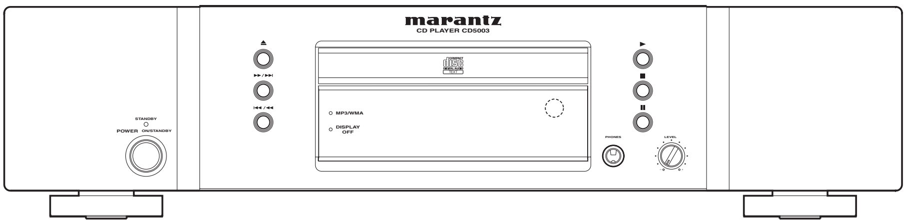
Service Manual

CD5003 /F B/N1B/U1B
F N/K1SG/N1SG

CD Player

CD5003



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

marantz®

CD5003

Part no. 90M06DW855010
First Issue 2008.07
MZ

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound.
Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.
Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.
The following information must be supplied to eliminate delays in processing your order :

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

USA

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

EUROPE / TRADING

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

CANADA

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

JAPAN

D&M Holdings Inc.
D&M BUILDING, 2-1 NISSHIN-CHO,
KAWASAKI-KU, KAWASAKI-SHI,
KANAGAWA, 210-8569 JAPAN

株式会社 ディーアンドエムホールディングス

本 社 〒210-8569
神奈川県川崎市川崎区日進町2-1 D&Mビル

KOREA

D&M SALES AND MARKETING KOREA LTD.
CHUNG JIN B/D., #1001,
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SEOUL, 140-719, KOREA
PHONE : +82 - 2 - 323 - 2155
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CHINA

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

NOTE ON SAFETY :

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

安全上の注意：

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

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

Audio characteristics

Channels .... 2 channels
Frequency response .... 2 Hz to 20 kHz
Dynamic range .... 100 dB
Signal-to-noise ratio .... 110 dB
Channel separation .... 110 dB (1 kHz)
Harmonic distortion .... 0.002% (1 kHz)
Wow & flutter .... Precision of quartz
Error correction system .... Cross-interleave Reed Solomon code (CIRC)
Audio output .... 2.25 V rms, stereo
Headphone output.... 18 mW/32 ohms (variable maximum)
Digital output
- Coaxial output (pin jack) .... 0.5 Vp-p, 75 ohms
- Optical output (square optical connector) .... -19 dBm

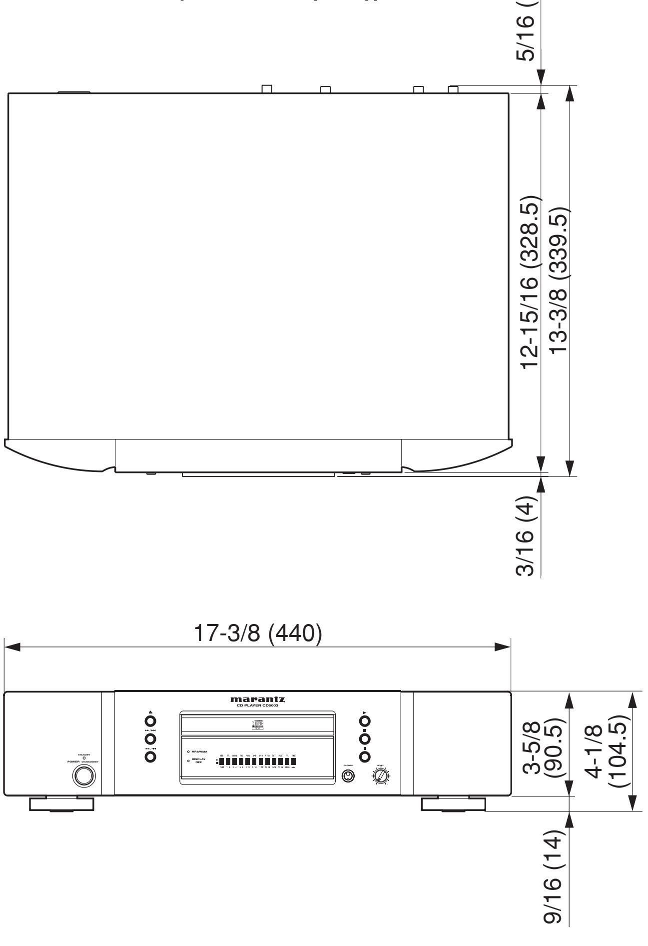
Optical readout system

Laser .... AlGaAs semiconductor
Wavelength .... 780 nm

Signal system

Sampling frequency .... 44.1 kHz
Quantization .... 16-bit linear PCM

■ Dimensions (unit: inch (mm))



Power supply

F version .... AC 100 V 50/60 Hz
N version .... AC 230 V 50/60 Hz
U version .... AC 120 V 60 Hz
Power consumption .... 14 W
Standby power consumption .... 0.4 W

Cabinet, etc.

Maximum dimensions... 440(W) x 104.5(H) x 339.5(D) mm
Weight .... 5.1 kg
Allowable operating temperature .... +5 to +35 °C
Allowable operating humidity....... 5 to 90 % (no condensation)

Accessories

Remote controller (RC001CD) 1
AAA batteries 2
AC power cord 1
Audio connecting cord 1
Remote control connecting cord 1

■ 规格 *[K version only]*

音频特性

模拟输出（载荷=10kΩ Ref=1kHz）
- 声道 2声道
- 频率响应 .... 2Hz到20kHz（Ref=0dB, +0.2dB -1dB）
- 动态范围（使用 FLP-A20k 时 .... 92dB（Ref=-60dB）
- 信噪比（使用 FLP-A20k 时） .... 102dB（Ref=0dB）
- 全频失真（使用 FLP-A20k 时 .... 0.005%（Ref=0dB）
- 晃抖度 .... 石英精度
- 输出水平 .... 2.25±0.3V rms

数字输出
- 水平输出（同轴） .... 0.5Vp-p±10%, 75Ω
- 水平输出（光学） .... -19dBm±3dBm

光学读取系统

激光 .... AlGaAs半导体激光
波长 760-800nm

信号系统

采样频率 44.1kHz
量化 16位线性PCM

电源

K版本 交流220V 50Hz
功耗 14W
待机电源消耗 0.4W

机箱等

附件
- 遥控器 1
- “AAA”尺寸电池 2
- AC电源线 1
- 音频连接线 1
- 遥控连接线 1

最大尺寸
- 宽 440mm
- 高 104.5mm
- 深 339.5mm

重量 5.1kg
允许的工作温度 .... +5~+35℃
允许的工作湿度 .... 5~90%（无结露）

• Supports CD-Text display

CD-Text is an extension to the existing audio CD standard that enables text information, such as the name of the artist, album title and song titles to be stored on an audio CD.
CDs with the following logos support this function.

Text information is recorded on the parts that are not used in the conventional Audio CDs.
This CD player enables the text information stored on a CD-Text CD to be read (applies only to English alphanumeric text).

■ Playing CD-R/CD-RW discs

This unit can play back the CD-RW (ReWritable) discs as well as ordinary Audio CD and CD-R (Recordable) discs.

- This unit can play back Audio CD format and CD-R/CD-RW discs which contain MP3 music data. However, some discs may have problems such as unable to play, noise or sound distortion.
  * For details, please read the instruction manual provided with a CD recorder.
- The CD-R and CD-RW discs should contain properly-recorded TOC information so that they can be played back. In CD recorders, the task of writing TOC information is referred to as finalizing the disc. Discs that are not finalized cannot be properly recognized as an Audio CD and played back by regular CD players and Super Audio CD players. For details, please read the instruction manual provided with a CD recorder.
  * TOC stands for Table Of Contents and contains information such as the total number of tracks and total playing time of the disc.
- This player can only be used to play Audio CD-DA format discs or discs on which MP3 or WMA audio data have been recorded. Do not attempt to play a disc containing other data, such as a CD-ROM for PCs, on this unit.
- As the playback of a CD-RW disc necessitates partial change of the player setup, it may take longer time for reading the TOC information than when an Audio CD or CD-R disc is played.

● CD-TEXT 表示対応

CD-TEXT とは従来の音楽 CD にアルバム名、曲名などの文字情報を記録した音楽ディスクです。以下のようなロゴが付いた CD が対応しています。

これらの文字情報は、従来の音楽 CD では使用されていなかった部分に記録されています。本機ではディスクに記録された文字情報を見ることができます。(英数字のみに対応しています。)

■ CD-R/CD-RW ディスクの再生について

本機では従来のオーディオ CD や CD-R (Recordable) に加え、CD-RW (ReWritable) ディスクの再生も可能です。

- 本機は音楽 CD フォーマット、または MP3 の音楽データが記録された CD-R/CD-RW ディスクを再生することができます。ただし、ディスクによっては「再生できない」、「ノイズが出る」、または「音が歪む」などが起きることがあります。詳しくはレコーダーの取扱説明書をご覧ください。
- CD-R や CD-RW の再生には必ず TOC* が正しく記録されていることが必要です。CD レコーダーでは TOC 情報を書き込むことをファイナライズ (Finalize) といい、この作業が正常に完了していないディスクは、通常の CD プレーヤーでは音楽 CD として正しく認識されず再生することができませんので十分ご注意ください。詳しくは CD レコーダーの取扱説明書をご覧ください。
  * TOC(トック)とはTable Of Contentsの略で、ディスクの総曲数や総演奏時間などの目次情報のことです。
- 再生できるのは音楽用の CD-DA フォーマットまたは MP3/WMA の音楽データで記録されたディスクのみです。その他のデータが記録されたディスクは再生しないでください。
- CD-RW ディスクを再生する場合、プレーヤーの設定を一部変更するため、音楽 CD や CD-R に比べ TOC の読み込みに時間がかかることがあります。

■ MP3/WMA ファイルの再生について

本機は MP3 (MPEG Audio Layer3) または WMA (Windows Media Audio) ファイル形式で記録されたデータファイルを CD-R、CD-RW に書き込んだディスクでの再生が可能です。
また、MP3 の ID3 タグに対応しており、ID3 タグ情報が記録されているファイルではトラック

■ Playing MP3 or WMA files

This CD player can be used to play CD-R or CD-RW discs on which MP3 (MPEG Audio Layer-3) or WMA (Windows Media Audio) format audio files have been recorded.
Support for MP3 ID3 tags enables display of ID3 information, such as artist names, album titles, track titles and the like, if this information has been recorded with the tracks.

- Windows Media and the Windows Logo are the registered trademark and trademark of Microsoft Corporation in the United States and other countries.
- Music that you have recorded that is subject to copyright laws is for personal use only, and cannot be used otherwise without the permission of the copyright holder.

Caution:

- The sound file specification supported by this CD player is "MPEG-1 Audio Layer-3" (sampling frequency fs 32 kHz, 44.1 kHz, 48 kHz). Other specifications, such as MPEG-2 Audio Layer-3, MPEG-2.5 Audio Layer-3, MP1 or MP2 are not supported.
- Generally the higher the bit rate, the higher the sound quality.

  MP3 bit rates are between 32 - 320 kb/s and for WMA between 64 - 160 kb/s. It is recommended that MP3/WMA recordings with a bit rate of at least 128 kb/s be used.
- The text information, such as ID3 tag information and file names that are displayed during playback of MP3s, support English alphanumeric characters only.
- When playing variable bit rate files, it is possible that the playing time may not be displayed accurately.
- When writing onto CD-R or CD-RW discs, please use either ISO9660 mode 1 or ISO9660 mode 2-disc format. Multi-session recording is also supported enabling the playing of data that have been added to a disc.
- MP3/WMA files that have been recorded by "packet writing" cannot be played back.
- Depending on the condition of the recorded data, it may take some time to read song information.
- In the case of an Enhanced or Mixed Mode CD having combined audio format CD-DA along with MP3/WMA files, only the CD-DA audio portion will be played.
- The playback of WMA DRM (Digital Rights Management) files is not supported by this player.

タイトル、アーティスト名、アルバムタイトルなどを表示することができます。

- Windows Media , Windows ロゴは米国、その他の国で、米国 Microsoft Corporation の登録商標または商標です。
- お客様が録音したものは個人として楽しむなどのほかは著作権法上、権利者に無断で使用できません。

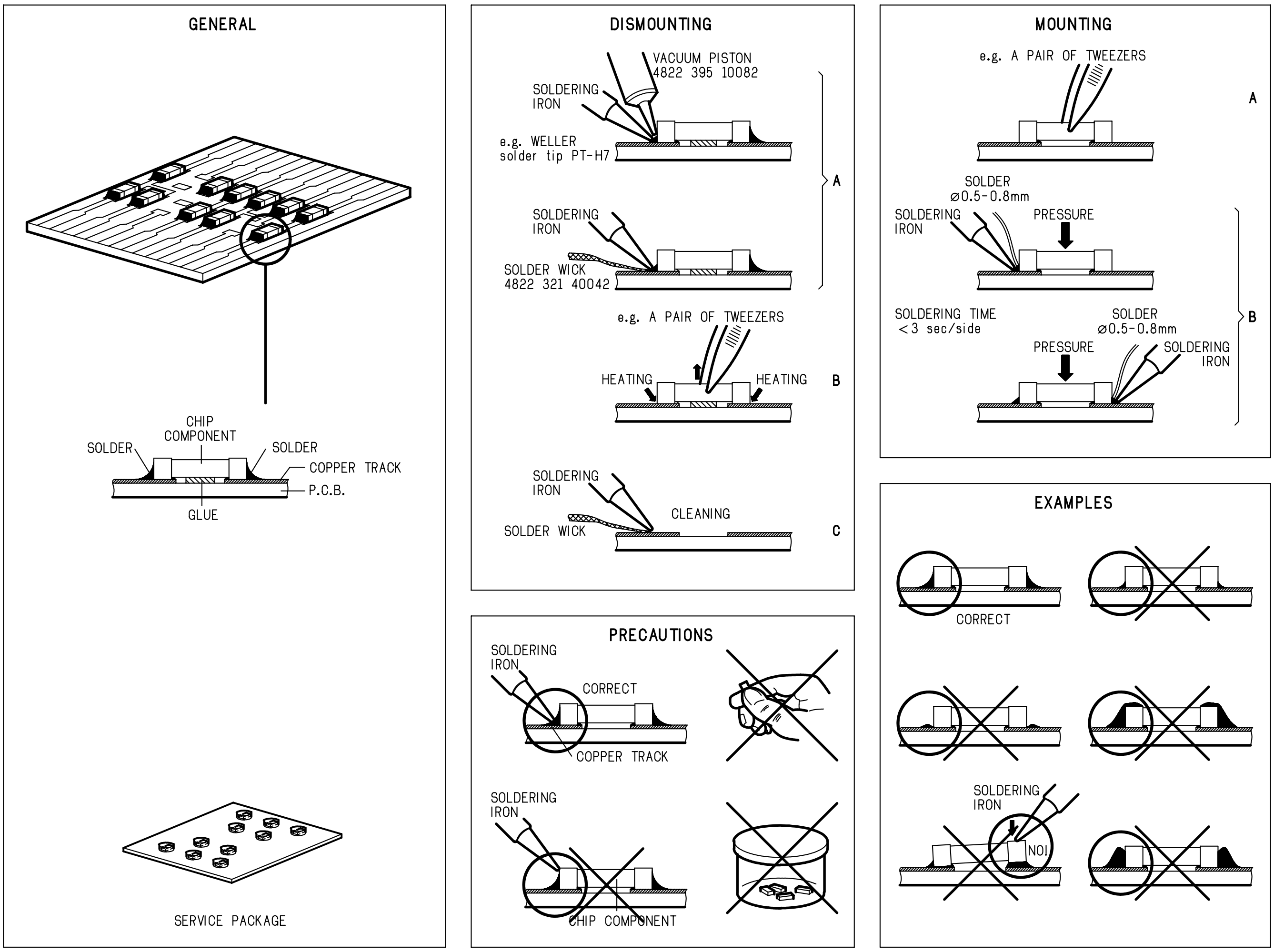
ご注意

- 本機で対応している規格は"MPEG-1 Audio Layer-3"(サンプリング周波数 fs は 32、44.1、48kHz)です。それ以外の"MPEG-2 Audio Layer-3"、"MPEG-2.5Audio Layer-3" および MP1、MP2 などには対応していません。
- 一般にビットレートが高いほど音質が良くなります。

  MP3 の対応ビットレートは 32 〜 320 kbps、WMA は 64 〜 160 kbps です。本機では 128kbps 以上のビットレートで記録された MP3／WMA のご使用をおすすめします。
- MP3／WMA ファイルには必ず拡張子".MP3" ".WMA" を付けてください。".MP3" ".WMA" 以外の拡張子を付けた場合や拡張子を付けなかった場合はファイルを再生できません。
- プレイリストには対応していません。
- ディスク 1 枚あたりの再生出来るファイル数は最大 255 で、フォルダー数は最大 255 です。
- 本機は 32 文字までのフォルダ名やファイル名を表示できます。
- 本機は、MP3 ID3 タグに対応しています。
- MP3 を再生した時に表示される ID3 タグ情報やファイル名の文字情報は日本語表示に対応していません。英数字をご使用ください。
- 可変ビットレートファイルの再生時には、正しく時間表示されないことがあります。
- CD-R や CD-RW に書き込むフォーマットは ISO9660 モード 1 またはモード 2 で書き込みをしてください。また、マルチセッションに対応していますので、追加で書き込みしたデータの再生もできます。
- パケットライトで記録された MP3／WMA ファイルは再生できません。
- 記録したデータの状態によっては曲情報を読み取るのに時間がかかる場合があります。
- 音楽用のフォーマット CD-DA と MP3／WMA ファイルが混在したエンハンスド CD およびミックス CD は、音楽用のフォーマット CD-DA のみ再生します。
- WMA DRM(著作権保護)ファイルの再生には対応していません。

2. SERVICE HINTS AND TOOLS

SERVICE HINTS



SERVICE TOOLS

Audio signals disc	4822 397 30184 or TCD-784
Disc without errors +	
Disc with DO errors, black spots and fingerprints	4822 397 30245 (SBC444A) or TCD-726
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
DVD test disc (PAL)	4822 397 10131
DVD test disc (NTSC) ALMEDIO	TDV-540

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3. WARNING AND LASER SAFETY INSTRUCTIONS

GB **WARNING**

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

ESD

NL **WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

F **ATTENTION**

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise a leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller a ce que les composants ainsi que les outils que l'on utilise soient également a ce potentiel.

D **WARNUNG**

Alle IC und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).
Unsorgfältige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern.
Sorgen sie dafür, das Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.
Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

I **AVVERTIMENTO**

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevita potrebbe essere fortemente ridatta in caso di non osservazione della piu grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt terug gebracht en dat onderdelen, identiek aan de gespecifieerde worden toegepast.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten.
Der Originalzustand des Gerats darf nicht verandert werden.
Fur Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambiago idetici a quelli specificati.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agrées, seuls habilités à réparer votre appareil en panne."

F

Les normes de sécurité exigent que l'appareil soit remis a l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CLASS 1
LASER PRODUCT

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AVOID DIRECT EXPOSURE TO BEAM

WARNING

The use of optical instruments with this product will increase eye hazard.
Repair handling should take place as much as possible with a disc loaded inside the player

WARNING LOCATION: INSIDE ON LASER COVERSHIELD

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL Å PNES UNNGÅ EKSPONERING FOR STRÅLEN
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETSEN
DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

030804ecn

4. SERVICE MODE AND TAKING THE DISC OUT OF EMERGENCY

4. SERVICE MODE AND TAKING THE DISC OUT OF EMERGENCY

[A] SERVICE MODE

1. Insert mains cable plug in the outlet. (The Unit is standby mode.)
2. Press the **POWER ON/STANDBY** button While pressing ►►/►►I button and **STOP** Button.
   Model name is displayed.

[A] SERVICE MODE

1. 電源コードを接続します。(STANDBY モードにします)
2. ►►/►►Iボタンと**STOP**ボタンを押しながら**POWER ON/ STANDBY**ボタンを押します。
   DISPLAYに機種名が表示されます。

CD5003

3. Press ►►/►►I button
   Version of microprocessor is displayed.

3. ►►/►►Iボタンを押します。
   DISPLAYにMicro-Processor Versionが表示されます。

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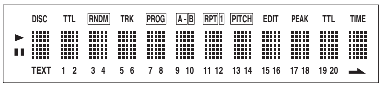
4. Press ►►/►►I button
   Light up all FL segment

4. ►►/►►Iボタンを押します。
   FLDが全点灯します。



5. Press ►►/►►I button
   Serial number is displayed.

5. ►►/►►Iボタンを押します。
   DISPLAYにSERIAL NOが表示されます。

MZ_000000000

6. Press ►►/►►I button
   Playback time is displayed.

6. ►►/►►Iボタンを押します。
   DISPLAYにDISC 再生時間（総合計）が表示されます。

PTime : 00021h

To return to a previous display at anytime, press I◄◄/◄◄ button.
Press the **POWER ON** button to quit Service Mode.

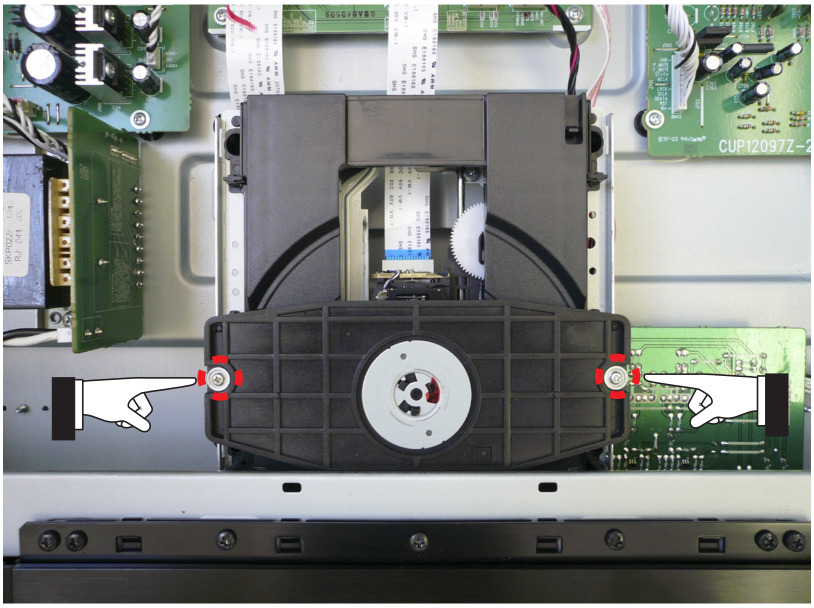
いつでも前の表示に戻るには、I◄◄/◄◄ボタンを押します。

電源を切るとSERVCICE モードが解除されます。

[B] TAKING THE DISC OUT OF EMERGENCY

1. Remove the top cover of the player.
2. Remove 2 screws shown in the picture follows.
3. Remove the disc clamper.
4. Now you can remove the disc.

Remove those screws



5. HOW TO THE RESET OF PLAYBACK TIME

When replacing CD MECHANISM (TRAVERSE), please reset Playback time (total) in the following procedure.

1. Procedure 6 of SERVICE MODE, Playback time (total) is displayed.

PTime : 10051h

The display is a time unit. (Example: "10050 hours, 0 minute, 1 second " is 10051h)
The maximum Playback time is 65536h.

2. Press ■ (STOP) Button 3 seconds and more.
PTime Clear? is displayed.

PTime Clear?

3. Press ► (PLAY) Button.
Done is displayed after PTime:00000h is displayed.
Play back time (total) was reset.

Done	→	PTime : 00000h

Press the **POWER ON** button to quit Service Mode.

5. DISC再生時間のリセット（初期化）方法

新しいCD MECHANISM (TRAVERSE)に交換した場合、次の手順でDISC再生時間をリセット（初期化）してください。

1. SERVICE MODE の手順6. でDISPLAYにDISC 再生時間（合計）が表示されます。

表示は時間単位です。（例：10050時間０分１秒は10051hとなります）
最大表示は、65536hまでです。

2. ■(STOP)ボタンを３秒以上押します。
DISPLAYにPTime Clear?と表示されます。

3. ►(PLAY)ボタンを押します。
DISPLAYにDoneと表示され、その後、PTime:00000hとなります。
DISC再生時間がリセット（初期化）されました。

電源を切るとSERVCICE モードが解除されます。

6. UPDATE MICROPROCESSOR SOFTWARE PROCEDURE

When microprocessor software was updated, update the software in the following procedure.

Necessary Equipment

- Windows PC (OS: Windows 2000 or Windows XP) with Serial port.
- RS-232C Dsub-9 pin cable (female to female/straight type).
- Connection JIG (90M-SR4500JIG)
- Update tool (FlashProg.exe, other files and folders in Flash Programmer folder)
- Update data (CD5003_yymmdd_x.s2h4)

NOTE : The yy is two digits of year. The mm is month. The dd is date. The x is release number.

[A] Update Procedure

1. Put the "Flash Programmer" and "software" folder into anywhere on your PC's hard disc.
2. Double click the "Flash Programmer" folder.

6. UPDATE MICROPROCESSOR SOFTWARE PROCEDURE

マイコンのソフトウェアが更新された場合、下記の手順に従ってアップデートしてください。

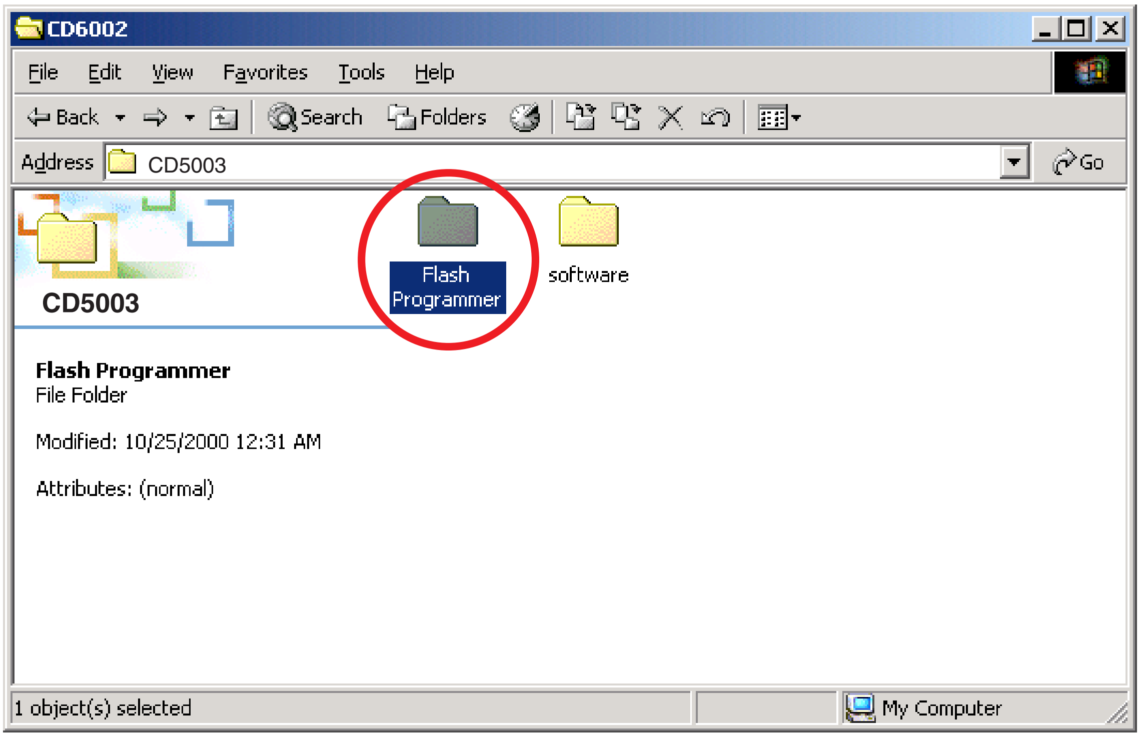
必要機器

- Windows PC (OS: Windows 2000またはWindows XP) でSerialポートのあるもの
- RS-232Cストレートケーブル (9pinメス−9pinメス)
- 接続治具 (90M-SR4500JIG)
- アップデート用書き込みソフトウェア (Flash Programmerフォルダ内 FlashProg.exe、および他のファイルとフォルダ)
- アップデート用データ (CD5003_yymmdd_x.s24)

注意 : yyは年の下二桁、mmは月、ddは日、xはリリースナンバー

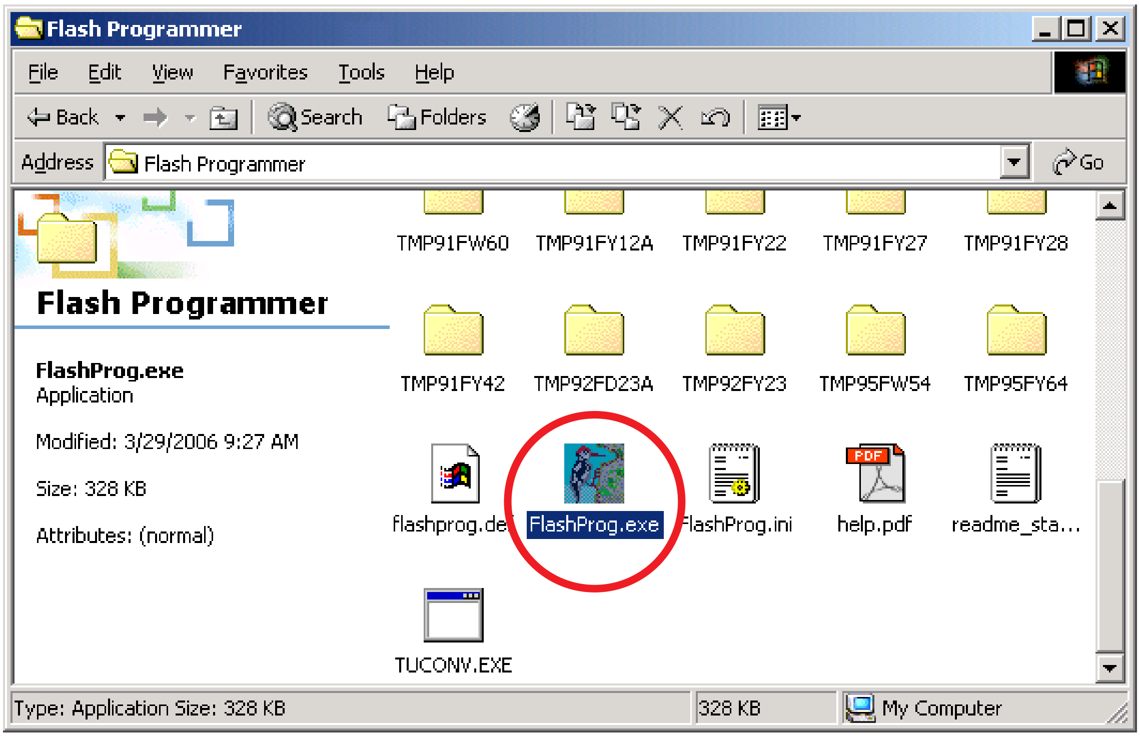
[A] Update Procedure

1. "Flash Programmer"と"software"フォルダをPCの任意のフォルダにコピーします。
2. "Flash Programmer"フォルダをダブルクリックします。



3. Double click FlashProg.exe, and launch the Flash Programmer.

3. FlashProg.exeをダブルクリックし、Flash Programmerを起動します。

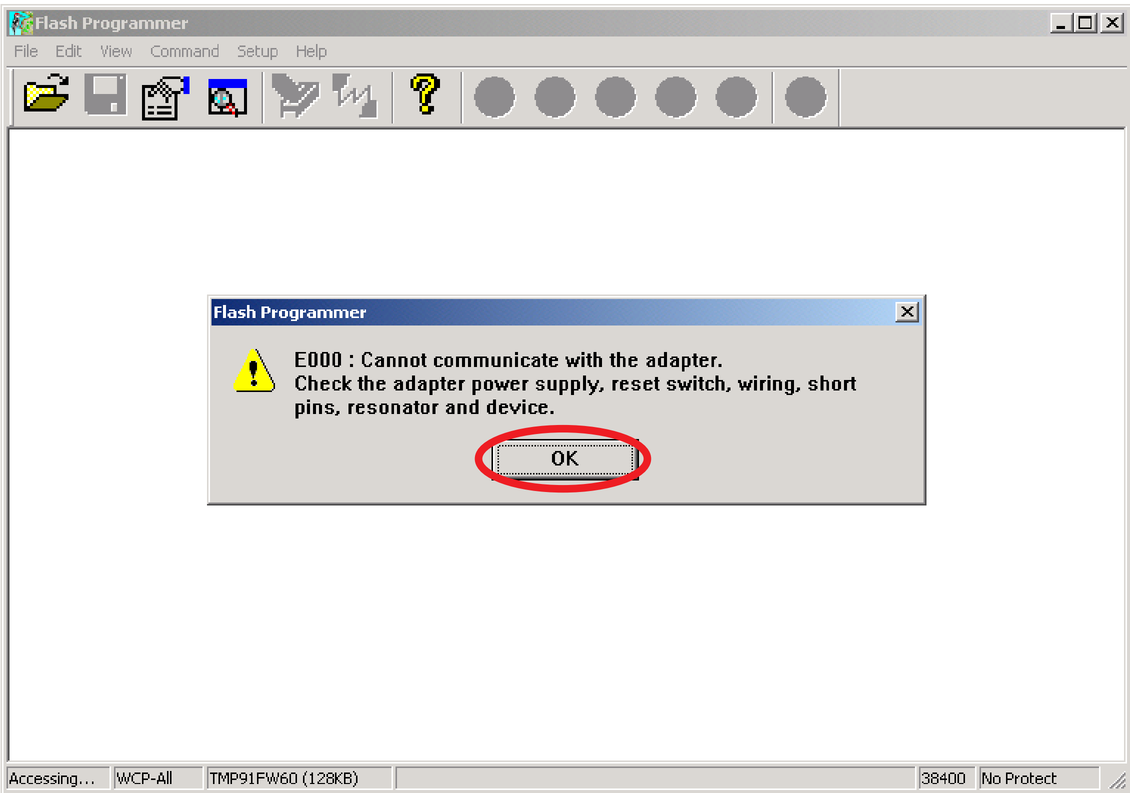


NOTE : When a Flash Programmer does not launch even if double-clicked FlashProg.exe, please refer to "**[B] When a Flash Programmer did not launch**".

