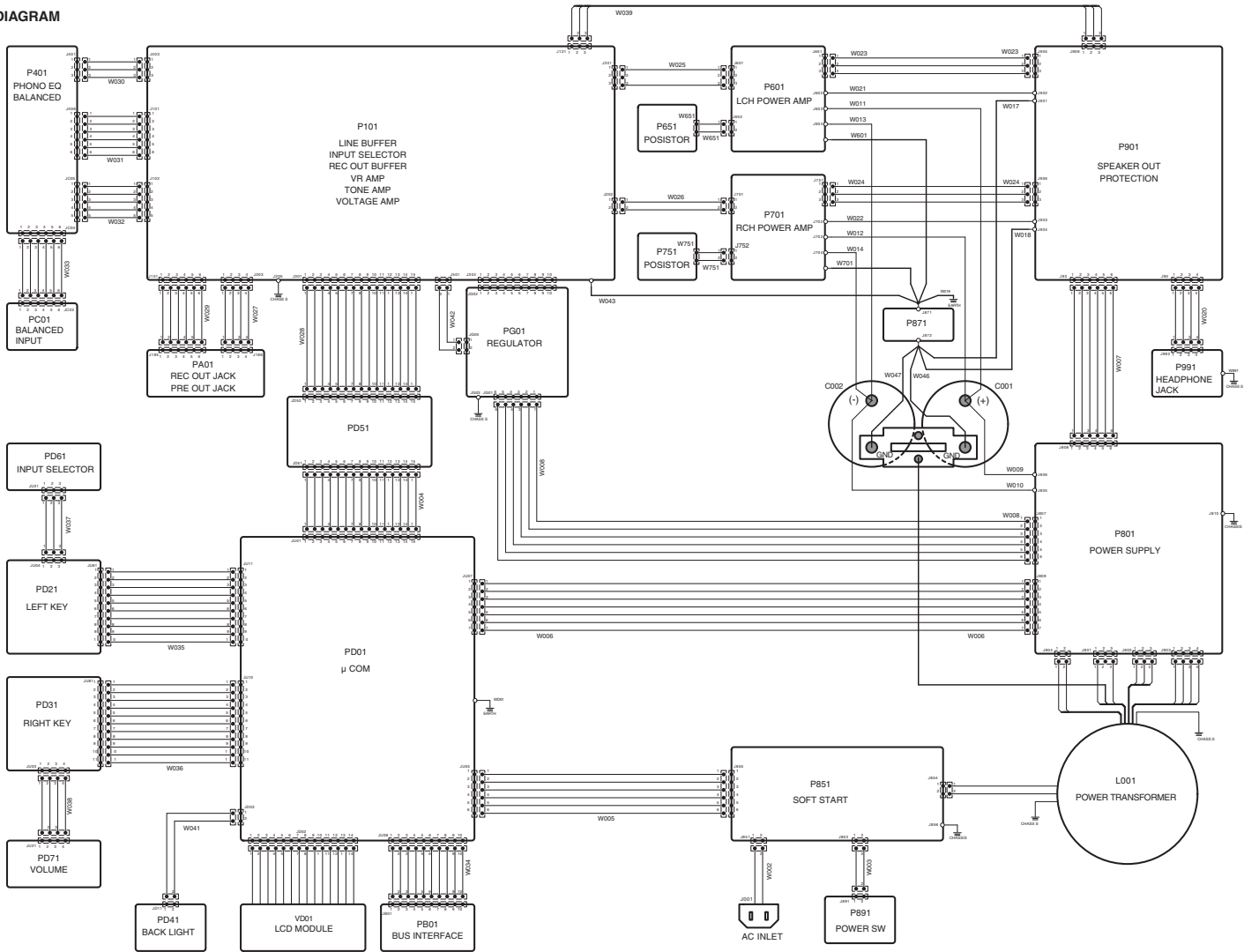
18. Disconnect the mains cord and FFC from the unit.

18.. 本機から電源コードとFFCを外します。

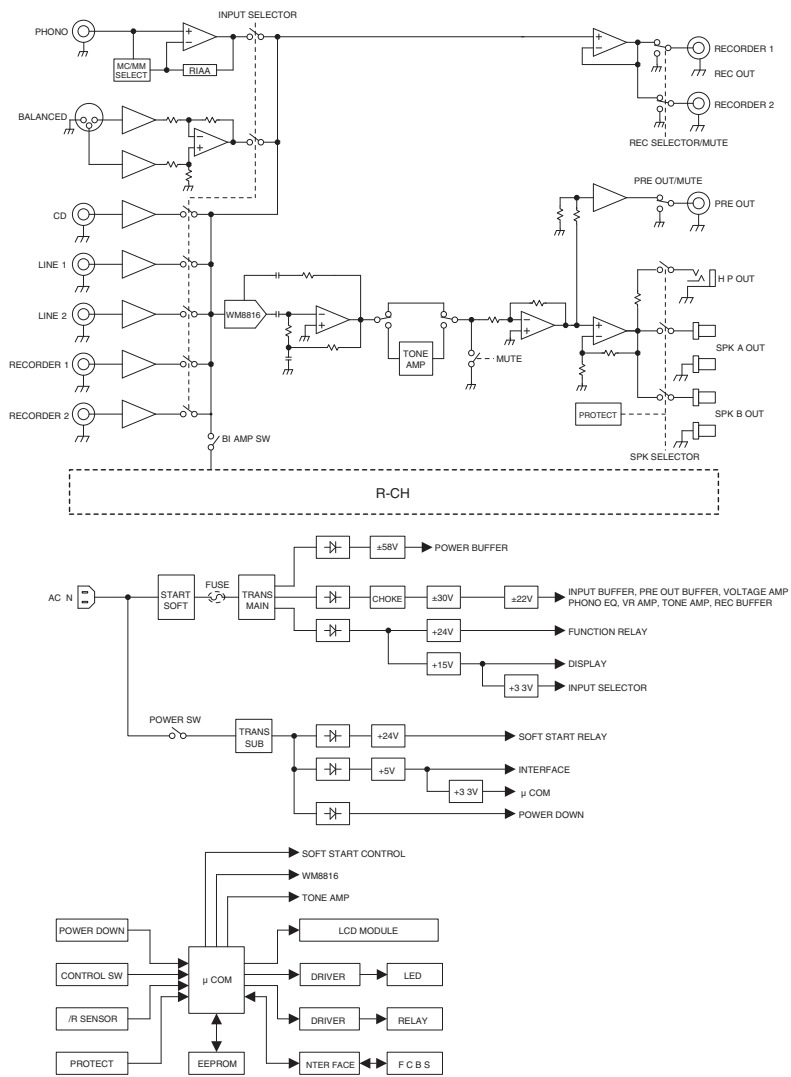
19. Check the version number of the firmware Refer to "4. SERVICE MODE".