4. Click **OK**.

注意： FlashProg.exeをダブルクリックしてもFlash Programmer が起動しない場合は、"**[B] When a Flash Programmer did not launch**"を参照してください。

4. **OK**をクリックします。

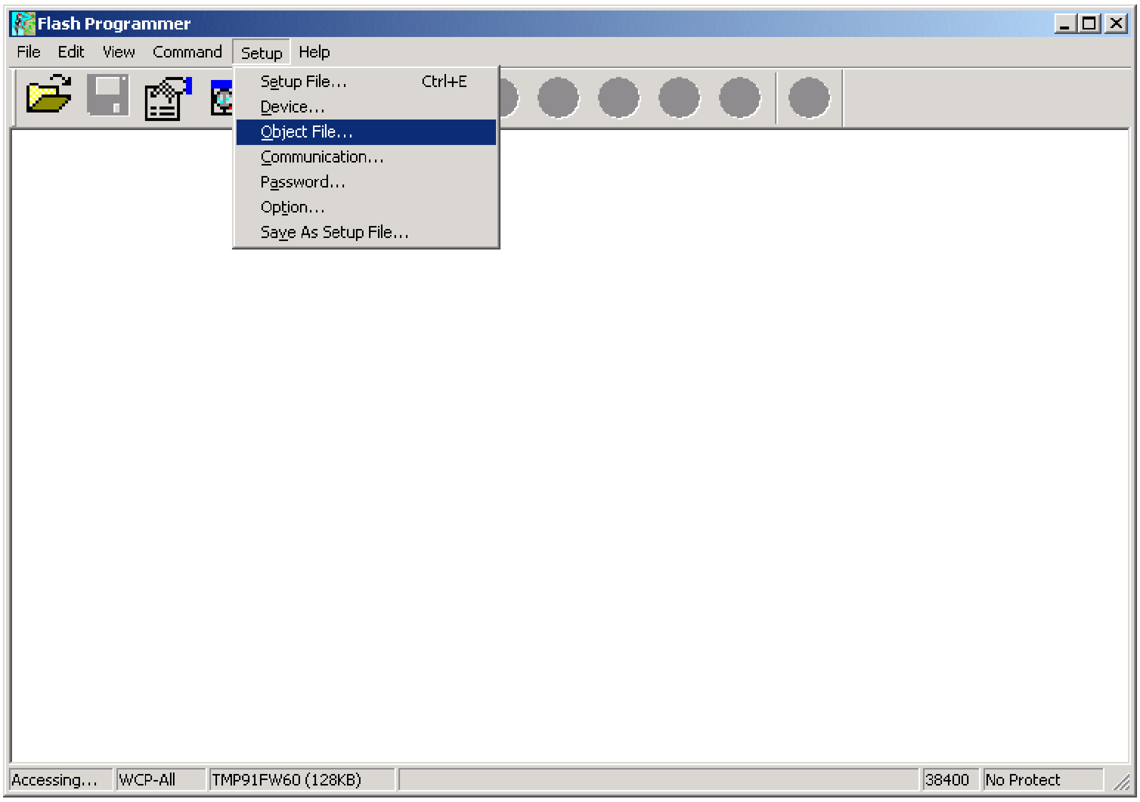


NOTE : Since Flash Programmer communicates with the unit automatically, the following dialog box appears when it fails in communication.

注意： は本機に自動的に通信接続を行います。このダイアログボックスは通信接続に失敗すると常に表示されます。

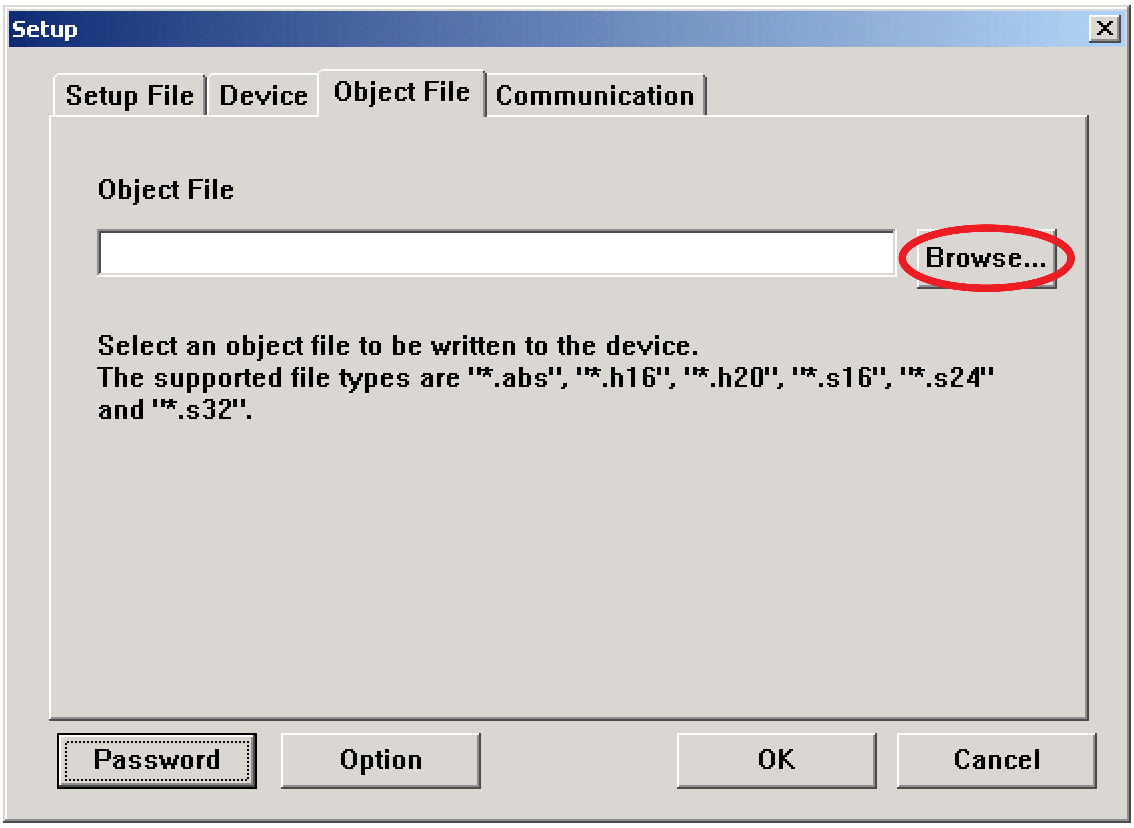
5. Click the **Setup** in the menu bar and select the **Object file**.

5. メニューバーから**Setup**をクリックし、**Object file**を選択します。



6. Click **Browse**.

6. **Browse**をクリックします。

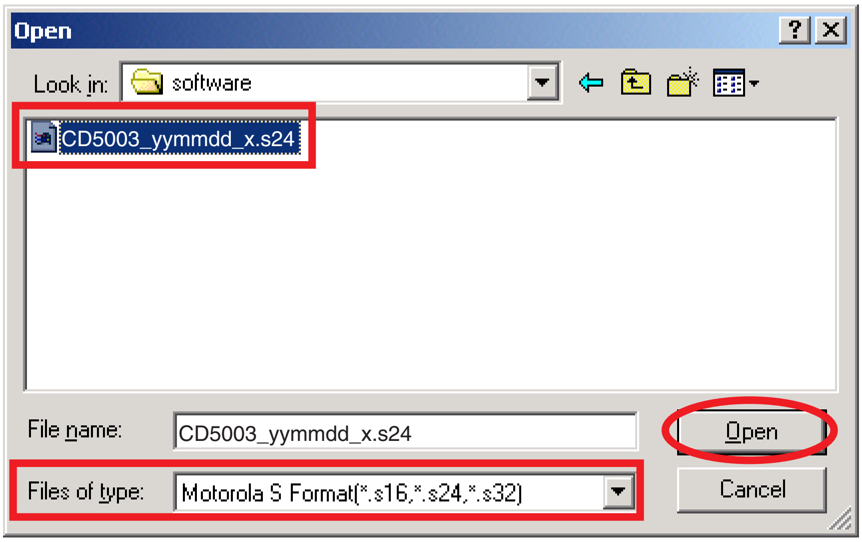


7. Choose the **Motorola S Format(*.s16,*.s24,*.s32)** in Files of type.
   Choose the **CD5003_yymmdd_x.s24**, and click **Open**.

NOTE : The yy is two digits of year. The mm is month. The dd is date. The x is release number.

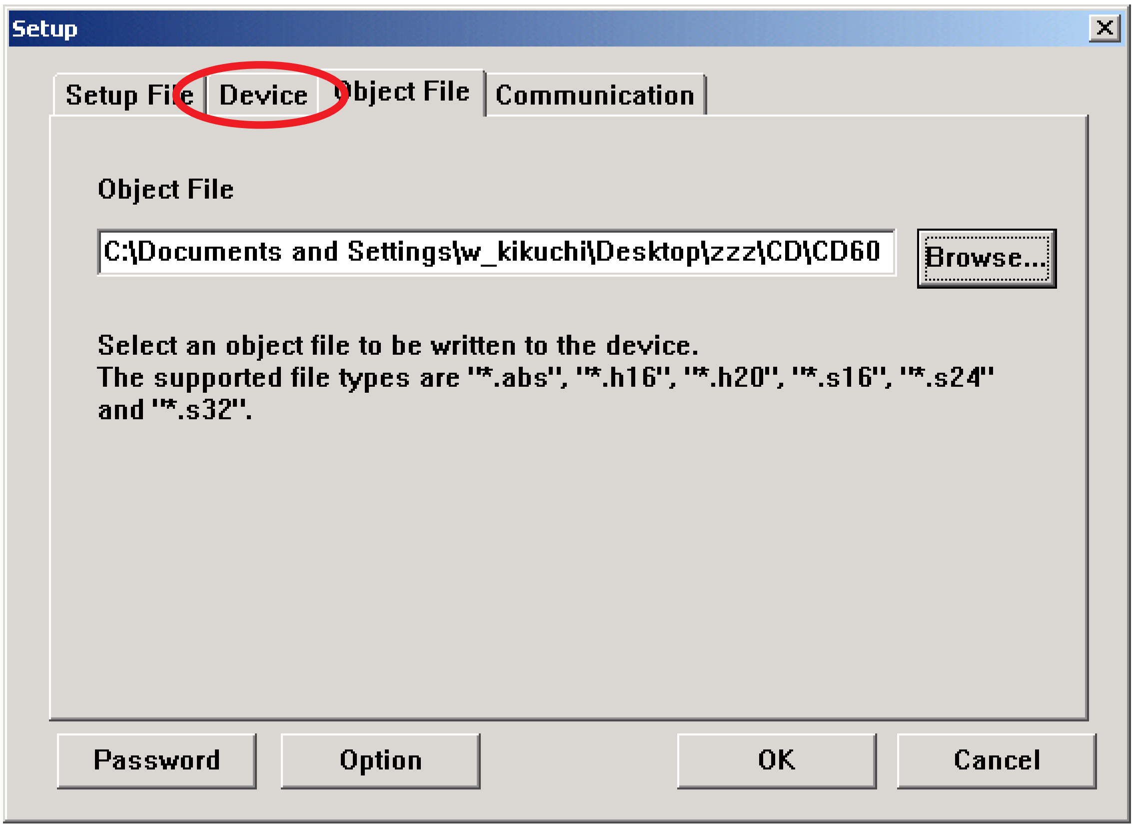
7. Files of type を**Motorola S Format(*.s16,*.s24,*.s32)**に変更します。
   CD5003_yymmdd_x.s24を選択し、**Open**をクリックします。

注意： yyは年の下二桁、mmは月、ddは日、xはリリースナンバー



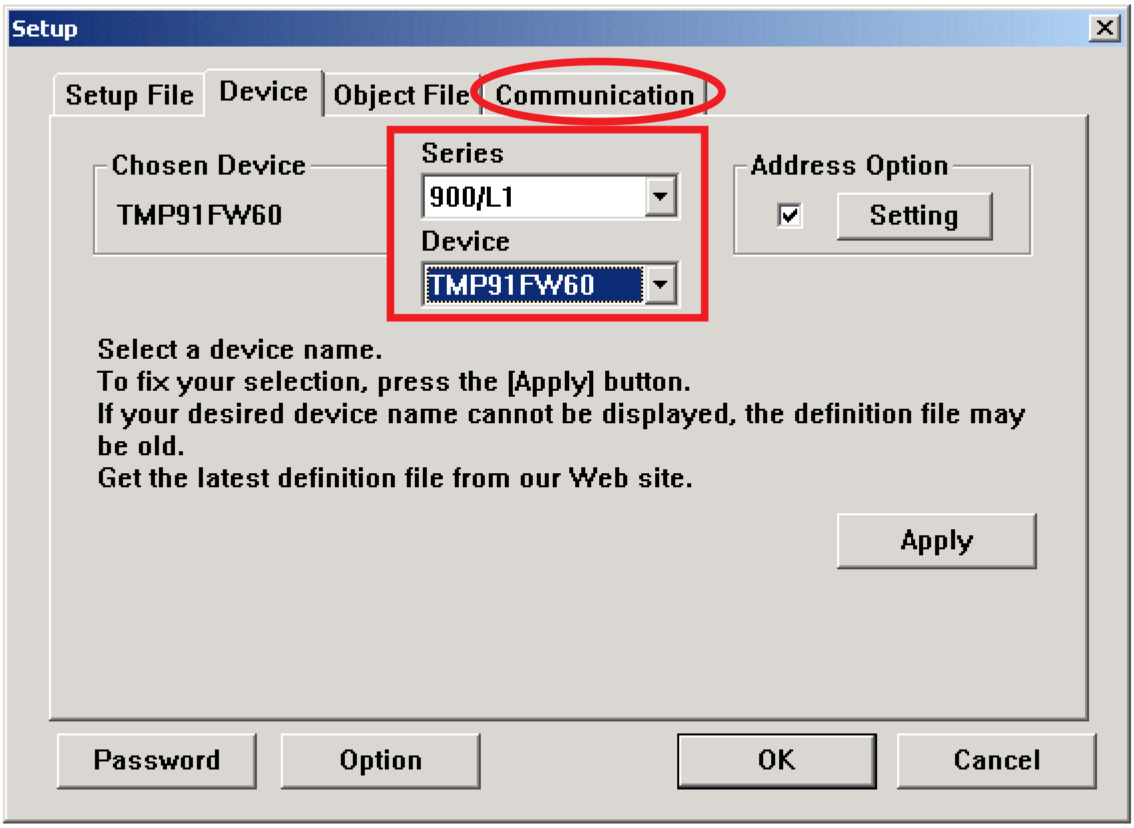
8. Click **Device** tab.

8. **Device**タブをクリックします。



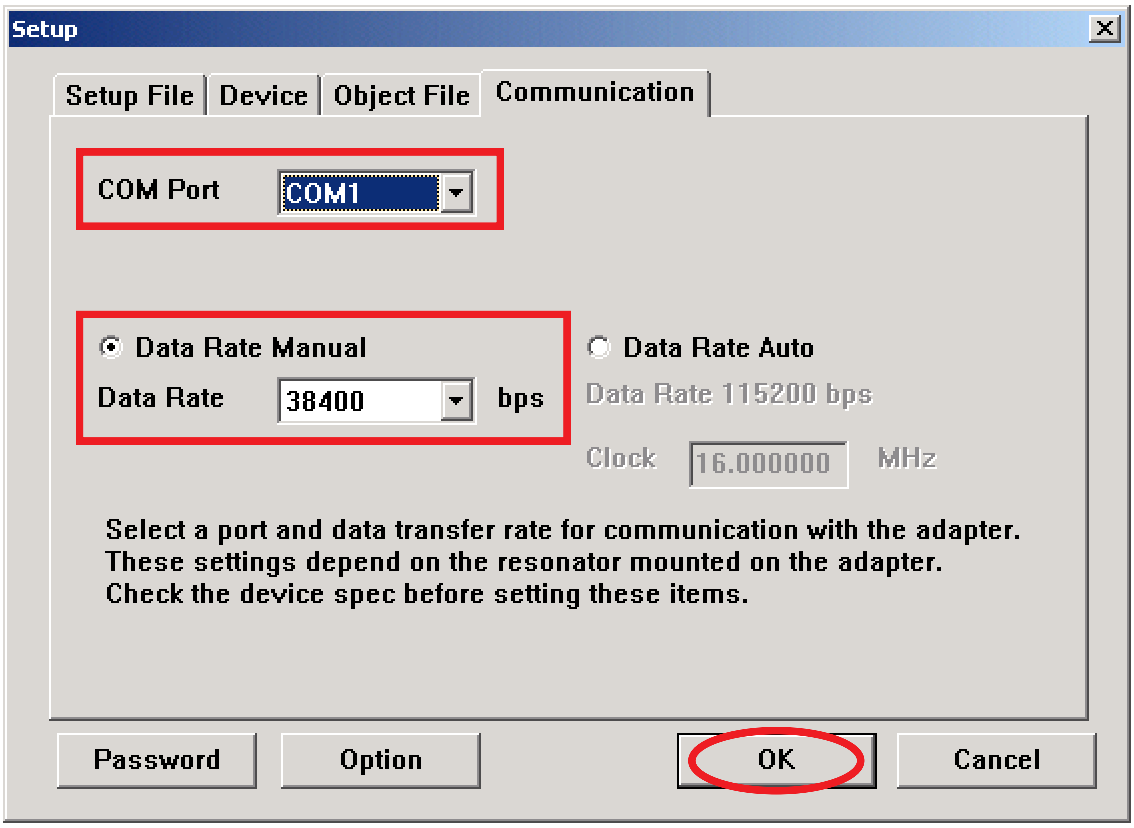
9. Choose the **TMP91FW60** in the Device, and choose the **900/L1** in the Series.
And click **Communication** tab.

9. Deviceから**TMP91FW60**を選び、Seriesから**900/L1**を選択します。
そして、**Communication**タブをクリックします。



10. Choose the **Serial port number** in the COM Port.
Check the **Data Rate Manual**, and choose the **38400** in the Data Rare.
And Click **OK**.

10. COM Portから使用する**ポート番号**を選択します。
Data Rate Manualにチェックを入れ、**Data Rare**から**38400**を選択します。
OKをクリックします。



11.Disconnect the mains cord from the unit.

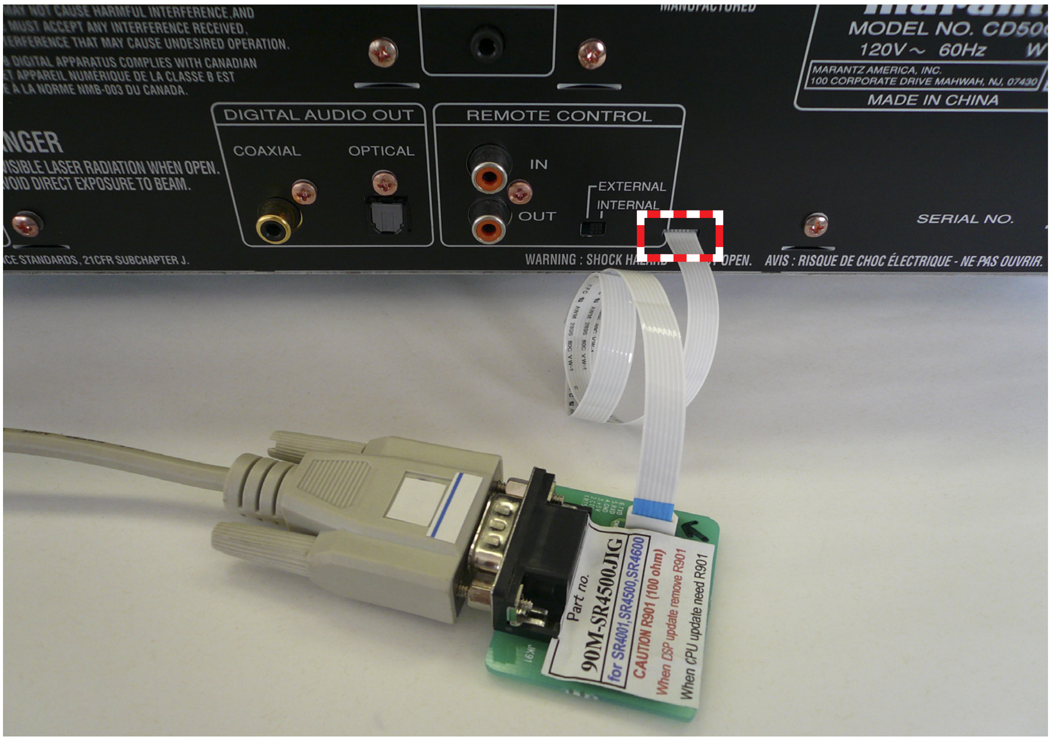
12.Connect the RS-232C on the connection JIG and the Serial Port of windows PC with RS-232C cable.

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

11.本機から電源ケーブルを外します。

12.接続治具のRS-232C端子とPCのSerialポートをRS-232Cケーブルで接続します。

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

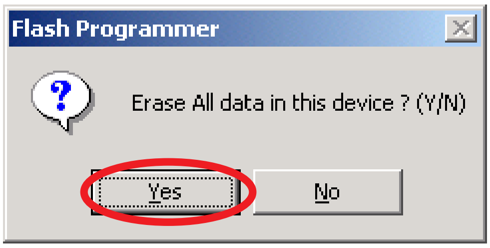


14.Connect the mains cord into the unit.

15.If the connection with the Flash Programmer is successfully made, a dialogue box saying "Erase All data in this devise? (Y/N)" appears automatically. If the connection fails, error message will appear. (Ex.: E000) Click **Yes**.

14.本機に電源ケーブルを接続します。

15.Flash Programmerが通信接続に成功すると"Erase All data in this devise? (Y/N)"と書かれたダイアログボックスが自動的に表示されます。接続に失敗するとエラーメッセージが表示されます。（例：E000）
Yesをクリックします。

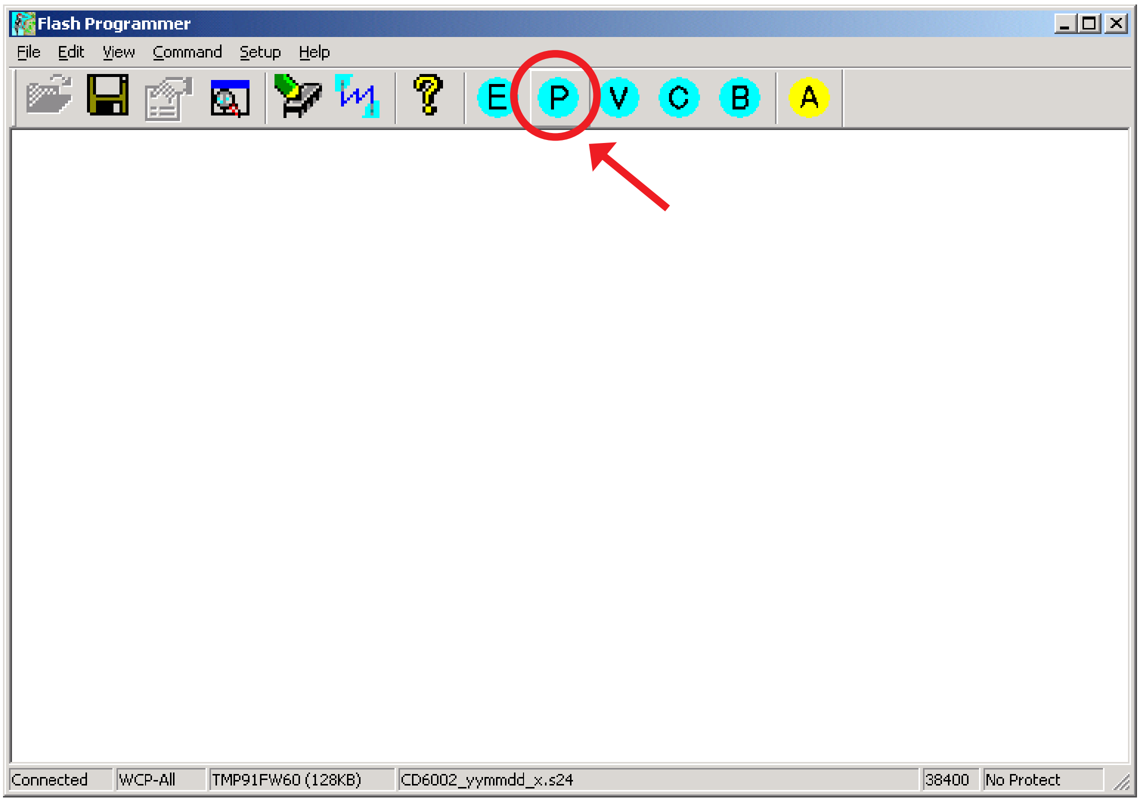


16.Click **OK**.

16.**OK**をクリックします。

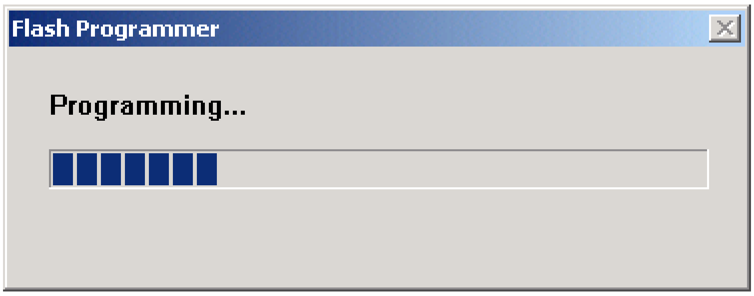
17.Click **P (Program)** to start update.

17.**P (Program)**をクリックし、アップデートを開始します。



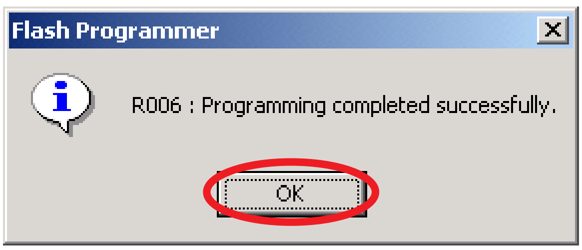
18.Software is written into the microprocessor.
The writing of software takes about 50 seconds.

18.ソフトウェアがマイコンに書き込まれます。
ソフトウェアの書き込みにかかる時間はおよそ50秒です。



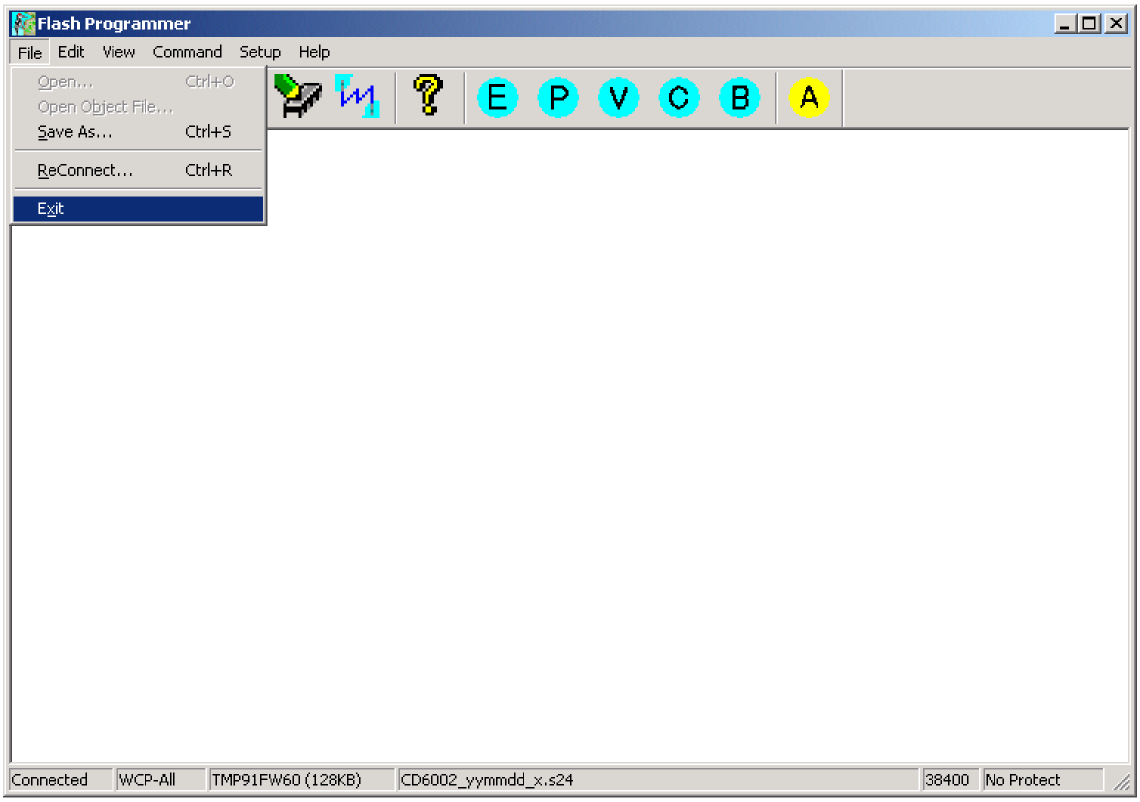
19.If the software is updated successfully, a dialog box saying "R006: Programming completed successfully." appears.
Click **OK**.

19.アップデートが完了すると"R006: Programming completed successfully"と書かれたダイアログボックスが表示されます。
OKをクリックします。



20.Click the **File** in the menu bar and select the **Exit**.

20.メニューバーの**File**をクリックし、**Exit**を選択します。



21.Disconnect mains cord from the unit, and then disconnect FFC of connection JIG from the unit.

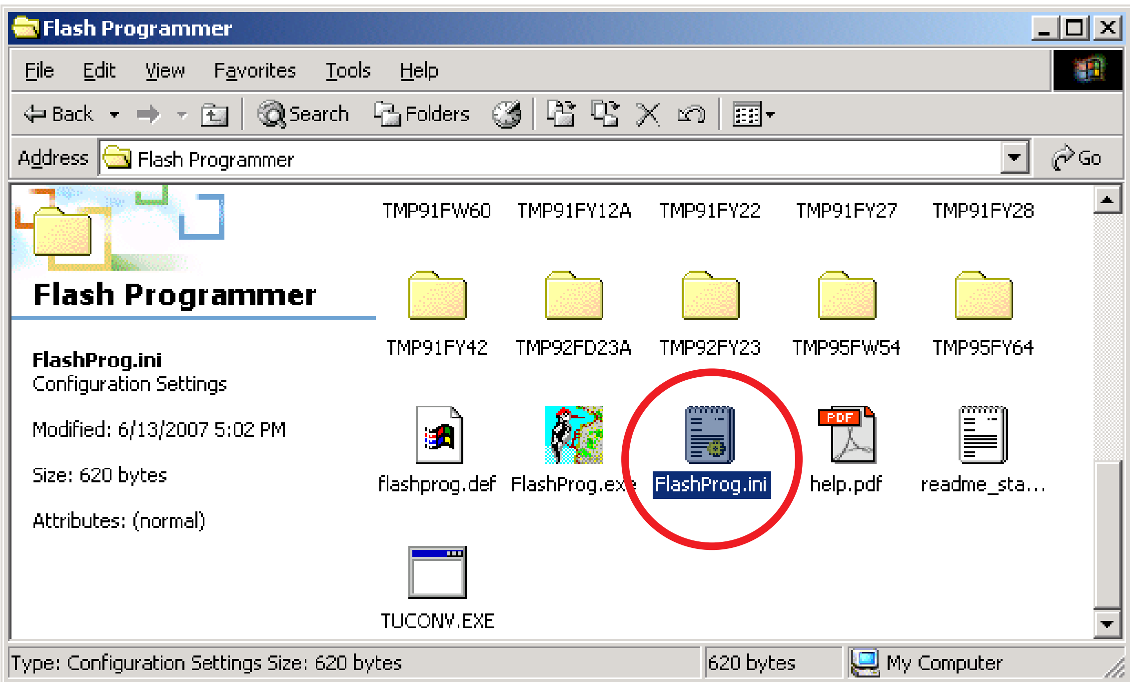
21.電源ケーブルを本機からはずし、その後接続治具のFFCを本機から外します。

[B] When a Flash Programmer did not launch

1. Open the FlashProg.ini in the Flash Programmer folder by text editor. (EX.: Notepad, etc)

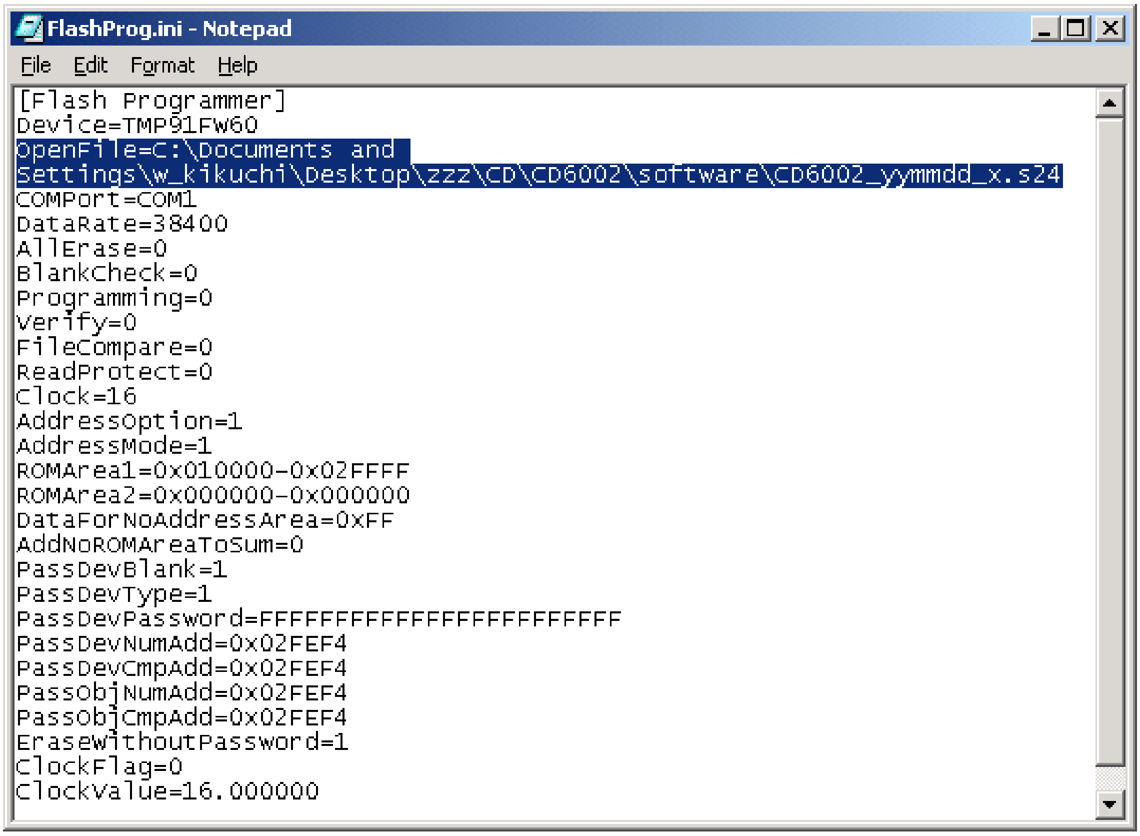
[B] When a Flash Programmer did not launch

1. Flash Programmerフォルダ内のFlashProg.iniをテキストエディタで開きます。（メモ帳など）

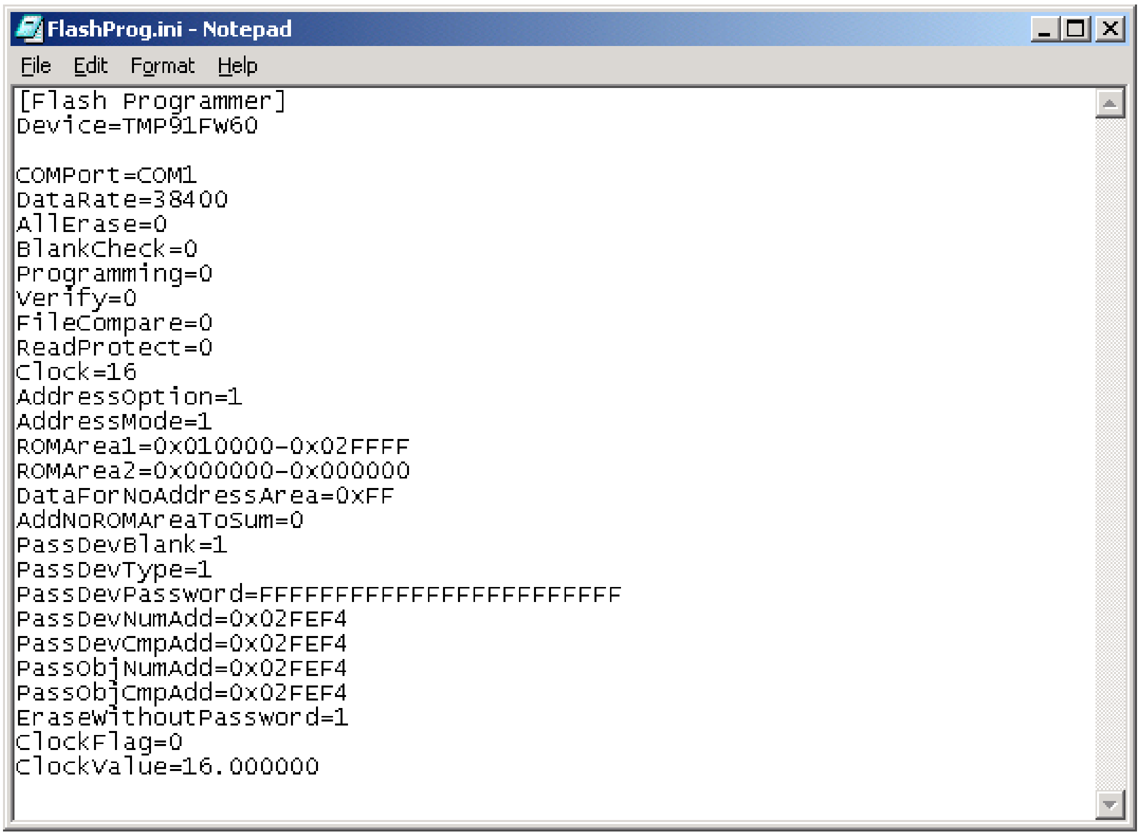


2. Delete the text "OpenFile=C:\...(your PC setting)...\???.s24".

2. テキスト文の”OpenFile=C:\...(PC環境により異なります。)...\???.s24”を削除します。




```
[Flash Programmer]
Device=TMP91FW60
OpenFile=C:\Documents and
Settings\w_kikuchi\Desktop\zzz\CD\CD6002\software\CD6002_yymmdd_x.s24
COMPort=COM1
DataRate=38400
AllErase=0
BlankCheck=0
Programming=0
Verify=0
FileCompare=0
ReadProtect=0
Clock=16
AddressOption=1
AddressMode=1
ROMArea1=0x010000-0x02FFFF
ROMArea2=0x000000-0x000000
DataForNoAddressArea=0xFF
AddNoROMAreaToSum=0
PassDevBlank=1
PassDevType=1
PassDevPassword=FFFFFFFFFFFFFFFFFFFFFFFF
PassDevNumAdd=0x02FEF4
PassDevCmpAdd=0x02FEF4
PassObjNumAdd=0x02FEF4
PassObjCmpAdd=0x02FEF4
EraseWithoutPassword=1
ClockFlag=0
ClockValue=16.000000
```

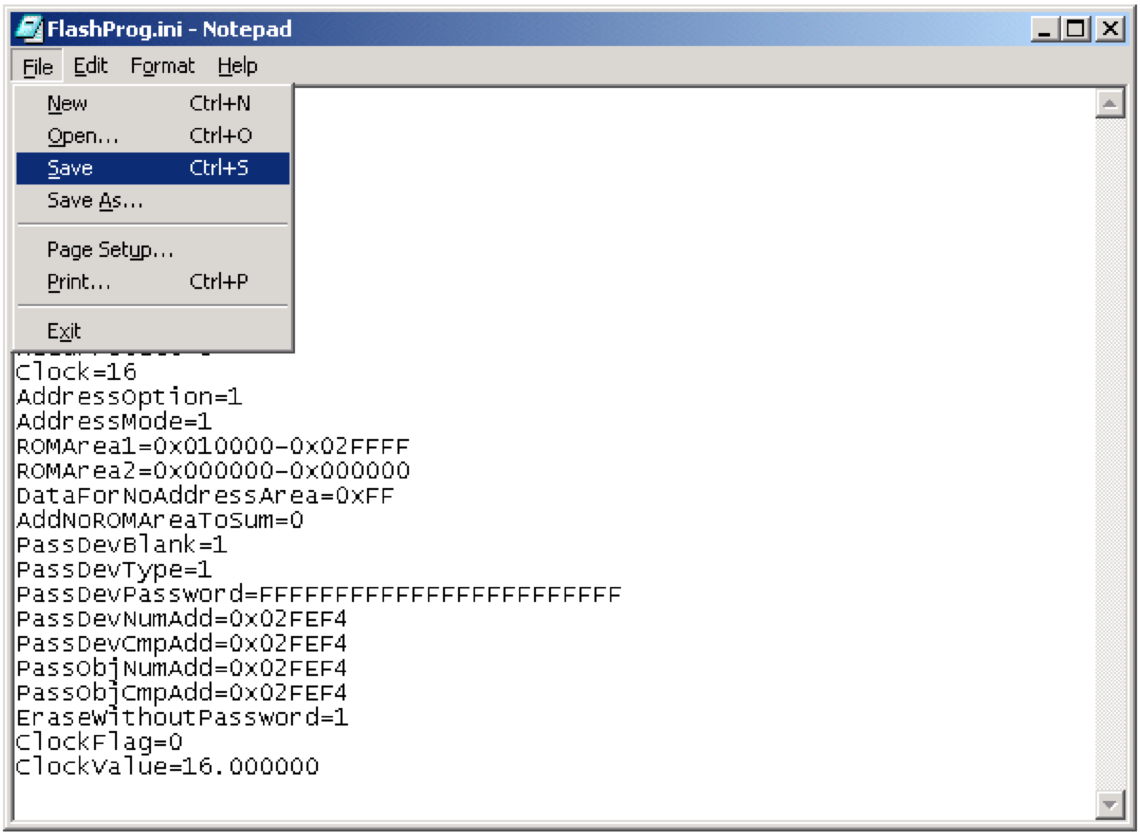



```
[Flash Programmer]
Device=TMP91FW60

COMPort=COM1
DataRate=38400
AllErase=0
BlankCheck=0
Programming=0
Verify=0
FileCompare=0
ReadProtect=0
Clock=16
AddressOption=1
AddressMode=1
ROMArea1=0x010000-0x02FFFF
ROMArea2=0x000000-0x000000
DataForNoAddressArea=0xFF
AddNoROMAreaToSum=0
PassDevBlank=1
PassDevType=1
PassDevPassword=FFFFFFFFFFFFFFFFFFFFFFFF
PassDevNumAdd=0x02FEF4
PassDevCmpAdd=0x02FEF4
PassObjNumAdd=0x02FEF4
PassObjCmpAdd=0x02FEF4
EraseWithoutPassword=1
ClockFlag=0
ClockValue=16.000000
```

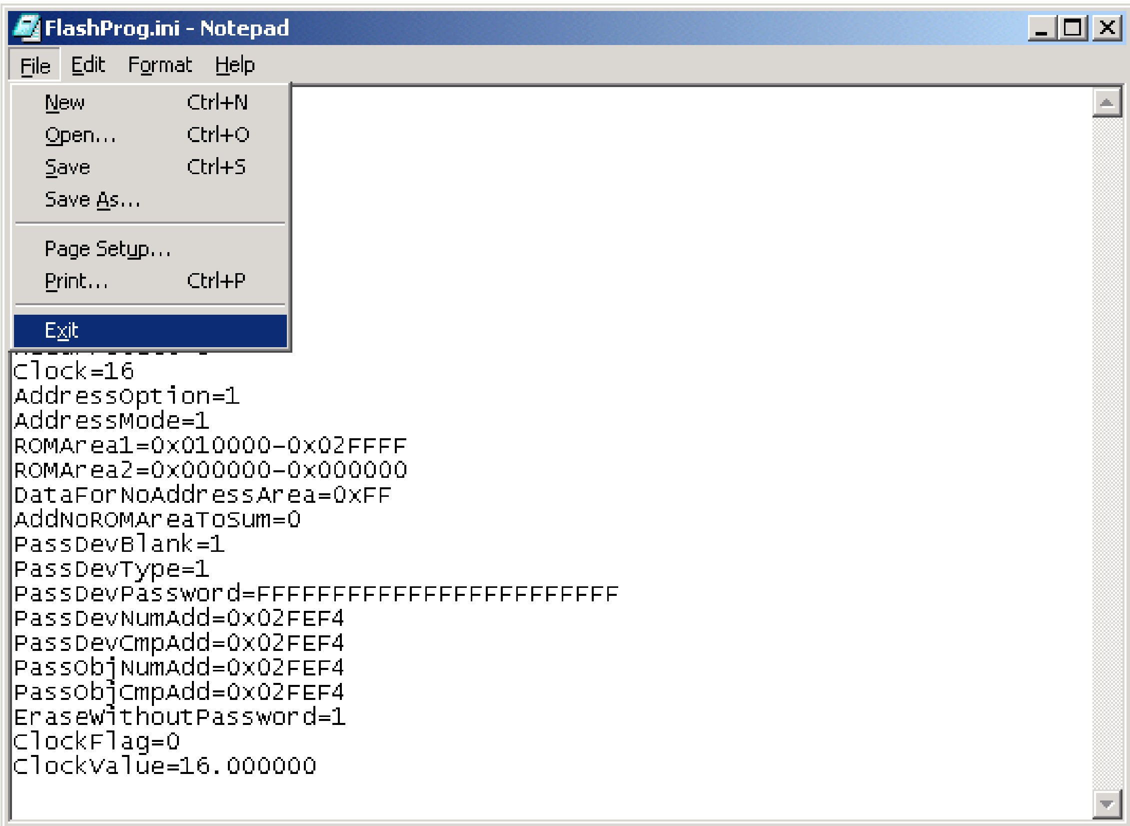
3. Save the FlashProg.ini.

3. FlashProg.iniを上書き保存します。



4. Close the text editor.

4. テキストエディタを閉じます。

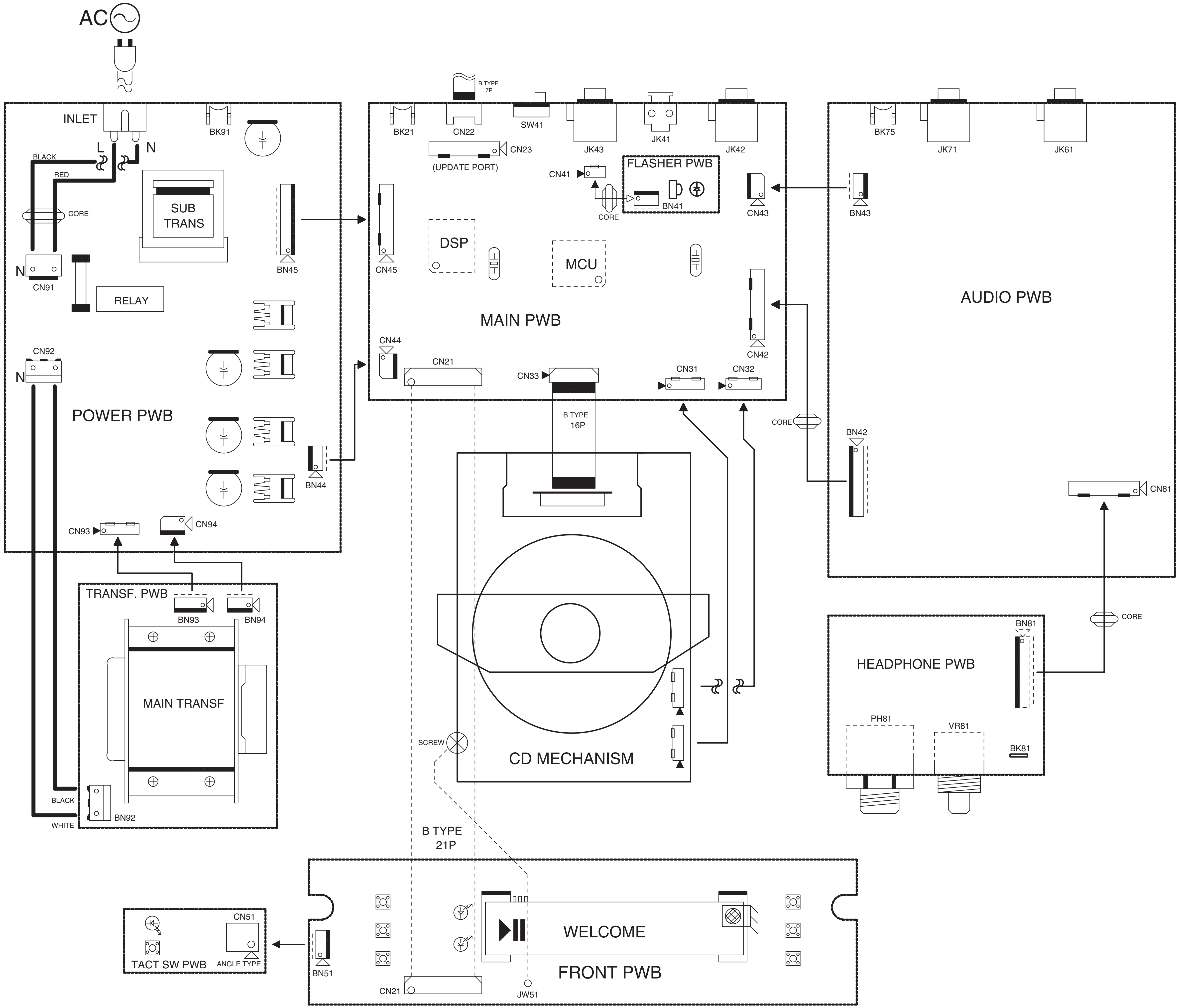


5. Probably you can launch the Flash Programmer. Go to the **[A] Update Procedure** step 3.

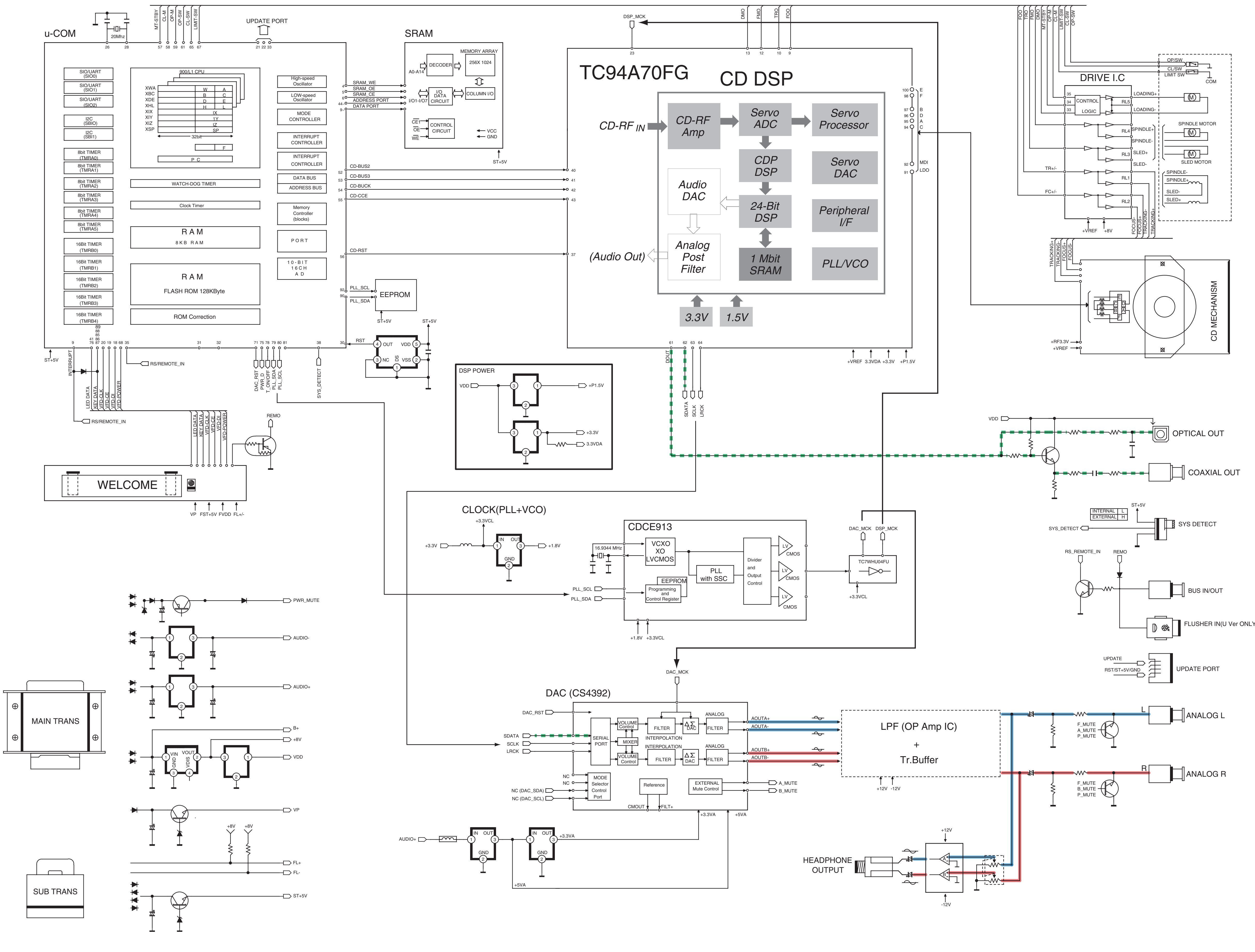
5. これでFlash Programmerを起動することが出来ますので**[A] Update Procedure**手順3に戻ってください。.