19. Versionの確認をします。"4.SERVICE MODE"で確認します。書き込んだバージョンが正しければ書き換え完了です。

7. WIRING DIAGRAM

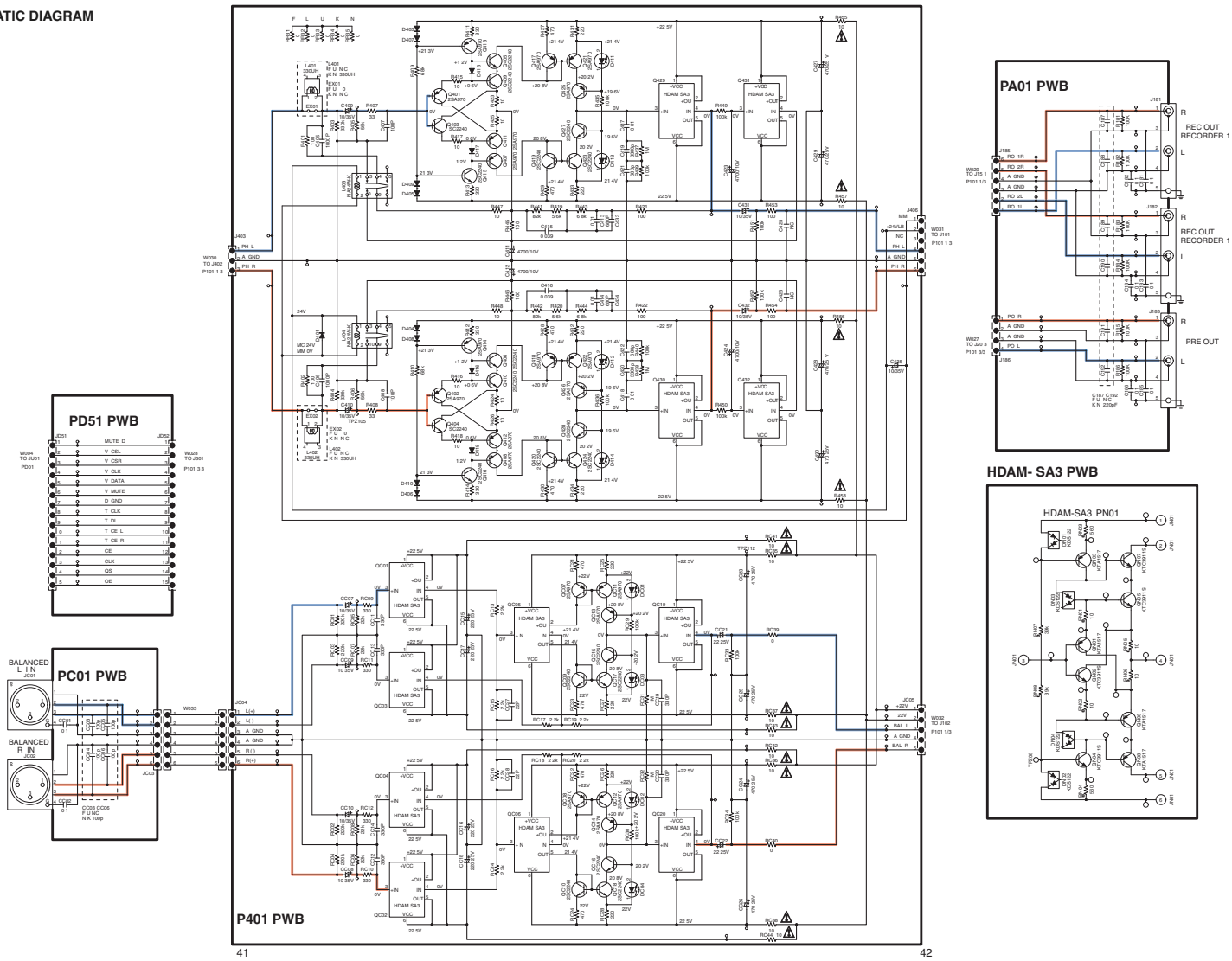


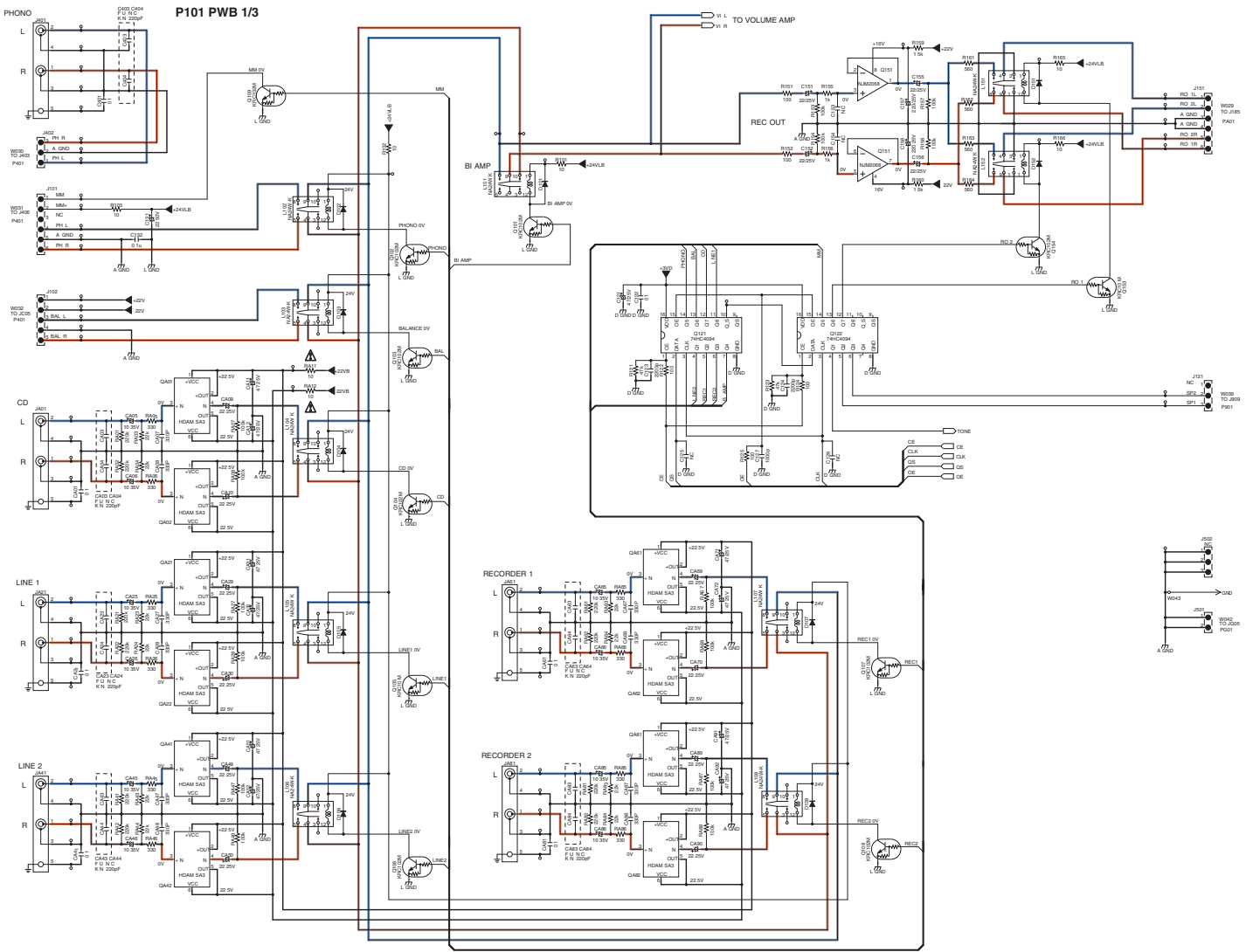
8. BLOCK DIAGRAM



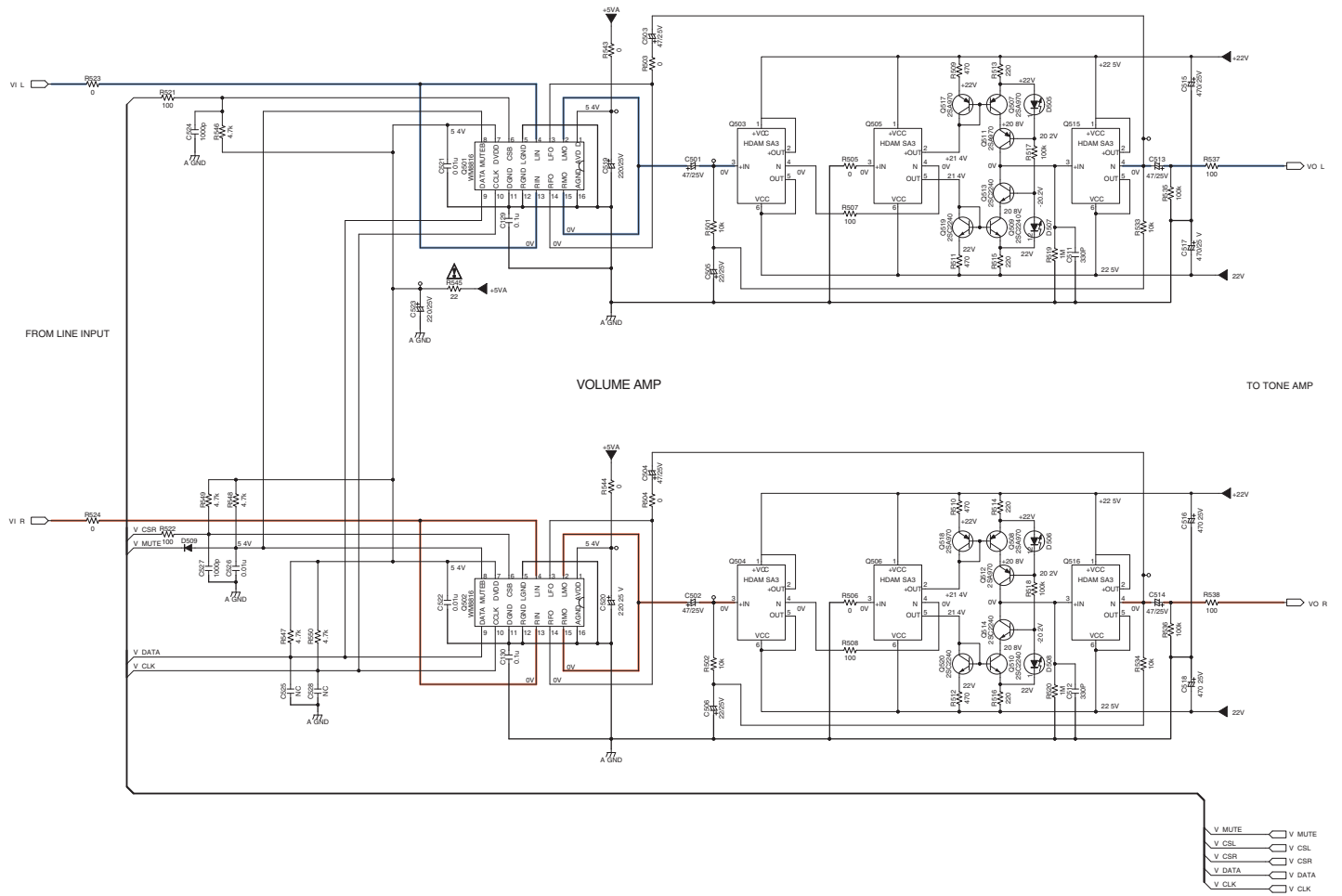


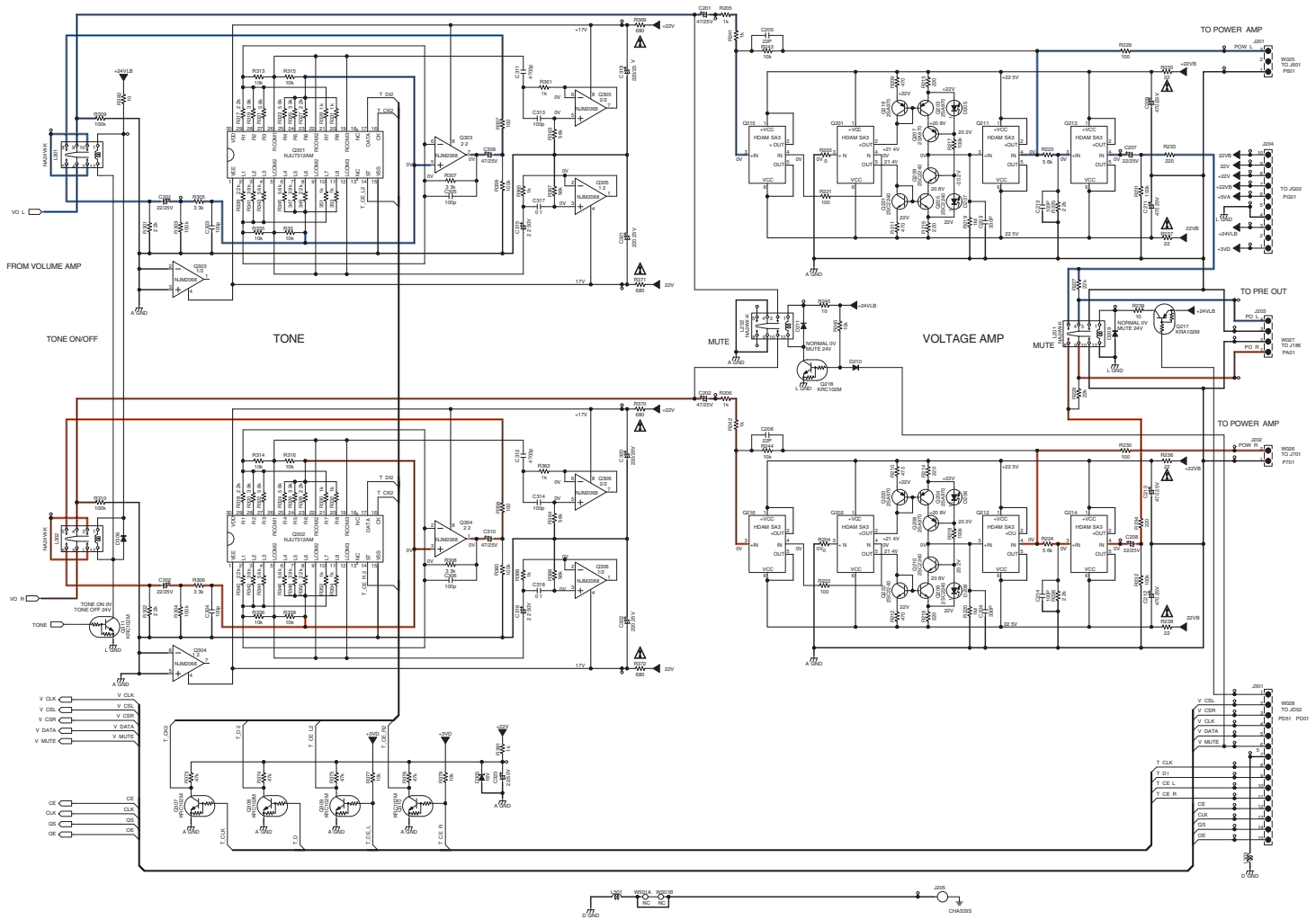
9. SCHEMATIC DIAGRAM

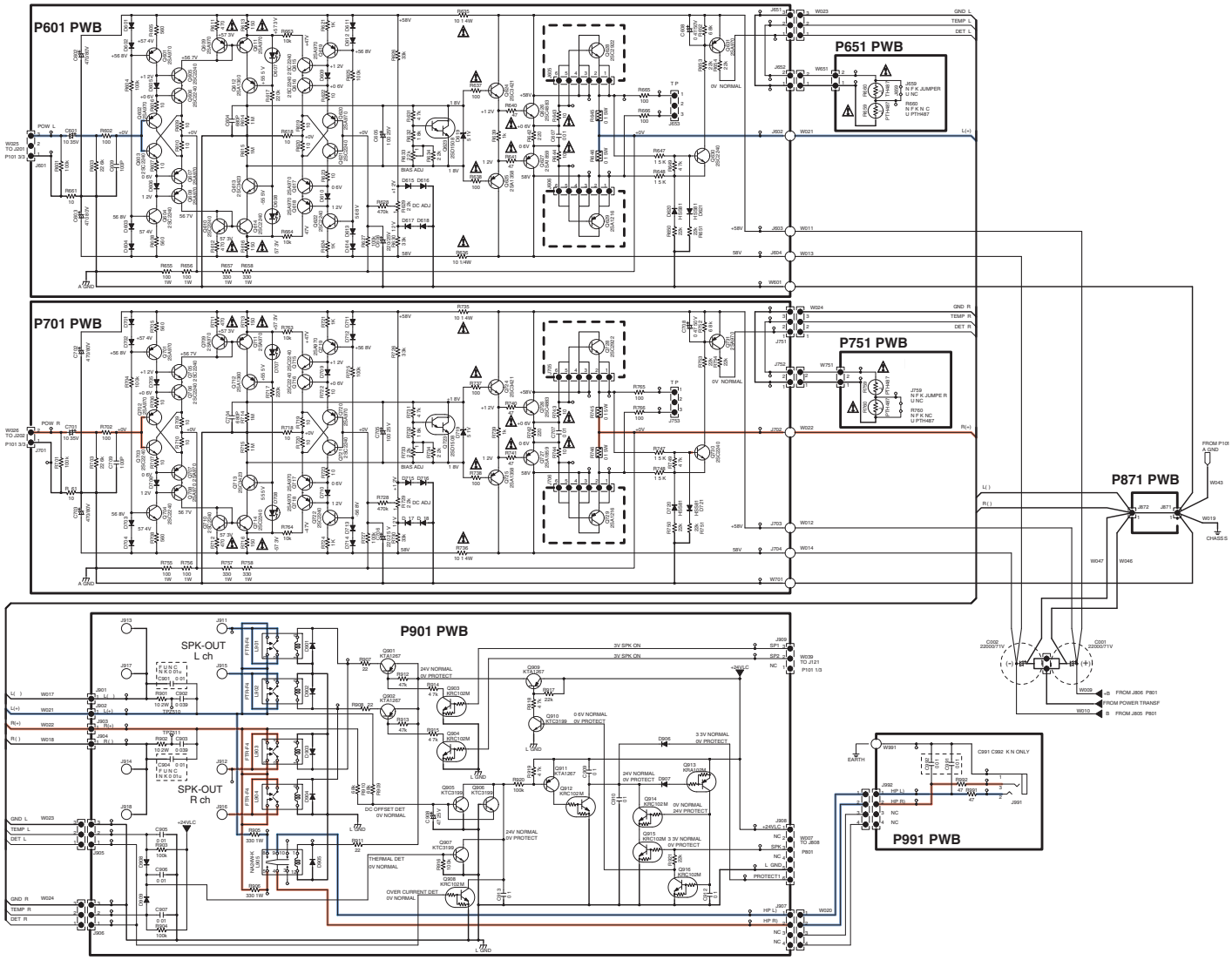


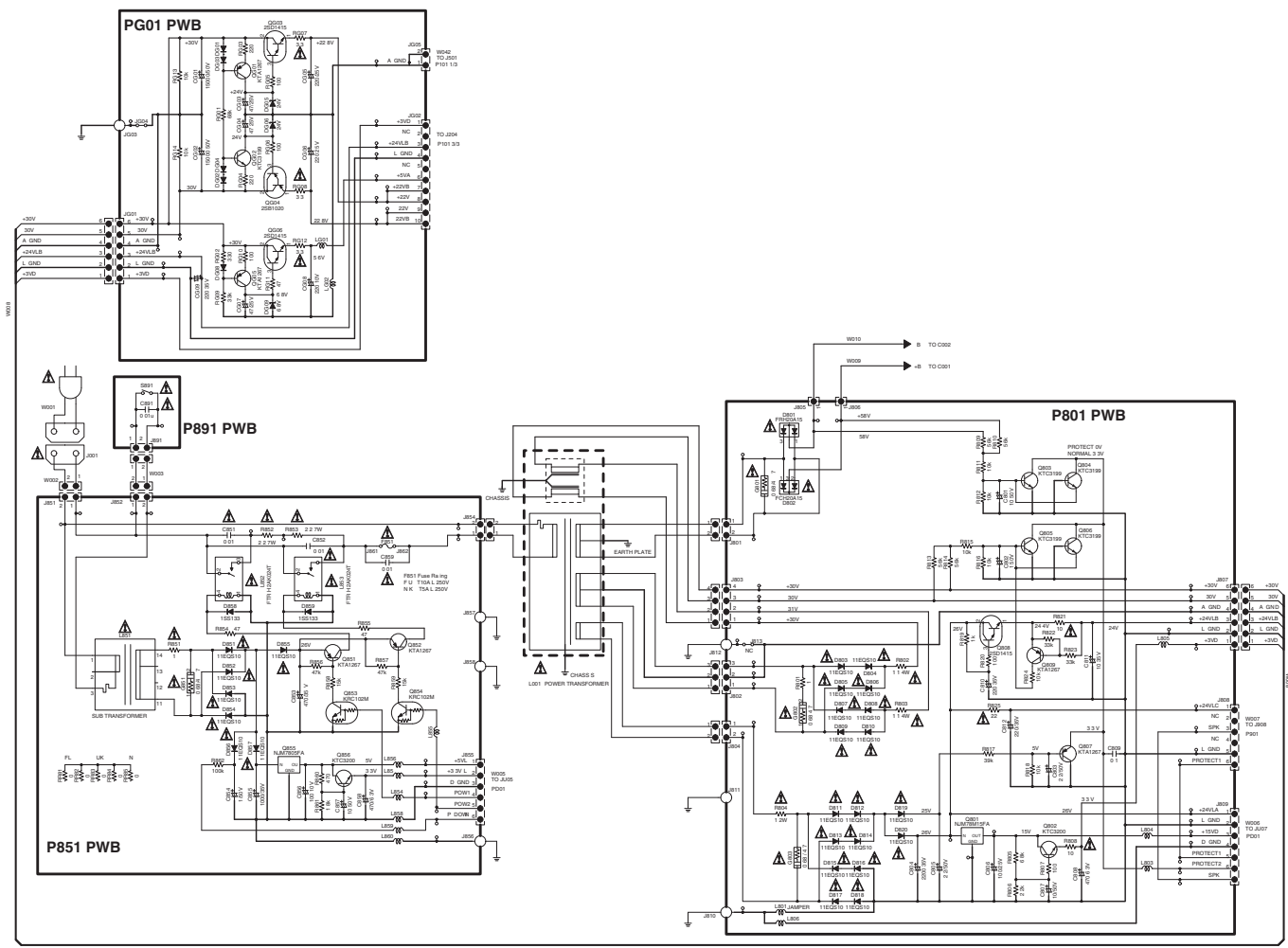


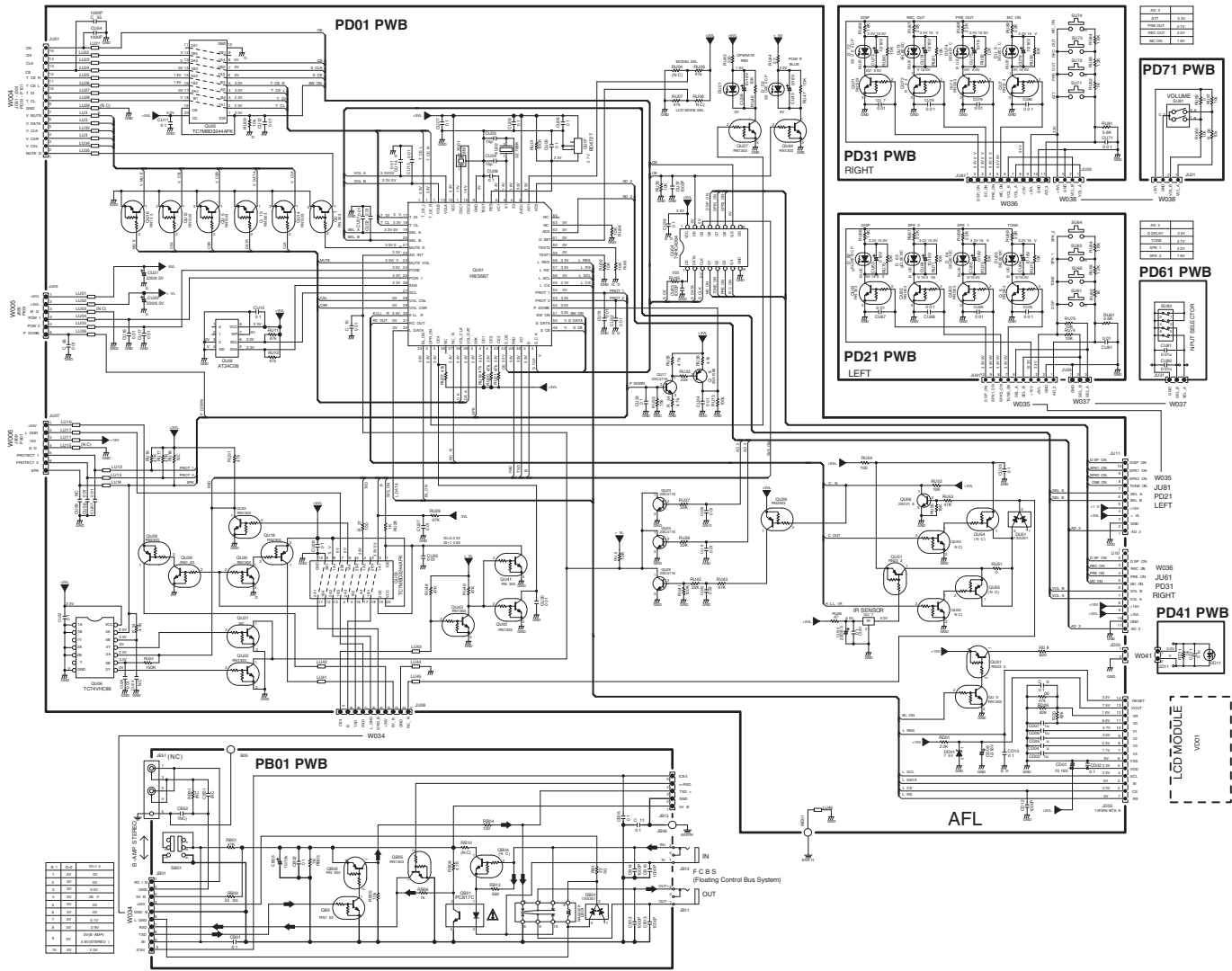
P101 PWB 1/3





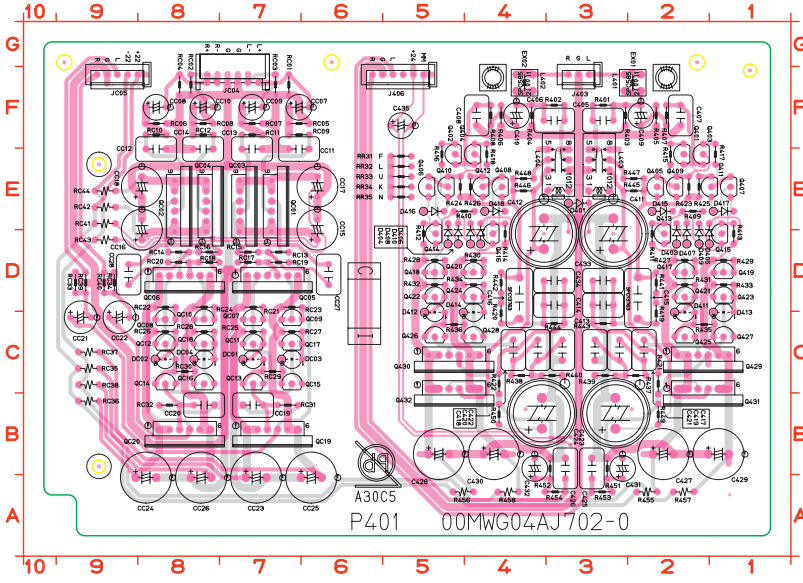




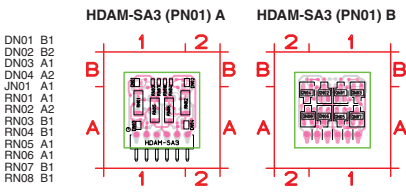


10. PARTS LOCATION

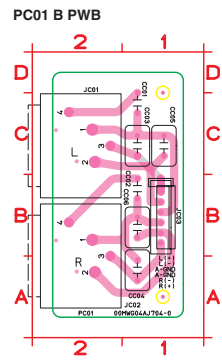
P401 B PWB



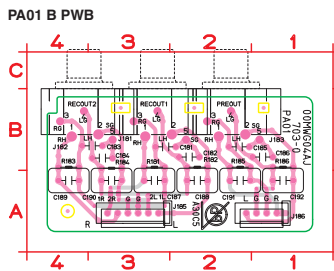
C405 F3	CC25 A7	Q415 D1	R412 E5	RC03 F7
C406 F4	CC26 A8	Q416 D4	R413 D1	RC04 F8
C407 F2	CC27 D6	Q417 D2	R414 D4	RC05 F6
C408 F4	CC28 D9	Q418 D5	R415 F2	RC06 F9
C409 F2	D401 E3	Q419 D1	R416 F5	RC07 F7
C410 F4	D403 D2	Q420 D4	R417 E1	RC08 F8
C411 D3	D404 D5	Q421 D2	R418 E4	RC09 F7
C412 D4	D405 D2	Q422 D5	R419 D2	RC10 F8
C413 D3	D406 D4	Q423 D1	R420 C4	RC11 F7
C414 D3	D407 D2	Q424 D4	R421 C2	RC12 F8
C415 C2	D408 D5	Q425 C2	R422 C4	RC13 D7
C416 C4	D409 D2	Q426 C5	R423 E2	RC14 D6
C417 C2	D410 D4	Q427 C1	R424 E5	RC15 D7
C418 C4	D411 C2	Q428 C4	R425 E2	RC16 D8
C419 C3	D412 C5	Q429 C2	R426 E4	RC17 D7
C420 C4	D413 C1	Q430 C5	R427 D2	RC18 D6
C421 C3	D414 C4	Q431 C2	R428 D5	RC19 D7
C422 C3	D415 E2	Q432 C5	R429 D1	RC20 D8
C423 B3	D416 E5	Q433 C7	R430 D4	RC21 D7
C424 B4	D417 E1	Q434 C8	R431 D2	RC22 D8
C425 B3	D418 E4	Q435 C7	R432 D5	RC23 D7
C426 A3	DC01 C7	Q436 E8	R433 D1	RC24 D6
C427 B2	DC02 C8	Q437 C5	R434 D5	RC25 C7
C428 B5	DC03 C7	Q438 C6	R435 C1	RC26 C8
C429 B2	DC04 C8	Q439 C7	R436 C5	RC27 C7
C430 B4	EX01 F2	Q440 C8	R437 C3	RC28 C8
C431 A3	EX02 F4	Q441 C7	R438 C4	RC29 C7
C432 A4	J403 F3	Q442 C8	R439 C3	RC30 C8
C433 D3	J406 F5	Q443 C7	R440 C4	RC31 B7
C434 D3	J404 F7	Q444 C8	R441 D2	RC32 B8
C435 F5	J405 F9	Q445 C7	R442 D4	RC33 D9
CC07 F7	L401 F2	Q446 C3	R443 C3	RC34 D9
CC08 F8	L402 F4	Q447 C7	R444 C3	RC35 C9
CC09 F7	L403 E3	Q448 C8	R445 E3	RC36 B9
CC10 F8	L404 E3	Q449 C7	R446 E4	RC37 C9
CC11 E7	Q401 E5	Q450 C8	R447 E3	RC38 C9
CC12 E8	Q402 E5	Q451 B7	R448 E4	RC39 D9
CC13 E7	Q403 E2	Q452 B8	R449 B2	RC40 D9
CC14 E8	Q404 E4	R401 F3	R450 B4	RC41 E9
CC15 D6	Q405 E2	R402 F4	R451 B3	RC42 E9
CC16 D8	Q406 E5	R403 F3	R452 A3	RC43 D9
CC17 E6	Q407 E1	R404 F4	R453 A3	RC44 E9
CC18 E9	Q408 E4	R405 F2	R454 A4	RR31 E5
CC19 B7	Q409 E2	R406 F4	R455 A2	RR32 E5
CC20 B8	Q410 E5	R407 F2	R456 A4	RR33 E5
CC21 C9	Q411 E1	R408 F4	R457 A2	RR34 E5
CC22 C9	Q412 E4	R409 E2	R458 A4	RR35 E5
CC23 A7	Q413 D2	R410 E4	RC01 F7	
CC24 A9	Q414 D5	R411 E2	RC02 F8	



QN01 A1
QN02 A1
QN03 A1
QN04 A2
QN05 A1
QN06 A1
QN07 A1
QN08 A2



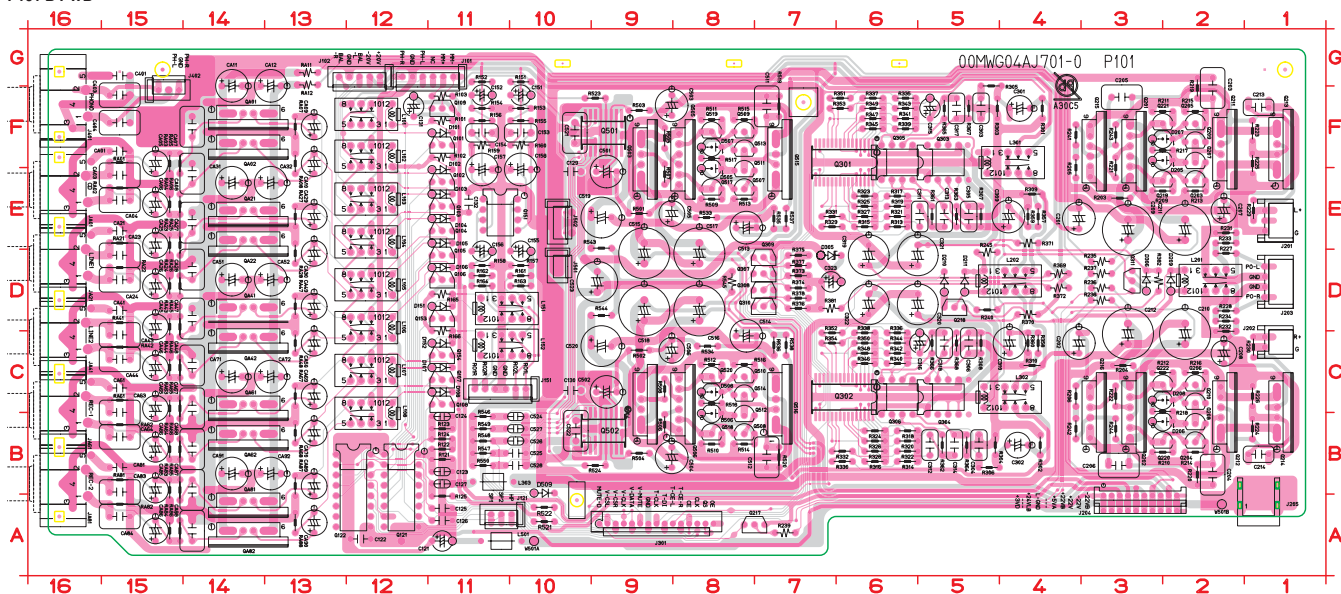
CC01 C1
CC02 B1
CC03 C1
CC04 A1
CC05 C1
CC06 B1
JC01 C3
JC02 B3
JC03 B1



C181 B2
C182 B2
C183 B3
C184 B3
C185 B2
C186 B1
C187 A3
C188 A2
C189 A4
C190 A3
C191 A2
C192 A1
J181 C3
J182 C4
J183 C2
J184 A3
J186 A1
J181 B3
R182 B2
R183 B4
R184 B3
R185 B2
R186 B1

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

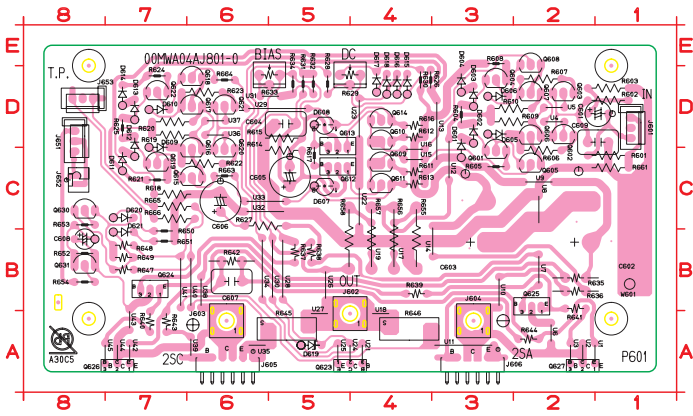




C121 A11	C306 C5	C524 B10	CA61 C15	D211 D5	L202 D5	Q220 B3	QA41 D14	R213 E2	R306 B5	R348 C6	R508 C9	RA08 E13
C122 A12	C309 E4	C525 B10	CA63 C15	D305 D7	L301 F5	Q221 F3	QA42 C14	R214 B2	R307 E5	R349 F6	R509 E8	RA11 G13
C123 B11	C310 C4	C526 B10	CA64 B15	D306 D3	L302 C5	Q222 C3	QA61 G14	R215 F2	R308 C5	R350 C8	R510 B8	RA12 G13
C124 B11	C311 E5	C527 B10	CA65 B15	D505 E8	L303 B10	Q301 F6	QA62 B14	R216 C2	R309 E4	R351 F6	R511 F8	RA21 E15
C125 A11	C312 B5	C528 B10	CA66 B15	D506 B8	L501 A10	Q302 O6	QA81 A14	R217 F2	R310 C4	R352 C6	R512 C8	RA22 D15
C126 A11	C313 E5	CA01 F15	CA67 B14	D507 F8	Q101 F11	Q303 F5	QA82 A14	R218 C2	R313 E6	R353 F6	R513 E8	RA23 D15
C127 B11	C314 B5	CA03 E15	CA68 B14	D508 C8	Q102 E11	Q304 C5	R101 F11	R219 F2	R314 B6	R354 C6	R514 B8	RA24 D15
C128 E10	C315 F5	CA04 E15	CA69 C13	D509 B10	Q103 E11	Q305 F6	R102 F11	R220 B2	R315 E6	R357 E4	R515 F8	RA25 D15
C130 C10	C316 C5	CA05 E15	CA70 B13	J101 G11	Q104 E11	Q306 C6	R103 F11	R221 E3	R316 B6	R358 C4	R516 C8	RA26 D15
C131 F12	C317 F5	CA06 E15	CA71 C14	J102 G12	Q105 D11	Q307 D7	R121 B11	R222 C3	R317 E8	R359 E4	R517 F8	RA27 E13
C132 E11	C318 C5	CA07 F14	CA72 C14	J121 A10	Q106 D11	Q308 D7	R122 B11	R223 F1	R318 B6	R360 C4	R518 C8	RA28 D13
C151 F10	C319 D6	CA08 E14	CA81 B15	J151 C10	Q107 C11	Q309 D7	R123 B11	R224 B1	R319 E6	R361 E5	R519 F7	RA41 D15
C152 F11	C320 D6	CA09 F13	CA83 B15	J201 E1	Q108 C11	Q310 D7	R124 B11	R225 E1	R320 B6	R362 B5	R520 B7	RA42 C15
C153 F10	C321 D6	CA10 E13	CA84 A15	J202 C1	Q109 F11	Q311 D3	R125 A11	R226 C1	R321 E6	R363 E5	R521 A10	RA43 C15
C154 F11	C322 D6	CA11 G14	CA85 A15	J203 D1	Q121 B12	Q501 F9	R151 G10	R227 D2	R322 B6	R364 B5	R522 A10	RA44 C15
C155 D10	C323 D7	CA12 G14	CA86 A15	J204 A3	Q122 B12	Q502 B9	R152 G11	R228 D2	R323 E6	R365 F5	R523 F9	RA45 D15
C156 D11	C401 G15	CA21 E15	CA87 A14	J205 A1	Q151 E10	Q503 F9	R153 F10	R229 E1	R324 B6	R366 C5	R524 B9	RA46 C15
C157 E11	C403 F15	CA23 D15	CA88 A14	J301 A9	Q153 D11	Q504 C9	R154 F11	R230 C1	R325 E6	R367 F5	R533 E8	RA47 D13
C158 E10	C404 F15	CA24 D15	CA89 A13	J401 F16	Q154 C11	Q505 F8	R155 F10	R231 E2	R326 B6	R368 C5	R534 C8	RA48 C13
C201 E4	C501 E9	CA25 D15	CA90 A13	J402 F15	Q201 F3	Q506 C8	R156 F11	R232 C2	R327 E6	R369 D4	R535 E7	RA61 C15
C202 C4	C502 C9	CA26 D15	CA81 B14	J501 D10	Q202 C3	Q507 E8	R157 D10	R233 E2	R328 B6	R370 D4	R536 C7	RA62 B15
C203 F2	C503 F9	CA27 E14	CA92 B14	J502 E10	Q203 E2	Q508 B8	R158 D11	R234 D2	R329 E6	R371 E4	R537 E7	RA63 B15
C204 B2	C504 B9	CA28 D14	D101 F11	JA01 E16	Q204 B2	Q509 F8	R159 F11	R235 D3	R330 B6	R372 D4	R538 C7	RA64 B15
C205 F3	C505 E9	CA29 E13	D102 E11	JA21 D16	Q205 F2	Q510 C8	R160 F10	R236 D3	R331 E6	R373 D7	R543 E9	RA65 B15
C206 B3	C506 C9	CA30 D13	D103 E11	JA41 C16	Q206 C2	Q511 E8	R161 D10	R237 D3	R332 B6	R374 D7	R544 D9	RA66 B15
C207 E2	C511 F7	CA31 E14	D104 E11	JA61 C16	Q207 F2	Q512 B8	R162 D11	R238 D3	R335 F6	R375 D7	R545 D8	RA67 C13
C208 C2	C512 B7	CA32 E14	D105 E11	JA81 B16	Q208 B2	Q513 F8	R163 D10	R239 A7	R336 C6	R376 D7	R546 B11	RA68 B13
C209 E3	C513 E8	CA41 D15	D106 D11	L101 F12	Q209 F2	Q514 C8	R164 D11	R240 D5	R337 F6	R377 D7	R547 B11	RA81 B15
C210 C2	C514 C8	CA43 C15	D107 C11	L102 F12	Q210 C2	Q515 F7	R165 D11	R241 F4	R338 C6	R378 D7	R548 B11	RA82 A15
C211 E2	C515 D9	CA44 C15	D108 C11	L103 E12	Q211 F2	Q516 C7	R166 D11	R242 B4	R339 F6	R381 D6	R549 B11	RA83 A15
C212 C3	C516 D6	CA45 C15	D151 D11	L104 D12	Q212 C2	Q517 E8	R203 E3	R243 F3	R340 C6	R382 D3	R550 B11	RA84 A15
C213 F1	C517 D8	CA46 C15	D152 C11	L105 D12	Q213 F1	Q518 B8	R204 C3	R244 B3	R341 F6	R501 E9	RA01 F15	RA85 A15
C214 B1	C518 D9	CA47 D14	D205 F3	L106 C12	Q214 C1	Q519 F8	R205 E4	R245 D5	R342 C6	R502 C9	RA02 E15	RA86 A15
C301 F4	C519 E10	CA48 C14	D206 B3	L107 C12	Q215 C3	Q520 C8	R206 C4	R301 F4	R343 F6	R503 F9	RA03 E15	RA87 A13
C302 B4	C520 C10	CA49 D13	D207 F3	L108 B12	Q216 C3	QA01 F14	R209 E2	R302 B4	R344 C6	R504 B9	RA04 E15	RA88 A13
C303 F5	C521 F10	CA50 C13	D208 C3	L151 D11	Q217 A8	QA02 F14	R210 B2	R303 F5	R345 F6	R505 F9	RA05 E15	WS01 A10
C304 B5	C522 B10	CA51 D14	D209 C2	L152 C11	Q218 D5	QA21 E14	R211 F2	R304 B5	R346 C6	R506 B9	RA06 E15	WS01 A2
C305 E5	C523 D9	CA52 D14	D210 D5	L201 D2	Q219 E3	QA22 E14	R212 C2	R305 G4	R347 F6	R507 E9	RA07 F13	