Personal notes:

7. WIRING DIAGRAM

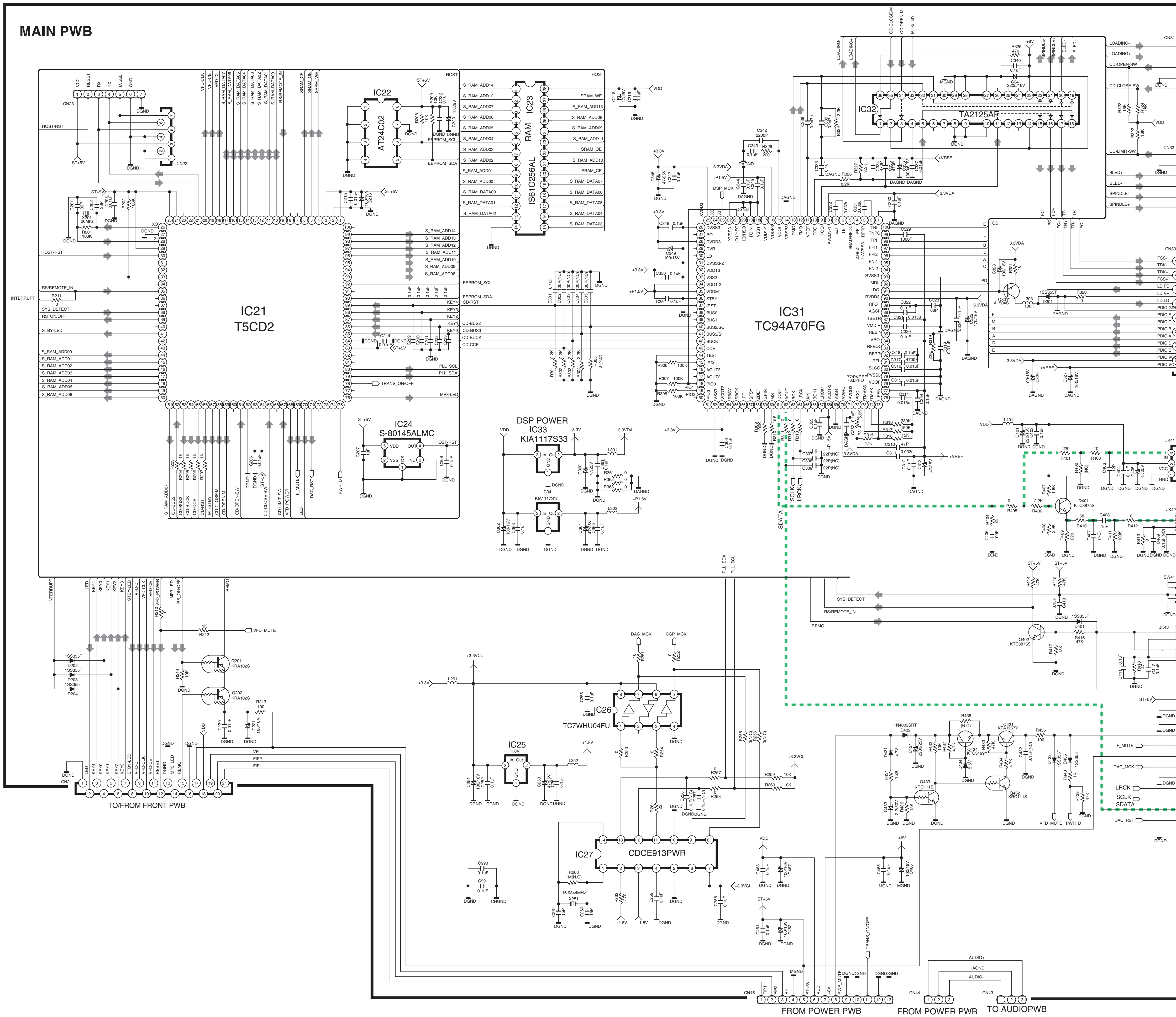


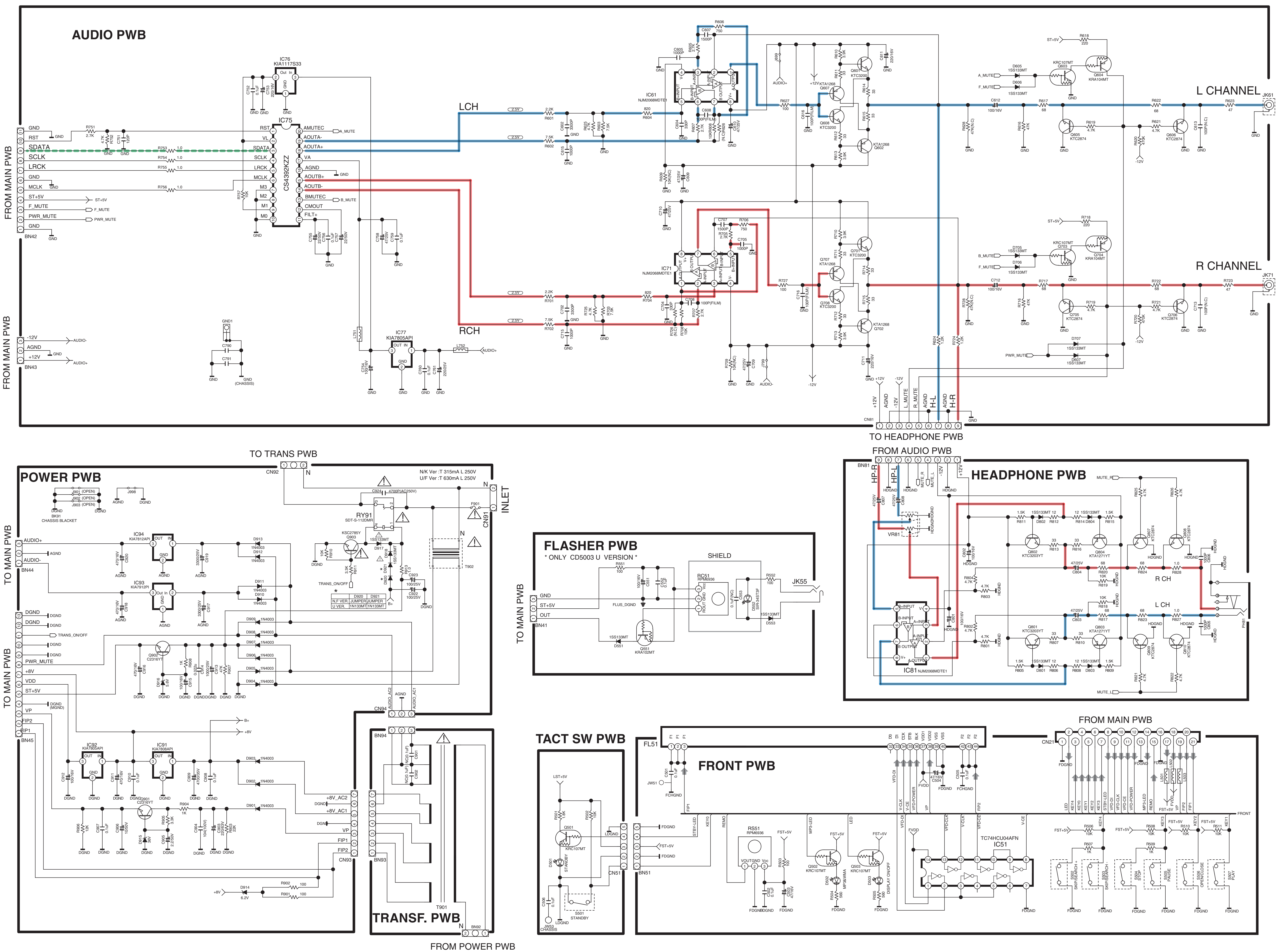
8. BLOCK DIAGRAM



9. SCHEMATIC DIAGRAM

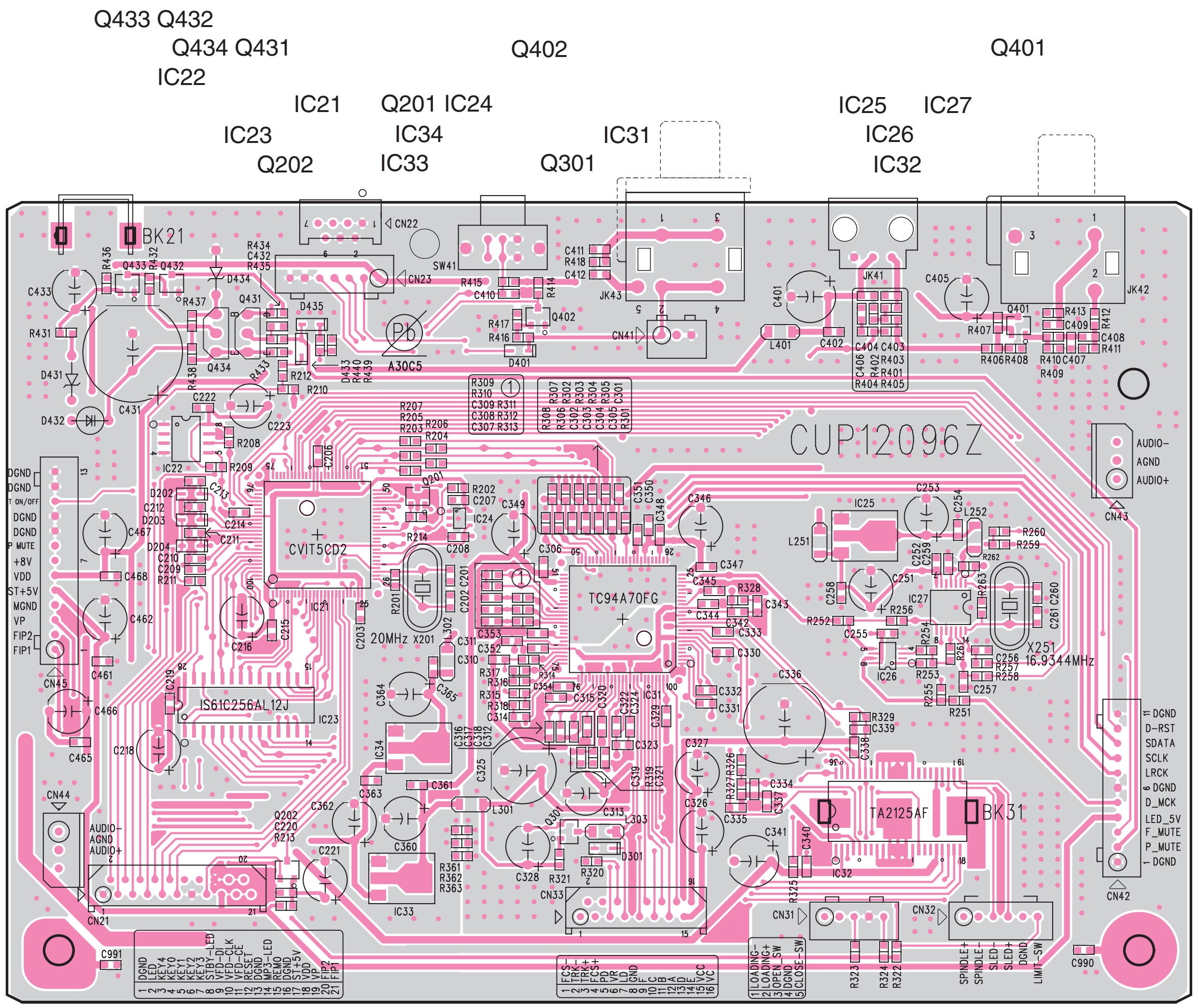
MAIN PWB



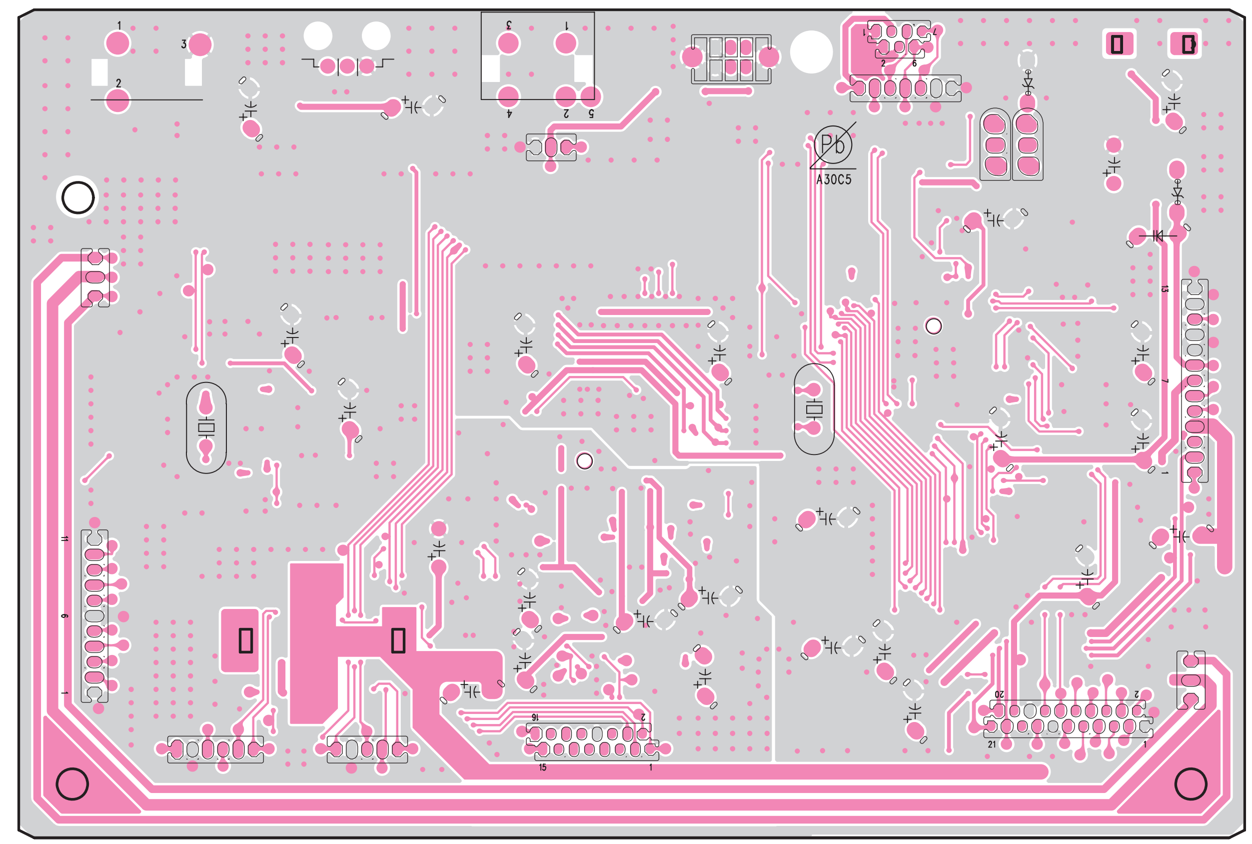

AUDIO PWB
FROM MAIN PWB
L CHANNEL
R CHANNEL
LCH
RCH
TO HEADPHONE PWB
FROM AUDIO PWB
HEADPHONE PWB
POWER PWB
TO TRANS PWB
TO MAIN PWB
INLET
FLASHER PWB
* ONLY CD5003 U VERSION *
SHIELD
TACT SW PWB
FRONT PWB
FROM MAIN PWB
TRANSF. PWB
FROM POWER PWB

10. PARTS LOCATION

MAIN A PWB



MAIN B PWB

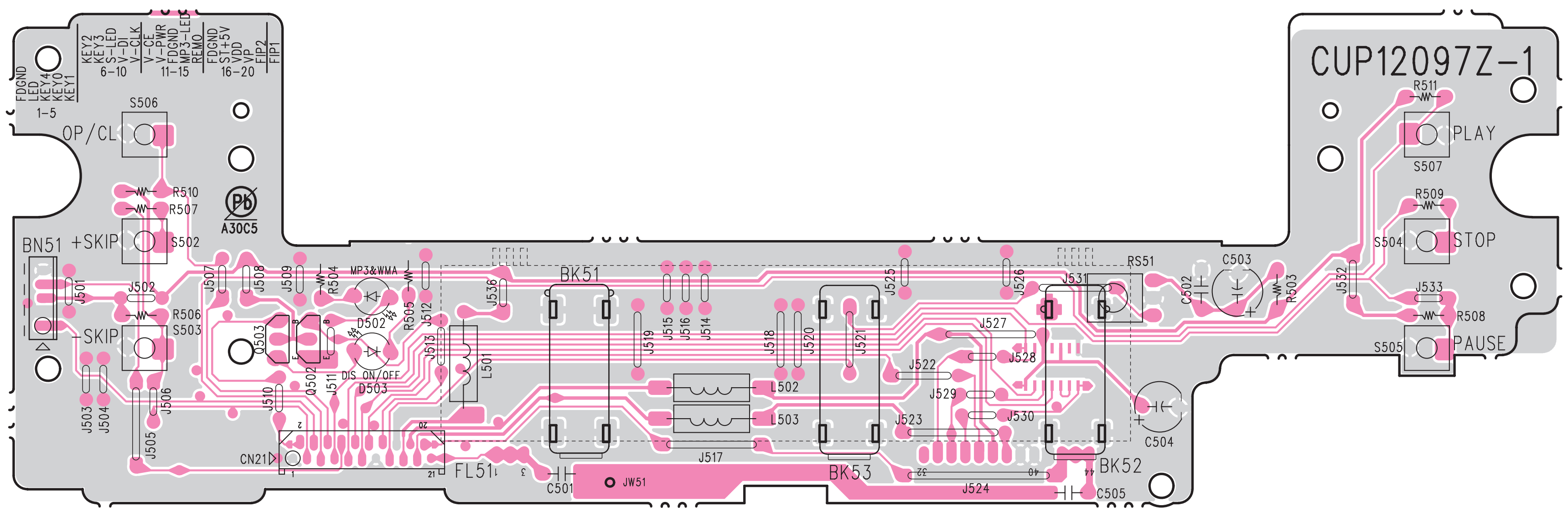


鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

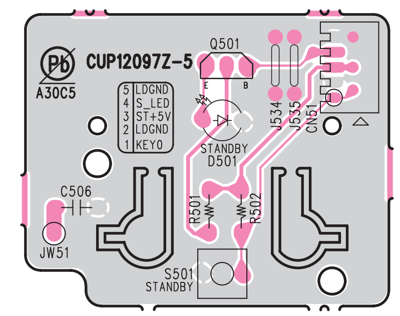
FRONT A PWB

Q503 Q502

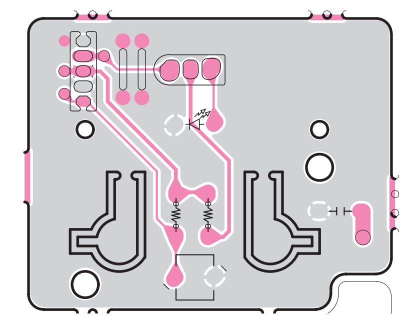


TACT SW A PWB

Q501

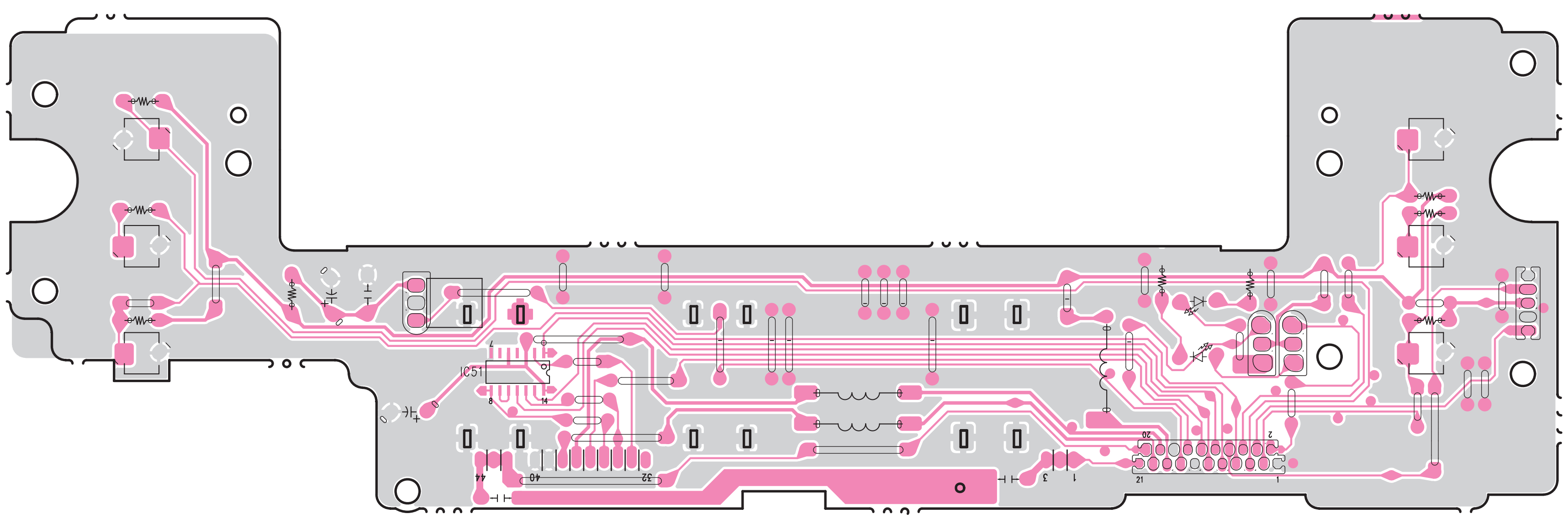


TACT SW B PWB



FRONT B PWB

IC51



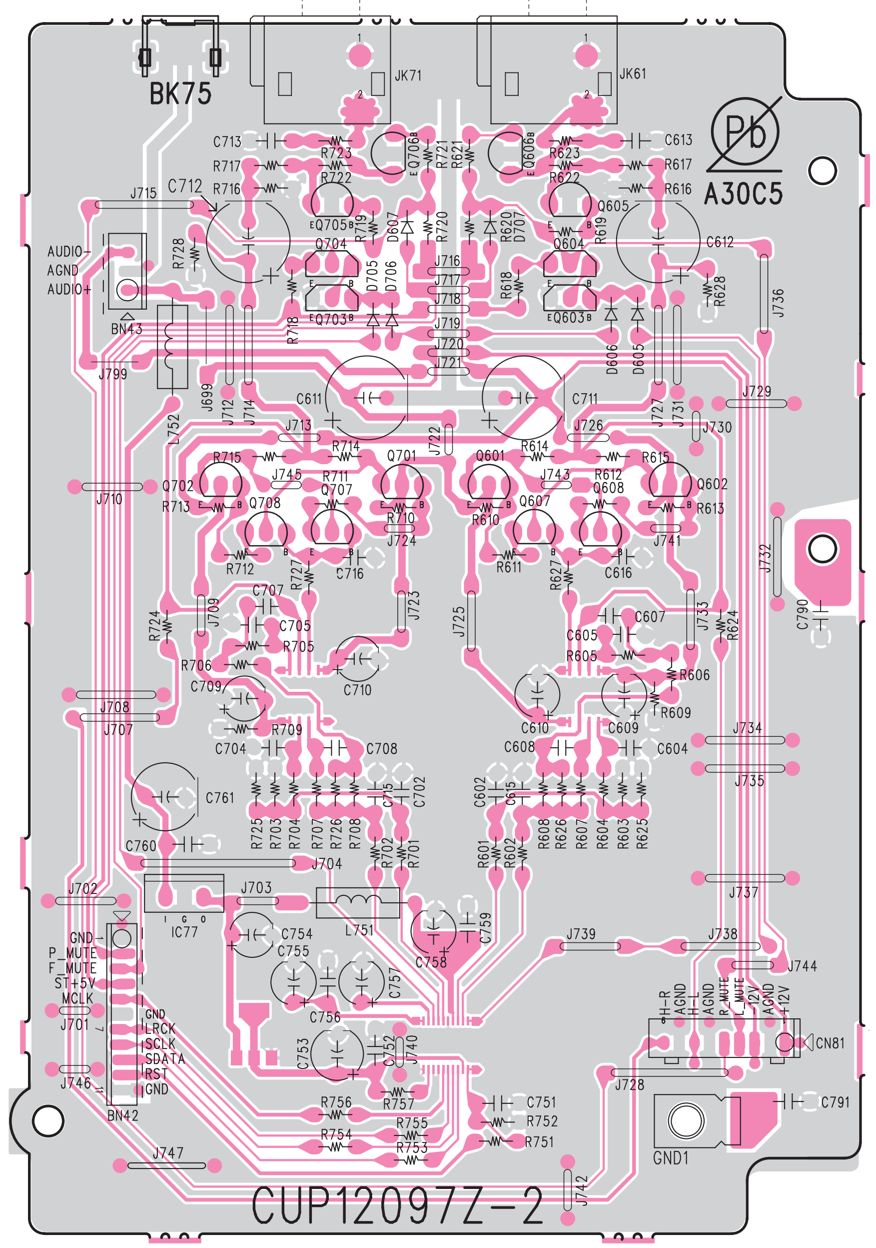
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

AUDIO A PWB

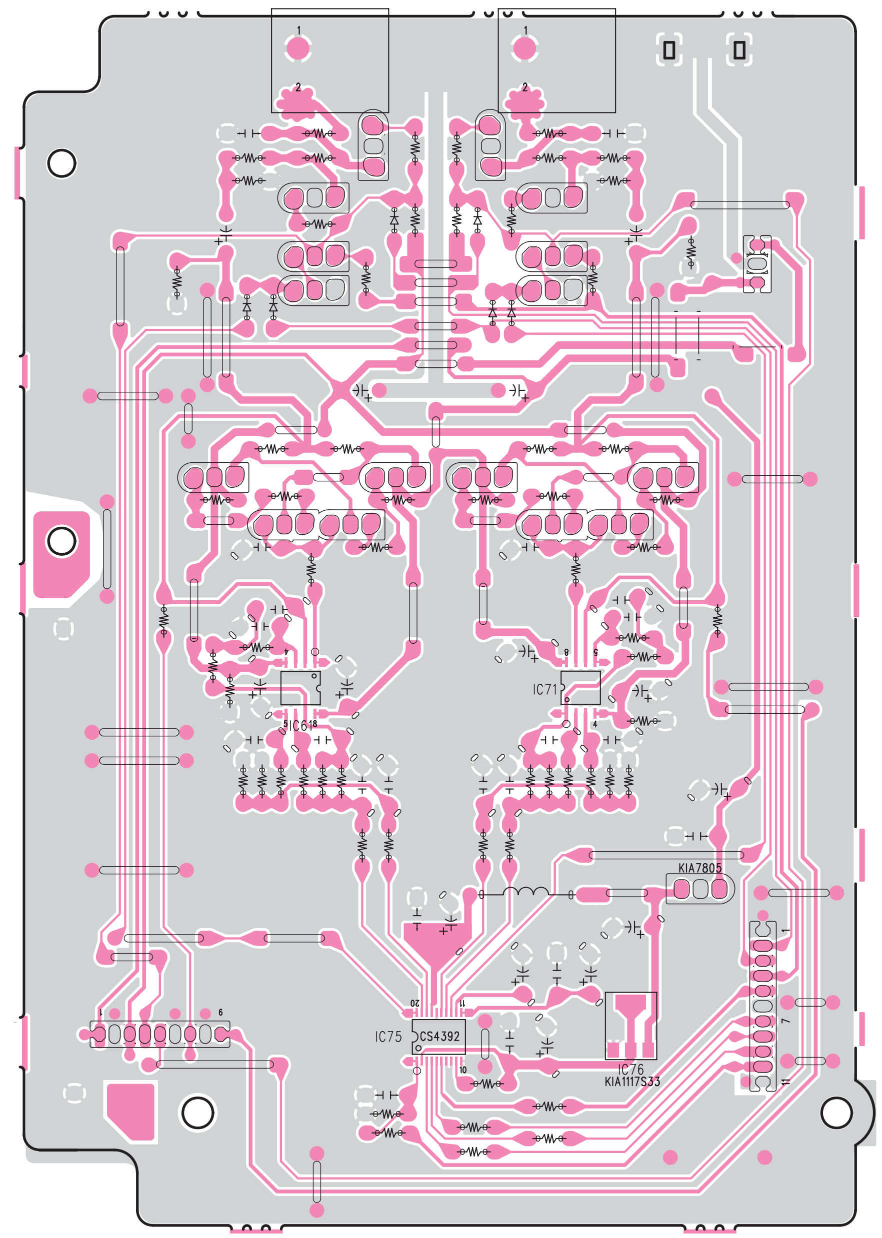
Q703 - Q706
Q702 Q708 Q707 Q701
IC77

Q603 - Q606
Q601 Q607 Q608 Q602



AUDIO B PWB

IC61
IC75
IC71
IC76



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。

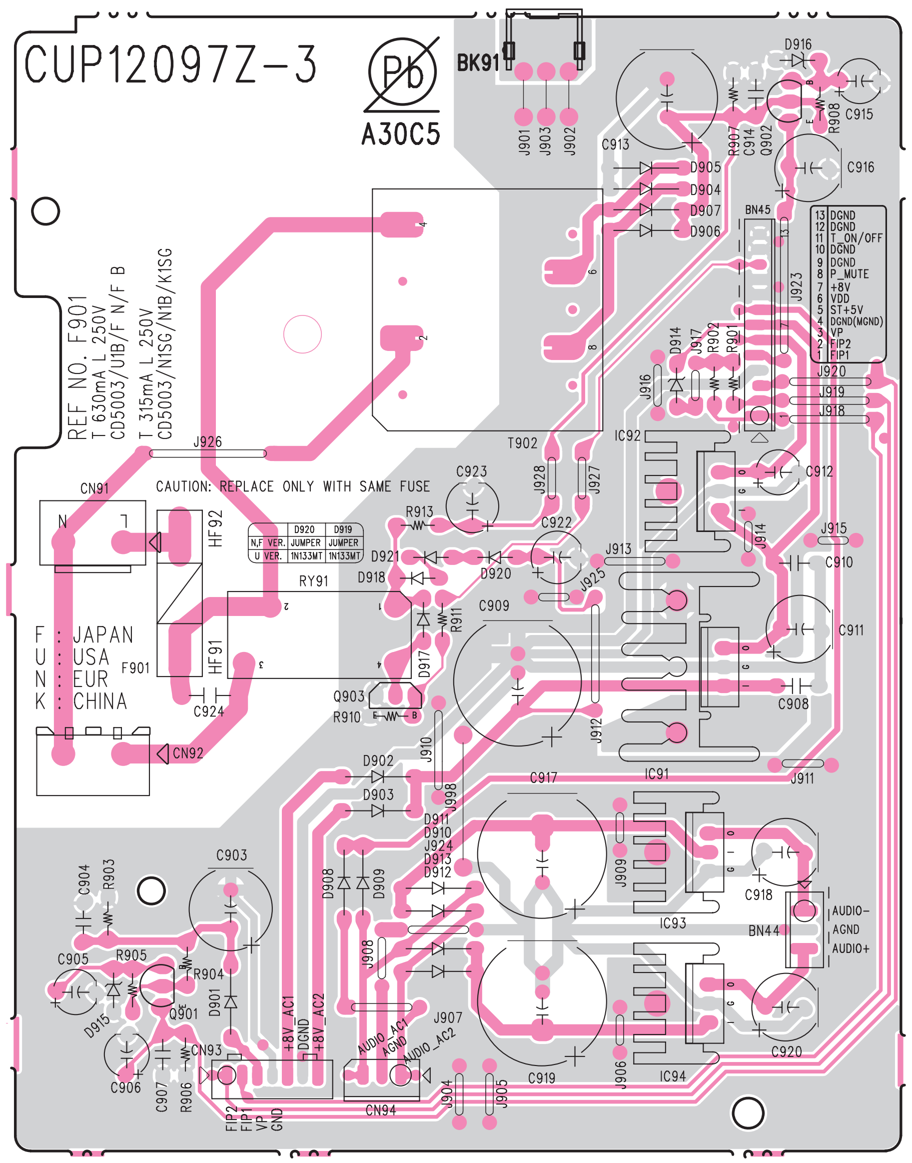
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

POWER A PWB

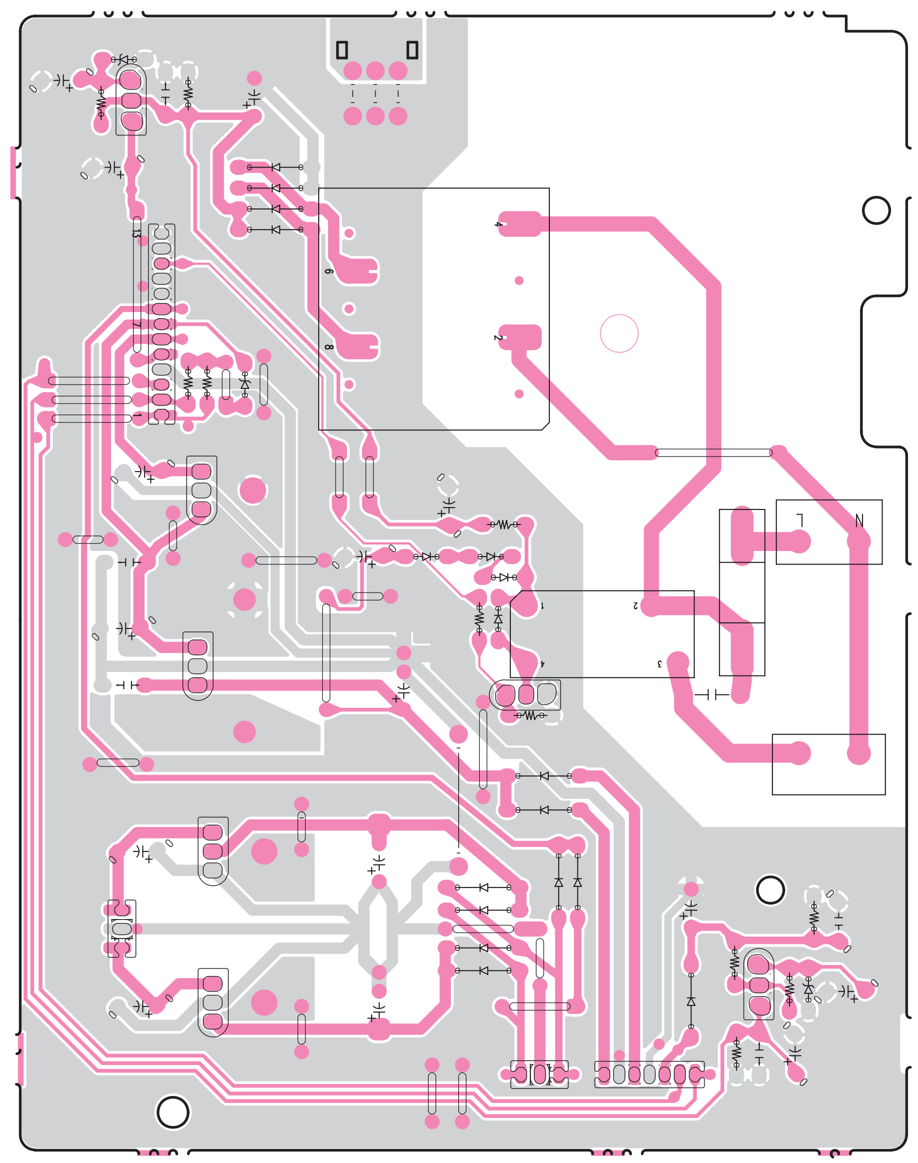
Q902

Q903 IC91- IC93

Q901 IC94



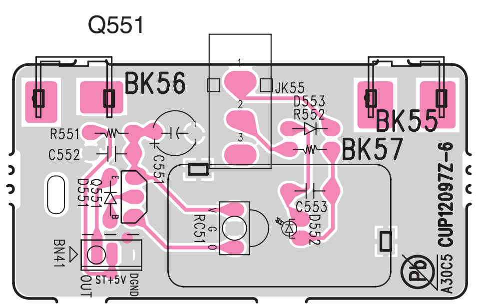
POWER B PWB



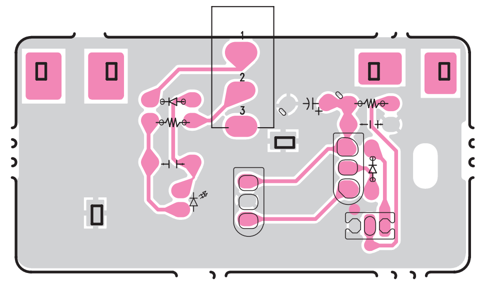
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