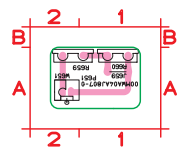
**鉛フリー半田**  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

P601 B PWB



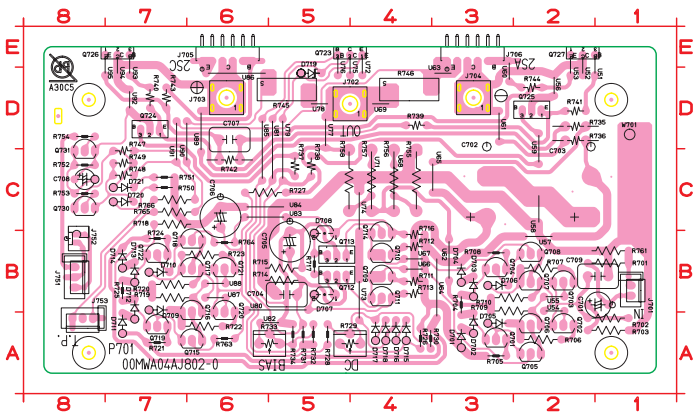
C601 D2	J604 A3	Q630 C8	R632 D5	U10 B3	U41 B7
C602 B2	J605 A6	Q631 B8	R633 D5	U11 A3	U42 A7
C603 B3	J606 A3	R601 C2	R634 D5	U12 C3	U43 A7
C604 D5	J651 D8	R602 D2	R635 B2	U13 C3	U44 A7
C605 C5	J652 C8	R603 D2	R636 B2	U14 B3	U45 A8
C606 C6	J653 D8	R604 D3	R637 B5	U15 C4	U5 D2
C607 B6	C601 C3	R605 C3	R638 B5	U16 C4	U6 A2
C608 B8	C602 D2	R606 C2	R639 B4	U17 B4	U7 B2
C609 D1	C603 D2	R607 D2	R640 A7	U18 A4	U8 C2
D601 C3	C604 D3	R608 E3	R641 B2	U19 B4	U9 C2
D602 D3	C605 C2	R609 D2	R642 B6	U2 A2	W601 B1
D603 D3	C606 D2	R610 D3	R643 A7	U21 A4	
D604 D3	C607 D2	R611 C4	R644 A2	U22 C4	
D605 D3	C608 E2	R612 D4	R645 A6	U23 D4	
D606 D3	C609 C4	R613 C4	R646 A4	U24 A5	
D607 C5	C610 D4	R614 C5	R647 B7	U25 A5	
D608 D5	C611 C4	R615 D6	R648 B7	U26 B5	
D609 D7	C612 C5	R616 D4	R649 B7	U27 A5	
D610 D7	C613 D5	R617 C5	R650 B7	U28 B5	
D611 C7	C614 D4	R618 C6	R651 B7	U29 D5	
D612 C7	C615 C6	R619 D6	R652 B8	U3 A2	
D613 D7	C616 C6	R620 D7	R653 C8	U30 B5	
D614 D7	C617 D6	R621 C7	R654 B8	U31 D5	
D615 D4	C618 D6	R622 C7	R655 B4	U32 C5	
D616 D4	C619 C7	R623 D6	R656 B4	U33 C5	
D617 D4	C620 C6	R624 D7	R657 C4	U34 B6	
D618 D4	C621 D6	R625 D7	R658 C5	U35 A6	
D619 A5	C622 D7	R626 D4	R661 C1	U36 D6	
D620 C7	C623 A5	R627 C6	R662 C6	U37 D6	
D621 B7	C624 B7	R628 D5	R664 D6	U38 B6	
J601 D1	C625 B2	R629 D5	R665 C6	U39 A6	
J602 A5	C626 A7	R630 D4	R666 C6	U4 D2	
J603 A6	C627 A2	R631 D5	U1 A2	U40 B2	

P651 B PWB



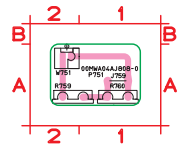
J659 A1
R659 A2
R660 A1
W651 A2

P701 B PWB



C701 B2	J704 D3	Q730 C8	R732 A5	U52 D2	U86 D6
C702 C3	J705 E6	Q731 C8	R733 A5	U53 D2	U87 B6
C703 C2	J706 E3	R701 B2	R734 A5	U54 B2	U88 B6
C704 B5	J751 B8	R702 A2	R735 D2	U55 B2	U89 C6
C705 B5	J752 B8	R703 A2	R736 D2	U56 D2	U90 C7
C706 C6	J753 A8	R704 A3	R737 C5	U57 B2	U91 C7
C707 D6	C701 A3	R705 A3	R738 C5	U58 C2	U92 D7
C708 C8	C702 A2	R706 A2	R739 D4	U59 C2	U93 D7
C709 B1	C703 B2	R707 B2	R740 D7	U60 D3	U94 D7
D701 A3	C704 B3	R708 B3	R741 D2	U61 D3	U95 D8
D702 A3	C705 A2	R709 B2	R742 C6	U62 B3	W701 D1
D703 B3	C706 A2	R710 B3	R743 D7	U63 D3	
D704 B3	C707 B2	R711 B4	R744 D2	U64 A3	
D705 A3	C708 B2	R712 B4	R745 D6	U65 C3	
D706 B3	C709 B4	R713 B4	R746 D4	U66 B4	
D707 B5	C710 B4	R714 B5	R747 C7	U67 B4	
D708 B5	C711 B4	R715 B6	R748 C7	U68 C4	
D709 B7	C712 B5	R716 B4	R749 C7	U69 D4	
D710 B7	C713 B5	R717 B5	R750 C7	U71 C4	
D711 A7	C714 B4	R718 C6	R751 C7	U72 D4	
D712 A7	C715 A6	R719 B6	R752 C8	U73 A4	
D713 B7	C716 B6	R720 B7	R753 C8	U74 B4	
D714 B7	C717 B6	R721 A7	R754 D8	U75 D5	
D715 A4	C718 B6	R722 A7	R755 C4	U76 D5	
D716 A4	C719 A7	R723 B6	R756 C4	U77 D5	
D717 A4	C720 B6	R724 B7	R757 C4	U78 D5	
D718 A4	C721 B6	R725 B7	R758 C5	U79 C5	
D719 D5	C722 B7	R726 A4	R761 B1	U80 B5	
D720 C7	C723 E4	R727 C6	R763 A6	U81 C5	
D721 C7	C724 D7	R728 A5	R764 B6	U82 A5	
J701 B1	C725 D2	R729 A5	R765 C6	U83 C5	
J702 D5	C726 E5	R730 A4	R766 C6	U84 C5	
J703 D6	C727 E2	R731 A5	U51 D2	U85 C6	

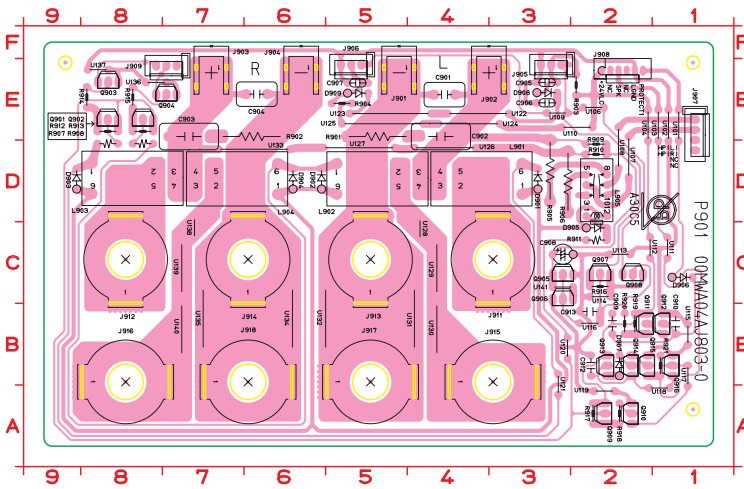
P751 B PWB



J759 A1
R759 A2
R760 A1
W751 A2

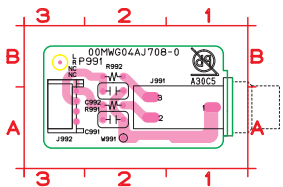
**鉛フリー半田**  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

P901 B PWB



- |         |         |         |         |
|---------|---------|---------|---------|
| C901 E4 | J918 B6 | R916 C2 | U133 D6 |
| C902 E4 | L901 D3 | R917 A2 | U134 B6 |
| C903 E7 | L902 D5 | R918 A2 | U135 B7 |
| C904 E6 | L903 D8 | R919 B2 | U136 E7 |
| C905 E3 | L904 D6 | R920 B2 | U137 E8 |
| C906 E3 | L905 D2 | R921 B1 | U138 C7 |
| C907 E5 | Q901 E5 | U101 D1 | U139 C7 |
| C908 C3 | Q902 E8 | U102 D1 | U140 B7 |
| C909 B2 | Q903 E8 | U103 D1 | U141 C2 |
| C910 B1 | Q904 E7 | U104 D2 |         |
| C912 B2 | Q905 C3 | U106 E2 |         |
| C913 B2 | Q906 C3 | U107 D2 |         |
| D901 D3 | Q907 C2 | U108 D2 |         |
| D902 D6 | Q908 C2 | U109 E3 |         |
| D903 D8 | Q909 A2 | U110 E2 |         |
| D904 D6 | Q910 A2 | U111 C1 |         |
| D905 C2 | Q911 B2 | U112 C2 |         |
| D906 C1 | Q912 B1 | U113 C2 |         |
| D907 B2 | Q913 B2 | U114 C2 |         |
| D908 E3 | Q914 B2 | U115 B1 |         |
| D909 E5 | Q915 B2 | U116 B2 |         |
| J901 F5 | Q916 B1 | U117 A1 |         |
| J902 F4 | R901 E5 | U118 A1 |         |
| J903 F7 | R902 E6 | U119 A2 |         |
| J904 F6 | R903 E2 | U120 B3 |         |
| J905 E3 | R904 E5 | U121 A3 |         |
| J906 E5 | R905 E3 | U122 E3 |         |
| J907 E1 | R906 D3 | U123 E4 |         |
| J908 E2 | R907 D8 | U124 E3 |         |
| J909 E7 | R908 D8 | U125 E4 |         |
| J911 C3 | R909 D2 | U126 D4 |         |
| J912 C8 | R910 D2 | U127 D5 |         |
| J913 C5 | R911 C2 | U128 C4 |         |
| J914 C6 | R912 E8 | U129 C4 |         |
| J915 B3 | R913 E8 | U130 B4 |         |
| J916 B8 | R914 E8 | U131 B4 |         |
| J917 B5 | R915 E8 | U132 B6 |         |

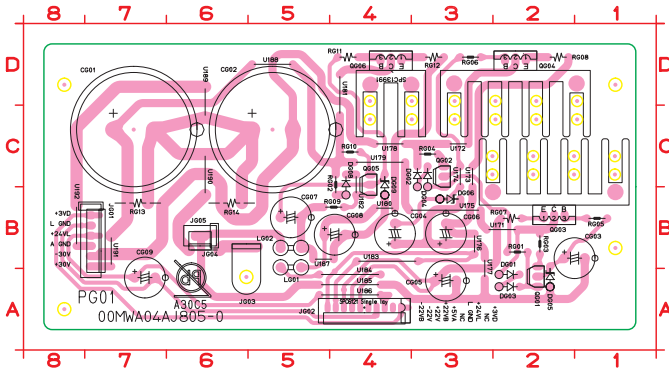
P991 B PWB



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| C991 A2 |
| C992 A2 |
| J991 A1 |
| J992 A3 |
| R991 A2 |
| R992 B2 |
| W991 A2 |

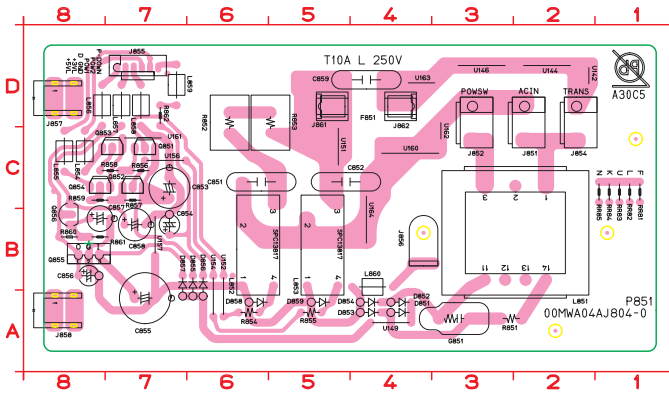
**鉛フリー半田**  
 半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
 When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PG01 B PWB



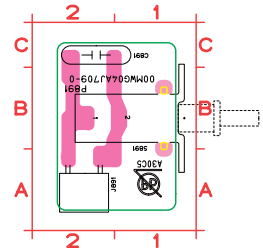
- |         |         |         |
|---------|---------|---------|
| CG01 C7 | QG03 B2 | U179 C4 |
| CG02 C5 | QG04 D2 | U180 B4 |
| CG03 B2 | QG05 C4 | U181 C4 |
| CG04 B4 | QG06 D4 | U182 B4 |
| CG05 A3 | RG01 B2 | U183 B3 |
| CG06 B3 | RG02 B4 | U184 A4 |
| CG07 B5 | RG03 B2 | U185 A4 |
| CG08 B5 | RG04 C3 | U186 A4 |
| CG09 A7 | RG05 B1 | U187 B4 |
| DG01 A2 | RG06 D3 | U188 D5 |
| DG02 C3 | RG07 B2 | U189 C5 |
| DG03 A2 | RG08 D2 | U190 B6 |
| DG04 C3 | RG09 B5 | U191 B7 |
| DG05 A2 | RG10 C4 | U192 B8 |
| DG06 B3 | RG11 D4 |         |
| DG08 B4 | RG12 D3 |         |
| DG09 B4 | RG13 B7 |         |
| JG01 B7 | RG14 B6 |         |
| JG02 A4 | U171 B2 |         |
| JG03 A6 | U172 C3 |         |
| JG04 B6 | U173 C3 |         |
| JG05 B6 | U174 C3 |         |
| LG01 B5 | U175 B3 |         |
| LG02 B5 | U176 B3 |         |
| QG01 A2 | U177 A3 |         |
| QG02 C3 | U178 C4 |         |

P851 B WB



- |         |         |         |
|---------|---------|---------|
| C851 C6 | J861 D5 | R859 C8 |
| C852 C4 | J862 D4 | R860 B8 |
| C853 C7 | L851 B2 | R861 B7 |
| C854 B7 | L852 B6 | R862 D7 |
| C855 A7 | L853 B5 | RR81 C1 |
| C856 B8 | L854 C8 | RR82 C1 |
| C857 B8 | L855 C8 | RR83 C1 |
| C858 B7 | L856 D8 | RR84 C1 |
| C859 D5 | L857 D7 | RR85 C1 |
| D851 A4 | L858 D7 | U142 D2 |
| D852 A4 | L859 D7 | U144 D2 |
| D853 A4 | L860 B4 | U146 D3 |
| D854 A4 | C851 C7 | U149 A4 |
| D855 A6 | Q852 C7 | U151 C5 |
| D856 A6 | Q853 C7 | U152 A6 |
| D857 A7 | Q854 C8 | U154 A6 |
| D858 A6 | Q855 B8 | U156 C7 |
| D859 A5 | Q856 B8 | U157 B7 |
| G851 A3 | R851 A2 | U160 C3 |
| J851 D2 | R852 C6 | U161 C7 |
| J852 D3 | R853 D5 | U162 C3 |
| J854 D2 | R854 A6 | U163 D3 |
| J855 D7 | R855 A5 | U164 B4 |
| J856 B4 | R856 C7 |         |
| J857 D8 | R857 C7 |         |
| J858 A6 | R858 C8 |         |

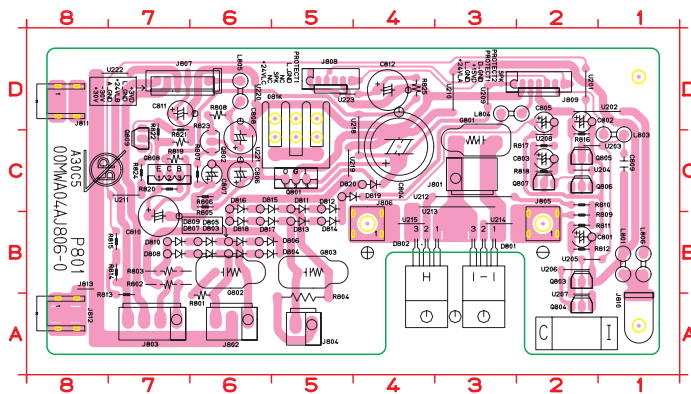
P891 B PWB



- |         |
|---------|
| C891 C1 |
| J891 A2 |
| S891 B1 |

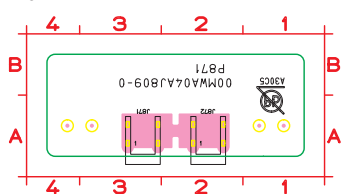
**鉛フリー半田**  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

P801 B PWB



C801 B2	G802 B6	R805 C6	U213 C3
C802 D2	G803 B5	R806 C6	U214 B3
C803 C2	J801 C3	R807 C6	U215 B4
C804 C4	J802 A6	R808 D6	U218 C4
C805 D2	J803 A7	R809 B2	U219 C5
C806 C6	J804 A5	R810 C2	U220 D6
C807 C6	J805 B2	R811 B2	U221 C6
C808 C6	J806 B4	R812 B2	U222 D7
C809 C1	J807 D6	R813 A7	U223 D4
C810 B7	J808 D5	R814 B7	
C811 D7	J809 D3	R815 B7	
C812 D4	J810 A1	R816 C2	
D801 B3	J811 D8	R817 C2	
D802 B4	J812 A6	R818 C2	
D803 B6	J813 B8	R819 C7	
D804 B6	L801 B1	R820 C7	
D805 B6	L803 C1	R821 C7	
D806 B6	L804 D3	R822 C7	
D807 B6	L805 D6	R823 D7	
D808 B7	L806 B1	R824 C7	
D809 B6	Q801 C5	R825 D4	
D810 B7	Q802 C6	U201 D2	
D811 C5	Q803 B2	U202 D1	
D812 C5	Q804 A2	U203 C1	
D813 B5	Q805 C2	U204 C2	
D814 B5	Q806 C2	U205 B1	
D815 C6	Q807 C2	U206 B2	
D816 C6	Q808 C7	U207 A2	
D817 B6	Q808 C7	U208 C2	
D818 B6	R801 A6	U209 D3	
D819 C5	R802 B7	U210 D3	
D820 C4	R803 B7	U211 C7	
G801 C3	R804 A5	U212 C3	

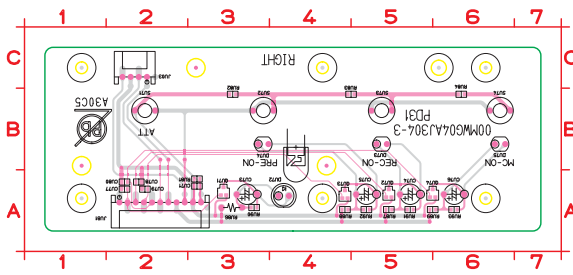
P871 B PWB



J871 A3  
J872 A2

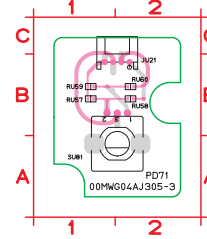
**鉛フリー半田**  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PD31 A PWB



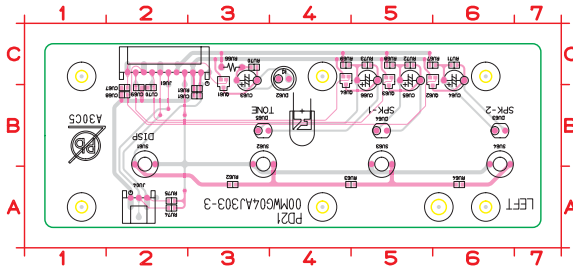
- |      |    |      |    |
|------|----|------|----|
| CU71 | A3 | RU83 | B5 |
| CU73 | A3 | RU84 | B6 |
| CU74 | A5 | RU86 | A3 |
| CU75 | A5 | RU87 | A5 |
| CU76 | A6 | RU88 | A4 |
| CU77 | A2 | RU89 | A6 |
| CU78 | A2 | RU90 | A3 |
| CU79 | A2 | RU91 | A5 |
| CU80 | A2 | RU92 | A5 |
| DU72 | A4 | RU93 | A6 |
| DU73 | B5 | SU71 | B2 |
| DU74 | B3 | SU72 | B3 |
| DU75 | B6 | SU73 | B5 |
| JU03 | C2 | SU74 | B6 |
| JU81 | A2 |      |    |
| QU71 | A3 |      |    |
| QU72 | A5 |      |    |
| QU73 | A4 |      |    |
| QU74 | A6 |      |    |
| RU81 | A3 |      |    |
| RU82 | B3 |      |    |

PD71 A PWB



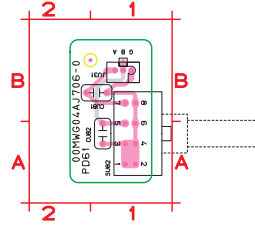
- |      |    |
|------|----|
| JU21 | B2 |
| RU57 | B1 |
| RU58 | B2 |
| RU59 | B1 |
| RU60 | B2 |
| SU81 | A2 |

PD21 A PWB



- |      |    |      |    |
|------|----|------|----|
| CU61 | B3 | RU63 | A5 |
| CU63 | C3 | RU64 | A6 |
| CU64 | C6 | RU66 | C3 |
| CU65 | C5 | RU67 | C6 |
| CU66 | C5 | RU68 | C5 |
| CU67 | B2 | RU69 | C4 |
| CU68 | B2 | RU70 | C3 |
| CU69 | B2 | RU71 | C6 |
| CU70 | B2 | RU72 | C5 |
| DU62 | C4 | RU73 | C5 |
| DU63 | B6 | RU74 | A2 |
| DU64 | B5 | RU75 | A2 |
| DU65 | B3 | SU61 | B2 |
| JU04 | A2 | SU62 | B3 |
| JU91 | C3 | SU63 | B5 |
| QU61 | C3 | SU64 | B6 |
| QU62 | C6 |      |    |
| QU63 | C5 |      |    |
| QU64 | C4 |      |    |
| RU61 | B3 |      |    |
| RU62 | A3 |      |    |

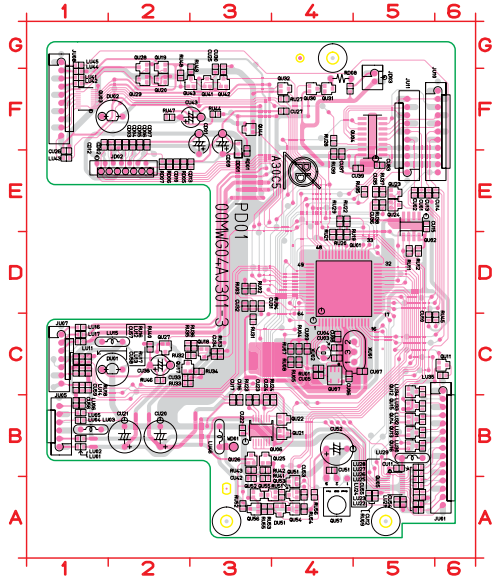
PD61 B PWB



- |      |    |
|------|----|
| CU81 | B1 |
| CU82 | A1 |
| JU31 | B1 |
| SU82 | A1 |

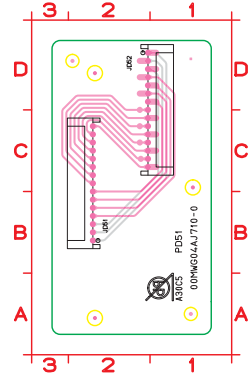
**鉛フリー半田**  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PD01 A PWB



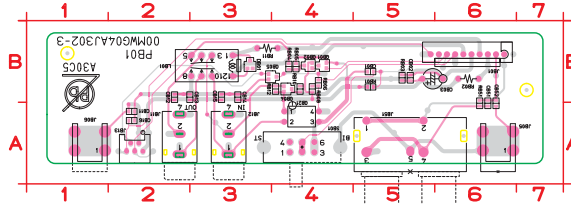
CD01 E3	CU52 B4	LU41 F1	RD07 E2	RU56 A4
CD02 F2	CU53 A4	LU42 F1	RD08 F4	RU94 D3
CD03 F2	CU54 A5	LU43 E1	RU01 C4	RU95 E5
CD04 F2	CU55 A5	LU44 F1	RU02 D3	WD01 B3
CD05 F2	CU56 B1	LU45 G1	RU03 D3	XU01 C5
CD06 F2	CU57 C1	LU46 B3	RU04 C4	XU02 C4
CD07 F2	CU58 C1	QU01 D4	RU05 C4	
CD09 E3	CU59 C1	QU02 E5	RU07 C4	
CD10 E2	CU83 E5	QU03 F1	RU08 C4	
CD12 F1	DD01 F3	QU04 F5	RU09 A5	
CD13 E3	DU01 C2	QU05 A5	RU11 D5	
CU01 E5	DU02 F2	QU06 B3	RU12 D5	
CU02 E5	DU51 A4	QU07 C4	RU13 C3	
CU03 C4	JD02 E1	QU11 C6	RU16 C1	
CU04 C4	JD03 F5	QU12 C5	RU17 C1	
CU05 C4	JU01 C6	QU13 B5	RU18 C1	
CU06 C4	JU05 B1	QU14 B5	RU19 D4	
CU07 C5	JU07 C1	QU15 B5	RU20 D4	
CU08 C4	JU08 G1	QU16 B5	RU21 D4	
CU09 C4	JU10 F6	QU17 C2	RU22 E4	
CU10 C5	JU11 E5	QU18 C3	RU23 B3	
CU11 B5	LU01 B1	QU19 G2	RU24 B4	
CU12 A5	LU02 B1	QU20 F2	RU27 F4	
CU13 E5	LU03 B1	QU21 B4	RU28 F4	
CU14 E6	LU04 B1	QU22 B4	RU29 E4	
CU15 E5	LU05 B1	QU23 E5	RU31 C3	
CU16 B3	LU06 B1	QU24 E5	RU32 C3	
CU17 B3	LU11 C1	QU25 B3	RU33 C2	
CU20 B2	LU12 C1	QU26 B3	RU34 C3	
CU21 B2	LU13 C1	QU27 C2	RU35 C2	
CU22 B3	LU14 C1	QU28 G2	RU36 C3	
CU23 B3	LU15 C1	QU29 F2	RU37 E5	
CU24 B3	LU16 C1	QU30 F4	RU38 E5	
CU25 F3	LU17 C1	QU31 F4	RU39 E4	
CU26 E1	LU21 A5	QU32 F4	RU40 C2	
CU27 F4	LU22 A5	QU41 F3	RU41 A3	
CU30 F3	LU23 A5	QU42 F3	RU42 B3	
CU31 D3	LU24 A5	QU43 F3	RU43 B3	
CU32 D3	LU25 A5	QU44 F3	RU44 F3	
CU33 C2	LU26 A5	QU51 A4	RU45 C6	
CU34 C3	LU27 B5	QU52 A3	RU46 C2	
CU35 E5	LU28 B5	QU53 A4	RU47 F2	
CU36 E5	LU29 B5	QU54 A4	RU48 F2	
CU37 E4	LU30 B5	QU55 A4	RU49 F3	
CU38 C2	LU31 B5	QU56 A3	RU51 A4	
CU39 E5	LU32 B5	QU57 A4	RU52 A3	
CU42 A3	LU33 B5	RD01 E3	RU53 A3	
CU43 F2	LU34 C5	RD05 E2	RU54 A4	
CU51 B4	LU35 C6	RD06 E2	RU55 A3	

PD51 B PWB



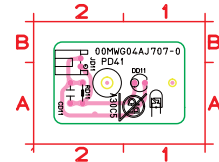
JD51 B2
JD52 D2

PB01 A PWB



CB01 B5	JB13 A2	RB12 B4
CB02 B5	JB51 A5	RB51 A6
CB03 B5	LB01 B3	SB01 A4
CB11 A2	QB01 B4	
CB12 B2	QB02 B4	
CB13 B3	QB04 B4	
CB14 B3	QB05 B4	
CB15 B3	QB21 A4	
CB16 A2	RB01 B5	
CB51 A6	RB02 B6	
CB52 A6	RB03 B5	
DB01 B3	RB04 B4	
JB01 B6	RB05 B4	
JB05 A6	RB06 B4	
JB06 A1	RB08 B4	
JB11 A2	RB10 B4	
JB12 A3	RB11 B3	

PD41 B PWB

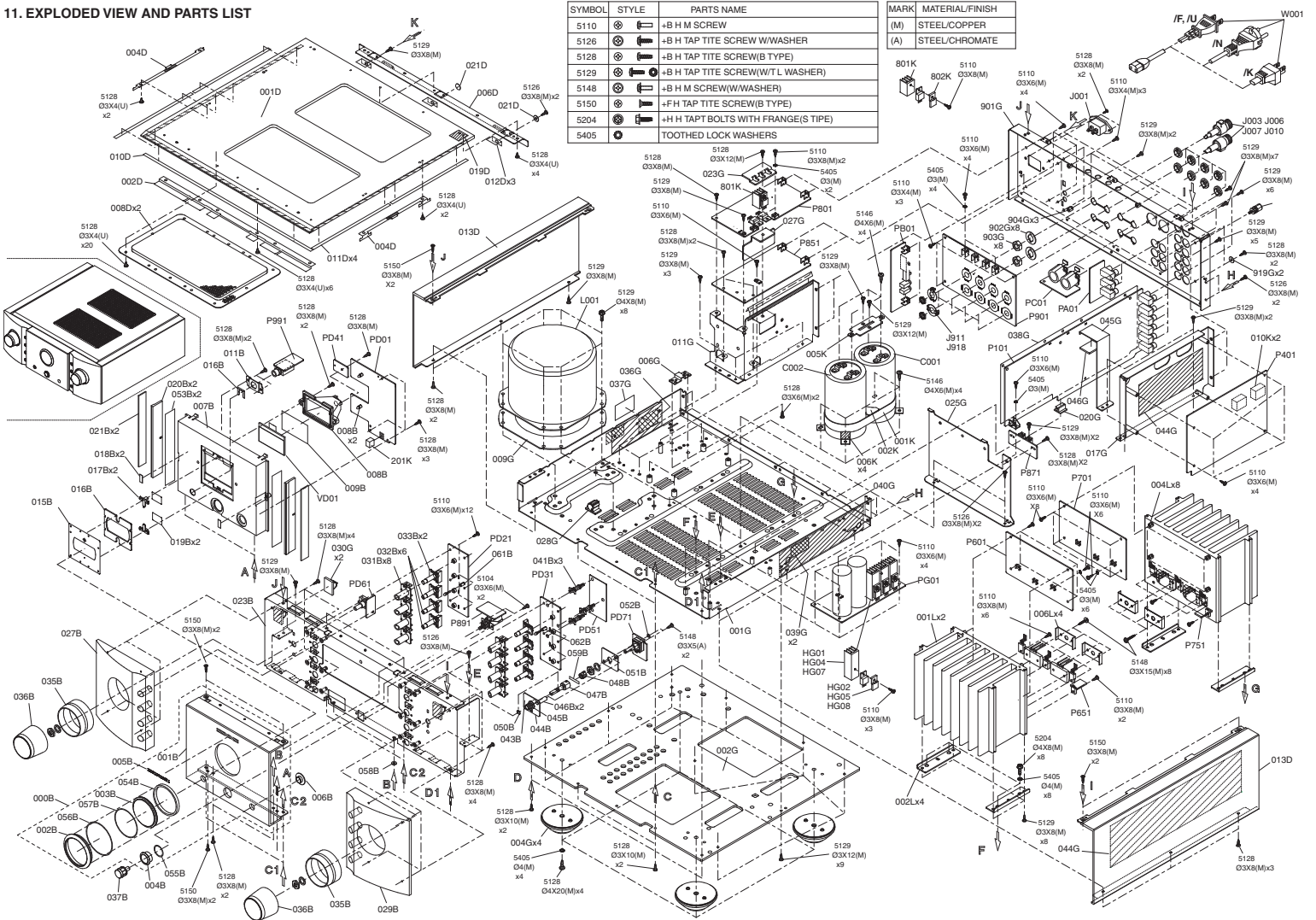


CD11 A2
DD11 A1
JD11 A2
RD11 A2

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

11. EXPLODED VIEW AND PARTS LIST

SYMBOL	STYLE	PARTS NAME	MARK	MATERIAL/FINISH
5110		+B H M SCREW	(M)	STEEL/COPPER
5128		+B H TAP TITE SCREW W/WASHER	(A)	STEEL/CHROMATE
5128		+B H TAP TITE SCREW(B TYPE)		
5129		+B H TAP TITE SCREW(W/TL WASHER)		
5148		+B H M SCREW(W/WASHER)		
5150		+F H TAP TITE SCREW(B TYPE)		
5204		+H H TAP BOLTS WITH FRANGE(S TISE)		
5405		TOOTHED LOCK WASHERS		





P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
	000B	F N	nsp	998402000120M	PANEL ASSY	FRONT PANEL ASSY (GL)
	000B	/K1G	nsp	998402000120M	PANEL ASSY	FRONT PANEL ASSY (GL)
	000B	/N1G	998402000120M	998402000120M	PANEL ASSY	FRONT PANEL ASSY (GL)
	000B	/N1S	998402000130M	998402000130M	PANEL ASSY	FRONT PANEL ASSY (SL)
	000B	/U1G	nsp	998402000120M	PANEL ASSY	FRONT PANEL ASSY (GL)
	006B		00M256J355030	00M256J355030	LENS	IR LENS
	007B		00M04AJ105050	00M04AJ105050	CHASSIS	FRONT MOLD CHASSIS
	015B	F N	nsp	00M04AJ265500	INDICATOR	LCD ESC.KIT
	015B	/K1G	nsp	00M04AJ265500	INDICATOR	LCD ESC.KIT
	015B	/N1G	00M04AJ265500	00M04AJ265500	INDICATOR	LCD ESC.KIT
	015B	/N1S	00M04AJ265510	00M04AJ265510	INDICATOR	LCD ESC.KIT (SILVER)
	015B	/U1G	nsp	00M04AJ265500	INDICATOR	LCD ESC.KIT
	020B		00M04AJ355030	00M04AJ355030	LENS	LENS SIDE
	027B		nsp	00M04AJ063110	ESCUTCHEON	SIDE ESC.(L/GL)
	027B	/K1G	nsp	00M04AJ063110	ESCUTCHEON	SIDE ESC.(L/GL)
	027B	/N1G	00M04AJ063110	00M04AJ063110	ESCUTCHEON	SIDE ESC.(L/GL)
	027B	/N1S	00M04AJ063210	00M04AJ063210	ESCUTCHEON	SIDE ESC.(L/SI)
	027B	/U1G	nsp	00M04AJ063110	ESCUTCHEON	SIDE ESC.(L/GL)
	029B	F N	nsp	00M04AJ063120	ESCUTCHEON	SIDE ESC.(R/GL)
	029B	/K1G	nsp	00M04AJ063120	ESCUTCHEON	SIDE ESC.(R/GL)
	029B	/N1G	00M04AJ063120	00M04AJ063120	ESCUTCHEON	SIDE ESC.(R/GL)
	029B	/N1S	00M04AJ063220	00M04AJ063220	ESCUTCHEON	SIDE ESC.(R/SI)
	029B	/U1G	nsp	00M04AJ063120	ESCUTCHEON	SIDE ESC. R/GL
	031B	F N	nsp	00M04AJ259210	BUSHING	FUNCTION BUTTON BUSH GOLD
	031B	/K1G	nsp	00M04AJ259210	BUSHING	FUNCTION BUTTON BUSH GOLD
	031B	/N1G	00M04AJ259210	00M04AJ259210	BUSHING	FUNCTION BUTTON BUSH GOLD
	031B	/N1S	00M04AJ259110	00M04AJ259110	BUSHING	FUNCTION BUTTON BUSH SILVER
	031B	/U1G	nsp	00M04AJ259210	BUSHING	FUNCTION BUTTON BUSH GOLD
	032B	F N	nsp	00M04AJ270120	BUTTON	FUNCTION BUTTON LIGHTING (GL)
	032B	/K1G	nsp	00M04AJ270120	BUTTON	FUNCTION BUTTON LIGHTING (GL)
	032B	/N1G	00M04AJ270120	00M04AJ270120	BUTTON	FUNCTION BUTTON LIGHTING (GL)
	032B	/N1S	00M04AJ270220	00M04AJ270220	BUTTON	FUNCTION BUTTON LIGHTING (SL)
	032B	/U1G	nsp	00M04AJ270120	BUTTON	FUNCTION BUTTON LIGHTING (GL)
	033B	F N	nsp	00M04AJ270130	BUTTON	FUNCTION BUTTON (GL)
	033B	/K1G	nsp	00M04AJ270130	BUTTON	FUNCTION BUTTON (GL)
	033B	/N1G	00M04AJ270130	00M04AJ270130	BUTTON	FUNCTION BUTTON (GL)
	033B	/N1S	00M04AJ270230	00M04AJ270230	BUTTON	FUNCTION BUTTON (SI)
	033B	/U1G	nsp	00M04AJ270130	BUTTON	FUNCTION BUTTON (GL)
	035B	F N	nsp	00M04AJ353110	RING	MASTER KNOB RING (GL)
	035B	/K1G	nsp	00M04AJ353110	RING	MASTER KNOB RING (GL)
	035B	/N1G	00M04AJ353110	00M04AJ353110	RING	MASTER KNOB RING (GL)
	035B	/N1S	00M04AJ353210	00M04AJ353210	RING	MASTER KNOB RING (SL)
	035B	/U1G	nsp	00M04AJ353110	RING	MASTER KNOB RING (GL)
	036B	F N	nsp	00M10AJ154110	KNOB	MASTER KNOB (GL)
	036B	/K1G	nsp	00M10AJ154110	KNOB	MASTER KNOB (GL)
	036B	/N1G	00M10AJ154110	00M10AJ154110	KNOB	MASTER KNOB (GL)
	036B	/N1S	00M10AJ154210	00M10AJ154210	KNOB	MASTER KNOB (SL)
	036B	/U1G	nsp	00M10AJ154110	KNOB	MASTER KNOB (GL)
	037B	F N	nsp	00M04AJ270110	BUTTON	POWER BUTTON (GL)
	037B	/K1G	nsp	00M04AJ270110	BUTTON	POWER BUTTON (GL)
	037B	N1	00M04AJ270110	00M04AJ270110	BUTTON	POWER BUTTON (GL)
	037B	/N1S	00M04AJ270210	00M04AJ270210	BUTTON	POWER BUTTON (SL)
	037B	/U1G	nsp	00M04AJ270110	BUTTON	POWER BUTTON (GL)
	001D	F N	nsp	00M21AJ257110	LID	TOP COVER AL TYPE GL (HOLE TYPE)
	001D	/K1G	nsp	00M21AJ257110	LID	TOP COVER AL TYPE GL (HOLE TYPE)
	001D	/N1G	00M21AJ257110	00M21AJ257110	LID	TOP COVER AL TYPE GL (HOLE TYPE)
	001D	/N1S	00M21AJ257210	00M21AJ257210	LID	TOP COVER AL TYPE SL (HOLE TYPE)
	001D	/U1G	nsp	00M21AJ257110	LID	TOP COVER AL TYPE GL (HOLE TYPE)
	008D	F N	nsp	00M21AJ003110	PERFORATED	TOP COVER NET GL
	008D	/K1G	nsp	00M21AJ003110	PERFORATED	TOP COVER NET GL
	008D	/N1G	00M21AJ003110	00M21AJ003110	PERFORATED	TOP COVER NET GL
	008D	/N1S	00M21AJ003210	00M21AJ003210	PERFORATED	TOP COVER NET SL
	008D	/U1G	nsp	00M21AJ003110	PERFORATED	TOP COVER NET GL
	013D	F N	nsp	00M04AJ249110	SIDE PANEL	SIDE PANEL (GL)
	013D	/K1G	nsp	00M04AJ249110	SIDE PANEL	SIDE PANEL (GL)
	013D	/N1G	00M04AJ249110	00M04AJ249110	SIDE PANEL	SIDE PANEL (GL)
	013D	/N1S	00M04AJ249210	00M04AJ249210	SIDE PANEL	SIDE PANEL (SI)

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
	013D	/U1G	nsp	00M04AJ249110	SIDE PANEL	SIDE PANEL (GL)
	004G	F N	nsp	00M04AJ057510	LEG	LEGS(GOLD)
	004G	/K1G	nsp	00M04AJ057510	LEG	LEGS(GOLD)
	004G	/N1G	00M04AJ057510	00M04AJ057510	LEG	LEGS(GOLD)
	004G	/N1S	00M04AJ057520	00M04AJ057520	LEG	LEGS(SILVER)
	004G	/U1G	nsp	00M04AJ057510	LEG	LEGS(GOLD)
	C001		134710170000M	134710170000M	ELECT. CAP	LKGH2223MSGTZT FOR PM11S2
	C002		134710170000M	134710170000M	ELECT. CAP	LKGH2223MSGTZT FOR PM11S2
	▲J001		00MYJ04002640	00MYJ04002640	JACK	! R-301(21) AC INLET
	J003		00MYT01010360	00MYT01010360	TERMINAL	WBT-0765 POLE TERMINAL RED
	J004		00MYT01010360	00MYT01010360	TERMINAL	WBT-0765 POLE TERMINAL RED
	J005		00MYT01010360	00MYT01010360	TERMINAL	WBT-0765 POLE TERMINAL RED
	J006		00MYT01010360	00MYT01010360	TERMINAL	WBT-0765 POLE TERMINAL RED
	J007		00MYT01010370	00MYT01010370	TERMINAL	WBT-0765 POLE TERMINAL WHT
	J008		00MYT01010370	00MYT01010370	TERMINAL	WBT-0765 POLE TERMINAL WHT
	J009		00MYT01010370	00MYT01010370	TERMINAL	WBT-0765 POLE TERMINAL WHT
	J010		00MYT01010370	00MYT01010370	TERMINAL	WBT-0765 POLE TERMINAL WHT
	J011		00MYL03010300	00MYL03010300	TERMINAL	GLD GND TERMINAL W/M3 TAPTIGHT
	▲L001	F N	nsp	00MTS45001190	TRANSF.	# POWER TRANS FOR PM-11S2(100V)
	▲L001	/K1G	nsp	00MTS45001210	TRANSF.	# POWER TRANS FOR PM-11S2(230V)
	▲L001	/N1G	00MTS45001210	00MTS45001210	TRANSF.	# POWER TRANS FOR PM-11S2(230V)
	▲L001	/N1S	00MTS45001210	00MTS45001210	TRANSF.	# POWER TRANS FOR PM-11S2(230V)
	▲L001	/U1G	nsp	00MTS45001200	TRANSF.	# POWER TRANS FOR PM-11S2, 120V,
	L003		00MFC50160030	00MFC50160030	FERRITE CORE	FERRITE CORE TFCK-16813
	L004		00MFC50160030	00MFC50160030	FERRITE CORE	FERRITE CORE TFCK-16813
	L005		00MFC50160030	00MFC50160030	FERRITE CORE	FERRITE CORE TFCK-16813
	P101		nsp	nsp	PWB ASSY	PRE AMP PWB ASSY
	P401		nsp	nsp	PWB ASSY	PHONO/BALANCE PWB ASSY
	P601		nsp	nsp	PWB ASSY	L CH POWER AMP PWB ASSY
	P651		nsp	nsp	PWB ASSY	L CH POSISTOR PWB ASSY
	P701		nsp	nsp	PWB ASSY	R CH POWER AMP PWB ASSY
	P751		nsp	nsp	PWB ASSY	R CH POSISTOR PWB ASSY
	P801		nsp	nsp	PWB ASSY	POWER SUPPLY PWB ASSY
	P851		nsp	nsp	PWB ASSY	SOFT START PWB ASSY
	P871		nsp	nsp	PWB ASSY	GND TO CHASSIS PWB ASSY
	P891		nsp	nsp	PWB ASSY	POWER SWITCH PWB ASSY
	P901		nsp	nsp	PWB ASSY	SPEAKER OUT PWB ASSY
	P991		nsp	nsp	PWB ASSY	HEAD PHONE PWB ASSY
	PA01		nsp	nsp	PWB ASSY	PREOUT/RECOU PWB ASSY
	PB01		nsp	nsp	PWB ASSY	BUS INTERFACE PWB ASSY
	PC01		nsp	nsp	PWB ASSY	BALANCE INPUT PWB ASSY
	PD01		nsp	nsp	PWB ASSY	U-COM PWB ASSY
	PD21		nsp	nsp	PWB ASSY	TACT SWITCH LEFT PWB ASSY
	PD31		nsp	nsp	PWB ASSY	TACT SWITCH RIGHT PWB ASSY
	PD41		nsp	nsp	PWB ASSY	BACK LIGHT PWB ASSY
	PD51		nsp	nsp	PWB ASSY	15P WIRE JOINT PWB ASSY
	PD61		nsp	nsp	PWB ASSY	SELECTOR PWB ASSY
	PD71		nsp	nsp	PWB ASSY	VOLUME PWB ASSY
	PG01		nsp	nsp	PWB ASSY	REGULATOR PWB ASSY
	VD01		00MHQ22901990	00MHQ22901990	DISPLAY	LCD MODULE FOR PM-11S1
<b>PA KIN</b>						
	001T	F N	nsp	541110120012M	USER GUIDE	USER GUIDE PM-11S2 (F)
	001T	/K1G	nsp	541110120050M	USER GUIDE	USER GUIDE PM-11S2 (K)
	001T	/N1G	541110120036M	541110120036M	USER GUIDE	USER GUIDE PM-11S2 (N)
	001T	/N1S	541110120036M	541110120036M	USER GUIDE	USER GUIDE PM-11S2 (N)
	001T	/U1G	nsp	541110120036M	USER GUIDE	USER GUIDE PM-11S2 (N)
	▲W001	F N	nsp	00D2062141002	MAINS CORD	# MAINS CORD W/CON&PLUG
	▲W001	/K1G	nsp	00MZC01808030	MAINS CORD	# MAINS CORD CHINA 250V 10A
	▲W001	/N1G	00MZC01803080	00MZC01803080	MAINS CORD	# 2P MAINS CORD 10A 250V CLASS2
	▲W001	/N1S	00MZC01803080	00MZC01803080	MAINS CORD	# 2P MAINS CORD 10A 250V CLASS2
	▲W001	/U1G	nsp	00MZC01802100	MAINS CORD	# MAINS CORDSET 125V13A UL/CSA
	Z001		00MZK340J0020	00MZK340J0020	UNIT KIT	REMOTE CONTROLLER RC001PM
<b>NOT STANDARD SPARE PART</b>						
	001S		nsp	531210036003M	PACKING CASE	PACKING CASE PM-11S2
	002S		nsp	00M04AJ809010	CUSHION	CUSHION (L)
	003S		nsp	00M04AJ809020	CUSHION	CUSHION (R)
	007S	/N1G	nsp	531210037006M	MASS CARTON	MASTER CARTON PM-11S2