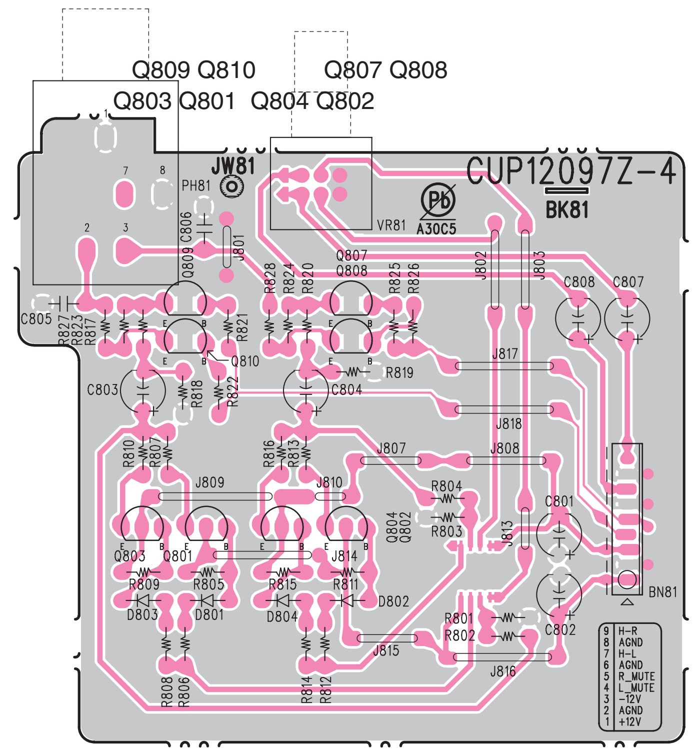
FLASHER A PWB



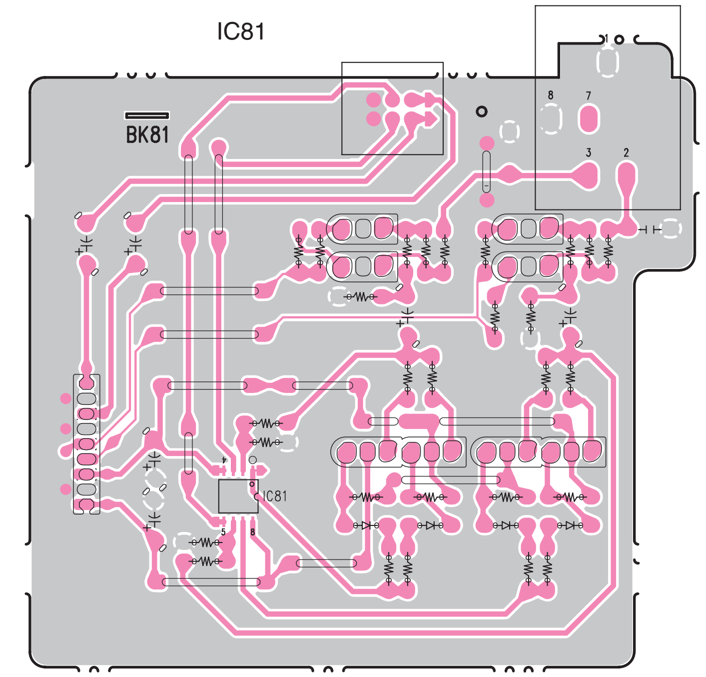
FLASHER B PWB



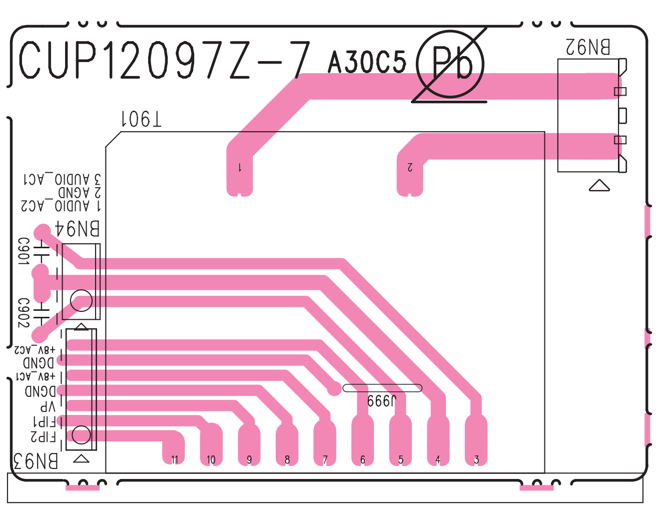
HEADPHONE A PWB



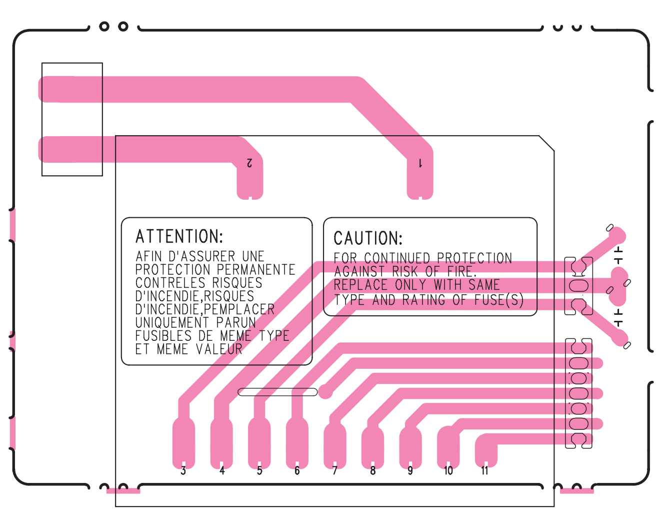
HEADPHONE B PWB



TRANSF A PWB



TRANSF B PWB



鉛フリー半田

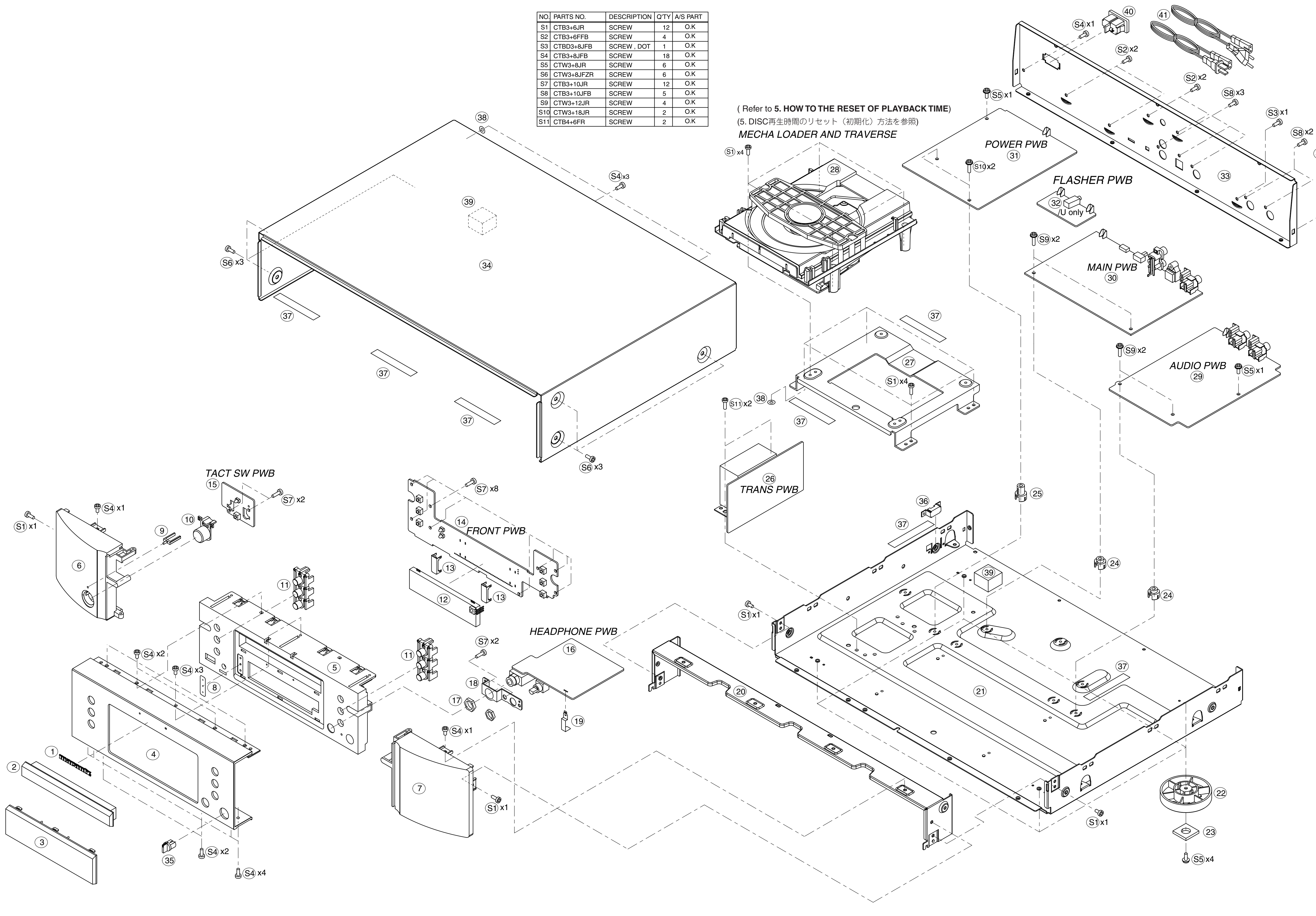
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder

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

11. EXPLODED VIEW AND PARTS LIST

NO.	PARTS NO.	DESCRIPTION	Q'TY	A/S PART
S1	CTB3+6JR	SCREW	12	O.K
S2	CTB3+6FFB	SCREW	4	O.K
S3	CTBD3+8JFB	SCREW , DOT	1	O.K
S4	CTB3+8JFB	SCREW	18	O.K
S5	CTW3+8JR	SCREW	6	O.K
S6	CTW3+8JFZR	SCREW	6	O.K
S7	CTB3+10JR	SCREW	12	O.K
S8	CTB3+10JFB	SCREW	5	O.K
S9	CTW3+12JR	SCREW	4	O.K
S10	CTW3+18JR	SCREW	2	O.K
S11	CTB4+6FR	SCREW	2	O.K



P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
	1		421410006004M	421410006004M	BADGE	MARANTZ BADGE (AL) M1 MODEL	CGB1A206
	2	F B	nsp	943418002170M	ESCUTCHEON	ORNAMENT DOOR BL	CGR1A455ZB37
	2	F N	nsp	943418002180M	ESCUTCHEON	ORNAMENT DOOR SG	CGR1A455RMYD10
	2	/K1SG	nsp	943418002180M	ESCUTCHEON	ORNAMENT DOOR SG	CGR1A455RMYD10
	2	/N1B	943418002170M	943418002170M	ESCUTCHEON	ORNAMENT DOOR BL	CGR1A455ZB37
	2	/N1SG	943418002180M	943418002180M	ESCUTCHEON	ORNAMENT DOOR SG	CGR1A455RMYD10
	2	/U1B	nsp	943418002170M	ESCUTCHEON	ORNAMENT DOOR BL	CGR1A455ZB37
	3		943416002190M	943416002190M	WINDOW	WINDOW FIP	CGU1A423A12Z
	4	F B	nsp	943402002110M	PANEL	FRONT PANEL AL CD5003 BL	CKM1A203ZC23
	4	F N	nsp	943402002120M	PANEL	FRONT PANEL AL CD5003 SG	CKM1A203YC62
	4	/K1SG	nsp	943402002120M	PANEL	FRONT PANEL AL CD5003 SG	CKM1A203YC62
	4	/N1B	943402002110M	943402002110M	PANEL	FRONT PANEL AL CD5003 BL	CKM1A203ZC23
	4	/N1SG	943402002120M	943402002120M	PANEL	FRONT PANEL AL CD5003 SG	CKM1A203YC62
	4	/U1B	nsp	943402002110M	PANEL	FRONT PANEL AL CD5003 BL	CKM1A203ZC23
	5	F B	nsp	443510004007M	CHASSIS	CHASSIS CENTER MOLD BL	CGW1A462B37
	5	F N	nsp	443510004038M	CHASSIS	CHASSIS CENTER MOLD SG	CGW1A462RMD10
	5	/K1SG	nsp	443510004038M	CHASSIS	CHASSIS CENTER MOLD SG	CGW1A462RMD10
	5	/N1B	443510004007M	443510004007M	CHASSIS	CHASSIS CENTER MOLD BL	CGW1A462B37
	5	/N1SG	443510004038M	443510004038M	CHASSIS	CHASSIS CENTER MOLD SG	CGW1A462RMD10
	5	/U1B	nsp	443510004007M	CHASSIS	CHASSIS CENTER MOLD BL	CGW1A462B37
	6	F B	nsp	943402002130M	PANEL	L SIDE FRONT PANEL CD5003 BL	CGW1A463RKZB37
	6	F N	nsp	943402002140M	PANEL	L SIDE FRONT PANEL CD5003 SG	CGW1A463RLYD10
	6	/K1SG	nsp	943402002140M	PANEL	L SIDE FRONT PANEL CD5003 SG	CGW1A463RLYD10
	6	/N1B	943402002130M	943402002130M	PANEL	L SIDE FRONT PANEL CD5003 BL	CGW1A463RKZB37
	6	/N1SG	943402002140M	943402002140M	PANEL	L SIDE FRONT PANEL CD5003 SG	CGW1A463RLYD10
	6	/U1B	nsp	943402002130M	PANEL	L SIDE FRONT PANEL CD5003 BL	CGW1A463RKZB37
	7	F B	nsp	402510021001M	PANEL	ESCUTCHEON R BL	CGW1A464RKB37
	7	F N	nsp	402510021032M	PANEL	ESCUTCHEON R SG	CGW1A464RLD10
	7	/K1SG	nsp	402510021032M	PANEL	ESCUTCHEON R SG	CGW1A464RLD10
	7	/N1B	402510021001M	402510021001M	PANEL	ESCUTCHEON R BL	CGW1A464RKB37
	7	/N1SG	402510021032M	402510021032M	PANEL	ESCUTCHEON R SG	CGW1A464RLD10
	7	/U1B	nsp	402510021001M	PANEL	ESCUTCHEON R BL	CGW1A464RKB37
	8		nsp	nsp	SHEET	SHEET LED	CGX1A411Z
	9		481510003006M	481510003006M	LENS	LENS POWER INDICATOR	CGL1A274
	10	F B	nsp	411510015017M	BUTTON	BUTTON POWER TACT BL	CBT1A1072
	10	F N	nsp	411510021036M	BUTTON	BUTTON POWER SWITCH SG	CBT1A1072RMD10
	10	/K1SG	nsp	411510021036M	BUTTON	BUTTON POWER SWITCH SG	CBT1A1072RMD10
	10	/N1B	411510015017M	411510015017M	BUTTON	BUTTON POWER TACT BL	CBT1A1072
	10	/N1SG	411510021036M	411510021036M	BUTTON	BUTTON POWER SWITCH SG	CBT1A1072RMD10
	10	/U1B	nsp	411510015017M	BUTTON	BUTTON POWER TACT BL	CBT1A1072
	11	F B	nsp	411510019002M	BUTTON	BUTTON 3 KEY BL	CBT1A1084
	11	F N	nsp	411510019033M	BUTTON	BUTTON 3 KEY SG	CBT1A1084RMD10
	11	/K1SG	nsp	411510019033M	BUTTON	BUTTON 3 KEY SG	CBT1A1084RMD10
	11	/N1B	411510019002M	411510019002M	BUTTON	BUTTON 3 KEY BL	CBT1A1084
	11	/N1SG	411510019033M	411510019033M	BUTTON	BUTTON 3 KEY SG	CBT1A1084RMD10
	11	/U1B	nsp	411510019002M	BUTTON	BUTTON 3 KEY BL	CBT1A1084
	14	F B	nsp	nsp	PWB ASSY	FRONT PWB ASSY	COP12097C
	14	F N	nsp	nsp	PWB ASSY	FRONT PWB ASSY	COP12097C
	14	/K1SG	nsp	nsp	PWB ASSY	FRONT PWB ASSY	COP12097B
	14	/N1B	nsp	nsp	PWB ASSY	FRONT PWB ASSY	COP12097B
	14	/N1SG	nsp	nsp	PWB ASSY	FRONT PWB ASSY	COP12097B
	14	/U1B	nsp	nsp	PWB ASSY	FRONT PWB ASSY	COP12097D
	15	F B	nsp	nsp	PWB ASSY	TACT SW PWB ASSY	COP12097C
	15	F N	nsp	nsp	PWB ASSY	TACT SW PWB ASSY	COP12097C
	15	/K1SG	nsp	nsp	PWB ASSY	TACT SW PWB ASSY	COP12097B
	15	/N1B	nsp	nsp	PWB ASSY	TACT SW PWB ASSY	COP12097B
	15	/N1SG	nsp	nsp	PWB ASSY	TACT SW PWB ASSY	COP12097B
	15	/U1B	nsp	nsp	PWB ASSY	TACT SW PWB ASSY	COP12097D
	16	F B	nsp	nsp	PWB ASSY	HEADPHONE PWB ASSY	COP12097C
	16	F N	nsp	nsp	PWB ASSY	HEADPHONE PWB ASSY	COP12097C
	16	/K1SG	nsp	nsp	PWB ASSY	HEADPHONE PWB ASSY	COP12097B
	16	/N1B	nsp	nsp	PWB ASSY	HEADPHONE PWB ASSY	COP12097B
	16	/N1SG	nsp	nsp	PWB ASSY	HEADPHONE PWB ASSY	COP12097B
	16	/U1B	nsp	nsp	PWB ASSY	HEADPHONE PWB ASSY	COP12097D
	17		nsp	nsp	NUT	NUT PHONE	CNE1A013
	18		nsp	nsp	BRACKET	BRACKET HEADPHONE	CMD1A677
	20		nsp	nsp	STAY	FRAME FRONT	CUF1A004

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	
	21		nsp	nsp	CHASSIS	BOTTOM CHASSIS CD5003	CUA1A289
	22		00M243W057210	00M243W057210	LEG	LEG FOR SILVER	CKL2A042H46
	23		00M32CW107010	00M32CW107010	SHEET	CUSHION FOOT	CHG1A360
	24		nsp	nsp	HOLDER	HOLDER PWB	CHE170
	25		nsp	nsp	HOLDER	HOLDER PWB	CHE1A030
	26	F B	nsp	nsp	PWB ASSY	TRANSF. PWB ASSY	COP12097C
	26	F N	nsp	nsp	PWB ASSY	TRANSF. PWB ASSY	COP12097C
	26	/K1SG	nsp	nsp	PWB ASSY	TRANSF. PWB ASSY	COP12097B
	26	/N1B	nsp	nsp	PWB ASSY	TRANSF. PWB ASSY	COP12097B
	26	/N1SG	nsp	nsp	PWB ASSY	TRANSF. PWB ASSY	COP12097B
	26	/U1B	nsp	nsp	PWB ASSY	TRANSF. PWB ASSY	COP12097D
	27		nsp	nsp	BRACKET	SUPPORT MECHANISM	CMD1A676
	28		943302002290M	943302002290M	MECHANISM	MECHA LOADER AND TRAVERSE	CJDWSL11VF
	29	F B	nsp	nsp	PWB ASSY	AUDIO PWB ASSY	COP12097C
	29	F N	nsp	nsp	PWB ASSY	AUDIO PWB ASSY	COP12097C
	29	/K1SG	nsp	nsp	PWB ASSY	AUDIO PWB ASSY	COP12097B
	29	/N1B	nsp	nsp	PWB ASSY	AUDIO PWB ASSY	COP12097B
	29	/N1SG	nsp	nsp	PWB ASSY	AUDIO PWB ASSY	COP12097B
	29	/U1B	nsp	nsp	PWB ASSY	AUDIO PWB ASSY	COP12097D
	30	F B	nsp	nsp	PWB ASSY	MAIN PWB ASSY	COP12096B
	30	F N	nsp	nsp	PWB ASSY	MAIN PWB ASSY	COP12096B
	30	/K1SG	nsp	nsp	PWB ASSY	MAIN PWB ASSY	COP12096B
	30	/N1B	nsp	nsp	PWB ASSY	MAIN PWB ASSY	COP12096B
	30	/N1SG	nsp	nsp	PWB ASSY	MAIN PWB ASSY	COP12096B
	30	/U1B	nsp	nsp	PWB ASSY	MAIN PWB ASSY	COP12096C
	31	F B	nsp	nsp	PWB ASSY	POWER PWB ASSY	COP12097C
	31	F N	nsp	nsp	PWB ASSY	POWER PWB ASSY	COP12097C
	31	/K1SG	nsp	nsp	PWB ASSY	POWER PWB ASSY	COP12097B
	31	/N1B	nsp	nsp	PWB ASSY	POWER PWB ASSY	COP12097B
	31	/N1SG	nsp	nsp	PWB ASSY	POWER PWB ASSY	COP12097B
	31	/U1B	nsp	nsp	PWB ASSY	POWER PWB ASSY	COP12097D
	32	/U1B	nsp	nsp	PWB ASSY	FLASHER IN PWB ASSY	COP12097D
	33	F B	nsp	nsp	PANEL	REAR PANEL F	CKF2A390X
	33	F N	nsp	nsp	PANEL	REAR PANEL F	CKF2A390X
	33	/K1SG	nsp	nsp	PANEL	REAR PANEL K	CKF2A390W
	33	/N1B	nsp	nsp	PANEL	REAR PANEL N	CKF2A390Y
	33	/N1SG	nsp	nsp	PANEL	REAR PANEL N	CKF2A390Y
	33	/U1B	nsp	nsp	PANEL	REAR PANEL U	CKF1A390Z
	35	F B	nsp	00M24AW154020	KNOB	KNOB LEVEL BL	CBN1A170
	35	F N	nsp	00M24AW154120	KNOB	KNOB LEVEL SG	CBN1A170RMD10
	35	/K1SG	nsp	00M24AW154120	KNOB	KNOB LEVEL SG	CBN1A170RMD10
	35	/N1B	00M24AW154020	00M24AW154020	KNOB	KNOB LEVEL BL	CBN1A170
	35	/N1SG	00M24AW154120	00M24AW154120	KNOB	KNOB LEVEL SG	CBN1A170RMD10
	35	/U1B	nsp	00M24AW154020	KNOB	KNOB LEVEL BL	CBN1A170
	36		nsp	nsp	COVER	COVER SCREW	CMD1A495
	37		nsp	nsp	TAPE	TAPE HEMELON	CHS1A032
	38		nsp	nsp	WASHER	WASHER GROUND COPPER	CNW1A035
	39		nsp	nsp	BUFFER	CUSHION RUBBER	CHG1A157
	39		nsp	nsp	BUFFER	CUSHION RUBBER	CHG1A157
	⚠ 40	F B	nsp	90M-YJ002730R	TERMINAL	! RF-180-BB 2.5A 250V AC	HJJ8A003Z
	⚠ 40	F N	nsp	90M-YJ002730R	TERMINAL	! RF-180-BB 2.5A 250V AC	HJJ8A003Z
	⚠ 40	/K1SG	nsp	90M-YJ002730R	TERMINAL	! RF-180-BB 2.5A 250V AC	HJJ8A003Z
	⚠ 40	/N1B	90M-YJ002730R	90M-YJ002730R	TERMINAL	! RF-180-BB 2.5A 250V AC	HJJ8A003Z
	⚠ 40	/N1SG	90M-YJ002730R	90M-YJ002730R	TERMINAL	! RF-180-BB 2.5A 250V AC	HJJ8A003Z
	⚠ 40	/U1B	nsp	943641002350S	INLET	! RF-180-K-V0 2.5A 250V	CJJ8A004X
			90M-FC500030R	90M-FC500030R	FERRITE CORE	FERRITE RING 29X7.7X19	CLZ9W003Z
			90M-FC500130R	90M-FC500130R	FERRITE CORE	FERRITE CORE	CLZ9Z071Z
			nsp	943606002310S	FPC	FFC 21P 250MM 1MM	CWC4F4A21A250B
			nsp	943606002320S	FPC	FFC 16P 150MM CD MECHA	CWC4F2A16A150B
			nsp	nsp	CORD	WIRE ASSY	CWZCD6002BN95
			nsp	nsp	CORD	WIRE ASSY 5P 2500MM	CWB1B005250EG
			nsp	nsp	CORD	WIRE ASSY	CWB5A906220EG
			nsp	nsp	CORD	WIRE ASSY	CWZCD6002BN95ZA
PACKING							
		F B	nsp	541110125017M	USER GUIDE	USER GUIDE CD5003 F	CQX1A1360Z
		F N	nsp	541110125017M	USER GUIDE	USER GUIDE CD5003 F	CQX1A1360Z
		/K1SG	nsp	541110125055M	USER GUIDE	USER GUIDE CD5003 K	CQX1A1362Z

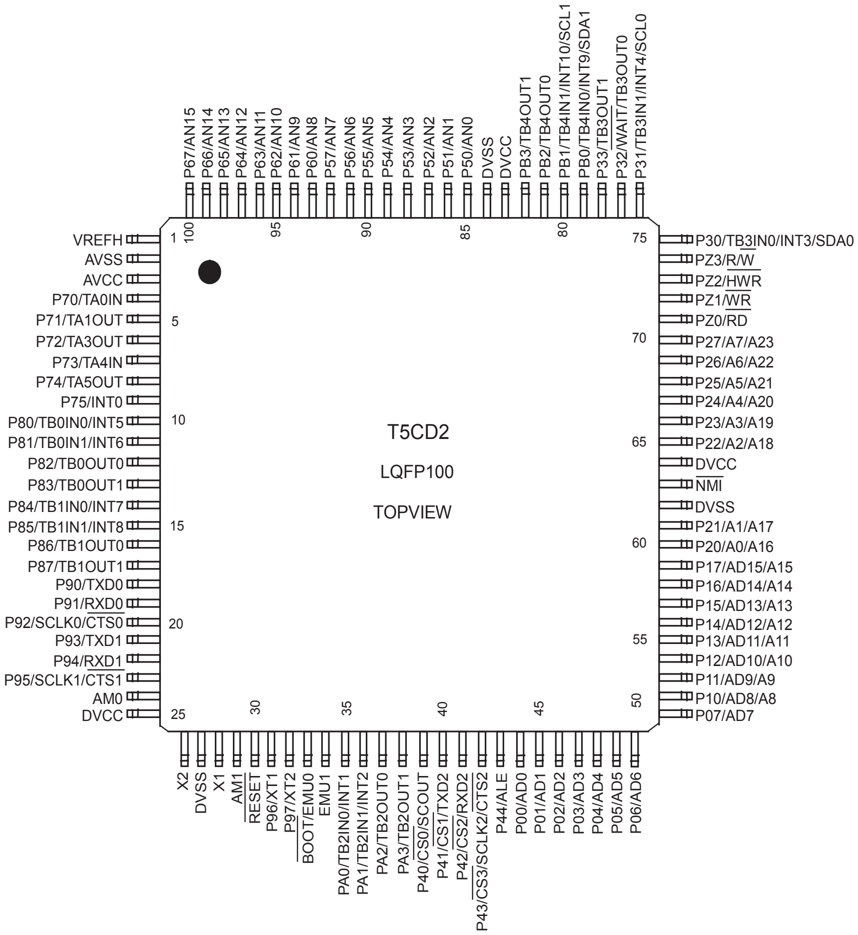
NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

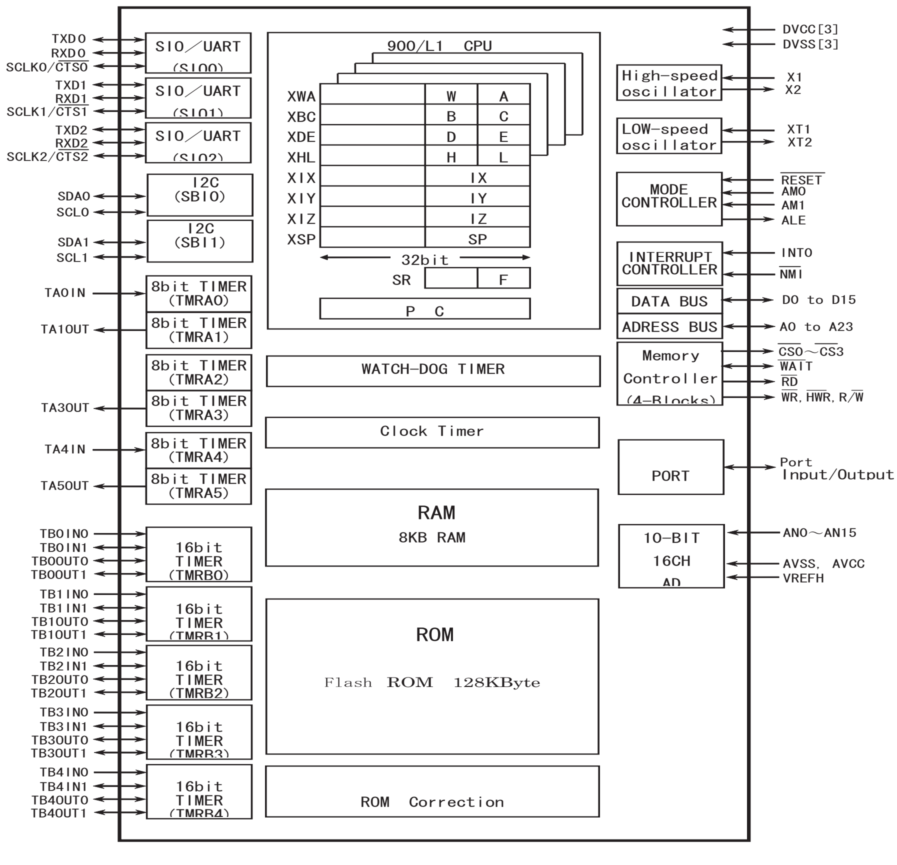
P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
		/N1B	541110125031M	541110125031M	USER GUIDE	USER GUIDE CD5003 N	CQX1A1359Z
		/N1SG	541110125031M	541110125031M	USER GUIDE	USER GUIDE CD5003 N	CQX1A1359Z
		/U1B	nsp	541110125024M	USER GUIDE	USER GUIDE CD5003 U	CQX1A1361Z
			307010035001M	307010035001M	UNIT KIT	REMOTE CONTROLLER RC002CD	CARTCD5003M
	⚠ 41	F B	nsp	943611000280S	MAINS CORD	! MAINS CORD JP M733F+SZC7S	CJA2J091Z
	⚠ 41	F N	nsp	943611000280S	MAINS CORD	! MAINS CORD JP M733F+SZC7S	CJA2J091Z
	⚠ 41	/K1SG	nsp	943611002330S	MAINS CORD	! MAINS CORD CHN 2.5A / 250V	CJA2N078Z
	⚠ 41	/U1B	nsp	943611002340S	MAINS CORD	! MAINS CORD UL	CJA2A085Z
	⚠ 41	/N1B	90M-ZC000410R	90M-ZC000410R	MAINS CORD	! MAINS CORD EU	CJA2B020Z
	⚠ 41	/N1SG	90M-ZC000410R	90M-ZC000410R	MAINS CORD	! MAINS CORD EU	CJA2B020Z
NOT STANDARD SPARE PART							
			nsp	00M06DW801010	PACKING CASE	PACKING CASE CD5003	CPG1A870Z
			nsp	943533002300M	CUSHION	CUSHION CD5003	CPS1A821
	34	F B	nsp	401310003002M	LID	TOP COVER BL	CKC2A187K117
	34	F N	nsp	401310003033M	LID	TOP COVER SG	CKC2A187D11
	34	/K1SG	nsp	401310003033M	LID	TOP COVER SG	CKC2A187D11
	34	/N1B	nsp	401310003002M	LID	TOP COVER BL	CKC2A187K117
	34	/N1SG	nsp	401310003033M	LID	TOP COVER SG	CKC2A187D11
	34	/U1B	nsp	401310003002M	LID	TOP COVER BL	CKC2A187K117
			nsp	90M-ZD000440R	CONN. CORD	CORD PIN	CJS4M009X
			nsp	90M-ZD000510R	CONN. CORD	CORD PIN	CJS4N014Z

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

12. MICROPROCESSOR AND IC DATA

IC21 : T5CD2





IC21 : T5CD2

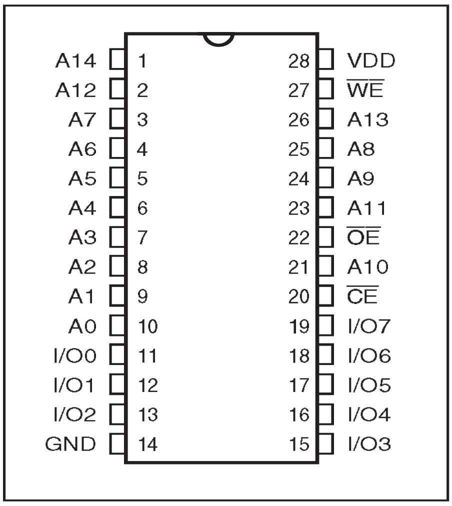
Pin No.	Port Name	I/O	Use	Power off	Name	Port Setting Act.	init	Note
1	VREFH				VREFH			ADC power, connect with +5V
2	AVSS				GND			GND
3	AVCC				AVCC			MCU power, connect with +5V
4	P70/TA0IN	I/O	O	L	/SRAM_WE	L	I	sram write enable
5	P71/TA1OUT	I/O	O	L	/SRAM_OE	L	I	sram output enable
6	P72/TA3OUT	I/O	O	L	/SRAM_CE	L	I	sram chip enable
7	P73/TA4IN	I/O			NC			open
8	P74/TA5OUT	I/O			NC			open
9	P75/INT0	I/O	I	-	RS/REMOTE	-	I	remote in
10	P80/TB0IN0/INT5	I/O	I/O	L	SRAM_DATA00	-	I	sram_data_00
11	P81/TB0IN1/INT6	I/O	I/O	L	SRAM_DATA01	-	I	sram_data_01
12	P82/TB0OUT0	I/O	I/O	L	SRAM_DATA02	-	I	sram_data_02
13	P83/TB0OUT1	I/O	I/O	L	SRAM_DATA03	-	I	sram_data_03
14	P84/TB1IN0/INT7	I/O	I/O	L	SRAM_DATA04	-	I	sram_data_04
15	P85/TB1IN1/INT8	I/O	I/O	L	SRAM_DATA05	-	I	sram_data_05
16	P86/TB1OUT0	I/O	I/O	L	SRAM_DATA06	-	I	sram_data_06
17	P87/TB1OUT1	I/O	I/O	L	SRAM_DATA07	-	I	sram_data_07
18	P90/TXD0	I/O	O	L	VFD_DATA	-		vfd data
19	P91/RXD0	I/O	O	L	VFD_CS	L		vfd chip select
20	P92/SCLK0/CTS0	I/O	O	L	VFD_CLK	L	I	vfd clock
21	P93/TXD1	I/O	O	L	UPDATE_TXD	-	I	used when connect with update tool
22	P94/RXD1	I/O	I	I	UPDATE_RXD	-	I	used when connect with update tool
23	P95/SCLK1/CTS1	I/O			NC	-	I	open
24	AM0				AM0			chip operate select, connect with +5V
25	DVCC				DVCC			MCU power, connect with +5V
26	X2				X2			oscillator(20MHz)
27	DVSS				DVSS			GND
28	X1				X1			oscillator(20MHz)
29	AM1				AM1			chip operate select, connect with +5V
30	/RESET				/RESET			MCU reset
31	P96/XT1	I/O			NC			open
32	P97/XT2	I/O			NC			open
33	/BOOT/EMU0				BOOT			update mode select
34	EMU1	I/O			NC			open
35	PA0/TB2IN0/INT1	I/O	I	-	RS/REMOTE	-	I	remote in
36	PA1/TB2IN1/INT2	I/O			NC			open
37	PA2/TB2OUT0	I/O	O	H	BUSOUT	-	I	bus out
38	PA3/TB2OUT1	I/O	I	-	SYSTEM_DETECT	-	I	system detect
39	P40/CS0/SCOUT	I/O	O	-	RS_ON/OFF	-	I	remote signal kill control
40	P41/CS1/TXD2	I/O	O	L	CTRL	H	I	Unit power control
41	P42/CS2/RXD2	I/O	O	H	LED	L		stanby LED control
42	P43/CS3/SCLK2/CTS2	I/O			NC			open
43	P44/ALE	I/O			NC			open
44	P00/AD0	I/O	O	L	SRAM_ADD00	-	I	sram_address_00
45	P01/AD1	I/O	O	L	SRAM_ADD01	-	I	sram_address_01
46	P02/AD2	I/O	O	L	SRAM_ADD02	-	I	sram_address_02
47	P03/AD3	I/O	O	L	SRAM_ADD03	-	I	sram_address_03
48	P04/AD4	I/O	O	L	SRAM_ADD04	-	I	sram_address_04
49	P05/AD5	I/O	O	L	SRAM_ADD05	-	I	sram_address_05
50	P06/AD6	I/O	O	L	SRAM_ADD06	-	I	sram_address_06

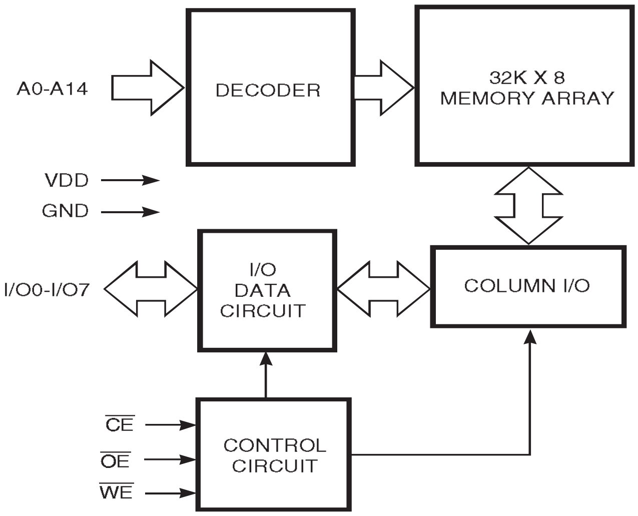
IC21 : T5CD2

Pin No.	Port Name	I/O	Use	Power off	Name	Port Setting Act.	Port Setting init	Note
51	P07/AD7	I/O	O	L	SRAM_ADD07	-	I	sram_address_07
52	P10/AD8/A8	I/O	I	I	CD_BUS2	-	I	receive data from CD DSP
53	P11/AD9/A9	I/O	O	L	CD_BUS3	-	I	send command to CD DSP
54	P12/AD10/A10	I/O	O	L	CD_BUCK	-	I	communication clock with CD DSP
55	P13/AD11/A11	I/O	O	L	CD_CCE	L	I	communication chip enable with CD DSP
56	P14/AD12/A12	I/O	O	L	DSP_RESET	L	I	CD DSP reset
57	P15/AD13/A13	I/O	O	L	MT_STBY	H	I	motor stanby
58	P16/AD14/A14	I/O	O	L	CD_CLOSE_M	H	I	cd close motor
59	P17/AD15/A15	I/O	O	L	CD_OPEN_M	H	I	cd open motor
60	P20/A0/A16	I/O			NC			open
61	P21/A1/A17	I/O	I	I	CD_OPEN_SW	-	I	cd open switch
62	DVSS				DVSS			GND
63	/NMI				/NMI			external interrupt, connect with +5V
64	DVCC				DVCC			MCU power, connect with +5V
65	P22/A2/A18	I/O	I	I	CD_CLOSE_SW	-	I	cd close switch
66	P23/A3/A19	I/O			NC			open
67	P24/A4/A20	I/O	I	I	CD_LIMIT_SW	-	I	cd inner switch
68	P25/A5/A21	I/O	O	L	VFD_POWER	H	I	vfd blink control
69	P26/A6/A22	I/O	O	H	F_MUTE	H	I	preout mute control
70	P27/A7/A23	I/O	O	L	DISPLAY_P	L	I	FIP display on/off control
71	PZ0/RD	I/O	O	L	DAC_RESET	L	H	DAC reset
72	PZ1/WR	I/O	O	L	NC			open
73	PZ2/HWR	I/O	O	L	DAC_CLK	-	I	DAC clock
74	PZ3/R/W	I/O	O	L	DAC_DATA	-	I	DAC data
75	P30/TB3IN0/INT3/SDA0	I/O	O	L	TRANS_ON/OFF	H	I	trans change control
76	P31/TB3IN1/INT4/SCL0	I/O	O	L	MP3_LED_P	H	I	MP3 LED control
77	P32/WAIT/TB3OUT0	I/O	O	L	WMA_LED_P	H	I	WMA LED control
78	P33/TB3OUT1	I/O			NC			open
79	PB0/TB4IN0/INT9/SDA1	I/O	O	L	PLL_SDA_	-	I	Pitch data Control
80	PB1/TB4IN1/INT10/ SCL1	I/O	O	L	PLL_SCL	-	I	Pitch clock Control
81	PB2/TB4OUT0	I/O	O	L	PLL_PLL	L	I	Pitch chip enable Control
82	PB3/TB4OUT1	I/O	O	L	PLL_EX_SEL	-	I	PLL Ex Select Pin
83	DVCC				DVCC			MCU power, connect with +5V
84	DVSS				DVSS			GND
85	P50/AN0	I/O	I	I	KEY0	-	I	key1 input
86	P51/AN1	I/O	I	I	KEY1	-	I	key2 input
87	P52/AN2	I/O	I	I	KEY2	-	I	key3 input
88	P53/AN3	I/O			NC			open
89	P54/AN4	I/O			NC			open
90	P55/AN5	I/O			NC			open
91	P56/AN6	I/O			NC			open
92	P57/AN7	I/O			NC			open
93	P60/AN8	I/O	O	L	SRAM_ADD08	-	I	sram_address_08
94	P61/AN9	I/O	O	L	SRAM_ADD09	-	I	sram_address_09
95	P62/AN10	I/O	O	L	SRAM_ADD10	-	I	sram_address_10
96	P63/AN11	I/O	O	L	SRAM_ADD11	-	I	sram_address_11
97	P64/AN12	I/O	O	L	SRAM_ADD12	-	I	sram_address_12
98	P65/AN13	I/O	O	L	SRAM_ADD13	-	I	sram_address_13
99	P66/AN14	I/O	O	L	SRAM_ADD14	-	I	sram_address_14
100	P67/AN15	I/O			NC			open

IC23 : IS61C256AL

PIN CONFIGURATION
28-Pin SOJ





PIN DESCRIPTIONS

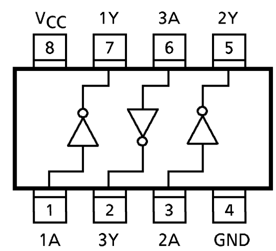
A0-A14	Address Inputs
$\overline{\text{CE}}$	Chip Enable Input
$\overline{\text{OE}}$	Output Enable Input
$\overline{\text{WE}}$	Write Enable Input
I/O0-I/O7	Bidirectional Ports
VDD	Power
GND	Ground

TRUTH TABLE

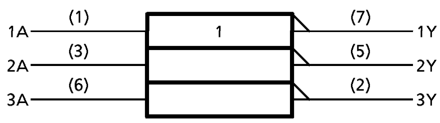
Mode	$\overline{\text{WE}}$	$\overline{\text{CE}}$	$\overline{\text{OE}}$	I/O Operation
Not Selected (Power-down)	X	H	X	High-Z
Output Disabled	H	L	H	High-Z
Read	H	L	L	DOUT
Write	L	L	X	DIN

IC26 : TC7WHU04FU

PIN ASSIGNMENT (TOP VIEW)



LOGIC DIAGRAM



TRUTH TABLE

A	Y
L	H
H	L

IC27 : CDCE913PWR

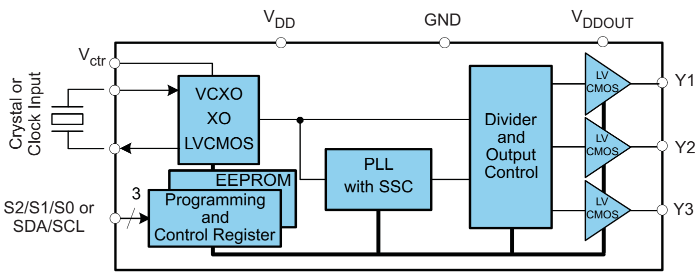
Programmable 1-PLL VCXO Clock Synthesizer With 1.8-V, 2.5-V, and 3.3-V Outputs

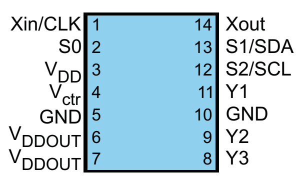
FEATURES

- **Member of Programmable Clock Generator Family**
  - ***CDCE913/CDCEL913: 1-PLL, 3 Outputs***
  - **CDCE925/CDCEL925: 2-PLL, 5 Outputs**
  - **CDCE937/CDCEL937: 3-PLL, 7 Outputs**
  - **CDCE949/CDCEL949: 4-PLL, 9 Outputs**
- **In-System Programmability and EEPROM**
  - **Serial Programmable Volatile Register**
  - **Nonvolatile EEPROM to Store Customer Setting**
- **Flexible Input Clocking Concept**
  - **External Crystal: 8 MHz to 32 MHz**
  - **On-Chip VCXO: Pull Range ±150 ppm**
  - **Single-Ended LVCMOS up to 160 MHz**
- **Free Selectable Output Frequency up to 230 MHz**
- **Low-Noise PLL Core**
  - **PLL Loop Filter Components Integrated**
  - **Low Period Jitter (Typical 50 ps)**
- **Separate Output Supply Pins**
  - **CDCE913: 3.3 V and 2.5 V**
  - **CDCEL913: 1.8 V**
- **Flexible Clock Driver**
  - **Three User-Definable Control Inputs [S0/S1/S2], for example., SSC Selection, Frequency Switching, Output Enable, or Power Down**
  - **Generates Highly Accurate Clocks for Video, Audio, USB, IEEE1394, RFID, Bluetooth™, WLAN, Ethernet™, and GPS**
  - **Generates Common Clock Frequencies Used With TI-DaVinci™, OMAP™, DSPs**
  - **Programmable SSC Modulation**
  - **Enables 0-PPM Clock Generation**
- **1.8-V Device Power Supply**
- **Wide Temperature Range –40° C to 85° C**
- **Packaged in TSSOP**
- **Development and Programming Kit for Easy PLL Design and Programming (TI Pro-Clock™)**

APPLICATIONS

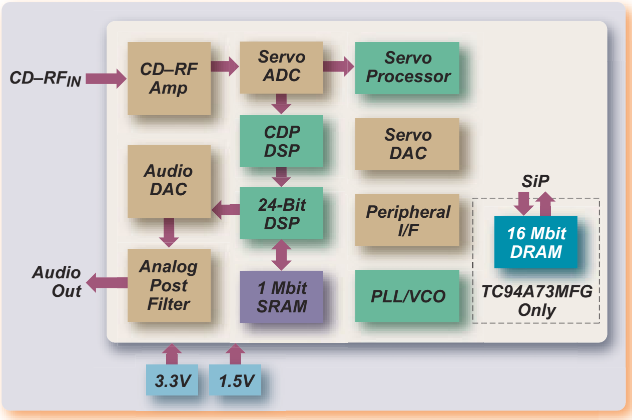
- **D-TV, STB, IP-STB, DVD-Player, DVD-Recorder, Printer**

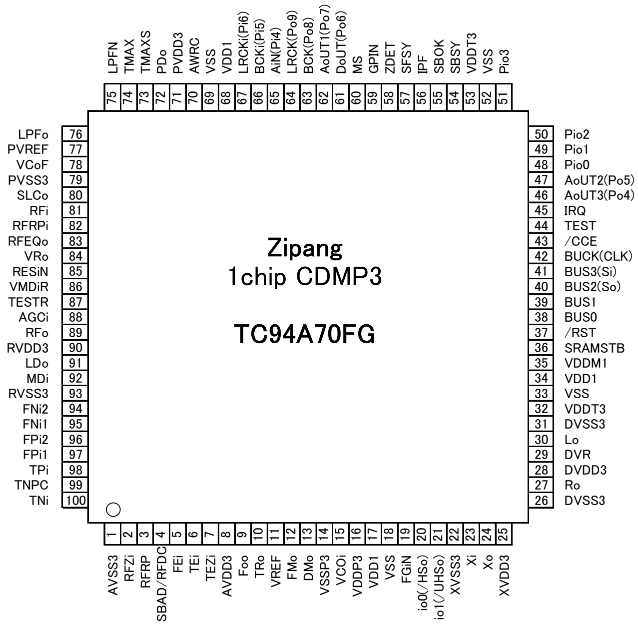




TERMINAL		I/O	DESCRIPTION
NAME	**PIN TSSOP14**		
Y1–Y3	11, 9, 8	O	LVCMOS outputs
Xin/CLK	1	I	Crystal oscillator input or LVCMOS clock Input (selectable via SDA/SCL bus)
Xout	14	O	Crystal oscillator output (leave open or pullup when not used)
V_{Ctrl}	4	I	VCXO control voltage (leave open or pullup when not used)
V_{DD}	3	Power	1.8-V power supply for the device
V_{DDOUT}	6, 7	Power	**CDCEL913**: 1.8-V supply for all outputs
			CDCE913: 3.3-V or 2.5-V supply for all outputs
GND	5, 10	Ground	Ground
S0	2	I	User-programmable control input S0; LVCMOS inputs; internal pullup 500k
SDA/S1	13	I/O or I	**SDA:** bidirectional serial data input/output (default configuration), LVCMOS internal pullup; or **S1:** user-programmable control input; LVCMOS inputs; internal pullup 500k
SCL/S2	12	I	**SCL:** serial clock input LVCMOS (default configuration), internal pullup 500k or **S2:** user-programmable control input; LVCMOS inputs; internal pullup 500k

IC31 : TC94A70FG





Pin No.	Symbol	I/O	Description	Default	Remarks
1	AVSS3	–	Grounding pin for 3.3V CD analog circuits.	–	
2	RFZi	I 3AI/F	Input pin for RF ripple zero-cross signal.	I	Connect to RFRP by 0.033uF
3	RFRP	O 3AI/F	RF ripple signal output pin.	O	Monitor pin for the signal.
4	SBAD/RFDC	O 3AI/F	Sub beam addition signal or RFDC (Hologram PUH RF peak detection signal) signal output pin	O	
5	FEi	O 3AI/F	Focus error signal input pin.	O	
6	TEi	O 3AI/F	Tracking error signal input pin.	O	
7	TEZi	I 3AI/F	Tracking error signal zero-cross input pin.	I	Connect to TEI by 0.033uF
8	AVDD3	–	Power supply pin for 3.3 V CD analog circuits.	–	
9	Foo	O 3AI/F	Focus servo equalizer output pin.	O	Built-in series resister 3.3k Ω
10	TRo	O 3AI/F	Tracking servo equalizer output pin.	O	
11	VREF	–	Reference voltage pin for analog circuits(1.65V)	–	Connect to VRO and PVREF. Connect 0.1uF
12	FMo	O 3AI/F	Feed servo equalizer output pin.	O	Built-in series resister 3.3kΩ 3-state output (AVDD3,AVSS3,VREF)
13	DMo	O 3AI/F	Disc servo equalizer output pin	O	
14	VSSP3	–	Grounding pin for 3.3V DSP VCO circuits.	–	
15	VCOi	I 3AI/F	DSP VCO control voltage inputr pin.	I	
16	VDDP3	–	Power supply pin for 3.3V DSP VCO circuit.	–	
17	VDD1	–	Power supply pin for 1.5V digital circuit	–	
18	VSS	–	Grounding pin for 1.5V digital circuit.	–	
19	FGiN	I 3I/F	FG signal input pin for CAV. CLV: "L", CAV: FG input	I	Analog input
20	io0(/HSo)	I/O 3I/F	General Input/output port -0 (CD) (Playback speed mode flag output pin.)	I	Schmitt input CMOS PORT
21	io1(/UHSo)	I/O 3I/F	General Input/output port -1 (CD) (Playback speed mode flag output pin.)	I	Schmitt input CMOS PORT
22	XVSS3	–	Grounding pin for 3.3V system clock oscillator circuit.	–	
23	Xi	I 3AI/F	Input pin for system clock oscillator Circuit (External Rfb=1MΩ)	I	X'tal
24	Xo	O 3AI/F	Output pin for system clock oscillator circuit	O	X'tal
25	XVDD3	–	Power supply pin for 3.3 V system clock oscillator circuit	–	

Pin No.	Symbol	I/O	Description	Default	Remarks
26	DVSS3	–	Grounding pin for 3.3V DAC circuit	–	
27	Ro	O 3AI/F	R channel audio output pin of Audio DAC.	O	No capacitor required to DVR pin when built-in audio DAC is not in use, however , connect 3.3V to DVDD3 and GND to DVSS3.
28	DVDD3	–	Power supply pin for 3.3V Audio DAC circuit.	–	
29	DVR	–	Reference voltage pin for Audio DAC.	–	
30	Lo	O 3AI/F	L channel audio output pin of Audio DAC	O	
31	DVSS3	–	Grounding pin for 3.3V Audio DAC circuit	–	
32	VDDT3	–	Power supply pin for 3.3 V digital I/O circuit.	–	For CD and DSP I/O
33	VSS	–	Grounding pin for 3.3V digital circuit	–	-
34	VDD1	–	Power supply pin for 1.5V digital circuit.	–	-
35	VDDM1	–	Power supply pin for 1.5V 1Mbit SRAM.	–	
36	SRAMSTB	I 3I/F	1Mbit SRAM stand-by pin	I	Schmitt input
37	/RST	I 3I/F	Reset signal input pin.	I	Schmitt input
38	BUS0	IO 3I/F	Data input/output pin -0 for microcontroller interface	I	Schmitt input CMOS PORT
39	BUS1	IO 3I/F	Data input/output pin -1 for microcontroller interface	I	Schmitt input CMOS PORT
40	BUS2(So)	IO 3I/F	Data input/output pin -2 for microcontroller interface (Serial output)	I	Schmitt input CMOS PORT
41	BUS3(Si)	IO 3I/F	Data input/output pin -3 for microcontroller interface (Serial input)	I	Schmitt input CMOS PORT
42	BUCK(CLK)	I 3I/F	Clock input pin for the microcontroller interface. (Clock input for Serial communication interface)	I	Schmitt input
43	/CCE	I 3I/F	Chip enable signal input pin for microcontroller interface.	I	Schmitt input
44	TEST	I 3I/F	Setting pin for LSI test mode. (Connect to GND in normal operation)	I	Schmitt input
45	IRQ	I 3I/F	DSP interruption pin.(Pull down by 100kΩ when not in use)	I	Schmitt input
46	AoUT3(Po4)	O 3I/F	Audio data output pin -3 (DSP general output port -4)	O	CMOS PORT
47	AoUT2(Po5)	O 3I/F	Audio data output pin -2 (DSP general output port -5)	O	CMOS PORT
48	Pio0	I/O 3I/F	DSP general input/output port -0	I	Schmitt input CMOS PORT
49	Pio1	I/O 3I/F	DSP general input/output port -1	I	Schmitt input CMOS PORT
50	Pio2	I/O 3I/F	DSP general input/output port -2	I	Schmitt input CMOS PORT
51	Pio3	I/O 3I/F	DSP general input/output port -3	I	Schmitt input CMOS PORT
52	VSS	–	Grounding pin for 3.3V digital circuit	–	-
53	VDDT3	–	Power supply pin for 3.3 V digital I/O circuit.	–	For CD and DSP I/O
54	SBSY	O 3I/F	Sub code block sync output pin	O	CMOS PORT
55	SBOK	O 3I/F	CRCC check result output pin for sub code Q data.	O	CMOS PORT

IC31 : TC94A70FG

Pin No.	Symbol	I/O	Description	Default	Remarks
56	IPF	O 3I/F	Correction flag output	O	CMOS PORT
57	SFSY	O 3I/F	Servo internal register read clock output pin	O	CMOS PORT
58	ZDET	O 3I/F	Internal Audio DAC Zero data detection flag output	O	CMOS PORT
59	GPIN	I 3I/F	CD General Input port(Pull down by 100KΩ when not in use)	I	Schmitt input
60	MS	I 3I/F	Microprocessor I/F mode selection pin. "L": Parallel I/F, "H": Serial I/F	I	
61	DoUT(Po6)	O 3I/F	Digital Audio output (SPDIF) pin (DSP general output port -6)	O	CMOS PORT
62	AoUT1(Po7)	O 3I/F	Audio data output pin -1(DSP general output port -7)	O	CMOS PORT
63	BCKo(Po8)	O 3I/F	Bit clock output pin for AoUT (DSP general output port -8)	O	CMOS PORT
64	LRCKo(Po9)	O 3I/F	L/R channel clock output pin (DSP general output port -9)	O	CMOS PORT
65	AiN(Pi4)	I 3I/F	Audio data input for Audio DAC (DSP general input port -4)	I	Schmitt input
66	BCKi(Pi5)	I 3I/F	Bit clock input pin for AiN (DSP general input port -5)	I	Schmitt input
67	LRCKi(Pi6)	I 3I/F	L/R channel clock for AiN (DSP general input port -6)	I	Schmitt input
68	VDD1	–	Power supply pin for 1.5V digital circuit.	–	
69	VSS	–	Grounding pin for 1.5V digital circuit.	–	
70	AWRC	O 3AI/F	VCO control pin for active wide-range PLL	O	Applicable in CLV/CAV mode. Connect 0.033 uF.
71	PVDD3	–	Power supply pin for 3.3V CD PLL circuit.	–	
72	PDo	O 3AI/F	EFM and PLCK Phase difference signal output pin.	O	4-state output (PVDD3, Hiz,PVSS3,PVREF)
73	TMAXS	O 3AI/F	TMAX detection result output pin	O	3-state output (PVDD3,PVSS3,HiZ)
74	TMAX	O 3AI/F	TMAX detection result output pin	O	3-state output(PVDD3,PVSS3,HiZ)
75	LPFN	I 3AI/F	PLL circuit LPF amplifier inversion input pin	I	Connect resister of LPF, refer to application circuit diagram.
76	LPFo	O 3AI/F	PLL circuit LPF amplifier Output pin	O	Connect capacitor of LPF, refer to application circuit diagram.
77	PVREF	–	PLL circuit 1.65 V reference voltage pin.	–	Connected to VREF and VRO inside of IC. Connect 0.1uF.
78	VCoF	O 3AI/F	VCO filter pin	O	Connect 0.01uF.
79	PVSS3	–	Grounding pin for 3.3V CD PLL circuit.	–	
80	SLCo	O 3AI/F	EFM slice level output pin. Output impedance =2.5kΩ both of analog/digital slice mode.	O	Connect capacitor according with servo frequency band.
81	RFi	I 3AI/F	RF signal input pin Zin is selectable by command.	I	Zin：20kΩ， 10kΩ， 5kΩ
82	RFRPi	I 3AI/F	RF ripple signal input pin	I	

Pin No.	Symbol	I/O	Description	Default	Remarks
83	RFEQo	O 3AI/F	RF equalizer circuit output pin.	O	Connect to RFRPI by 0.1uF, to RFI by 4700pF.
84	VRo	O 3AI/F	1.65 V reference voltage output pin.	O	Connected to VREF and PVREF inside of IC. Connect 0.1uF+100uF.
85	RESiN	O 3AI/F	Pin for connecting a resistor for reference current generation.	O	Connect 22kΩ//0.01uF.
86	VMDiR	–	Reference voltage output pin for LD APC.	–	Connect 0.1uF
87	TESTR	O 3AI/F	LPF connection pin for RFEQO offset correction circuit.	O	Connect more than 0.015uF.
88	AGCi	I 3AI/F	RF signal AGC amplifier input pin	I	
89	RFo	O 3AI/F	RF signal generation amplifier output pin	O	
90	RVDD3	–	Power supply for 3.3V RF amplifier core circuit.	–	
91	LDo	O 3AI/F	Laser diode amplifier output pin.		
92	MDi	I 3AI/F	Monitor photodiode amplifier input pin.	I	Reference Voltage=178mVtyp.
93	RVSS3	–	Grounding pin for RF amplifier core circuit	–	
94	FNi2	I 3AI/F	Main beam signal input pin. To be connected to PIN diode C.	I	
95	FNi1	I 3AI/F	Main beam signal input pin. To be connected to PIN diode A.	I	
96	FPi2	I 3AI/F	Main beam signal input pin. To be connected to PIN diode D.	I	
97	FPi1	I 3AI/F	Main beam signal input pin. To be connected to PIN diode B.	I	
98	TPi	I 3AI/F	Sub beam signal input pin. To be connected to PIN diode F.	I	
99	TNPC	O 3AI/F	TNI/TPI input common capacitor connection pin.	O	Connect to VRO by capacitor.
100	TNi	I 3AI/F	Sub beam signal input pin. To be connected to PIN diode E.	I	

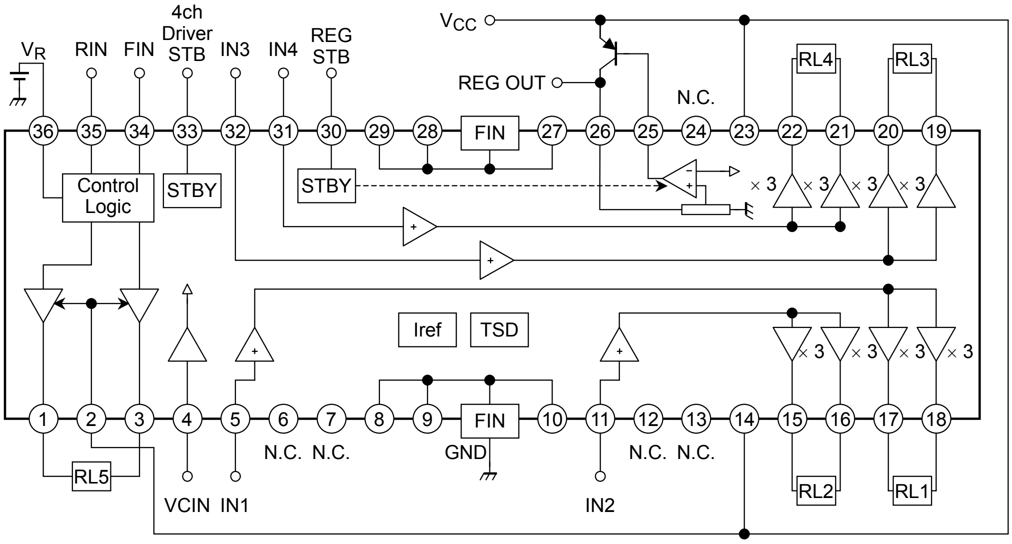
* 3A I/F : : 3 V analog circuit input/output pin.
1.5 I/F : 1.5Vdigital input/output pin.
3 I/F : 3 V digital input/output pin.