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
	007S	/N1S	nsp	531210037006M	MASS CARTON	MASTER CARTON PM-11S2

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

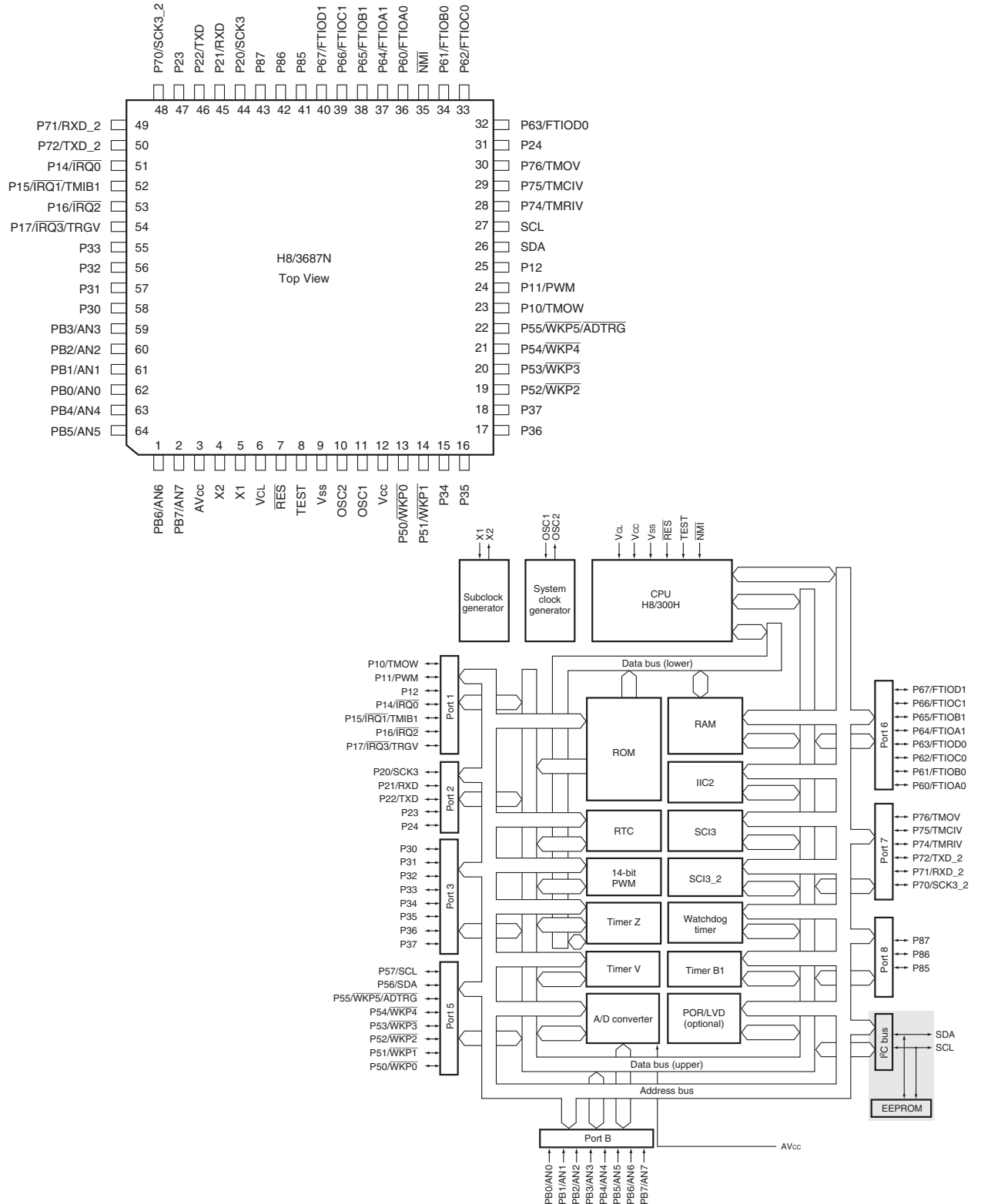
## 12. MICROPROCESSOR AND IC DATA

PD01 / QU01 : H8/3687

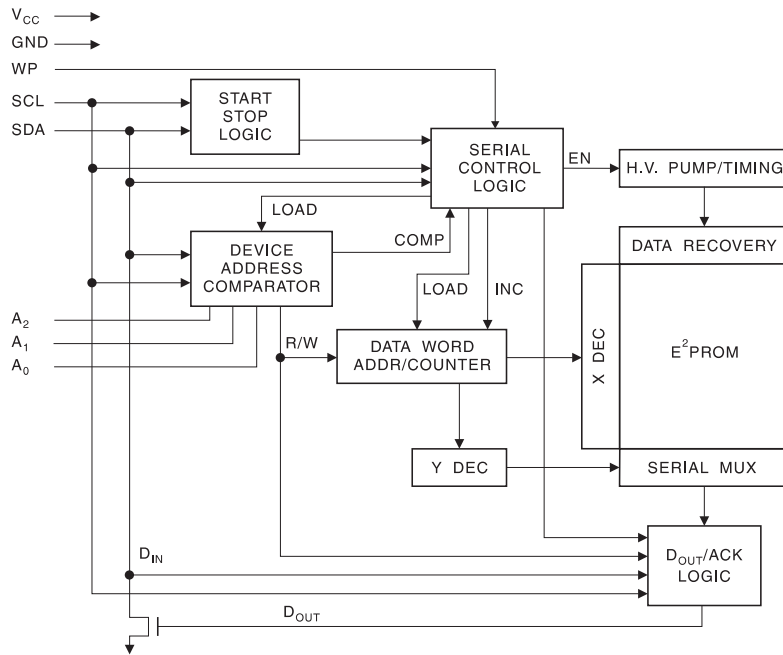
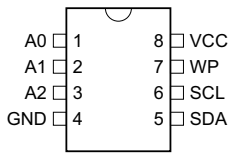
Pin	PORT	SIGNAL NAM	I/O	Functions	Description
1	PB6_AN6	AD2	I	Left key A/D pin	
2	PB7_AN7	AD1	I	Model select	H/L = PM-11A/PM-11B
3	AVcc	AVCC	I	Analog power supply	
4	X2	X2	O	Sub clock output	
5	X1	X1	I	Sub clock input	32.758kHz
6	VCL	VCI	I	Internal step-down power supply	
7	/RES	RES	I	Reset pin	
8	TEST	TEST	I	Test pin	Connect to GND
9	Vss	GND	I	GND	
10	OSC2	OSC2	O	Main clock output	
11	OSC1	OSC1	I	Main clock input	8MHz
12	Vcc	VCC	I	+3.3V Power supply	
13	P50_/WKP0	VOLA	I	Volume A	External trigger(Active H)
14	P51_/WKP1	VOLB	I	Volume B	External trigger(Active H)
15	P34	T_CE_R	O	Rch NJU7312 chip select	
16	P35	T_CE_L	O	Lch NJU7312 chip select	
17	P36	T_DI	O	NJU7312 serial data output	
18	P37	T_CL	O	NJU7312 clock	
19	P52_/WKP2	SEL_A	I	Input selector A	External trigger(Active H)
20	P53_/WKP3	SEL_B	I	Input selector B	External trigger(Active H)
21	P54_/WKP4	MUTE_D	O	Pre out relay ON/OFF	Active L(MUTE ON)
22	P55_/WKP5_/ADTRG	AD_INT	I	A/D trigger	External trigger(Active L)
23	P10_TMOW	MUTE_VOL	O	WM8816 mute	Active H(MUTE ON)
24	P11_PWM	POW_ON_2	O	Soft start relay ON/OFF	H/L = POW_ON/POW_OFF
25	P12	POW_ON_1	O	Main power relay ON/OFF	H/L = POW_ON/POW_OFF
26	P56_SDA	SDA	I/O	AT24C08 serial data	I2C_DATA
27	P57_SCL	SCL	O	AT24C08 clock	I2C_CLOCK
28	P74_TMRIV	VOL_CSL	O	Lch WM8816 chip select	Active H
29	P75_TMCIV	VOL_CSR	O	Rch WM8816 chip select	Active H
30	P76_TMOV	KILL_IR	O	IR sensor ON/OFF	Active L(SENSOR off)
31	P24	RC_OUT	O	IR capture output	
32	P63_FTIOD0	L_DATA	O	LCD data out	
33	P62_FTIOC0	BL_ON	O	LCD back light ON/OFF	H/L = ON/OFF
34	P61_FTIOB0	OPR_ON	O	Operate LED ON	H/L = ID0,ID1/ID2,ID3
35	/NMI	ICE4	I	ICE connect pin4	ICE brake control
36	P60_FTIOA0	Reserved	-	-	
37	P64_FTIOA1	RC_IN	I	IR capture input	IR capture input(Active L)
38	P65_FTIOB1	VOL_CLK	O	WM8816 clock	
39	P66_FTIOC1	VOL_DAT	I/O	WM8816 serial data	
40	P67_FTIOD1	Reserved	-	-	
41	P85	ICE1	-	ICE connect pin1	
42	P86	ICE2	-	ICE connect pin2	
43	P87	ICE3	-	ICE connect pin3	
44	P20_SCK3	S_OE	O	74HC4094 output enable	Active H
45	P21_RXD	RXD	I	System bus serial data input	
46	P22_TXD	TXD	O	System bus serial data output	
47	P23	BI	I	BI-AMP/Stereo select	H/L = STEREO/BI_AMP
48	P70_SCK3-2	S_CLK	O	74HC4094 clock	
49	P71_RXD-2	S_CE	O	74HC4094 chip select	Active L
50	P72_TXD-2	S_DATA	O	74HC4094 serial data output	
51	P14_/IRQ0	SW_ON	O	BUS SW control	H/L = Disconnect/Connect
52	P15_/IRQ1_TMIB1	P_DOWN	I	Power down detect	External trigger(Active H)
53	P16_/IRQ2	PROT_2	I	Power supply error detect	Active L(POW_OFF)
54	P17_/IRQ3_TRGV	PROT_1	I	DC/over current/Temp detect	Active H(VOL - ∞)
55	P33	L_CS	O	LCD-Controller(SPLC093C) chip select	Active L
56	P32	L_SCL	O	LCD-Controller(SPLC093C) Serial cloc out	

PD01 / QU01 : H8/3687

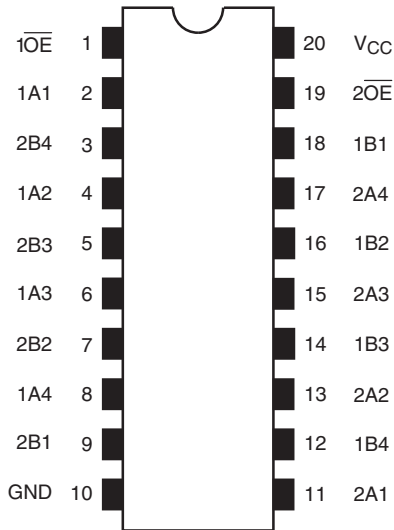
Pin	PORT	SIGNAL NAM	I/O	Functions	Description
57	P31	L_RS	O	LCD-Controller(SPLC093C) register setting	H/L = Data/Instruction
58	P30	L_RES	O	LCD-Controller(SPLC093C) reset	Active L(Reset)
59	PB3_AN3	TEST_1	I	PCB mode setting 1	Port check 1
60	PB2_AN2	TEST_2	I	PCB mode setting 2	Port check 2
61	PB1_AN1	D-SET	I	LCD-Controller(SPLC093C) mode setting	H/L 100msec, each time
62	PB0_AN0	AD3	I	Right key A/D pin	
63	PB4_AN4	HP_DET	I	Head phone jack detect	Active L(Head phone jack detect)
64	PB5_AN5	Reserved	-	-	



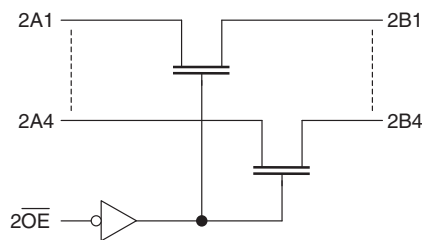
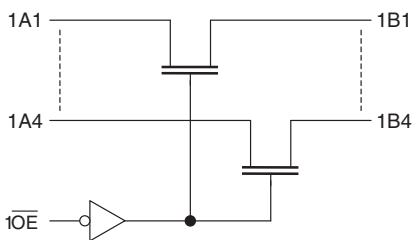
PD01 / QU02 : AT24C08



PD01 / QU03, QU05 : TC7MBD3244AFK

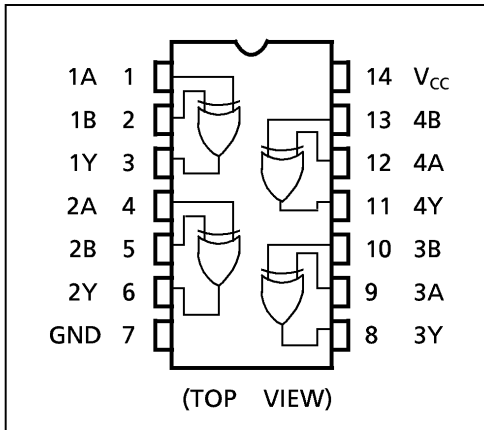


Inputs	Function
$\overline{OE}$	
L	A port B port
H	Disconnect

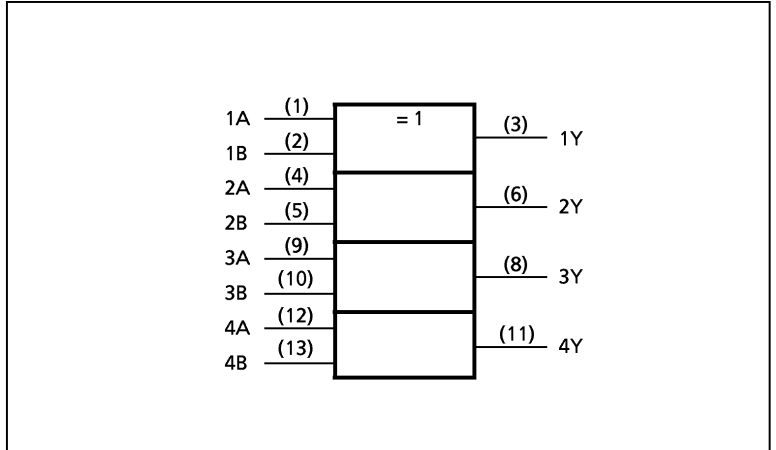


PD01 / QU06 : TC74VHC86F

PIN ASSIGNMENT



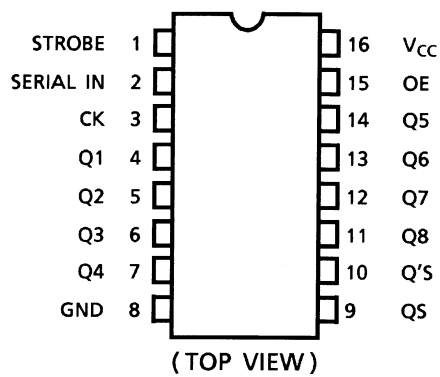
IEC LOGIC SYMBOL



TRUTH TABLE

A	B	Y
L	L	L
L	H	H
H	L	H
H	H	L

PD01 / QU04, P101 / Q121, Q122 : 74HC4094



**PD01 / QU04, P101 / Q121, Q122 : 74HC4094**

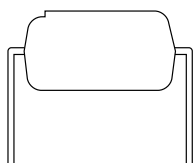
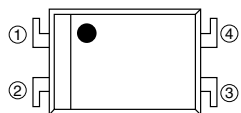
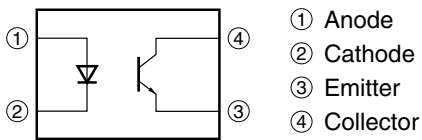
Q121 : 74HC4094

Pin no	Port	I/O	Name	Function	Description
1	CE	IN	STOROBE		
2	DATA	IN	DATA		
3	CLK	IN	CLOCK		
4	Q1	OUT	LINE_2	Line_2 input relay ON	Active H
5	Q2	OUT	REC_1	Recorder_1 input relay ON	Active H
6	Q3	OUT	REC_2	Recorder_2 input relay ON	Active H
7	Q4	OUT	BI-AMP	Bi-amp relay ON	Active H
8	GND		GND		
9	QS	OUT	-	-	-
10	Q'S	OUT	-		
11	Q8	OUT	LINE_1	Line_1 input relay ON	Active H
12	Q7	OUT	CD	CD input relay ON	Active H
13	Q6	OUT	BAL	Balanced input relay ON	Active H
14	Q5	OUT	PHONO	Phono input relay ON	Active H
15	OE	IN	OUTPUT ENABLE		
16	VCC		VCC		

Q122 : 74HC4094

Pin no	Port	I/O	name	Function	Description
1	CE	IN	STROBE		
2	DATA	IN	DATA		
3	CLK	IN	CLOCK		
4	Q1	OUT	TONE	Tone relay ON	Active H
5	Q2	OUT	SPK1	Speaker output relay ON	Active H
6	Q3	OUT	SPK2	Speaker output relay ON	Active H
7	Q4	OUT	HP	Headphone output relay ON	Active H
8	GND		GND		
9	QS	OUT	-	-	
10	Q'S	OUT	SERIAL OUTPUT	-	
11	Q8	IN	-	-	
12	Q7	OUT	RO_2	Recorder_2 output relay ON	Active H
13	Q6	OUT	RO_1	Recorder_1 output relay ON	Active H
14	Q5	OUT	MM	Phono MM relay ON	Active H
15	OE	IN	OUTPUT ENABLE		
16	VCC		VCC		

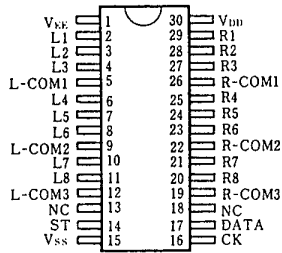
**PD01 / QB21: PC817**



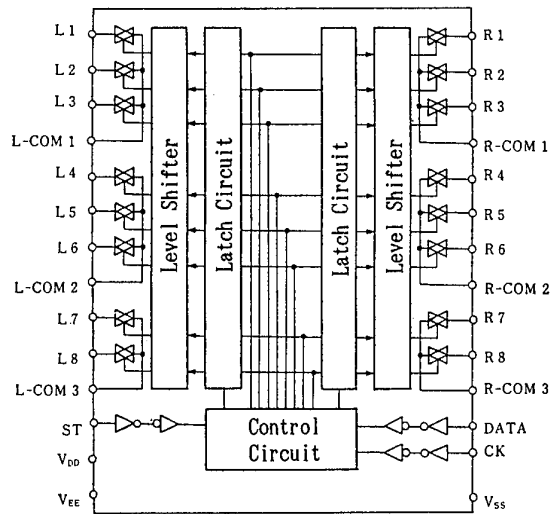


P101 / Q301, Q302 : NJU7312

■ BLOCK DIAGRAM



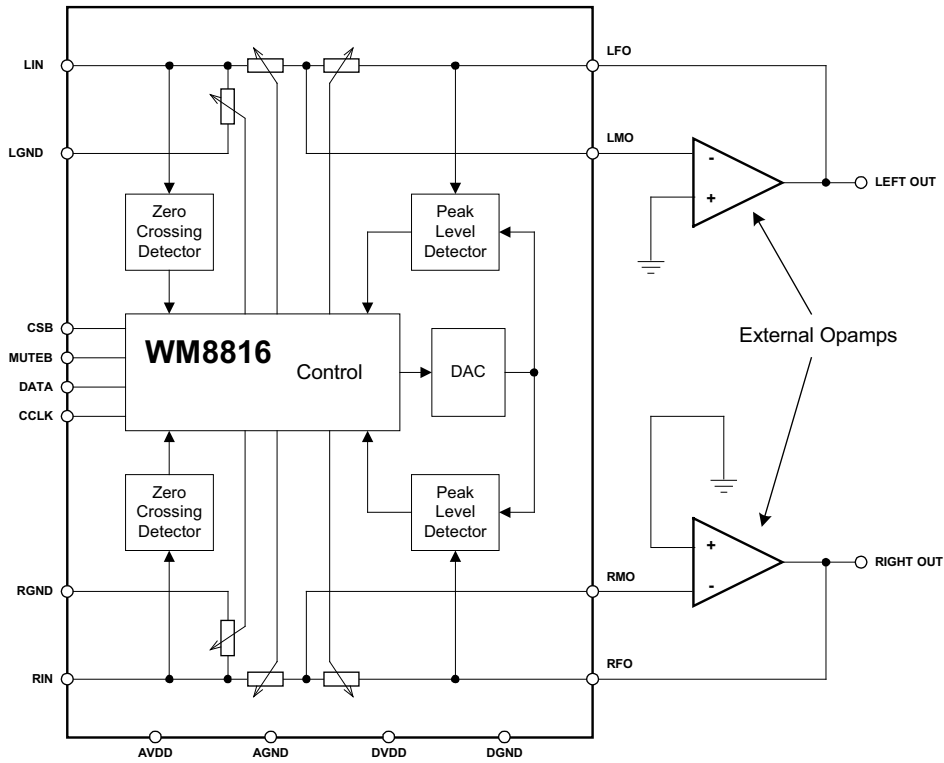
NJU7312AM



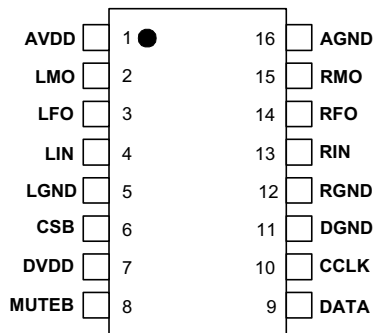
■ TERMINALS DESCRIPTION

No.		SYMBOL	FUNCTIONS	No.		SYMBOL	FUNCTIONS
DIP	DMP			DIP	DMP		
1	1	V <sub>EE</sub>	15	16	CK	Clock input	
2	2	L1	16	17	DATA	Data input	
3	3	L2	17	19	R-COM3	R7, L8 Common	
4	4	L3	18	20	R8	Analog switch input/output	
5	5	L-COM1	19	21	R7		
6	6	L4	20	22	R-COM2	R4, R5, R6 Common	
7	7	L5	21	23	R6	Analog switch input/output	
8	8	L6	22	24	R5		
9	9	L-COM2	23	25	R4		
10	10	L7	24	26	R-COM1	R1, R2, R3 Common	
11	11	L8	25	27	R3	Analog switch input/output	
12	12	L-COM3	26	28	R2		
13	14	ST	27	29	R1		
14	15	V <sub>SS</sub>	28	30	V <sub>DD</sub>	Positive voltage supply	

**BLOCK DIAGRAM**



**PIN CONFIGURATION**



**PIN DESCRIPTION**

PIN	NAME	TYPE	DESCRIPTION
1	AVDD	Supply	Supply Voltage for Analogue Circuitry
2	LMO	Analogue Output	External Op-amp Inverting Input (Left Channel)
3	LFO	Analogue Input	External Op-amp Feedback Signal (Left Channel)
4	LIN	Analogue Input	Input Signal (Left Channel)
5	LGND	Analogue Input	Input Signal Ground (Left Channel)
6	CSB	Digital Input	Chip Select (active low)
7	DVDD	Supply	Supply Voltage for Digital Circuitry
8	MUTE B	Digital Input	Mute (active low)
9	DATA	Digital In / Out	Serial Interface Data Input / Output (tri-state)
10	CCLK	Digital Input	Serial Interface Clock
11	DGND	Supply	Digital Ground
12	RGND	Analogue Input	Input Signal Ground (Right Channel)
13	RIN	Analogue Input	Input Signal (Right Channel)
14	RFO	Analogue Input	External Op-amp Feedback Signal (Right Channel)
15	RMO	Analogue Output	External Op-amp Inverting Input (Right Channel)
16	AGND	Supply	Analogue Ground