Note: The servo output pins (FOO, TRO, FMO, and DMO) become undefined or GND level under the following conditions:

- /RST pin = Low
- Crystal oscillation stopped according to the instructions by the Stop crystal oscillation command
- Power supply for CD is OFF.
- SRAMSTB pin = High

To prevent the undefined pin states from affecting the servo circuitry or any other mechanical blocks in the system, appropriate measures should be taken, such as using a driver IC supporting a standby feature to place the system in standby mode while either of the above conditions is satisfied.

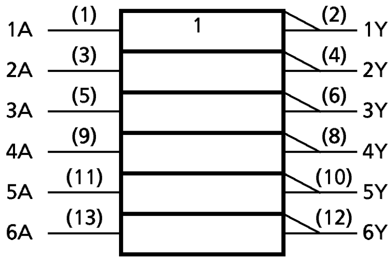
IC32 : TA2125AF



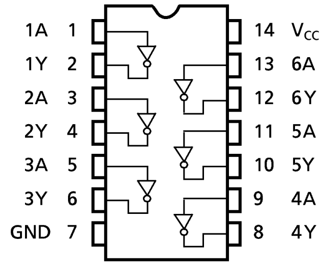
No.	Symbol	Function	
1	OUT5A	Output terminal	H-bridge
2	V_M	Supply voltage terminal for Logic	H-bridge
3	OUT5B	Output terminal	H-bridge
4	V_{CIN}	Input reference voltage	4ch BTL
5	IN1	Input for ch1	4ch BTL
6	N.C.	Open	—
7	N.C.	Open	—
8	N.C.	8, 9, 10, 27, 28, 29 are connected to PW GND (FIN)	—
9	N.C.	8, 9, 10, 27, 28, 29 are connected to PW GND (FIN)	—
10	N.C.	8, 9, 10, 27, 28, 29 are connected to PW GND (FIN)	—
11	IN2	Input for ch2	4ch BTL
12	N.C.	Open	—
13	N.C.	Open	—
14	V_{CC1}	Supply voltage terminal for ch1/ch2	4ch BTL
15	OUT2M	Inverted output for ch2	4ch BTL
16	OUT2P	Non-inverted output for ch2	4ch BTL
17	OUT1M	Inverted output for ch1	4ch BTL
18	OUT1P	Non-inverted output for ch1	4ch BTL
19	OUT3P	Non-inverted output for ch3	4ch BTL
20	OUT3M	Inverted output for ch3	4ch BTL
21	OUT4P	Non-inverted output for ch4	4ch BTL
22	OUT4M	Inverted output for ch4	4ch BTL
23	V_{CC2}	Supply voltage terminal for ch3/ch4	4ch BTL
24	N.C.	Open	—
25	REG	Connection with BASE of PNP Tr	Regulator
26	REG OUT	Output for regulator (5 V)	Regulator
27	N.C.	8, 9, 10, 27, 28, 29 are connected to PW GND (FIN)	—
28	N.C.	8, 9, 10, 27, 28, 29 are connected to PW GND (FIN)	—
29	N.C.	8, 9, 10, 27, 28, 29 are connected to PW GND (FIN)	—
30	REG STBY	Standby control for regulator	Regulator
31	IN4	Input for ch4	4ch BTL
32	IN3	Input for ch3	4ch BTL
33	STBY	Standby control for 4ch BTL	4ch BTL
34	FIN	Logic control input	H-bridge
35	RIN	Logic control input	H-bridge
36	VR	Supply voltage terminal for motor driver	H-bridge

IC51 : TC74HCU04AFNG

IEC LOGIC SYMBOL



PIN ASSIGNMENT

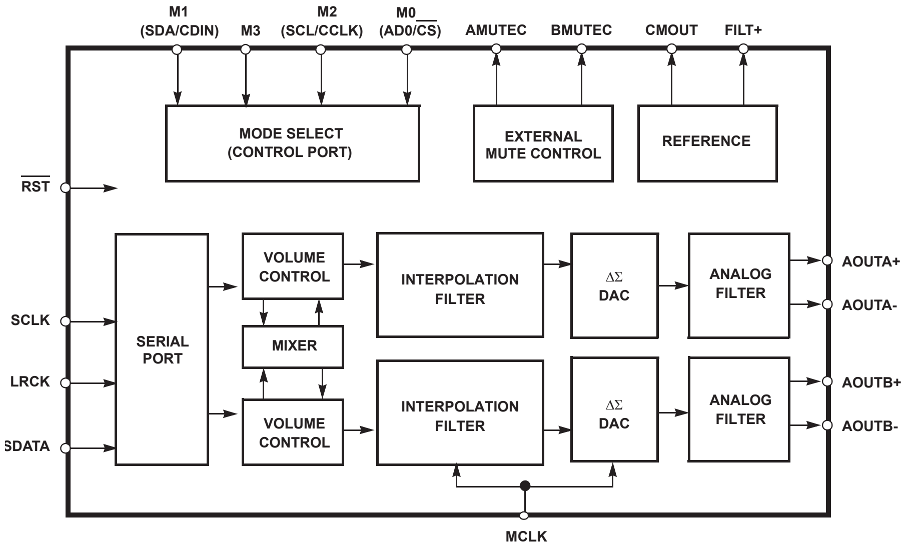


(TOP VIEW)

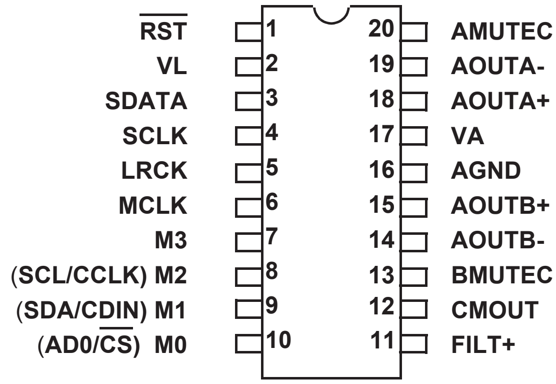
TRUTH TABLE

A	Y
L	H
H	L

IC75 : CS4392KZZ



PIN DESCRIPTION - PCM DATA MODE



$\overline{\text{RST}}$	1	**Reset** (*Input*) - Powers down device and resets all internal registers to their default settings.
VL	2	**Logic Power** (*Input*) **-** Positive power for the digital input/output.
SDATA	3	**Serial Audio Data** (*Input*) - Input for two's complement serial audio data.
SCLK	4	**Serial Clock** (*Input*/*Output*) - Serial clock for the serial audio interface.
LRCK	5	**Left Right Clock** (*Input*/*Output*) - Determines which channel, Left or Right, is currently active on the serial audio data line.
MCLK	6	**Master Clock** (*Input*) - Clock source for the delta-sigma modulator and digital filters.
FILT+	11	**Positive Voltage Reference** (*Output*) **-** Positive reference voltage for the internal sampling circuits.
CMOUT	12	**Common Mode Voltage** (*Output*) - Filter connection for internal quiescent voltage.
AMUTEC **BMUTEC**	20 13	**Mute Control** (*Output*) - The Mute Control pin goes high during power-up initialization, reset, muting, power-down or if the master clock to left/right clock frequency ratio is incorrect.
AOUTB- **AOUTB+** **AOUTA+** **AOUTA**	14 15 18 19	**Differential Analog Output** (*Outputs*) - The full scale differential analog output level is specified in the Analog Characteristics specification table.
AGND	16	**Ground** (*Input*)
VA	17	**Analog Power** (*Input*) **-** Positive power for the analog section.
Control Port Mode Definitions		
M3	7	**Mode Selection** (*Input*) - This pins should be tied to GND level during control port mode.
SCL/CCLK	8	**Serial Control Port Clock** (*Input*) - Serial clock for the serial control port.
SDA/CDIN	9	**Serial Control Data** (*Input/Output*) - SDA is a data I/O line in I^2C mode. CDIN is the input data line for the control port interface in SPI mode.
AD0/$\overline{\text{CS}}$	10	**Address Bit 0 (I^2C) / Control Port Chip Select (SPI)** (*Input/Output*) - AD0 is a chip address pin in I^2C mode; $\overline{\text{CS}}$ is the chip select signal for SPI format.
Stand-Alone Mode Definitions		
M3 **M2** **M1** **M0**	7 8 9 10	**Mode Selection** (*Input*) - Determines the operational mode of the device.

13. ELECTRICAL PARTS LIST

PARTS INFORMATION

RESISTORS

1) 00MGD05 × × × 140, Carbon film fixed resistor, ±5% 1/4W
2) 00MGD05 $\underbrace{\times\times\times}_{①}$ 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.

3) 00MDD1 × $\underbrace{\times\times\times}$ 370, Ceramic capacitor
Disc type
Temp.coeff.P350 ～ N1000, 50V

② ③

③ Capacity value
② Tolerance

Examples ;

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

✻ Tolerance of COMMON PARTS handled here are as follows :

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

③ Capacity value

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

CERAMIC CAP.

4) 00MDK16 $\underbrace{\times\times\times}_{④}$ 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. (⏉)

5) 00MEA $\underbrace{\times\times\times}_{⑤}$ $\underbrace{\times\times\times}_{⑥}$ 10, Electrolytic capacitor
One-way lead type, Tolerance ±20%

⑥ Working voltage
⑤ 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. (⏉)

6) 00MDF15 × × × 350 → Plastic film capacitor
00MDF15 × × × 310 One-way type, Mylar ±5% 50V
00MDF16 $\underbrace{\times\times\times}_{⑦}$ 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 $\underbrace{\times\times\times}$ 140 →	RF73B2E $\underbrace{\times\times\times\times}$ 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 00MRF05 × × × 140 →	ERD-2FCJ × × ×	(±5% 1/4W)
00MNF02 × × × 140 00MRF02 $\underbrace{\times\times\times}$ 140 →	ERD-2FCG $\underbrace{\times\times\times}$	(±2% 1/4W)
✻ 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.	: TRAMSISTOR
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。

060522 MZ

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
					AUDIO PWB (CUP12097Z-2)		
AUDIO	BK75		nsp	nsp	BRACKET	BRACKET FOR PWB	CMD1A569
AUDIO	BN42		nsp	nsp	CORD	WIRE ASSY 11P 100MM	CWB1B911100EN
AUDIO	BN43		nsp	nsp	CORD	WIRE ASSY	CWB1C903080BM
AUDIO	C602		nsp	nsp	FILM CAP.	3300PF 100V J MYLAR	HCQI1H332JZT
AUDIO	C604		00MOF15331540	00MOF15331540	FILM CAP.	APSVA0100J33100 POLYPROPYLNE	CCMP2A331JN09T
AUDIO	C605		nsp	nsp	FILM CAP.	1000PF 100V J MYLAR	HCQI1H102JZT
AUDIO	C607		nsp	nsp	FILM CAP.	1500PF 100V J MYLAR	HCQI1H152JZT
AUDIO	C608		943133002360S	943133002360S	FILM CAP.	APSVA0100J10100 POLYPROPYLNE	CCMP2A101JN09T
AUDIO	C609		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
AUDIO	C610		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
AUDIO	C611		nsp	00MOA22701620	ELECT CAP.	220UF 16V	CCEA1CH221T
AUDIO	C612		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
AUDIO	C615		nsp	nsp	FILM CAP.	1000PF 100V J MYLAR	HCQI1H102JZT
AUDIO	C616		943133002360S	943133002360S	FILM CAP.	APSVA0100J10100 POLYPROPYLNE	CCMP2A101JN09T
AUDIO	C702		nsp	nsp	FILM CAP.	3300PF 100V J MYLAR	HCQI1H332JZT
AUDIO	C704		00MOF15331540	00MOF15331540	FILM CAP.	APSVA0100J33100 POLYPROPYLNE	CCMP2A331JN09T
AUDIO	C705		nsp	nsp	FILM CAP.	1000PF 100V J MYLAR	HCQI1H102JZT
AUDIO	C707		nsp	nsp	FILM CAP.	1500PF 100V J MYLAR	HCQI1H152JZT
AUDIO	C708		943133002360S	943133002360S	FILM CAP.	APSVA0100J10100 POLYPROPYLNE	CCMP2A101JN09T
AUDIO	C709		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
AUDIO	C710		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
AUDIO	C711		nsp	00MOA22701620	ELECT CAP.	220UF 16V	CCEA1CH221T
AUDIO	C712		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
AUDIO	C715		nsp	nsp	FILM CAP.	1000PF 100V J MYLAR	HCQI1H102JZT
AUDIO	C716		943133002360S	943133002360S	FILM CAP.	APSVA0100J10100 POLYPROPYLNE	CCMP2A101JN09T
AUDIO	C751		nsp	nsp	CER. CAP.	120PF 50V CERAMIC	CCBS1H121KBT
AUDIO	C752		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
AUDIO	C753		nsp	00MOA22701620	ELECT CAP.	220UF 16V	CCEA1CH221T
AUDIO	C754		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
AUDIO	C755		nsp	00MOA22605020	ELECT CAP.	22UF 50V	CCEA1HH220T
AUDIO	C756		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
AUDIO	C757		nsp	00MOA22605020	ELECT CAP.	22UF 50V	CCEA1HH220T
AUDIO	C758		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
AUDIO	C759		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
AUDIO	C760		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
AUDIO	C761		nsp	00MOA22702520	ELECT CAP.	220UF 25V	CCEA1EH221T
AUDIO	C790		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
AUDIO	C791		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
AUDIO	CN81		nsp	nsp	CONN.	9P STRAIGHT 00906-0030	CJP09GA19ZY
AUDIO	D605		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
AUDIO	D606		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
AUDIO	D607		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
AUDIO	D705		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
AUDIO	D706		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
AUDIO	D707		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
AUDIO	GND1		nsp	nsp	TERMINAL	MET37-0002	HJT1A025
AUDIO	IC61		00MHC10102090	00MHC10102090	IC	NJM2068M	HVINJM2068MTE1
AUDIO	IC71		00MHC10102090	00MHC10102090	IC	NJM2068M	HVINJM2068MTE1
AUDIO	IC75		00MHC10025880	00MHC10025880	IC	CS4392KZZ	HVICS4392KZZ
AUDIO	IC76		90M-HC900150R	90M-HC900150R	IC	KIA1117S/F33 REGULATOR(SOT-223)	CVIKIA1117S33
AUDIO	IC77		00MHC3890599F	00MHC3890599F	IC	KIA7805API	HVIKIA7805API
AUDIO	J699		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J701		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J702		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J703		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J704		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J707		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J708		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J709		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J710		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J712		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J713		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J714		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J715		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J716		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J717		nsp	nsp	CORD	SN95/PB5 0.6	C3A206

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	
AUDIO	J718		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J719		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J720		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J721		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J722		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J723		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J724		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J725		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J726		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J727		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J728		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J729		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J730		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J731		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J732		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J733		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J734		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J735		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J736		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J737		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J738		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J739		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J740		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J741		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J742		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J743		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J744		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J745		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J746		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J747		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	J799		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
AUDIO	JK61		943643002370S	943643002370S	TERMINAL	CINCH JACK 1P WHITE (GL)	CJJ4M064Z
AUDIO	JK71		943643002380S	943643002380S	TERMINAL	CINCH JACK 1P RED (GL)	CJJ4M065Z
AUDIO	L751		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
AUDIO	L752		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
AUDIO	Q601		00MHT800931A0	00MHT800931A0	TRS.	KTC3200GR	HVTKTC3200GRT
AUDIO	Q602		00MHT600121A0	00MHT600121A0	TRS.	KTA1268GR	HVTKTA1268GRT
AUDIO	Q603		90M-BA001460R	90M-BA001460R	TRS.	KRC107M	HVTKRC107MT
AUDIO	Q604		00MBA10002000	00MBA10002000	TRS.	KRA104M	HVTKRA104MT
AUDIO	Q605		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
AUDIO	Q606		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
AUDIO	Q607		00MHT600121A0	00MHT600121A0	TRS.	KTA1268GR	HVTKTA1268GRT
AUDIO	Q608		00MHT800931A0	00MHT800931A0	TRS.	KTC3200GR	HVTKTC3200GRT
AUDIO	Q701		00MHT800931A0	00MHT800931A0	TRS.	KTC3200GR	HVTKTC3200GRT
AUDIO	Q702		00MHT600121A0	00MHT600121A0	TRS.	KTA1268GR	HVTKTA1268GRT
AUDIO	Q703		90M-BA001460R	90M-BA001460R	TRS.	KRC107M	HVTKRC107MT
AUDIO	Q704		00MBA10002000	00MBA10002000	TRS.	KRA104M	HVTKRA104MT
AUDIO	Q705		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
AUDIO	Q706		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
AUDIO	Q707		00MHT600121A0	00MHT600121A0	TRS.	KTA1268GR	HVTKTA1268GRT
AUDIO	Q708		00MHT800931A0	00MHT800931A0	TRS.	KTC3200GR	HVTKTC3200GRT
AUDIO	R601		nsp	nsp	RES.	2.2K OHM 1/6W J CARBON	CRD20TJ222T
AUDIO	R602		nsp	nsp	RES.	7.5K OHM 1/6W J CARBON	CRD20TJ752T
AUDIO	R603		nsp	nsp	RES.	7.5K OHM 1/6W J CARBON	CRD20TJ752T
AUDIO	R604		nsp	nsp	RES.	820 OHM 1/6W J CARBON	CRD20TJ821T
AUDIO	R605		nsp	nsp	RES.	2.7K OHM 1/6W J CARBON	CRD20TJ272T
AUDIO	R606		nsp	nsp	RES.	750 OHM 1/6W J CARBON	CRD20TJ751T
AUDIO	R607		nsp	nsp	RES.	2.7K OHM 1/6W J CARBON	CRD20TJ272T
AUDIO	R608		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
AUDIO	R610		nsp	nsp	RES.	3.9K OHM 1/6W CARBON	CRD20TJ392T
AUDIO	R611		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
AUDIO	R612		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
AUDIO	R613		nsp	nsp	RES.	3.9K OHM 1/6W CARBON	CRD20TJ392T
AUDIO	R614		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
AUDIO	R615		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
AUDIO	R616		nsp	nsp	RES.	47K OHM 1/6W J CARBON	CRD20TJ473T
AUDIO	R617		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T

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	
AUDIO	R618		nsp	nsp	RES.	220 OHM 1/6W J CARBON	CRD20TJ221T
AUDIO	R619		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
AUDIO	R620		nsp	nsp	RES.	470K OHM 1/6W J CARBON	CRD20TJ474T
AUDIO	R621		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
AUDIO	R622		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T
AUDIO	R623		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T
AUDIO	R624		nsp	nsp	RES.	1.2K OHM 1/6W J CARBON	CRD20TJ122T
AUDIO	R625		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
AUDIO	R627		nsp	nsp	RES.	100 OHM 1/6W J CARBON	CRD20TJ101T
AUDIO	R701		nsp	nsp	RES.	2.2K OHM 1/6W J CARBON	CRD20TJ222T
AUDIO	R702		nsp	nsp	RES.	7.5K OHM 1/6W J CARBON	CRD20TJ752T
AUDIO	R703		nsp	nsp	RES.	7.5K OHM 1/6W J CARBON	CRD20TJ752T
AUDIO	R704		nsp	nsp	RES.	820 OHM 1/6W J CARBON	CRD20TJ821T
AUDIO	R705		nsp	nsp	RES.	2.7K OHM 1/6W J CARBON	CRD20TJ272T
AUDIO	R706		nsp	nsp	RES.	750 OHM 1/6W J CARBON	CRD20TJ751T
AUDIO	R707		nsp	nsp	RES.	2.7K OHM 1/6W J CARBON	CRD20TJ272T
AUDIO	R708		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
AUDIO	R710		nsp	nsp	RES.	3.9K OHM 1/6W CARBON	CRD20TJ392T
AUDIO	R711		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
AUDIO	R712		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
AUDIO	R713		nsp	nsp	RES.	3.9K OHM 1/6W CARBON	CRD20TJ392T
AUDIO	R714		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
AUDIO	R715		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
AUDIO	R716		nsp	nsp	RES.	47K OHM 1/6W J CARBON	CRD20TJ473T
AUDIO	R717		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T
AUDIO	R718		nsp	nsp	RES.	220 OHM 1/6W J CARBON	CRD20TJ221T
AUDIO	R719		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
AUDIO	R720		nsp	nsp	RES.	470K OHM 1/6W J CARBON	CRD20TJ474T
AUDIO	R721		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
AUDIO	R722		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T
AUDIO	R723		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T
AUDIO	R724		nsp	nsp	RES.	1.2K OHM 1/6W J CARBON	CRD20TJ122T
AUDIO	R725		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
AUDIO	R727		nsp	nsp	RES.	100 OHM 1/6W J CARBON	CRD20TJ101T
AUDIO	R751		nsp	nsp	RES.	2.7K OHM 1/6W J CARBON	CRD20TJ272T
AUDIO	R752		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
AUDIO	R753		nsp	nsp	RES.	1 OHM 1/6W J CARBON	CRD20TJ1R0T
AUDIO	R754		nsp	nsp	RES.	1 OHM 1/6W J CARBON	CRD20TJ1R0T
AUDIO	R755		nsp	nsp	RES.	1 OHM 1/6W J CARBON	CRD20TJ1R0T
AUDIO	R756		nsp	nsp	RES.	1 OHM 1/6W J CARBON	CRD20TJ1R0T
AUDIO	R757		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
					FLASHER IN PWB (CUP12097Z-6)		
FLASH	BK55	/U1B	nsp	nsp	BRACKET	BRACKET FOR PWB	CMD1A569
FLASH	BK56	/U1B	nsp	nsp	BRACKET	BRACKET FOR PWB	CMD1A569
FLASH	BK57	/U1B	nsp	nsp	BRACKET	BRACKET SHIELD	CMD1A512
FLASH	BN41	/U1B	nsp	nsp	CORD	WIRE ASSY	CWB1B903180EN
FLASH	C551	/U1B	nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
FLASH	C552	/U1B	nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
FLASH	D551	/U1B	nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
FLASH	D552	/U1B	nsp	90M-HI200020R	L.E.D.	SIR-34ST3F	BVDSIR34ST3F
FLASH	D553	/U1B	nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
FLASH	JK55	/U1B	nsp	90M-YT004860R	TERMINAL	3.5MM JACK STEREO PJ-308-02	CJJ2D008Z
FLASH	Q551	/U1B	nsp	00MBA10001000	TRS.	KRA102M	HVTKRA102MT
FLASH	R551	/U1B	nsp	nsp	RES.	100 OHM 1/6W J CARBON	CRD20TJ101T
FLASH	R552	/U1B	nsp	nsp	RES.	100 OHM 1/6W J CARBON	CRD20TJ101T
FLASH	RC51	/U1B	nsp	90M-HW100690R	PHOTO UNIT	RPM674CBR-S	CRVRPM6936
					FRONT PWB (CUP12097Z-1)		
FRONT	BK51		nsp	nsp	BRACKET	FL DISPLAY HOLDER	CMD1A504
FRONT	BK52		nsp	nsp	BRACKET	FL DISPLAY HOLDER	CMD1A504
FRONT	BN51		nsp	nsp	CORD	WIRE ASSY	CWB1B905050EN
FRONT	C501		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
FRONT	C502		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
FRONT	C503		nsp	00MEJ47601640	ELECT CAP.	47 UF 16V KS	CCEA1CKS470T
FRONT	C504		nsp	00MEJ47601640	ELECT CAP.	47 UF 16V KS	CCEA1CKS470T
FRONT	C505		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
FRONT	CN21		nsp	nsp	CONN.	21P FPC WAFER	CJP21GA117ZY
FRONT	D502		90M-HI101120R	90M-HI101120R	L.E.D.	SLR325VRA47	KVDSLR325VRA47

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	
FRONT	D503		90M-HI101120R	90M-HI101120R	L.E.D.	SLR325VRA47	KVDSLR325VRA47
FRONT	FL51		90M-HQ300610R	90M-HQ300610R	DISPLAY	FL DISPLAY FOR CD5400	CFLHCA12SS18T
FRONT	IC51		90M-HC700550R	90M-HC700550R	IC	TC74HCU04AFNG	HVI74HCU04AFNG
FRONT	J501		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J502		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J503		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J504		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J505		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J506		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J507		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J508		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J509		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J510		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J511		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J512		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J513		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J514		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J515		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J516		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J517		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J518		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J519		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J520		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J521		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J522		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J523		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J524		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J525		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J526		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J527		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J528		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J529		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J530		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J531		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J532		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J533		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	J536		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
FRONT	L501		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
FRONT	L502		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
FRONT	L503		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
FRONT	Q502		90M-BA001460R	90M-BA001460R	TRS.	KRC107M	HVTKRC107MT
FRONT	Q503		90M-BA001460R	90M-BA001460R	TRS.	KRC107M	HVTKRC107MT
FRONT	R503		nsp	nsp	RES.	100 OHM 1/6W J CARBON	CRD20TJ101T
FRONT	R504		nsp	nsp	RES.	560 OHM 1/6W J CARBON	CRD20TJ561T
FRONT	R505		nsp	nsp	RES.	560 OHM 1/6W J CARBON	CRD20TJ561T
FRONT	R506		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
FRONT	R507		nsp	nsp	RES.	1K OHM 1/6W J CARBON	CRD20TJ102T
FRONT	R508		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
FRONT	R509		nsp	nsp	RES.	1K OHM 1/6W J CARBON	CRD20TJ102T
FRONT	R510		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
FRONT	R511		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
FRONT	RS51		00MHW10004210	00MHW10004210	PHOTO UNIT	RPM6936-V4	CRVRPM6936V4
FRONT	S502		90M-SP001400R	90M-SP001400R	PUSH SW	TACT SW EVQ22505R	CST1A023ZT
FRONT	S503		90M-SP001400R	90M-SP001400R	PUSH SW	TACT SW EVQ22505R	CST1A023ZT
FRONT	S504		90M-SP001400R	90M-SP001400R	PUSH SW	TACT SW EVQ22505R	CST1A023ZT
FRONT	S505		90M-SP001400R	90M-SP001400R	PUSH SW	TACT SW EVQ22505R	CST1A023ZT
FRONT	S506		90M-SP001400R	90M-SP001400R	PUSH SW	TACT SW EVQ22505R	CST1A023ZT
FRONT	S507		90M-SP001400R	90M-SP001400R	PUSH SW	TACT SW EVQ22505R	CST1A023ZT
					HEADPHONE PWB (CUP12097Z-4)		
H/P	BN81		nsp	nsp	CORD	WIRE ASSY 9P 280MM	CWZCD5003BN81ZA
H/P	BN81(1)		90M-FC500030R	90M-FC500030R	FERRITE CORE	FERRITE RING 29X7.7X19	CLZ9W003Z
H/P	BN81(2)		nsp	nsp	CORD	WIRE ASSY 9P 280MM	CWZCD5003BN81
H/P	C801		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
H/P	C802		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
H/P	C803		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
H/P	C804		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
H/P	C805		nsp	nsp	CER. CAP.	1000PF 50V B CERAMIC	CCBS1H102KBT

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
H/P	C806		nsp	nsp	CER. CAP.	1000PF 50V B CERAMIC	CCBS1H102KBT
H/P	C807		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
H/P	C808		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
H/P	D801		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
H/P	D802		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
H/P	D803		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
H/P	D804		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
H/P	IC81		00MHC10102090	00MHC10102090	IC	NJM2068M	HVINJM2068MTE1
H/P	J801		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J802		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J803		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J807		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J808		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J809		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J810		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J813		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J814		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J815		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J816		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J817		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	J818		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
H/P	PH81		90M-YT004500R	90M-YT004500R	TERMINAL	JACK H/P SILVER PJ-612A-51	CJJ2E026Z
H/P	Q801		00MHT800951B0	00MHT800951B0	TRS.	KTC3203Y	HVTKTC3203YT
H/P	Q802		00MHT800951B0	00MHT800951B0	TRS.	KTC3203Y	HVTKTC3203YT
H/P	Q803		00MHT600141B0	00MHT600141B0	TRS.	KTA1271Y	HVTKTA1271YT
H/P	Q804		00MHT600141B0	00MHT600141B0	TRS.	KTA1271Y	HVTKTA1271YT
H/P	Q807		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
H/P	Q808		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
H/P	Q809		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
H/P	Q810		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
H/P	R801		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
H/P	R802		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
H/P	R803		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
H/P	R804		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
H/P	R805		nsp	nsp	RES.	1.5K OHM 1/6W J CARBON	CRD20TJ152T
H/P	R806		nsp	nsp	RES.	12 OHM 1/6W J CARBON	CRD20TJ120T
H/P	R807		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
H/P	R808		nsp	nsp	RES.	12 OHM 1/6W J CARBON	CRD20TJ120T
H/P	R809		nsp	nsp	RES.	1.5K OHM 1/6W J CARBON	CRD20TJ152T
H/P	R810		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
H/P	R811		nsp	nsp	RES.	1.5K OHM 1/6W J CARBON	CRD20TJ152T
H/P	R812		nsp	nsp	RES.	12 OHM 1/6W J CARBON	CRD20TJ120T
H/P	R813		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
H/P	R814		nsp	nsp	RES.	12 OHM 1/6W J CARBON	CRD20TJ120T
H/P	R815		nsp	nsp	RES.	1.5K OHM 1/6W J CARBON	CRD20TJ152T
H/P	R816		nsp	nsp	RES.	33 OHM 1/6W J CARBON	CRD20TJ330T
H/P	R817		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T
H/P	R818		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
H/P	R819		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
H/P	R820		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T
H/P	R821		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
H/P	R822		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
H/P	R823		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T
H/P	R824		nsp	nsp	RES.	68 OHM 1/6W J CARBON	CRD20TJ680T
H/P	R825		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
H/P	R826		nsp	nsp	RES.	4.7K OHM 1/6W J CARBON	CRD20TJ472T
H/P	R827		nsp	nsp	RES.	1 OHM 1/6W J CARBON	CRD20TJ1R0T
H/P	R828		nsp	nsp	RES.	1 OHM 1/6W J CARBON	CRD20TJ1R0T
H/P	VR81		943671002420S	943671002420S	VER. RES.	10KA A CURVE	CVV3J02A103Z
					MAIN PWB (CUP12096Z)		
MAIN	BK21		nsp	nsp	BRACKET	BRACKET FOR PWB	CMD1A569
MAIN	BK31		nsp	nsp	HEATSINK	HEAT SINK	CMY1A267
MAIN	C201		nsp	00MDD95330300	CER. CAP.	33PF 50V JA	CCUS1H330JA
MAIN	C202		nsp	00MDD95330300	CER. CAP.	33PF 50V JA	CCUS1H330JA
MAIN	C203		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
MAIN	C206		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
MAIN	C207		nsp	90M-DK900090R	CER. CAP.	1UF 10V KC	CCUS1A105KC

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
MAIN	C208		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C209		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C210		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C211		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C212		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C213		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C214		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
MAIN	C215		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
MAIN	C216		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C218		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C219		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C220		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
MAIN	C221		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C222		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C223		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C251		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C252		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C253		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C254		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C255		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C258		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C259		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C260		nsp	00MDD9515030R	CER. CAP.	15PF 50V JA	CCUS1H150JA
MAIN	C261		nsp	00MDD9515030R	CER. CAP.	15PF 50V JA	CCUS1H150JA
MAIN	C301		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C306		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C310		nsp	00MDD95470300	CER. CAP.	47PF 50V JA	CCUS1H470JA
MAIN	C311		nsp	00MDK96333300	CER. CAP.	0.033UF 50V K	CCUS1H333KC
MAIN	C312		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C313		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C314		nsp	00MDK96153300	CER. CAP.	0.015UF 50V	CCUS1H153KC
MAIN	C315		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
MAIN	C316		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
MAIN	C317		nsp	00MDK96472300	CER. CAP.	4700PF 50V KC	CCUS1H472KC
MAIN	C318		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C319		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
MAIN	C320		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C321		nsp	00MDK96153300	CER. CAP.	0.015UF 50V	CCUS1H153KC
MAIN	C322		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C323		nsp	00MDD95680300	CER. CAP.	68PF 50V JA	CCUS1H680JA
MAIN	C324		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C325		nsp	00MOA47701620	ELECT CAP.	470UF 16V ZF	CCEA1CH471T
MAIN	C326		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C327		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C328		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C329		nsp	00MDK96102300	CER. CAP.	1000PF 50V KC	CCUS1H102KC
MAIN	C330		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C331		nsp	00MDK96333300	CER. CAP.	0.033UF 50V K	CCUS1H333KC
MAIN	C332		nsp	00MDK96333300	CER. CAP.	0.033UF 50V K	CCUS1H333KC
MAIN	C333		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C334		nsp	00MDD95471300	CER. CAP.	470PF 50V JA	CCUS1H471JA
MAIN	C335		nsp	00MDD95471300	CER. CAP.	470PF 50V JA	CCUS1H471JA
MAIN	C336		nsp	90M-OA000630R	ELECT CAP.	KZH 6.3V/1000UF	CCEA0JKZH102KS
MAIN	C337		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
MAIN	C338		nsp	00MDK96473300	CER. CAP.	0.043UF 50V KC	CCUS1H473KC
MAIN	C339		nsp	00MDK96473300	CER. CAP.	0.043UF 50V KC	CCUS1H473KC
MAIN	C340		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C341		nsp	00MOA22701620	ELECT CAP.	220UF 16V	CCEA1CH221T
MAIN	C342		nsp	00MDK96222300	CER. CAP.	2200PF 50V KC	CCUS1H222KC
MAIN	C343		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C344		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C345		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C346		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C347		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C348		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C349		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C350		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC

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	
MAIN	C351		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C352		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C353		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C354		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C360		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C361		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C362		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C363		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C364		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C365		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C401		nsp	00MOA22701620	ELECT CAP.	220UF 16V	CCEA1CH221T
MAIN	C402		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C403		nsp	00MDD95120300	CER. CAP.	12PF 50V JA	CCUS1H120JA
MAIN	C404		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C405		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C406		nsp	00MDD95101300	CER. CAP.	100PF 50V JA	CCUS1H101JA
MAIN	C408		nsp	90M-DK900090R	CER. CAP.	1UF 10V KC	CCUS1A105KC
MAIN	C410		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C411		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C412		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C431		nsp	00MOA22802520	ELECT CAP.	2200UF 25V	CCEA1EH222E
MAIN	C433		nsp	00MOA22505020	ELECT CAP.	2.2UF 50V	CCEA1HH2R2T
MAIN	C461		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C462		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C465		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C466		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C467		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C468		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C990		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	C991		nsp	00MDK96104300	CER. CAP.	0.1UF 50V K	CCUS1H104KC
MAIN	CN21		nsp	nsp	CONN.	21P FPC WAFER	CJP21GA117ZY
MAIN	CN22		nsp	nsp	CONN.	7P WAFER CARD CABLE	CJP07GB113ZY
MAIN	CN23		nsp	nsp	CONN.	7P STRAIGHT 20017WS-07	CJP07GA19ZY
MAIN	CN31		nsp	nsp	CONN.	5P STRAIGHT 20017WS-05	CJP05GA19ZY
MAIN	CN32		nsp	nsp	CONN.	6P STRAIGHT	CJP06GA19ZY
MAIN	CN33		nsp	nsp	CONN.	16P WAFER CARD CABLE	CJP16GA117ZY
MAIN	CN41	/U1B	nsp	nsp	CONN.	3P STRAIGHT 20017WS-03	CJP03GA19ZY
MAIN	CN42		nsp	nsp	CONN.	11P WAFER STRAIGHT 20017WS-11	CJP11GA19ZY
MAIN	CN43		nsp	nsp	CONN.	3P STRAIGHT YMW025-03R	CJP03GA01ZY
MAIN	CN44		nsp	nsp	CONN.	3P STRAIGHT YMW025-03R	CJP03GA01ZY
MAIN	CN45		nsp	nsp	CONN.	13P WAFER STRAIGHT 20017WS-13	CJP13GA19ZY
MAIN	D202		00MHZ21303210	00MHZ21303210	DIODE	1SS355	CVD1SS355T
MAIN	D203		00MHZ21303210	00MHZ21303210	DIODE	1SS355	CVD1SS355T
MAIN	D204		00MHZ21303210	00MHZ21303210	DIODE	1SS355	CVD1SS355T
MAIN	D301		00MHZ21303210	00MHZ21303210	DIODE	1SS355	CVD1SS355T
MAIN	D401		00MHZ21303210	00MHZ21303210	DIODE	1SS355	CVD1SS355T
MAIN	D431		90M-HD302440R	90M-HD302440R	ZENER DIODE	ZJ4.7B 1/2W	CVDZJ4.7BT
MAIN	D432		nsp	90M-HD201750R	DIODE	1N4003	CVD1N4003SRT
MAIN	D433		00MHZ21303210	00MHZ21303210	DIODE	1SS355	CVD1SS355T
MAIN	D434		90M-HD302460R	90M-HD302460R	ZENER DIODE	ZJ5.6B 1/2W	CVDZJ5.6BT
MAIN	D435		00MHZ21303210	00MHZ21303210	DIODE	1SS355	CVD1SS355T
MAIN	IC21		943243002430M	943243002430M	U-PRO	T5CD2(F AAD JZ) MAIN CPU CD5003	CVIT5CD2
MAIN	IC22		90M-HC109780R	90M-HC109780R	IC	AT24C02NSU EEPROM(2K)	CVIAT24C02NSU18
MAIN	IC23		943246002440S	943246002440S	IC	IS61C256AL-12JLI	CVIS61C256AL12J
MAIN	IC24		00MHC10099540	00MHC10099540	IC	S-80145ALMC	HVIS-80145ALMC
MAIN	IC25		943231002450S	943231002450S	IC	KIA1117S18-RTK/	CVIKIA1117S18
MAIN	IC26		00MHC008005K0	00MHC008005K0	IC	TC7WHU04FU(TE12	CVITC7WHU04FU
MAIN	IC27		943235002460S	943235002460S	IC	CDCE913PWR	CVICDCE913PWR
MAIN	IC31		90M-HC110060R	90M-HC110060R	IC	TC94A70FG CD DSP	CVITC94A70FG
MAIN	IC32		90M-HC109470R	90M-HC109470R	IC	TA2125AFG	HVITA2125AFG
MAIN	IC33		90M-HC900150R	90M-HC900150R	IC	KIA1117S/F33 REGULATOR(SOT-223)	CVIKIA1117S33
MAIN	IC34		90M-HC900160R	90M-HC900160R	IC	LM1117S15 REGULATOR(SOT-223)	CVIKIA1117S15
MAIN	JK41		90M-YT005310R	90M-YT005310R	OPT. CONN.	TOTX177L	HJSTOTX177L
MAIN	JK42		943646000840S	943646000840S	TERMINAL	CINCH 1P JACK BLACK	CJJ4M056W
MAIN	JK43		90M-YT003120R	90M-YT003120R	TERMINAL	CINCH 2P JE0200598N	CJJ4N036Z
MAIN	L251		90M-FN000260R	90M-FN000260R	EMI FILTER	HU-1H3216-121	CLZ91002Z
MAIN	L252		90M-FN000260R	90M-FN000260R	EMI FILTER	HU-1H3216-121	CLZ91002Z

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	
MAIN	L301		90M-FN000260R	90M-FN000260R	EMI FILTER	HU-1H3216-121	CLZ91002Z
MAIN	L302		90M-FN000260R	90M-FN000260R	EMI FILTER	HU-1H3216-121	CLZ91002Z
MAIN	L303		nsp	nsp	CHIP INDACT	FI-C3216-103KJT	HLQ09E100KRZ
MAIN	L401		90M-FN000260R	90M-FN000260R	EMI FILTER	HU-1H3216-121	CLZ91002Z
MAIN	Q201		90M-HX600010R	90M-HX600010R	CHIP TRS.	KRA102S	HVTKRA102S
MAIN	Q202		90M-HX600010R	90M-HX600010R	CHIP TRS.	KRA102S	HVTKRA102S
MAIN	Q301		90M-HX600020R	90M-HX600020R	CHIP TRS.	KTA1504S Y RTK	HVTKTA1504SYRTK
MAIN	Q401		90M-HX800100R	90M-HX800100R	CHIP TRS.	KTC3875S Y RTK	HVTKTC3875SYRTK
MAIN	Q402		90M-HX800100R	90M-HX800100R	CHIP TRS.	KTC3875S Y RTK	HVTKTC3875SYRTK
MAIN	Q431		00MHT600111B0	00MHT600111B0	TRS.	KTA1267Y	HVTKTA1267YT
MAIN	Q432		90M-HX800090R	90M-HX800090R	CHIP TRS.	KRC111S	HVTKRC111S
MAIN	Q433		90M-HX800090R	90M-HX800090R	CHIP TRS.	KRC111S	HVTKRC111S
MAIN	Q434		00MHT30001000	00MHT30001000	TRS.	KTC3199Y	HVTKTC3199YT
MAIN	R201		nsp	00MNN05104610	CHIP RES.	100K OHM 1/10W J	CRJ10DJ104T
MAIN	R202		nsp	00MNN05104610	CHIP RES.	100K OHM 1/10W J	CRJ10DJ104T
MAIN	R203		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R204		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
MAIN	R205		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
MAIN	R206		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
MAIN	R207		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
MAIN	R208		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
MAIN	R209		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
MAIN	R210		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R211		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R212		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
MAIN	R213		nsp	00MNN05101610	CHIP RES.	100 OHM 1/10W J	CRJ10DJ101T
MAIN	R214		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
MAIN	R251		nsp	00MNN05100610	CHIP RES.	10 OHM 1/10W J	CRJ10DJ100T
MAIN	R252		nsp	00MNN05100610	CHIP RES.	10 OHM 1/10W J	CRJ10DJ100T
MAIN	R253		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R254		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R257		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R258		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R259		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
MAIN	R260		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
MAIN	R261		nsp	00MNN05220610	CHIP RES.	22 OHM 1/10W J	CRJ10DJ220T
MAIN	R262		nsp	00MNN05271610	CHIP RES.	270 OHM +-5% 1/16W	CRJ10DJ271T
MAIN	R301		nsp	00MNN05222610	CHIP RES.	2.2K OHM 1/10W J	CRJ10DJ222T
MAIN	R302		nsp	00MNN05222610	CHIP RES.	2.2K OHM 1/10W J	CRJ10DJ222T
MAIN	R303		nsp	00MNN05222610	CHIP RES.	2.2K OHM 1/10W J	CRJ10DJ222T
MAIN	R304		nsp	00MNN05222610	CHIP RES.	2.2K OHM 1/10W J	CRJ10DJ222T
MAIN	R306		nsp	00MNN05104610	CHIP RES.	100K OHM 1/10W J	CRJ10DJ104T
MAIN	R307		nsp	00MNN05104610	CHIP RES.	100K OHM 1/10W J	CRJ10DJ104T
MAIN	R308		nsp	00MNN05104610	CHIP RES.	100K OHM 1/10W J	CRJ10DJ104T
MAIN	R309		nsp	00MNN05104610	CHIP RES.	100K OHM 1/10W J	CRJ10DJ104T
MAIN	R310		nsp	00MNN05153610	CHIP RES.	15K OHM 1/10W J	CRJ10DJ153T
MAIN	R311		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R312		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R313		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R314		nsp	00MNN05562610	CHIP RES.	5.6K OHM 1/10W J	CRJ10DJ562T
MAIN	R315		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T
MAIN	R316		nsp	00MNN05334610	CHIP RES.	330K OHM 1/10W J	CRJ10DJ334T
MAIN	R317		nsp	00MNN05154610	CHIP RES.	150K OHM 1/10W J	CRJ10DJ154T
MAIN	R318		nsp	00MNN05153610	CHIP RES.	15K OHM 1/10W J	CRJ10DJ153T
MAIN	R319		nsp	00MNN05223610	CHIP RES.	22K OHM 1/10W J	CRJ10DJ223T
MAIN	R320		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R321		nsp	00MNN05100610	CHIP RES.	10 OHM 1/10W J	CRJ10DJ100T
MAIN	R322		nsp	00MNN05183610	CHIP RES.	18K OHM 1/10W J	CRJ10DJ183T
MAIN	R323		nsp	00MNN05183610	CHIP RES.	18K OHM 1/10W J	CRJ10DJ183T
MAIN	R324		nsp	00MNN05183610	CHIP RES.	18K OHM 1/10W J	CRJ10DJ183T
MAIN	R325		nsp	00MNN05471610	CHIP RES.	470 OHM 1/10W J	CRJ10DJ471T
MAIN	R326		nsp	00MNN05822610	CHIP RES.	8.2K OHM 1/10W J	CRJ10DJ822T
MAIN	R327		nsp	00MNN05332610	CHIP RES.	3.3K OHM 1/10W J	CRJ10DJ332T
MAIN	R328		nsp	00MNN05221610	CHIP RES.	220 OHM 1/10W J	CRJ10DJ221T
MAIN	R329		nsp	00MNN05332610	CHIP RES.	3.3K OHM 1/10W J	CRJ10DJ332T
MAIN	R361		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R362		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T

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	
MAIN	R363		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R401		nsp	00MNN05221610	CHIP RES.	220 OHM 1/10W J	CRJ10DJ221T
MAIN	R403		nsp	00MNN05100610	CHIP RES.	10 OHM 1/10W J	CRJ10DJ100T
MAIN	R404		nsp	00MNN05220610	CHIP RES.	22 OHM 1/10W J	CRJ10DJ220T
MAIN	R405		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R406		nsp	00MNN05222610	CHIP RES.	2.2K OHM 1/10W J	CRJ10DJ222T
MAIN	R407		nsp	00MNN05182610	CHIP RES.	1.8K OHM 1/10W J	CRJ10DJ182T
MAIN	R408		nsp	00MNN05392610	CHIP RES.	3.9K OHM 1/10W J	CRJ10DJ392T
MAIN	R409		nsp	00MNN05221610	CHIP RES.	220 OHM 1/10W J	CRJ10DJ221T
MAIN	R410		nsp	00MNN05680610	CHIP RES.	68 OHM 1/10W J	CRJ10DJ680T
MAIN	R411		nsp	00MNN05104610	CHIP RES.	100K OHM 1/10W J	CRJ10DJ104T
MAIN	R412		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R413		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
MAIN	R414		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T
MAIN	R415		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T
MAIN	R416		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T
MAIN	R417		nsp	00MNN05183610	CHIP RES.	18K OHM 1/10W J	CRJ10DJ183T
MAIN	R418		nsp	00MNN05470610	CHIP RES.	47 OHM 1/10W J	CRJ10DJ470T
MAIN	R431		nsp	00MNN05122610	CHIP RES.	1.2K OHM 1/10W J	CRJ10DJ122T
MAIN	R432		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
MAIN	R433		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T
MAIN	R434		nsp	00MNN05472610	CHIP RES.	4.7K OHM 1/10W J	CRJ10DJ472T
MAIN	R435		nsp	00MNN05101610	CHIP RES.	100 OHM 1/10W J	CRJ10DJ101T
MAIN	R436		nsp	00MNN05153610	CHIP RES.	15K OHM 1/10W J	CRJ10DJ153T
MAIN	R437		nsp	00MNN05472610	CHIP RES.	4.7K OHM 1/10W J	CRJ10DJ472T
MAIN	R439		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T
MAIN	R440		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
MAIN	SW41		90M-SS000710R	90M-SS000710R	SW	SLIDE SWITCH	KSS2B016Z
MAIN	X201		90M-JX001100R	90M-JX001100R	X'TAL	20MHZ	HOX20000E220C
MAIN	X251		90M-JX001390R	90M-JX001390R	X'TAL	16.9344MHZ	HOX16934A120C
					POWER PWB (CUP12097Z-3)		
POWER	BK91		nsp	nsp	BRACKET	BRACKET FOR PWB	CMD1A569
POWER	BN44		nsp	nsp	CORD	WIRE ASSY	CWB1C903080BM
POWER	BN45		nsp	nsp	CORD	WIRE ASSY 13P 80MM	CWB1C913080EN
POWER	C903		nsp	00MOA22706320	ELECT CAP.	220UF 63V	CCEA1JH221E
POWER	C904		nsp	nsp	FILM CAP.	0.1UF 100V	CCUMT2A104KB
POWER	C905		nsp	00MOA22505020	ELECT CAP.	2.2UF 50V	CCEA1HH2R2T
POWER	C906		nsp	00MOA10605020	ELECT CAP.	10UF 50V	CCEA1HH100T
POWER	C907		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
POWER	C908		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
POWER	C909		nsp	90M-OA000560R	ELECT CAP.	4700UF 35V 16X30	CCEA1VH472E
POWER	C910		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
POWER	C911		nsp	00MOA47701620	ELECT CAP.	470UF 16V ZF	CCEA1CH471T
POWER	C912		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
POWER	C913		nsp	00MOA10802520	ELECT CAP.	1000UF 25V	CCEA1EH102E
POWER	C914		nsp	nsp	CER. CAP.	0.022UF 50V Z CERAMIC	CCBS1H223ZFT
POWER	C915		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
POWER	C916		nsp	00MOA47701620	ELECT CAP.	470UF 16V ZF	CCEA1CH471T
POWER	C917		nsp	00MOA33802520	ELECT CAP.	3300UF 25V	CCEA1EH332E
POWER	C918		nsp	00MOA47701620	ELECT CAP.	470UF 16V ZF	CCEA1CH471T
POWER	C919		nsp	00MOA33802520	ELECT CAP.	3300UF 25V	CCEA1EH332E
POWER	C920		nsp	00MOA47701620	ELECT CAP.	470UF 16V ZF	CCEA1CH471T
POWER	C922		nsp	00MOA10702520	ELECT CAP.	100UF 25V	CCEA1EH101T
POWER	C923		nsp	00MOA10702520	ELECT CAP.	100UF 25V	CCEA1EH101T
POWER	⚠ C924		90M-DK100770R	90M-DK100770R	CER. CAP.	! 0.0047UF 2.5KV CERAMIC	KCKDKS472ME
POWER	CN91		nsp	nsp	CONN.	7.92MM(YUNHO)	CJP02KA060ZY
POWER	CN92		nsp	nsp	CONN.	2P WAFER	CJP02GA89ZY
POWER	CN93		nsp	nsp	CONN.	7P STRAIGHT 20017WS-07	CJP07GA19ZY
POWER	CN94		nsp	nsp	CONN.	3P STRAIGHT YMW025-03R	CJP03GA01ZY
POWER	D901		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D902		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D903		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D904		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D905		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D906		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D907		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D908		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST

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	
POWER	D909		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D910		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D911		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D912		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D913		nsp	90M-HD201730R	DIODE	1N4003	CVD1N4003ST
POWER	D914		90M-HD302470R	90M-HD302470R	ZENER DIODE	ZJ6.2B 1/2W	CVDZJ6.2BT
POWER	D915		90M-HD302430R	90M-HD302430R	ZENER DIODE	ZJ36B	CVDZJ36BT
POWER	D916		90M-HD302460R	90M-HD302460R	ZENER DIODE	ZJ5.6B 1/2W	CVDZJ5.6BT
POWER	D917		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
POWER	D918		nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
POWER	D920	F B	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D920	F N	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D920	/K1SG	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D920	/N1B	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D920	/N1SG	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D920	/U1B	nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
POWER	D921	F B	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D921	F N	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D921	/K1SG	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D921	/N1B	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D921	/N1SG	nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	D921	/U1B	nsp	00MHD20015210	DIODE	1SS133T-77	CVD1SS133MT
POWER	⚠ F901	F B	nsp	90M-FS001370R	FUSE	! 250V T 0.63A	KBA2C0630TLEY
POWER	⚠ F901	F N	nsp	90M-FS001370R	FUSE	! 250V T 0.63A	KBA2C0630TLEY
POWER	⚠ F901	/K1SG	nsp	90M-FS001260R	FUSE	! T 315MA L 250V	KBA2C0315TLEY
POWER	⚠ F901	/N1B	90M-FS001260R	90M-FS001260R	FUSE	! T 315MA L 250V	KBA2C0315TLEY
POWER	⚠ F901	/N1SG	90M-FS001260R	90M-FS001260R	FUSE	! T 315MA L 250V	KBA2C0315TLEY
POWER	⚠ F901	/U1B	nsp	90M-FS001370R	FUSE	! 250V T 0.63A	KBA2C0630TLEY
POWER	HF91		nsp	nsp	CONN.	HOLDER FUSE	KJCFC5S
POWER	HF92		nsp	nsp	CONN.	HOLDER FUSE	KJCFC5S
POWER	IC91		90M-HC300780R	90M-HC300780R	IC	KIA7808API	HVIKIA7808API
POWER	IC92		00MHC3890599F	00MHC3890599F	IC	KIA7805API	HVIKIA7805API
POWER	IC93		00MHC3991209F	00MHC3991209F	IC	KIA7912PI	HVIKIA7912PI
POWER	IC94		00MHC3891299F	00MHC3891299F	IC	KIA7812API	HVIKIA7812API
POWER	J904		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J905		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J906		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J907		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J908		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J909		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J910		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J911		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J912		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J913		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J914		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J915		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J916		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J917		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J918		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J919		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J920		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J923		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J924		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J925		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J926		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J927		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J928		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	J998		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
POWER	Q901		90M-HT800040R	90M-HT800040R	TRS.	KSC2316Y	HVTKSC2316YT
POWER	Q902		90M-HT800040R	90M-HT800040R	TRS.	KSC2316Y	HVTKSC2316YT
POWER	⚠ Q903		00MHT327851H0	00MHT327851H0	TRS.	! KSC2785Y	HVTKSC2785YT
POWER	R901		nsp	nsp	RES.	100 OHM 1/6W J CARBON	CRD20TJ101T
POWER	R902		nsp	nsp	RES.	100 OHM 1/6W J CARBON	CRD20TJ101T
POWER	R903		nsp	nsp	RES.	22K OHM 1/6W J CARBON	CRD20TJ223T
POWER	R904		nsp	nsp	RES.	1K OHM 1/6W J CARBON	CRD20TJ102T
POWER	R905		nsp	nsp	RES.	3.3K OHM 1/6W J CARBON	CRD20TJ332T
POWER	R906		nsp	nsp	RES.	12K OHM 1/6W J CARBON	CRD20TJ123T

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	
POWER	R907		nsp	nsp	RES.	47K OHM 1/6W J CARBON	CRD20TJ473T
POWER	R908		nsp	nsp	RES.	1K OHM 1/6W J CARBON	CRD20TJ102T
POWER	R910		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
POWER	R911		nsp	nsp	RES.	3.3K OHM 1/6W J CARBON	CRD20TJ332T
POWER	R913		nsp	nsp	RES.	1 OHM 1/6W J CARBON	CRD20TJ1R0T
POWER	⚠ RY91		90M-LY000340R	90M-LY000340R	RELAY	! SDT-S-112DMR	HSL1A008ZE
POWER	⚠ T902	F B	nsp	943101002390M	TRANSF.	! TRANSF. SUB CD5003 F	CLT5I012ZJ
POWER	⚠ T902	F N	nsp	943101002390M	TRANSF.	! TRANSF. SUB CD5003 F	CLT5I012ZJ
POWER	⚠ T902	/K1SG	nsp	943101002400M	TRANSF.	! TRANSF. SUB CD5003 N	CLT5I012ZE
POWER	⚠ T902	/N1B	943101002400M	943101002400M	TRANSF.	! TRANSF. SUB CD5003 N	CLT5I012ZE
POWER	⚠ T902	/N1SG	943101002400M	943101002400M	TRANSF.	! TRANSF. SUB CD5003 N	CLT5I012ZE
POWER	⚠ T902	/U1B	nsp	943101002410M	TRANSF.	! TRANSF. SUB CD5003 U	CLT5I012ZU
					TACT SW PWB (CUP12097Z-5)		
TACT	C506		nsp	nsp	CER. CAP.	0.1UF 50V Z CERAMIC	CCBS1H104ZFT
TACT	CN51		nsp	nsp	CONN.	5P WAFER 20017WR-05	CJP05GB46ZY
TACT	D501		263710016400S	263710016400S	L.E.D.	SLI-325URT31W TP	CVDSLI325URT31WT055
TACT	J534		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
TACT	J535		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
TACT	JW51		nsp	nsp	CORD	WIRE ASSY	CWE7202100AR
TACT	Q501		90M-BA001460R	90M-BA001460R	TRS.	KRC107M	HVTKRC107MT
TACT	R501		nsp	nsp	RES.	1.8K OHM 1/6W J CARBON	CRD20TJ182T
TACT	R502		nsp	nsp	RES.	10K OHM 1/6W J CARBON	CRD20TJ103T
TACT	S501		90M-SP001400R	90M-SP001400R	PUSH SW	TACT SW EVQ22505R	CST1A023ZT
					TRANSF. SW PWB (CUP12097Z-7)		
TRANSF	BN92		nsp	nsp	CORD	WIRE ASSY 2P 250MM	CWB4F932250UZ
TRANSF	BN93		nsp	nsp	CORD	WIRE ASSY 7P 80MM	CWB1C907080EN
TRANSF	BN94		nsp	nsp	CORD	WIRE ASSY	CWB1C903080BM
TRANSF	J999		nsp	nsp	CORD	SN95/PB5 0.6	C3A206
TRANSF	⚠ T901	F B	nsp	90M-TS002520R	TRANSF.	! POWER TRANSF. (DM)	CLT5M025YJ
TRANSF	⚠ T901	F N	nsp	90M-TS002520R	TRANSF.	! POWER TRANSF. (DM)	CLT5M025YJ
TRANSF	⚠ T901	/K1SG	nsp	90M-TS002510R	TRANSF.	! POWER TRANSF. (EUR/UK)	CLT5M025YE
TRANSF	⚠ T901	/N1B	90M-TS002510R	90M-TS002510R	TRANSF.	! POWER TRANSF. (EUR/UK)	CLT5M025YE
TRANSF	⚠ T901	/N1SG	90M-TS002510R	90M-TS002510R	TRANSF.	! POWER TRANSF. (EUR/UK)	CLT5M025YE
TRANSF	⚠ T901	/U1B	nsp	90M-TS002530R	TRANSF.	! POWER TRANSF. (TC)	CLT5M025YU

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
MAIN	IC21	T5CD2(F AAD JZ) CD5003	**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
MAIN	IC21	T5CD2(F AAD JZ) CD5003	**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。