### 13. ELECTRICAL PARTS LIST

#### PARTS INFORMATION

##### RESISTORS

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

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

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

Examples ;

④ Capacity value

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

###### ELECTROLY CAP. ( $\frac{||}{|}$ )

- 00MEA × × × × 10, Electrolytic capacitor One-way lead type, Tolerance ±20%
- ⑤ — Working voltage  
⑥ — 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. ( $\frac{||}{|}$ )

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

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

\* Resistance value Resistance value (0.1 10kΩ)

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

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

\* Resistance value \* Resistance value

Examples ;

\* Resistance value

0.1Ω .... 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	X'TAL : CRYSTAL


#### NOTE ON FUSE :

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

#### NOTE ON SAFETY :

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

#### 安全上の注意 :

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
					<b>PRE AMP PWB (P101) (00MWG04AJ701-)</b>	
P101	C121		nsp	00MOA476025Z0	ELECT. CAP.	47 UF M 25V RA-2
P101	C131		nsp	00MOA226050Z0	ELECT. CAP.	22 UF M 50V RA-2
P101	C151		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C152		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C155		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C156		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C157		nsp	00MOA227025Z0	ELECT. CAP.	220 UF M 25V RA-2
P101	C158		nsp	00MOA227025Z0	ELECT. CAP.	220 UF M 25V RA-2
P101	C201		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C202		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C203		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	C204		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	C205		00MOF55220590	00MOF55220590	FILM CAP.	22PF 200V +- 5% FAS
P101	C206		00MOF55220590	00MOF55220590	FILM CAP.	22PF 200V +- 5% FAS
P101	C207		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C208		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C209		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -I6#PE - S13 (470UF 25V)
P101	C210		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -I6#PE - S13 (470UF 25V)
P101	C211		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -I6#PE - S13 (470UF 25V)
P101	C212		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -I6#PE - S13 (470UF 25V)
P101	C213		00MOF15101540	00MOF15101540	FILM CAP.	100PF J 100V APSV
P101	C214		00MOF15101540	00MOF15101540	FILM CAP.	100PF J 100V APSV
P101	C301		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C302		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C303		00MOF15101540	00MOF15101540	FILM CAP.	100PF J 100V APSV
P101	C304		00MOF15101540	00MOF15101540	FILM CAP.	100PF J 100V APSV
P101	C305		00MOF15101540	00MOF15101540	FILM CAP.	100PF J 100V APSV
P101	C306		00MOF15101540	00MOF15101540	FILM CAP.	100PF J 100V APSV
P101	C309		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C310		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C311		00MOF15472540	00MOF15472540	FILM CAP.	4700PF J 100V APSV
P101	C312		00MOF15472540	00MOF15472540	FILM CAP.	4700PF J 100V APSV
P101	C313		00MOF15101540	00MOF15101540	FILM CAP.	100PF J 100V APSV
P101	C314		00MOF15101540	00MOF15101540	FILM CAP.	100PF J 100V APSV
P101	C315		nsp	00MOA225050Z0	ELECT. CAP.	2.2 UF M 50V RA-2
P101	C316		nsp	00MOA225050Z0	ELECT. CAP.	2.2 UF M 50V RA-2
P101	C317		00MOF15104040	00MOF15104040	FILM CAP.	0.1UF 50V +- 5% MTFVA0050J104
P101	C318		00MOF15104040	00MOF15104040	FILM CAP.	0.1UF 50V +- 5% MTFVA0050J104
P101	C319		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P101	C320		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P101	C321		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P101	C322		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P101	C323		nsp	00MOA226050Z0	ELECT. CAP.	22 UF M 50V RA-2
P101	C403	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	C403	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	C403	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	C404	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	C404	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	C404	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	C501		nsp	00MOA476025Z0	ELE T. AP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C502		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C503		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C504		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C505		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C506		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	C511		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	C512		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	C513		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C514		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
P101	C515		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -I6#PE - S13 (470UF 25V)
P101	C516		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -I6#PE - S13 (470UF 25V)
P101	C517		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -I6#PE - S13 (470UF 25V)
P101	C518		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -I6#PE - S13 (470UF 25V)
P101	C519		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P101	C520		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P101	C521		00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS

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	C522		00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P101	C523		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P101	CA03	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA03	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA03	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA04	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA04	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA04	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA05		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P101	CA06		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P101	CA07		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	CA08		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	CA09		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA10		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA11		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	CA12		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	CA23	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA23	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA23	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA24	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA24	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA24	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA25		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 10UF 35V
P101	CA26		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P101	CA27		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	CA28		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	CA29		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA30		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA31		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	CA32		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	CA43	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA43	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA43	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA44	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA44	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA44	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA45		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P101	CA46		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P101	CA47		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	CA48		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P101	CA49		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA50		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA51		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	CA52		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	CA63	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA63	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA63	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA64	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA64	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA64	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	A		nsp	00MOA106035Z0	ELE T. AP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P101	CA66		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P101	CA67		00MOF55331580	00MOF55331580	FILM CAP.	330PF 100V +- 5% FNS
P101	CA68		00MOF55331580	00MOF55331580	FILM CAP.	330PF 100V +- 5% FNS
P101	CA69		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA70		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA71		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	CA72		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	CA83	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA83	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA83	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA84	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA84	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA84	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
P101	CA85		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P101	CA86		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P101	CA87		00MOF55331580	00MOF55331580	FILM CAP.	330PF 100V +- 5% FNS

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	CA88		00MOF55331580	00MOF55331580	FILM CAP.	330PF 100V +- 5% FNS
P101	CA89		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA90		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P101	CA91		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	CA92		nsp	00MOA476025R0	ELECT. CAP.	ROA-25V 470M -G3# - T2
P101	D101		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D102		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D103		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D104		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D105		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D106		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D107		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D108		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D151		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D152		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D205		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P101	D206		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P101	D207		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P101	D208		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P101	D209		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D210		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D211		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D305		00MHD31601000	00MHD31601000	ZENER DIODE	16V ZENER EQUIVALENT
P101	D306		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	D505		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P101	D506		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P101	D507		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P101	D508		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P101	D509		nsp	00MHD20002000	DIODE	1SS133 T-77
P101	J401		00MYT02021390	00MYT02021390	TERMINAL	2P CINCH JACK (T6743 BLK/BLK)
P101	JA01		00MYT02021390	00MYT02021390	TERMINAL	2P CINCH JACK (T6743 BLK/BLK)
P101	JA21		00MYT02021390	00MYT02021390	TERMINAL	2P CINCH JACK (T6743 BLK/BLK)
P101	JA41		00MYT02021390	00MYT02021390	TERMINAL	2P CINCH JACK (T6743 BLK/BLK)
P101	JA61		00MYT02021390	00MYT02021390	TERMINAL	2P CINCH JACK (T6743 BLK/BLK)
P101	JA81		00MYT02021390	00MYT02021390	TERMINAL	2P CINCH JACK (T6743 BLK/BLK)
P101	L101		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L102		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L103		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L104		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L105		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L106		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L107		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L108		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L151		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L152		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L201		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L202		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L301		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L302		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P101	L303		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS (B-01-AT1F)
P101	L501		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEAD B- 1-AT1F,
P101	Q101		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q102		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q103		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q104		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q105		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q106		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q107		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q108		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q109		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q121		00MHC709449B0	00MHC709449B0	IC	74HC4094 16PIN DIP
P101	Q122		00MHC709449B0	00MHC709449B0	IC	74HC4094 16PIN DIP
P101	Q151		00MHC10053090	00MHC10053090	IC	IC NJM2068DD MONO ANA
P101	Q153		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q154		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q201		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q202		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	Q203		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q204		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q205		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q206		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q207		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q208		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q209		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q210		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q211		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q212		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q213		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q214		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q215		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q216		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q217		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
P101	Q218		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q219		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q220		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q221		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q222		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q301		00MHC12247090	00MHC12247090	IC	NJU7312AM ANALOG SW
P101	Q302		00MHC12247090	00MHC12247090	IC	NJU7312AM ANALOG SW
P101	Q303		00MHC10053090	00MHC10053090	IC	IC NJM2068DD MONO ANA
P101	Q304		00MHC10053090	00MHC10053090	IC	IC NJM2068DD MONO ANA
P101	Q305		00MHC10053090	00MHC10053090	IC	IC NJM2068DD MONO ANA
P101	Q306		00MHC10053090	00MHC10053090	IC	IC NJM2068DD MONO ANA
P101	Q307		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q308		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q309		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q310		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q311		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P101	Q501		00MHC10211990	00MHC10211990	IC	WM8816EDW
P101	Q502		00MHC10211990	00MHC10211990	IC	WM8816EDW
P101	Q503		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q504		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q505		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q506		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q507		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q508		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q509		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q510		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q511		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q512		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q513		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q514		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q515		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q516		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	Q517		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q518		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P101	Q519		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q520		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QA01		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	QA02		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	QA21		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	QA22		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	QA41		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	QA42		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	QA61		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	QA62		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	QA81		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	QA82		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P101	R121		nsp	00MGD05473160	RES.	47K OHM +- 5% 1/6W
P101	R122		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R123		nsp	00MGD05473160	RES.	47K OHM +- 5% 1/6W
P101	R124		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R125		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R151		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W

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	R152		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R153		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R154		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R155		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R156		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R157		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R158		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R161		nsp	00MGD05561160	RES.	560 OHM +- 5% 1/6W
P101	R162		nsp	00MGD05561160	RES.	560 OHM +- 5% 1/6W
P101	R163		nsp	00MGD05561160	RES.	560 OHM +- 5% 1/6W
P101	R164		nsp	00MGD05561160	RES.	560 OHM +- 5% 1/6W
P101	R203		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R204		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R205		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R206		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R209		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P101	R210		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P101	R211		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P101	R212		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P101	R213		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	R214		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	R215		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	R216		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	R217		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R218		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R219		nsp	00MGD05105160	RES.	1M OHM +- 5% 1/6W
P101	R220		nsp	00MGD05105160	RES.	1M OHM +- 5% 1/6W
P101	R221		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R222		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R223		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R224		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R225		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R226		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R227		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	R228		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	R229		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R230		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R231		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R232		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R233		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	R234		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	▲R235		00MGG05220160	00MGG05220160	RES.	! 22 OHM +- 5% 1/6W
P101	▲R236		00MGG05220160	00MGG05220160	RES.	! 22 OHM +- 5% 1/6W
P101	▲R237		00MGG05220160	00MGG05220160	RES.	! 22 OHM +- 5% 1/6W
P101	▲R238		00MGG05220160	00MGG05220160	RES.	! 22 OHM +- 5% 1/6W
P101	R240		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R241		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R242		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R243		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R244		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R301		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R302		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R303		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R304		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R305		nsp	00MGD05332160	RES.	3.3K OHM +- 5% 1/6W
P101	R306		nsp	00MGD05332160	RES.	3.3K OHM +- 5% 1/6W
P101	R307		nsp	00MGD05332160	RES.	3.3K OHM +- 5% 1/6W
P101	R308		nsp	00MGD05332160	RES.	3.3K OHM +- 5% 1/6W
P101	R309		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R310		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R313		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R314		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R315		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R316		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R317		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R318		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R319		nsp	00MGD05392160	RES.	3.9K OHM +- 5% 1/6W

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	R320		nsp	00MGD05392160	RES.	3.9K OHM +- 5% 1/6W
P101	R321		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R322		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R323		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R324		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R325		nsp	00MGD05392160	RES.	3.9K OHM +- 5% 1/6W
P101	R326		nsp	00MGD05392160	RES.	3.9K OHM +- 5% 1/6W
P101	R327		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R328		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R329		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R330		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R331		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R332		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R335		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R336		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R337		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R338		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R339		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R340		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R341		nsp	00MGD05392160	RES.	3.9K OHM +- 5% 1/6W
P101	R342		nsp	00MGD05392160	RES.	3.9K OHM +- 5% 1/6W
P101	R343		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R344		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R345		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R346		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P101	R347		nsp	00MGD05392160	RES.	3.9K OHM +- 5% 1/6W
P101	R348		nsp	00MGD05392160	RES.	3.9K OHM +- 5% 1/6W
P101	R349		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R350		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P101	R351		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R352		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R353		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R354		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R357		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R358		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R359		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R360		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R361		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R362		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R363		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P101	R364		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P101	R365		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R366		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P101	R367		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P101	R368		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P101	▲R369		00MGG05681160	00MGG05681160	RES.	! 680 OHM +- 5% 1/6W
P101	▲R370		00MGG05681160	00MGG05681160	RES.	! 680 OHM +- 5% 1/6W
P101	▲R371		00MGG05681160	00MGG05681160	RES.	! 680 OHM +- 5% 1/6W
P101	▲R372		00MGG05681160	00MGG05681160	RES.	! 680 OHM +- 5% 1/6W
P101	R373		nsp	00MGD05473160	RES.	47K OHM +- 5% 1/6W
P101	R374		nsp	00MGD05473160	RES.	47K HM +- 1 W
P101	R375		nsp	00MGD05473160	RES.	47K OHM +- 5% 1/6W
P101	R376		nsp	00MGD05473160	RES.	47K OHM +- 5% 1/6W
P101	R377		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R378		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R501		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R502		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R503		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R504		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R505		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R506		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R507		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R508		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R509		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P101	R510		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P101	R511		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P101	R512		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	R513		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	R514		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	R515		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	R516		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P101	R517		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R518		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R519		nsp	00MGD05105160	RES.	1M OHM +- 5% 1/6W
P101	R520		nsp	00MGD05105160	RES.	1M OHM +- 5% 1/6W
P101	R521		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R522		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R523		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R524		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R533		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R534		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P101	R535		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R536		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	R537		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R538		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P101	R543		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R544		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P101	R546		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P101	R547		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P101	R548		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P101	R549		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P101	R550		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P101	RA01		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P101	RA02		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P101	RA03		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA04		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA05		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA06		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA07		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	RA08		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	RA21		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P101	RA22		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P101	RA23		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA24		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA25		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA26		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA27		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	RA28		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	RA41		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P101	RA42		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P101	RA43		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA44		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA45		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA46		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA47		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	RA48		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	RA61		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P101	RA62		nsp	00MGD05224160	RES.	22 K HM +- 1 W
P101	RA63		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA64		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA65		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA66		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA67		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	RA68		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	RA81		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P101	RA82		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P101	RA83		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA84		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P101	RA85		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA86		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P101	RA87		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P101	RA88		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
					<b>PHONO/BALANCE PWB (P401) (00MWG04AJ702-)</b>	
P401	C405		00MOF55102570	00MOF55102570	FILM CAP.	DTG 1000PF 100V

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	C406		00MOF55102570	00MOF55102570	FILM CAP.	DTG 1000PF 100V
P401	C407		00MOF55101560	00MOF55101560	FILM CAP.	DAMG 100PF 630V
P401	C408		00MOF55101560	00MOF55101560	FILM CAP.	DAMG 100PF 630V
P401	C409		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P401	C410		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P401	C411		nsp	00MOA47801040	ELECT. CAP.	RFO-10V472MJ6P#-S1
P401	C412		nsp	00MOA47801040	ELECT. CAP.	RFO-10V472MJ6P#-S1
P401	C413		00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P401	C414		00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P401	C415		00MOF55393580	00MOF55393580	FILM CAP.	0.039UF 100V +- 5% FAS
P401	C416		00MOF55393580	00MOF55393580	FILM CAP.	0.039UF 100V +- 5% FAS
P401	C417		00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P401	C418		00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P401	C419		00MOF55332580	00MOF55332580	FILM CAP.	3300PF 100V FNS
P401	C420		00MOF55332580	00MOF55332580	FILM CAP.	3300PF 100V FNS
P401	C421		00MOF55681580	00MOF55681580	FILM CAP.	680PF 100V +-5% FNS
P401	C422		00MOF55681580	00MOF55681580	FILM CAP.	680PF 100V +-5% FNS
P401	C423		nsp	00MOA47801040	ELECT. CAP.	RFO-10V472MJ6P#-S1
P401	C424		nsp	00MOA47801040	ELECT. CAP.	RFO-10V472MJ6P#-S1
P401	C427		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -16#PE - S13 (470UF 25V)
P401	C428		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -16#PE - S13 (470UF 25V)
P401	C429		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -16#PE - S13 (470UF 25V)
P401	C430		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -16#PE - S13 (470UF 25V)
P401	C431		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P401	C432		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P401	C433		00MOF55681580	00MOF55681580	FILM CAP.	680PF 100V +-5% FNS
P401	C434		00MOF55681580	00MOF55681580	FILM CAP.	680PF 100V +-5% FNS
P401	C435		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P401	CC07		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P401	CC08		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P401	CC09		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P401	CC10		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P401	CC11		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P401	CC12		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P401	CC13		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P401	CC14		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P401	CC15		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P401	CC16		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P401	CC17		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P401	CC18		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P401	CC19		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P401	CC20		00MOF56331540	00MOF56331540	FILM CAP.	STAR(126)100VDC331J7-10
P401	CC21		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P401	CC22		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M - F3#PE - T2 (22UF 25V)
P401	CC23		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -16#PE - S13 (470UF 25V)
P401	CC24		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -16#PE - S13 (470UF 25V)
P401	CC25		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -16#PE - S13 (470UF 25V)
P401	CC26		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M -16#PE - S13 (470UF 25V)
P401	CC27		00MOF55220590	00MOF55220590	FILM CAP.	22PF 200V +- 5% FAS
P401	CC28		00MOF55220590	00MOF55220590	FILM CAP.	22PF 200V +- 5% FAS
P401	D401		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D403		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D404		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D405		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D406		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D407		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D408		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D409		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D410		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D411		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P401	D412		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P401	D413		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P401	D414		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P401	D415		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D416		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D417		nsp	00MHD20002000	DIODE	1SS133 T-77
P401	D418		nsp	00MHD20002000	DIODE	1SS133 T-77

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	DC01		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P401	DC02		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P401	DC03		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P401	DC04		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P401	EX01	F N	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	EX01	/U1G	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	EX02	F N	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	EX02	/U1G	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	L401	/K1G	nsp	00MLC13240010	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L401	/N1G	00MLC13240010	00MLC13240010	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L401	/N1S	00MLC13240010	00MLC13240010	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L402	/K1G	nsp	00MLC13240010	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L402	/N1G	00MLC13240010	00MLC13240010	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L402	/N1S	00MLC13240010	00MLC13240010	COIL	320 MH CHOKE COIL (TOROIDAL)
P401	L403		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P401	L404		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P401	Q401		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q402		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q403		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q404		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q405		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q406		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q407		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	Q408		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q409		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q410		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q411		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q412		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q413		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q414		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q415		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q416		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q417		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q418		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q419		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q420		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q421		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q422		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q423		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q424		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q425		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q426		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	Q427		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q428		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q429		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	Q430		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	Q431		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	Q432		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	QC01		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	QC02		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	QC03		00MKH22AJ1010	00MKH22AJ1010	NIT H-I	HDAM- A
P401	QC04		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	QC05		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	QC06		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	QC07		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	QC08		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	QC09		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC10		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC11		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	QC12		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	QC13		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	QC14		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P401	QC15		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC16		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC17		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC18		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC19		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3

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	QC20		00MKH22AJ1010	00MKH22AJ1010	UNIT & H-IC	HDAM-SA3
P401	R401		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P401	R402		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P401	R403		nsp	00MGD05334160	RES.	330K OHM +- 5% 1/6W
P401	R404		nsp	00MGD05334160	RES.	330K OHM +- 5% 1/6W
P401	R405		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P401	R406		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P401	R407		nsp	00MGD05330160	RES.	33 OHM +- 5% 1/6W
P401	R408		nsp	00MGD05330160	RES.	33 OHM +- 5% 1/6W
P401	R409		nsp	00MGD05683160	RES.	68K OHM +- 5% 1/6W
P401	R410		nsp	00MGD05683160	RES.	68K OHM +- 5% 1/6W
P401	R411		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P401	R412		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P401	R413		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P401	R414		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P401	R415		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R416		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R417		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R418		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R419		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P401	R420		nsp	00MGD05562160	RES.	5.6K OHM +- 5% 1/6W
P401	R421		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P401	R422		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P401	R423		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R424		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R425		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R426		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R427		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P401	R428		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P401	R429		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P401	R430		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P401	R431		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P401	R432		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P401	R433		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P401	R434		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P401	R435		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	R436		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	R437		nsp	00MGD05105160	RES.	1M OHM +- 5% 1/6W
P401	R438		nsp	00MGD05105160	RES.	1M OHM +- 5% 1/6W
P401	R439		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	R440		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	R441		nsp	00MGD05823160	RES.	82K OHM +- 5% 1/6W
P401	R442		nsp	00MGD05823160	RES.	82K OHM +- 5% 1/6W
P401	R443		nsp	00MGD05682160	RES.	6.8K OHM +- 5% 1/6W
P401	R444		nsp	00MGD05682160	RES.	6.8K OHM +- 5% 1/6W
P401	R445		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P401	R446		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P401	R447		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R448		nsp	00MGD05100160	RES.	10 OHM +- 5% 1/6W
P401	R449		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	R450		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	R451		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	R452		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	R453		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P401	R454		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P401	▲ R455		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	▲ R456		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	▲ R457		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	▲ R458		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	RC01		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P401	RC02		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P401	RC03		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P401	RC04		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P401	RC05		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P401	RC06		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P401	RC07		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P401	RC08		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W

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	RC09		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P401	RC10		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P401	RC11		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P401	RC12		nsp	00MGD05331160	RES.	330 OHM +- 5% 1/6W
P401	RC13		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P401	RC14		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P401	RC15		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P401	RC16		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P401	RC17		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P401	RC18		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P401	RC19		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P401	RC20		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P401	RC21		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P401	RC22		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P401	RC23		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P401	RC24		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P401	RC25		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P401	RC26		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P401	RC27		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P401	RC28		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
P401	RC29		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	RC30		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	RC31		nsp	00MGD05105160	RES.	1M OHM +- 5% 1/6W
P401	RC32		nsp	00MGD05105160	RES.	1M OHM +- 5% 1/6W
P401	RC33		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	RC34		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P401	▲RC35		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	▲RC36		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	▲RC37		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	▲RC38		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	RC39		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	RC40		nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	▲RC41		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	▲RC42		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	▲RC43		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	▲RC44		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P401	RR31	F N	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	RR31	/U1G	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	RR35	/K1G	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	RR35	/N1G	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P401	RR35	/N1S	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
<b>LCH POWER AMP Pwr (Pwr) (00MMA050001-1)</b>						
P601	C601		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P601	C602		00MOB47708050	00MOB47708050	ELECT. CAP.	470UF/80V PB-FREE
P601	C603		00MOB47708050	00MOB47708050	ELECT. CAP.	470UF/80V PB-FREE
P601	C604		00MOF56681540	00MOF56681540	FILM CAP.	STAR(126)100VDC681J7-10
P601	C605		nsp	00MOA107025Z0	ELECT. CAP.	ROS-25V 101M - H4#PE - T2 (100UF 25V)
P601	C606		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P601	C607		00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P601	C608		nsp	00MOA47405020	ELECT. CAP.	0.47UF M 50V RA-2
P601	C609		00MOF55101560	00MOF55101560	FILM CAP.	DAMG 100PF 630V
P601	D601		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D602		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D603		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D604		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D605		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D606		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D607		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P601	D608		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P601	D609		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D610		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D611		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D612		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D613		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D614		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D615		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D616		nsp	00MHD20002000	DIODE	1SS133 T-77

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P601	D617		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D618		nsp	00MHD20002000	DIODE	1SS133 T-77
P601	D619		00MHD30511000	00MHD30511000	ZENER DIODE	5.1V ZENER EQUIVALENT
P601	D620		nsp	00MHD20027010	DIODE	HSS81TD-E 150V 150MA
P601	D621		nsp	00MHD20027010	DIODE	HSS81TD-E 150V 150MA
P601	J605		00MYP07005670	00MYP07005670	PLUG	IMSA-6065B-06Z065-PT1
P601	J606		00MYP07005670	00MYP07005670	PLUG	IMSA-6065B-06Z065-PT1
P601	K601		00MHK136019C0	00MHK136019C0	TRS. KIT	2SA1360/2SC3423 O Y PAIR FOR Q612/Q613
P601	K602		00MHK135819A0	00MHK135819A0	TRS. KIT	2SA1358/2SC3421 O PAIR FOR Q624/Q625
P601	K603		00MHK185919C0	00MHK185919C0	TRS. KIT	2SA1859/2SC4883 O Y PAIR FOR Q627/Q626
P601	K604		00MHK121619F0	00MHK121619F0	TRS. KIT	2SA1216/2SC2922 O Y PAIR FOR Q629/Q628
P601	Q601		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q602		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q603		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q604		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q605		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q606		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q607		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q608		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q609		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q610		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q611		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q612		nsp	nsp	TRS.	2SA1360 O Y PAIR WITH Q613 OF K601
P601	Q613		nsp	nsp	TRS.	2SC3423 O Y PAIR WITH Q612 OF K601
P601	Q614		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q615		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q616		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q617		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q618		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q619		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q620		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	Q621		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q622		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q623		00MHT415080A0	00MHT415080A0	TRS.	2SD1508 HFE>4000
P601	Q624		nsp	nsp	TRS.	2SC3421 O Y 120V 1A PAIR WITH Q625 OF K602
P601	Q625		nsp	nsp	TRS.	2SA1358 O Y 120V 1A PAIR WITH Q624 OF K602
P601	Q626		nsp	nsp	TRS.	2SC4883 O Y PAIR WITH Q627 OF K603
P601	Q627		nsp	nsp	TRS.	2SA1859 O Y PAIR WITH Q626 OF K603
P601	Q628		nsp	nsp	TRS.	2SC2922 Y P PAIR WITH Q629 OF K604
P601	Q629		nsp	nsp	TRS.	2SA1216 Y P PAIR WITH Q628 OF K604
P601	Q630		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P601	Q631		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P601	R604		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P601	R605		nsp	00MGD05561160	RES.	560 OHM +- 5% 1/6W
P601	R608		nsp	00MGD05561160	RES.	560 OHM +- 5% 1/6W
P601	▲ R611		00MGG05471160	00MGG05471160	RES.	! 470 OHM +- 5% 1/6W
P601	▲ R612		00MGG05471160	00MGG05471160	RES.	! 470 OHM +- 5% 1/6W
P601	▲ R613		00MGG05151160	00MGG05151160	RES.	! 150 OHM +- 5% 1/6W
P601	▲ R616		00MGG05151160	00MGG05151160	RES.	! 150 OHM +- 5% 1/6W
P601	R617		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P601	R621		nsp	00MGD05102160	RES.	1K HM +- 1 W
P601	R624		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P601	R625		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P601	R626		nsp	00MGD05333160	RES.	33K OHM +- 5% 1/6W
P601	R628		nsp	00MGD05474160	RES.	470K OHM +- 5% 1/6W
P601	R629		00MRA02220760	00MRA02220760	TRIM. RES.	2.2KOHM VERT
P601	R630		nsp	00MGD05333160	RES.	33K OHM +- 5% 1/6W
P601	R631		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P601	R632		nsp	00MGD05182160	RES.	1.8K OHM +- 5% 1/6W
P601	R633		00MRA02220760	00MRA02220760	TRIM. RES.	2.2KOHM VERT
P601	R634		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P601	▲ R635		00MGG05100140	00MGG05100140	RES.	! 10 OHM +- 5% 1/4W
P601	▲ R636		00MGG05100140	00MGG05100140	RES.	! 10 OHM +- 5% 1/4W
P601	▲ R637		00MGG05101160	00MGG05101160	RES.	! 100 OHM +- 5% 1/6W
P601	▲ R638		00MGG05101160	00MGG05101160	RES.	! 100 OHM +- 5% 1/6W
P601	▲ R640		00MGG05470160	00MGG05470160	RES.	! 47 OHM +- 5% 1/6W
P601	▲ R641		00MGG05470160	00MGG05470160	RES.	! 47 OHM +- 5% 1/6W

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P601	▲ R643		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P601	▲ R644		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P601	R645		00MGO05001050	00MGO05001050	RES.	0.1 OHMS +-5% 5W PBR58
P601	R646		00MGO05001050	00MGO05001050	RES.	0.1 OHMS +-5% 5W PBR58
P601	R650		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P601	R651		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P601	R652		nsp	00MGD05682160	RES.	6.8K OHM +- 5% 1/6W
P601	R653		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P601	R654		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P601	R663		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P601	R664		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
<b>LCH POSISTOR PWB (P651) (00MWA04AJ807-)</b>						
P651	▲ R659		00MHP00033240	00MHP00033240	VARIATOR	! VARIATOR PTH9M04BC222TS2F333
P651	▲ R660	/U1G	nsp	00MHP00033240	VARIATOR	! VARIATOR PTH9M04BC222TS2F333
<b>RCH POWER AMP PWB (P701) (00MWA04AJ802-)</b>						
P701	C701		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P701	C702		00MOB47708050	00MOB47708050	ELECT. CAP.	470UF/80V PB-FREE
P701	C703		00MOB47708050	00MOB47708050	ELECT. CAP.	470UF/80V PB-FREE
P701	C704		00MOF56681540	00MOF56681540	FILM CAP.	STAR(126)100VDC681J7-10
P701	C705		nsp	00MOA107025Z0	ELECT. CAP.	ROS-25V 101M - H4#PE - T2 (100UF 25V)
P701	C706		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
P701	C707		00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P701	C708		nsp	00MOA47405020	ELECT. CAP.	0.47UF M 50V RA-2
P701	C709		00MOF55101560	00MOF55101560	FILM CAP.	DAMG 100PF 630V
P701	D701		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D702		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D703		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D704		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D705		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D706		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D707		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P701	D708		00MHI10115210	00MHI10115210	L.E.D.	SLR-342VRTB7 RED
P701	D709		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D710		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D711		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D712		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D713		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D714		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D715		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D716		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D717		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D718		nsp	00MHD20002000	DIODE	1SS133 T-77
P701	D719		00MHD30511000	00MHD30511000	ZENER DIODE	5.1V ZENER EQUIVALENT
P701	D720		nsp	00MHD20027010	DIODE	HSS81TD-E 150V 150MA
P701	D721		nsp	00MHD20027010	DIODE	HSS81TD-E 150V 150MA
P701	J705		00MYP07005670	00MYP07005670	PLUG	IMSA-6065B-06Z065-PT1
P701	J706		00MYP07005670	00MYP07005670	PLUG	IMSA-6065B-06Z065-PT1
P701	K701		00MHK136019C0	00MHK136019C0	TRS. KIT	2SA1360/2SC3423 O Y PAIR FOR Q712/Q713
P701	K702		00MHK135819A0	00MHK135819A0	TRS. KIT	2SA1358/2SC3421 O PAIR FOR Q724/Q725
P701	K703		00MHK185919C0	00MHK185919C0	TRS. KIT	2SA1859/2SC4883 O Y PAIR FOR Q727/Q726
P701	K704		00MHK121619F0	00MHK121619F0	TRS. KIT	2 A121 2 2 22 Y PAIR F R 72 72
P701	Q701		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q702		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q703		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q704		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q705		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q706		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q707		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q708		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q709		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q710		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q711		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q712		nsp	nsp	TRS.	2SA1360 O Y PAIR WITH Q713 OF K701
P701	Q713		nsp	nsp	TRS.	2SC3423 O Y PAIR WITH Q712 OF K701
P701	Q714		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q715		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q716		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P701	Q717		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q718		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q719		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q720		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	Q721		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q722		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q723		00MHT415080A0	00MHT415080A0	TRS.	2SD1508 HFE>4000
P701	Q724		nsp	nsp	TRS.	2SC3421 O Y 120V 1A PAIR WITH Q725 OF K702
P701	Q725		nsp	nsp	TRS.	2SA1358 O Y 120V 1A PAIR WITH Q724 OF K702
P701	Q726		nsp	nsp	TRS.	2SC4883 O Y PAIR WITH Q727 OF K703
P701	Q727		nsp	nsp	TRS.	2SA1859 O Y PAIR WITH Q726 OF K703
P701	Q728		nsp	nsp	TRS.	2SC2922 Y P PAIR WITH Q729 OF K704
P701	Q729		nsp	nsp	TRS.	2SA1216 Y P PAIR WITH Q728 OF K704
P701	Q730		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P701	Q731		00MHT109702A0	00MHT109702A0	TRS.	2SA970 (GR) OR (BL)
P701	R704		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P701	R705		nsp	00MGD05561160	RES.	560 OHM +- 5% 1/6W
P701	R708		nsp	00MGD05561160	RES.	560 OHM +- 5% 1/6W
P701	▲R711		00MGG05471160	00MGG05471160	RES.	! 470 OHM +- 5% 1/6W
P701	▲R712		00MGG05471160	00MGG05471160	RES.	! 470 OHM +- 5% 1/6W
P701	▲R713		00MGG05151160	00MGG05151160	RES.	! 150 OHM +- 5% 1/6W
P701	▲R716		00MGG05151160	00MGG05151160	RES.	! 150 OHM +- 5% 1/6W
P701	R717		nsp	00MGD05224160	RES.	220K OHM +- 5% 1/6W
P701	R721		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P701	R724		nsp	00MGD05102160	RES.	1K OHM +- 5% 1/6W
P701	R725		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P701	R726		nsp	00MGD05333160	RES.	33K OHM +- 5% 1/6W
P701	R728		nsp	00MGD05474160	RES.	470K OHM +- 5% 1/6W
P701	R729		00MRA02220760	00MRA02220760	TRIM. RES.	2.2KOHM VERT
P701	R730		nsp	00MGD05333160	RES.	33K OHM +- 5% 1/6W
P701	R731		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P701	R732		nsp	00MGD05182160	RES.	1.8K OHM +- 5% 1/6W
P701	R733		00MRA02220760	00MRA02220760	TRIM. RES.	2.2KOHM VERT
P701	R734		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P701	▲R735		00MGG05100140	00MGG05100140	RES.	! 10 OHM +- 5% 1/4W
P701	▲R736		00MGG05100140	00MGG05100140	RES.	! 10 OHM +- 5% 1/4W
P701	▲R737		00MGG05101160	00MGG05101160	RES.	! 100 OHM +- 5% 1/6W
P701	▲R738		00MGG05101160	00MGG05101160	RES.	! 100 OHM +- 5% 1/6W
P701	▲R740		00MGG05470160	00MGG05470160	RES.	! 47 OHM +- 5% 1/6W
P701	▲R741		00MGG05470160	00MGG05470160	RES.	! 47 OHM +- 5% 1/6W
P701	▲R743		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P701	▲R744		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P701	R745		00MGO05001050	00MGO05001050	RES.	0.1 OHMS +-5% 5W PBR58
P701	R746		00MGO05001050	00MGO05001050	RES.	0.1 OHMS +-5% 5W PBR58
P701	R750		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P701	R751		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P701	R752		nsp	00MGD05682160	RES.	6.8K OHM +- 5% 1/6W
P701	R753		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P701	R754		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P701	R763		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P701	R764		nsp	00MGD05103160	RES.	1 K HM +- 1 W
						<b>RCH POSISTOR PWB (P751) (00MWA04AJ808-)</b>
P751	▲R759		00MHP00033240	00MHP00033240	VARISTOR	! VARISTOR PTH9M04BC222TS2F333
P751	▲R760	/U1G	nsp	00MHP00033240	VARISTOR	! VARISTOR PTH9M04BC222TS2F333
						<b>POWER SUPPLY PWB (P801) (00MWA04AJ806-)</b>
P801	C801		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
P801	C802		nsp	00MOA10505020	ELECT. CAP.	1 UF M 50V RA-2
P801	C803		nsp	00MOA22505020	ELECT. CAP.	2.2 UF M 50V RA-2
P801	C804		nsp	00MOA22803520	ELECT. CAP.	2200UF M 35V RA-2
P801	C805		nsp	00MOA10505020	ELECT. CAP.	1 UF M 50V RA-2
P801	C806		nsp	00MOA10702520	ELECT. CAP.	100 UF M 25V RA-2
P801	C807		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
P801	C808		nsp	00MOA47700620	ELECT. CAP.	470 UF M 6.3V RA-2
P801	C810		nsp	00MOA22703520	ELECT. CAP.	220UF 35V M RA-2
P801	C811		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M - F3#PE - T2 (10UF 35V)
P801	C812		nsp	00MOA22703520	ELECT. CAP.	220UF 35V M RA-2
P801	▲D801		00MHE10006100	00MHE10006100	DIODE	! SBD UNIT FRH20A15

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
P801	▲D802		00MHE10005100	00MHE10005100	DIODE	! SBD UNIT FCH20A15
P801	▲D803		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D804		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D805		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D806		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D807		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D808		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D809		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D810		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D811		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D812		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D813		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D814		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D815		00MHD20055100	00MHD20055100	DIODE	! SHOTTK, 11EQS10 1A 100V
P801	▲D816		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D817		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D818		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D819		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲D820		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲G801		00MBF68400010	00MBF68400010	CAP.COMP.	! 0.68UF/4.7OHM
P801	▲G802		00MBF68400010	00MBF68400010	CAP.COMP.	! 0.68UF/4.7OHM
P801	▲G803		00MBF68400010	00MBF68400010	CAP.COMP.	! 0.68UF/4.7OHM
P801	L803		00MFC90050130	00MFC90050130	FERRITE CORE	BL02RN2-R62T2 FERRITE BEAD
P801	L804		00MFC90050130	00MFC90050130	FERRITE CORE	BL02RN2-R62T2 FERRITE BEAD
P801	L805		00MFC90050130	00MFC90050130	FERRITE CORE	BL02RN2-R62T2 FERRITE BEAD
P801	L806		00MFC90050130	00MFC90050130	FERRITE CORE	BL02RN2-R62T2 FERRITE BEAD
P801	Q801		00MHC3851509F	00MHC3851509F	IC	NJM78M15FA(0.5A 15V) FULLPACK
P801	Q802		00MHT800931A0	00MHT800931A0	TRS.	KTC3200 NPN RANK=GR
P801	Q803		00D2730468907	00D2730468907	TRS.	KTC3199-GR-AT/P
P801	Q804		00D2730468907	00D2730468907	TRS.	KTC3199-GR-AT/P
P801	Q805		00D2730468907	00D2730468907	TRS.	KTC3199-GR-AT/P
P801	Q806		00D2730468907	00D2730468907	TRS.	KTC3199-GR-AT/P
P801	Q807		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
P801	Q808		00MHT41415100	00MHT41415100	TRS.	2SD1415
P801	Q809		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
P801	▲R802		00MGG05010140	00MGG05010140	RES.	! 1 OHM +-5% 1/4W ERD25FYJ1R0T
P801	▲R803		00MGG05010140	00MGG05010140	RES.	! 1 OHM +-5% 1/4W ERD25FYJ1R0T
P801	▲R804		00MGG05010120	00MGG05010120	RES.	! ERD50FJ1R0P
P801	R805		nsp	00MGD05682160	RES.	6.8K OHM +- 5% 1/6W
P801	R806		nsp	00MGD05222160	RES.	2.2K OHM +- 5% 1/6W
P801	R807		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P801	▲R808		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P801	R809		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P801	R810		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P801	R811		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P801	R812		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P801	R813		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P801	R814		nsp	00MGD05563160	RES.	56K OHM +- 5% 1/6W
P801	R815		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P801	R816		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P801	R817		nsp	00MGD05393160	RES.	39K OHM +- 5% 1/6W
P801	R818		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P801	R820		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
P801	▲R821		00MGG05100160	00MGG05100160	RES.	! 10 OHM +- 5% 1/6W
P801	R822		nsp	00MGD05333160	RES.	33K OHM +- 5% 1/6W
P801	R823		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P801	R824		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
P801	▲R825		00MGG05220160	00MGG05220160	RES.	! 22 OHM +- 5% 1/6W
<b>SOFT START PWB (P851) (00MWA04AJ804-)</b>						
P851	▲C851		133750061200S	133750061200S	FILM CAP.	# PHE840MA5100MA01R05
P851	▲C852		133750061200S	133750061200S	FILM CAP.	# PHE840MA5100MA01R05
P851	C853		nsp	00MOA47703520	ELECT. CAP.	470 UF M 35V RA-2
P851	C854		nsp	00MOA10505020	ELECT. CAP.	1 UF M 50V RA-2
P851	C855		nsp	00MOA10803520	ELECT. CAP.	1000 UF M 35V RA-2
P851	C856		nsp	00MOA10701020	ELECT. CAP.	100 UF M 10V RA-2
P851	C857		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
P851	C858		nsp	00MOA47700620	ELECT. CAP.	470 UF M 6.3V RA-2

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	▲C859		133750061200S	133750061200S	FILM CAP.	# PHE840MA5100MA01R05
P851	▲D851		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P851	▲D852		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P851	▲D853		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P851	▲D854		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P851	▲D855		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P851	▲D856		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P851	▲D857		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P851	D858		nsp	00MHD20002000	DIODE	1SS133 T-77
P851	D859		nsp	00MHD20002000	DIODE	1SS133 T-77
P851	▲F851	F N	nsp	0520100200020	FUSE	# 0218010.MXP
P851	▲F851	/K1G	nsp	0520100170060	FUSE	# T5A L 250V 0218005.MXP
P851	▲F851	/N1G	0520100170060	0520100170060	FUSE	# T5A L 250V 0218005.MXP
P851	▲F851	/N1S	0520100170060	0520100170060	FUSE	# T5A L 250V 0218005.MXP
P851	▲F851	/U1G	nsp	0520100200020	FUSE	# 0218010.MXP
P851	▲G851		00MBF68400010	00MBF68400010	CAP.COMP.	! 0.68UF/4.7OHM
P851	▲L851	F N	nsp	00MTS13521210	TRANSF.	# POWER TRANSF. FOR BACKUP 100V
P851	▲L851	/K1G	nsp	00MTS13521230	TRANSF.	# POWER TRANSF. FOR BACKUP 230V
P851	▲L851	/N1G	00MTS13521230	00MTS13521230	TRANSF.	# POWER TRANSF. FOR BACKUP 230V
P851	▲L851	/N1S	00MTS13521230	00MTS13521230	TRANSF.	# POWER TRANSF. FOR BACKUP 230V
P851	▲L851	/U1G	nsp	00MTS13521220	TRANSF.	# POWER TRANSF. FOR BACKUP 120V
P851	▲L852		682010008007S	682010008007S	RELAY	! FTR-H2AK024T-TH POWER RELAY
P851	▲L853		682010008007S	682010008007S	RELAY	! FTR-H2AK024T-TH POWER RELAY
P851	L854		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS (B-01-AT1F)
P851	L855		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS (B-01-AT1F)
P851	L856		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS (B-01-AT1F)
P851	L857		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS (B-01-AT1F)
P851	L858		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS (B-01-AT1F)
P851	L859		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS (B-01-AT1F)
P851	L860		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS (B-01-AT1F)
P851	Q851		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
P851	Q852		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
P851	Q853		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P851	Q854		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P851	Q855		00MHC3890509F	00MHC3890509F	IC	NJM7805FA +5V
P851	Q856		00MHT800931A0	00MHT800931A0	TRS.	KTC3200 NPN RANK=GR
P851	▲R851		00MGG05010160	00MGG05010160	RES.	! 1 OHM +- 5% 1/6W
P851	▲R852		00MNQ15022070	00MNQ15022070	ROTOR RES.	! 2.2 OHM 7W W/TEMP.FUSE
P851	▲R853		00MNQ15022070	00MNQ15022070	ROTOR RES.	! 2.2 OHM 7W W/TEMP.FUSE
P851	R856		nsp	00MGD05473160	RES.	47K OHM +- 5% 1/6W
P851	R857		nsp	00MGD05473160	RES.	47K OHM +- 5% 1/6W
P851	R858		nsp	00MGD05153160	RES.	15K OHM +- 5% 1/6W
P851	R859		nsp	00MGD05153160	RES.	15K OHM +- 5% 1/6W
P851	R860		nsp	00MGD05471160	RES.	470 OHM +- 5% 1/6W
P851	R861		nsp	00MGD05182160	RES.	1.8K OHM +- 5% 1/6W
P851	R862		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P851	RR81	F N	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P851	RR82	/K1G	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P851	RR82	/N1G	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P851	RR82	/N1S	nsp	00MGD05000160	RES.	0 OHM +- 5% 1/6W
P851	RR83	/U1G	nsp	00MGD05000160	RES.	HM +- 1 W
					<b>POWER SWITCH PWB (P891) (00MWG04AJ709-)</b>	
P891	▲C891		133750061200S	133750061200S	FILM CAP.	# PHE840MA5100MA01R05
P891	▲S891		665010008002D	665010008002D	SW	! POWER SWITCH (TV-5)
					<b>SPEAKER OUT PWB (P901) (00MWA04AJ803-)</b>	
P901	C901	/K1G	nsp	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P901	C901	/N1G	00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P901	C901	/N1S	00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P901	C902		00MOF55393580	00MOF55393580	FILM CAP.	0.039UF 100V +- 5% FAS
P901	C903		00MOF55393580	00MOF55393580	FILM CAP.	0.039UF 100V +- 5% FAS
P901	C904	/K1G	nsp	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P901	C904	/N1G	00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P901	C904	/N1S	00MOF55103580	00MOF55103580	FILM CAP.	0.01UF 100V +- 5% FNS
P901	C908		nsp	00MOA47602520	ELECT. CAP.	47 UF M 25V RA-2
P901	D901		nsp	00MHD20002000	DIODE	1SS133 T-77
P901	D902		nsp	00MHD20002000	DIODE	1SS133 T-77
P901	D903		nsp	00MHD20002000	DIODE	1SS133 T-77

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
P901	D904		nsp	00MHD20002000	DIODE	1SS133 T-77
P901	D905		nsp	00MHD20002000	DIODE	1SS133 T-77
P901	D906		nsp	00MHD20002000	DIODE	1SS133 T-77
P901	D907		nsp	00MHD20002000	DIODE	1SS133 T-77
P901	D908		nsp	00MHD20002000	DIODE	1SS133 T-77
P901	D909		nsp	00MHD20002000	DIODE	1SS133 T-77
P901	L901		00D2140213001	00D2140213001	RELAY	RELAY(FTR-F4)
P901	L902		00D2140213001	00D2140213001	RELAY	RELAY(FTR-F4)
P901	L903		00D2140213001	00D2140213001	RELAY	RELAY(FTR-F4)
P901	L904		00D2140213001	00D2140213001	RELAY	RELAY(FTR-F4)
P901	L905		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
P901	Q901		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
P901	Q902		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
P901	Q903		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P901	Q904		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P901	Q905		00D2730468907	00D2730468907	TRS.	KTC3199-GR-AT/P
P901	Q906		00D2730468907	00D2730468907	TRS.	KTC3199-GR-AT/P
P901	Q907		00D2730468907	00D2730468907	TRS.	KTC3199-GR-AT/P
P901	Q908		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P901	Q909		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
P901	Q910		00D2730468907	00D2730468907	TRS.	KTC3199-GR-AT/P
P901	Q911		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
P901	Q912		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P 10K-10K
P901	Q913		00D2690204900	00D2690204900	TRS.	KRA102M-AT/P (10K-10K)
P901	Q914		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P901	Q915		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P901	Q916		00D2690206908	00D2690206908	TRS.	KRC102M-AT/P (10K-10K)
P901	R901		00MKN05100020	00MKN05100020	METAL RES.	10 OHM +- 5% 2W
P901	R902		00MKN05100020	00MKN05100020	METAL RES.	10 OHM +- 5% 2W
P901	R903		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P901	R904		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P901	R905		00MKN05331020	00MKN05331020	METAL RES.	330 OHM +- 5% 2W
P901	R906		00MKN05331020	00MKN05331020	METAL RES.	330 OHM +- 5% 2W
P901	R909		nsp	00MGD05683160	RES.	68K OHM +- 5% 1/6W
P901	R910		nsp	00MGD05683160	RES.	68K OHM +- 5% 1/6W
P901	R912		nsp	00MGD05473160	RES.	47K OHM +- 5% 1/6W
P901	R913		nsp	00MGD05473160	RES.	47K OHM +- 5% 1/6W
P901	R914		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P901	R915		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P901	R916		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P901	R917		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
P901	R918		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P901	R919		nsp	00MGD05472160	RES.	4.7K OHM +- 5% 1/6W
P901	R920		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
P901	R921		nsp	00MGD05223160	RES.	22K OHM +- 5% 1/6W
					<b>HEAD PHONE PWB (P991) (00MWG04AJ708-)</b>	
P991	C991	/K1G	nsp	00MOF15103540	FILM CAP.	APSV 103J 0.01UF(TP) 100V PP
P991	C991	/N1G	00MOF15103540	00MOF15103540	FILM CAP.	APSV 103J 0.01UF(TP) 100V PP
P991	C991	/N1S	00MOF15103540	00MOF15103540	FILM CAP.	APSV 103J 0.01UF(TP) 100V PP
P991	C992	/K1G	nsp	00MOF15103540	FILM CAP.	APSV 103J 0.01UF(TP) 100V PP
P991	C992	N1	00MOF15103540	00MOF15103540	FILM CAP.	APSV 103J 0.01UF(TP) 100V PP
P991	C992	/N1S	00MOF15103540	00MOF15103540	FILM CAP.	APSV 103J 0.01UF(TP) 100V PP
P991	J991		00MYJ01005190	00MYJ01005190	JACK	YKB21-5834N (GRY/GLD) HEADPHONE JACK
					<b>PREOUT/RECOUT PWB (PA01) (00MWG04AJ703-)</b>	
PA01	C187	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C187	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C187	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C188	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C188	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C188	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C189	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C189	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C189	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C190	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C190	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C190	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C191	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS

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
PA01	C191	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C191	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C192	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C192	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	C192	/N1S	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +- 5% FAS
PA01	J181		00MYT02021390	00MYT02021390	TERMINAL	2P CINCH JACK (T6743 BLK/BLK)
PA01	J182		00MYT02021390	00MYT02021390	TERMINAL	2P CINCH JACK (T6743 BLK/BLK)
PA01	J183		00MYT02021390	00MYT02021390	TERMINAL	2P CINCH JACK (T6743 BLK/BLK)
PA01	R181		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
PA01	R182		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
PA01	R183		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
PA01	R184		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
PA01	R185		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
PA01	R186		nsp	00MGD05104160	RES.	100K OHM +- 5% 1/6W
					<b>BUS INTERFACE PWB (PB01) (00MWG04AJ302-)</b>	
PB01	CB01		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PB01	CB02		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PB01	CB11		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PB01	CB12		nsp	00MDK96102300	CER. CAP.	1000 PF +- 10 % B 50V GR36
PB01	CB13		nsp	00MDK96102300	CER. CAP.	1000 PF +- 10 % B 50V GR36
PB01	CB14		nsp	00MDK96102300	CER. CAP.	1000 PF +- 10 % B 50V GR36
PB01	CB15		nsp	00MDK96102300	CER. CAP.	1000 PF +- 10 % B 50V GR36
PB01	CB16		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PB01	DB01		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301 DAN202U UMT
PB01	JB11		00MYJ01004670	00MYJ01004670	JACK	LGY6501-0600 3.5 MINI JACK
PB01	JB12		00MYJ01004670	00MYJ01004670	JACK	LGY6501-0600 3.5 MINI JACK
PB01	LB01		00D2140208003	00D2140208003	RELAY	RELAY(NA24W-K)
PB01	QB01		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PB01	QB02		00MBA10013050	00MBA10013050	TRS.	RN2303(PNPX1(22K+22K))
PB01	QB05		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PB01	▲QB21		00MHW10006320	00MHW10006320	PHOTO UNIT	! PC-817 PHOTO CUPLER 1PAIR
PB01	RB01		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PB01	RB03		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PB01	RB04		nsp	00MNN05101610	CHIP RES.	100 OHM +- 5% 1/16W
PB01	RB05		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PB01	RB06		nsp	00MNN05102610	CHIP RES.	1K OHM +- 5% 1/16W
PB01	RB08		nsp	00MNN05472610	CHIP RES.	4.7K OHM +- 5% 1/16W
PB01	RB12		nsp	00MNN05561610	CHIP RES.	560 OHM +- 5% 1/16W
PB01	SB01		00MSS02021620	00MSS02021620	SLIDE SW	SSSU121700
					<b>BALANCE INPUT PWB (PC01) (00MWG04AJ704-)</b>	
PC01	CC03	/K1G	nsp	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC03	/N1G	00MOF55101590	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC03	/N1S	00MOF55101590	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC04	/K1G	nsp	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC04	/N1G	00MOF55101590	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC04	/N1S	00MOF55101590	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC05	/K1G	nsp	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC05	/N1G	00MOF55101590	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC05	/N1S	00MOF55101590	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC06	/K1G	nsp	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC06	N1	00MOF55101590	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	CC06	/N1S	00MOF55101590	00MOF55101590	FILM CAP.	100PF 200V +- 5% FAS
PC01	JC01		00MYJ01004340	00MYJ01004340	JACK	NC3FAH2 4P CANON TYPE HOLZ
PC01	JC02		00MYJ01004340	00MYJ01004340	JACK	NC3FAH2 4P CANON TYPE HOLZ
					<b>U-COM PWB (PD01) (00MWG04AJ301-)</b>	
PD01	CD02		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CD03		nsp	00MDK98105200	CER. CAP.	1UF 10V F
PD01	CD04		nsp	00MDK98105200	CER. CAP.	1UF 10V F
PD01	CD05		nsp	00MDK98105200	CER. CAP.	1UF 10V F
PD01	CD06		nsp	00MDK98105200	CER. CAP.	1UF 10V F
PD01	CD07		nsp	00MDK98105200	CER. CAP.	1UF 10V F
PD01	CD10		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CD12		nsp	00MDK96102300	CER. CAP.	1000 PF +- 10 % B 50V GR36
PD01	CD13		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU01		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU02		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU03		nsp	00MDD95150300	CER. CAP.	15 PF +- 5 % CG 50V GR39

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
PD01	CU04		nsp	00MDD95150300	CER. CAP.	15 PF +- 5 % CG 50V GR39
PD01	CU05		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU06		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU07		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU08		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU09		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU10		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU11		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU12		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU13		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU14		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU15		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU16		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU17		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU22		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU24		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU25		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU26		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU27		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU30		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU31		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU32		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU33		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU34		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU35		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU36		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU37		nsp	00MDK96102300	CER. CAP.	1000 PF +- 10 % B 50V GR36
PD01	CU39		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU42		nsp	00MDK96224200	CER. CAP.	0.22UF +- 10% B 10V
PD01	CU51		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU53		nsp	00MDK98104200	CER. CAP.	GRM39F104Z16 0.1UF
PD01	CU54		nsp	00MDK96102300	CER. CAP.	1000 PF +- 10 % B 50V GR36
PD01	CU55		nsp	00MDK96102300	CER. CAP.	1000 PF +- 10 % B 50V GR36
PD01	CU56		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU57		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU58		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD01	CU83		nsp	00MDK96102300	CER. CAP.	1000 PF +- 10 % B 50V GR36
PD01	DD01		00MHZ30751000	00MHZ30751000	CHIP DIODE	7.5V ZENER MA8075-M UDPS7.5B
PD01	DU01		00MHI10005340	00MHI10005340	L.E.D.	HLMF-K200 #2UL RED H=9 3MM
PD01	DU02		263710014404S	263710014404S	L.E.D.	SELT2E10C-S TP6 F/G RANK
PD01	DU51		00MHZ21005000	00MHZ21005000	CHIP DIODE	1SS301 DAN202U UMT
PD01	LU01		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU02		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU04		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU05		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU06		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU11		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU12		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU13		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU14		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	L 1		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU17		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU21		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU22		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU23		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU24		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU25		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU26		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU27		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU28		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU30		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU31		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU32		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU33		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU34		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU35		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU41		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
PD01	LU42		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU43		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU44		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU45		00MFC90020210	00MFC90020210	FERRITE CORE	MLB-1608-1000A-N2
PD01	LU46		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PD01	QU01		00MHC60037010	00MHC60037010	U-PRO	HD64F3687H FLASH
PD01			00M04AJ499G00	00M04AJ499G00	SOFTWARE	SOFTWARE FOR PM-11S2 VER001
PD01	QU02		00MHC10433990	00MHC10433990	IC	AT24C08AN-10SI-2.7
PD01	QU03		00MHC10471050	00MHC10471050	IC	TC7MBD3244AFK TAPING BUS SW
PD01	QU04		00MHC809449R0	00MHC809449R0	IC	74HC4094BT
PD01	QU05		00MHC10471050	00MHC10471050	IC	TC7MBD3244AFK TAPING BUS SW
PD01	QU06		00MHC008405K0	00MHC008405K0	IC	TC74VHC86FT EXOR
PD01	QU07		00MHC10229210	00MHC10229210	IC	BD4727G 2.7V RESET IC
PD01	QU11		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU12		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU13		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU14		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU15		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU16		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU17		00MHX300012A0	00MHX300012A0	CHIP TRS.	2SC4081 (Q R) 2SC4116 (Y GR)
PD01	QU18		00MHX100012A0	00MHX100012A0	CHIP TRS.	2SA1586 (Y GR) TE85L / 2SA1576A (Q R)
PD01	QU19		00MBA12303000	00MBA12303000	TRS.	DTA124EU RN2303 UMT
PD01	QU20		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU22		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU23		00MHX300012A0	00MHX300012A0	CHIP TRS.	2SC4081 (Q R) 2SC4116 (Y GR)
PD01	QU24		00MHX300012A0	00MHX300012A0	CHIP TRS.	2SC4081 (Q R) 2SC4116 (Y GR)
PD01	QU25		00MHX300012A0	00MHX300012A0	CHIP TRS.	2SC4081 (Q R) 2SC4116 (Y GR)
PD01	QU26		00MBA12303000	00MBA12303000	TRS.	DTA124EU RN2303 UMT
PD01	QU27		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU28		00MBA12303000	00MBA12303000	TRS.	DTA124EU RN2303 UMT
PD01	QU29		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU30		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU31		00MBA12303000	00MBA12303000	TRS.	DTA124EU RN2303 UMT
PD01	QU32		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU41		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU42		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU43		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU44		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD01	QU51		00MBA12303000	00MBA12303000	TRS.	DTA124EU RN2303 UMT
PD01	QU56		00MHX300012A0	00MHX300012A0	CHIP TRS.	2SC4081 (Q R) 2SC4116 (Y GR)
PD01	QU57		00MHW10004210	00MHW10004210	PHOTO UNIT	RPM6936-V4 (IR SENSOR)
PD01	RD01		nsp	00MNN05222610	CHIP RES.	2.2K OHM +- 5% 1/16W
PD01	RD05		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RD06		nsp	00MNN05823610	CHIP RES.	82K OHM +- 5% 1/16W
PD01	RD07		nsp	00MNN05823610	CHIP RES.	82K OHM +- 5% 1/16W
PD01	RU01		nsp	00MNN05104610	CHIP RES.	100K OHM +- 5% 1/16W
PD01	RU02		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD01	RU03		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD01	RU05		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU07		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU09		nsp	00MNN05103610	HIP RE .	1 K HM +- 1 1_W
PD01	RU11		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU12		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU13		nsp	00MNN05104610	CHIP RES.	100K OHM +- 5% 1/16W
PD01	RU16		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU17		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU19		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU20		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU21		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU22		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU23		nsp	00MNN05472610	CHIP RES.	4.7K OHM +- 5% 1/16W
PD01	RU24		nsp	00MNN05154610	CHIP RES.	150K OHM +- 5% 1/16W
PD01	RU27		nsp	00MNN05101610	CHIP RES.	100 OHM +- 5% 1/16W
PD01	RU28		nsp	00MNN05102610	CHIP RES.	1K OHM +- 5% 1/16W
PD01	RU29		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU31		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU32		nsp	00MNN05223610	CHIP RES.	22K OHM +- 5% 1/16W

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
PD01	RU33		nsp	00MNN05153610	CHIP RES.	15K OHM +- 5% 1/16W
PD01	RU34		nsp	00MNN05472610	CHIP RES.	4.7K OHM +- 5% 1/16W
PD01	RU35		nsp	00MNN05472610	CHIP RES.	4.7K OHM +- 5% 1/16W
PD01	RU36		nsp	00MNN05472610	CHIP RES.	4.7K OHM +- 5% 1/16W
PD01	RU37		nsp	00MNN05223610	CHIP RES.	22K OHM +- 5% 1/16W
PD01	RU38		nsp	00MNN05223610	CHIP RES.	22K OHM +- 5% 1/16W
PD01	RU39		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD01	RU40		nsp	00MNN05331610	CHIP RES.	330 OHM +- 5% 1/16W
PD01	RU41		nsp	00MNN05104610	CHIP RES.	100K OHM +- 5% 1/16W
PD01	RU42		nsp	00MNN05223610	CHIP RES.	22K OHM +- 5% 1/16W
PD01	RU43		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU44		nsp	00MNN05222610	CHIP RES.	2.2K OHM +- 5% 1/16W
PD01	RU45		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD01	RU46		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD01	RU47		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD01	RU48		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU49		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU51		nsp	00MNN05000610	CHIP RES.	0 OHM +- 5% 1/16W
PD01	RU52		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD01	RU53		nsp	00MNN05473610	CHIP RES.	47K OHM +- 5% 1/16W
PD01	RU54		nsp	00MNN05101610	CHIP RES.	100 OHM +- 5% 1/16W
PD01	RU55		nsp	00MNN05183610	CHIP RES.	18K OHM +- 5% 1/16W
PD01	RU56		nsp	00MNN05470610	CHIP RES.	47 OHM +- 5% 1/16W
PD01	RU94		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD01	RU95		nsp	00MNN05101610	CHIP RES.	100 OHM +- 5% 1/16W
PD01	XU01		00MFQ08004060	00MFQ08004060	CER. VIB.	CSTS MG 8MHZ (15PF)
PD01	XU02		00MXO001001T0	00MXO001001T0	X'TAL	DT-38 32.768KHZ
					<b>TACT LEFT PWB (PD21) (00MWG04AJ303-)</b>	
PD21	CU61		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD21	CU67		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD21	CU68		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD21	CU69		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD21	CU70		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD21	DU62		263710015209S	263710015209S	L.E.D.	SELT2E10C-S BALK F/G RANK
PD21	DU63		00MHI10048080	00MHI10048080	L.E.D.	SEL6E10C(F-RANK)BLUE LED
PD21	DU64		00MHI10048080	00MHI10048080	L.E.D.	SEL6E10C(F-RANK)BLUE LED
PD21	DU65		00MHI10048080	00MHI10048080	L.E.D.	SEL6E10C(F-RANK)BLUE LED
PD21	QU61		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD21	QU62		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD21	QU63		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD21	QU64		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD21	RU61		nsp	00MNN05562610	CHIP RES.	5.6K OHM +- 5% 1/16W
PD21	RU62		nsp	00MNN05102610	CHIP RES.	1K OHM +- 5% 1/16W
PD21	RU63		nsp	00MNN05122610	CHIP RES.	1.2K OHM +- 5% 1/16W
PD21	RU64		nsp	00MNN05182610	CHIP RES.	1.8K OHM +- 5% 1/16W
PD21	RU66		nsp	00MGD05182160	RES.	1.8K OHM +- 5% 1/6W
PD21	RU67		nsp	00MNN05222610	CHIP RES.	2.2K OHM +- 5% 1/16W
PD21	RU68		nsp	00MNN05222610	CHIP RES.	2.2K OHM +- 5% 1/16W
PD21	RU69		nsp	00MNN05222610	CHIP RES.	2.2K OHM +- 5% 1/16W
PD21	RU70		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD21	RU71		nsp	00MNN05103610	HIP RE .	1 K HM +- 11 W
PD21	RU72		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD21	RU73		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD21	RU74		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD21	RU75		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD21	SU61		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM 160GF
PD21	SU62		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM 160GF
PD21	SU63		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM 160GF
PD21	SU64		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM 160GF
					<b>TACT RIGHT PWB (PD31) (00MWG04AJ304-)</b>	
PD31	CU71		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD31	CU77		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD31	CU78		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD31	CU79		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD31	CU80		nsp	00MDK96103300	CER. CAP.	0.01UF +-10% 50V C1608JB1H103K
PD31	DU72		263710015209S	263710015209S	L.E.D.	SELT2E10C-S BALK F/G RANK
PD31	DU73		00MHI10048080	00MHI10048080	L.E.D.	SEL6E10C(F-RANK)BLUE LED

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
PD31	DU74		00MHI10048080	00MHI10048080	L.E.D.	SEL6E10C(F-RANK)BLUE LED
PD31	DU75		00MHI10048080	00MHI10048080	L.E.D.	SEL6E10C(F-RANK)BLUE LED
PD31	QU71		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD31	QU72		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD31	QU73		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD31	QU74		00MBA21303000	00MBA21303000	TRS.	DTC124EU RN1303 UMT
PD31	RU81		nsp	00MNN05562610	CHIP RES.	5.6K OHM +- 5% 1/16W
PD31	RU82		nsp	00MNN05102610	CHIP RES.	1K OHM +- 5% 1/16W
PD31	RU83		nsp	00MNN05122610	CHIP RES.	1.2K OHM +- 5% 1/16W
PD31	RU84		nsp	00MNN05182610	CHIP RES.	1.8K OHM +- 5% 1/16W
PD31	RU86		nsp	00MGD05182160	RES.	1.8K OHM +- 5% 1/6W
PD31	RU87		nsp	00MNN05222610	CHIP RES.	2.2K OHM +- 5% 1/16W
PD31	RU88		nsp	00MNN05222610	CHIP RES.	2.2K OHM +- 5% 1/16W
PD31	RU89		nsp	00MNN05222610	CHIP RES.	2.2K OHM +- 5% 1/16W
PD31	RU90		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD31	RU91		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD31	RU92		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD31	RU93		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD31	SU71		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM 160GF
PD31	SU72		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM 160GF
PD31	SU73		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM 160GF
PD31	SU74		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM 160GF
					<b>BACK LIGHT PWB PD41 (00MWG04AJ707-)</b>	
PD41	DD11		00MHI10005980	00MHI10005980	L.E.D.	NSPW515BS-S-CO
PD41	RD11		nsp	00MGD05103160	RES.	10K OHM +- 5% 1/6W
					<b>SELECTOR PWB (PD61) (00MWG04AJ706-)</b>	
PD61	SU82		00MSR01120070	00MSR01120070	ROTARY SW	SRRSIC
					<b>VOLUME PWB (PD71) (00MWG04AJ305-)</b>	
PD71	RU57		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD71	RU58		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD71	RU59		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD71	RU60		nsp	00MNN05103610	CHIP RES.	10K OHM +- 5% 1/16W
PD71	SU81		00MSR02010140	00MSR02010140	ROTARY SW	EC12E2470811
					<b>REGULATOR PWB (PG01) (00MWA04AJ805-)</b>	
PG01	CG01		nsp	00MOA15905010	ELECT. CAP.	LKG1H153MESBZT
PG01	CG02		nsp	00MOA15905010	ELECT. CAP.	LKG1H153MESBZT
PG01	CG03		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
PG01	CG04		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
PG01	CG05		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
PG01	CG06		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M -H5#PE - T2 (220UF 25V)
PG01	CG07		nsp	00MOA476025Z0	ELECT. CAP.	ROS-25V 470M - G3#PE - T2 (47UF 25V)
PG01	CG08		nsp	00MOA227010R0	ELECT. CAP.	ROA-10V 221M - H3#PE - T2 (220UF 10V)
PG01	CG09		nsp	00MOA227035Z0	ELECT. CAP.	220UF 35V M RA-2
PG01	DG01		nsp	00MHD20002000	DIODE	1SS133 T-77
PG01	DG02		nsp	00MHD20002000	DIODE	1SS133 T-77
PG01	DG03		nsp	00MHD20002000	DIODE	1SS133 T-77
PG01	DG04		nsp	00MHD20002000	DIODE	1SS133 T-77
PG01	DG05		00MHD32401000	00MHD32401000	ZENER DIODE	24V ZENER EQUIVALENT
PG01	DG06		00MHD32401000	00MHD32401000	ZENER DIODE	24V ZENER EQUIVALENT
PG01	DG08		nsp	00MHD20002000	DIODE	1SS133 T-77
PG01	DG09		00MHD30681000	00MHD30681000	ZENER DIODE	1.5V ZENER EQUIVALENT
PG01	LG01		00MFC90050130	00MFC90050130	FERRITE CORE	BL02RN2-R62T2 FERRITE BEAD
PG01	LG02		00MFC90050130	00MFC90050130	FERRITE CORE	BL02RN2-R62T2 FERRITE BEAD
PG01	QG01		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
PG01	QG02		00D2730468907	00D2730468907	TRS.	KTC3199-GR-AT/P
PG01	QG03		00MHT41415100	00MHT41415100	TRS.	2SD1415
PG01	QG04		00MHT21020100	00MHT21020100	TRS.	2SB1020
PG01	QG05		00D2710311906	00D2710311906	TRS.	KTA1267-GR-AT/P
PG01	QG06		00MHT41415100	00MHT41415100	TRS.	2SD1415
PG01	RG01		nsp	00MGD05683160	RES.	68K OHM +- 5% 1/6W
PG01	RG03		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
PG01	RG04		nsp	00MGD05221160	RES.	220 OHM +- 5% 1/6W
PG01	RG05		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
PG01	RG06		nsp	00MGD05101160	RES.	100 OHM +- 5% 1/6W
PG01	⚠RG07		00MGG05033160	00MGG05033160	RES.	! 3.3 OHM +- 5% 1/6W
PG01	⚠RG08		00MGG05033160	00MGG05033160	RES.	! 3.3 OHM +- 5% 1/6W
PG01	RG09		nsp	00MGD05333160	RES.	33K OHM +- 5% 1/6W

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
PG01	▲RG12		00MGG05033160	00MGG05033160	RES.	1 3.3 OHM +- 5% 1/6W
					<b>HDAM-SA3 PWB (PN01) (00MWG22AJ501-)</b>	
PN01	DN01		00MHZ20014990	00MHZ20014990	CHIP DIODE	KDS122
PN01	DN02		00MHZ20014990	00MHZ20014990	CHIP DIODE	KDS122
PN01	DN03		00MHZ20014990	00MHZ20014990	CHIP DIODE	KDS122
PN01	DN04		00MHZ20014990	00MHZ20014990	CHIP DIODE	KDS122
PN01	JN01		00MYP07005670	00MYP07005670	PLUG	IMSA-6065B-06Z065-PT1
PN01	QN01		00D2710320900	00D2710320900	TRS.	KTA1517-GR-RTK/P
PN01	QN02		00D2730481900	00D2730481900	TRS.	KTC3911S-GR-RTK/P
PN01	QN03		00D2710320900	00D2710320900	TRS.	KTA1517-GR-RTK/P
PN01	QN04		00D2730481900	00D2730481900	TRS.	KTC3911S-GR-RTK/P
PN01	QN05		00D2730481900	00D2730481900	TRS.	KTC3911S-GR-RTK/P
PN01	QN06		00D2710320900	00D2710320900	TRS.	KTA1517-GR-RTK/P
PN01	QN07		00D2730481900	00D2730481900	TRS.	KTC3911S-GR-RTK/P
PN01	QN08		00D2710320900	00D2710320900	TRS.	KTA1517-GR-RTK/P
PN01	RN01		nsp	00MGM114100G0	RES.	10 OHM +-1% 1/4W
PN01	RN02		nsp	00MGM114100G0	RES.	10 OHM +-1% 1/4W
PN01	RN03		nsp	00MNN05561610	CHIP RES.	560 OHM +- 5% 1/16W
PN01	RN04		nsp	00MNN05561610	CHIP RES.	560 OHM +- 5% 1/16W
PN01	RN05		nsp	00MGM114100G0	RES.	10 OHM +-1% 1/4W
PN01	RN06		nsp	00MGM114100G0	RES.	10 OHM +-1% 1/4W
PN01	RN07		nsp	00MNN05393610	CHIP RES.	39K OHM +- 5% 1/16W
PN01	RN08		nsp	00MNN05393610	CHIP RES.	39K OHM +- 5% 1/16W

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

## 14. 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
PD01	QU01	HD64F3687H FLASH	<b>C</b>	

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
PD01	QU01	HD64F3687H FLASH	<b>C</b>	

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。