

Service Manual

SC-7S2 /F N/K1G/N1G/U1G

Stereo Control Amplifier

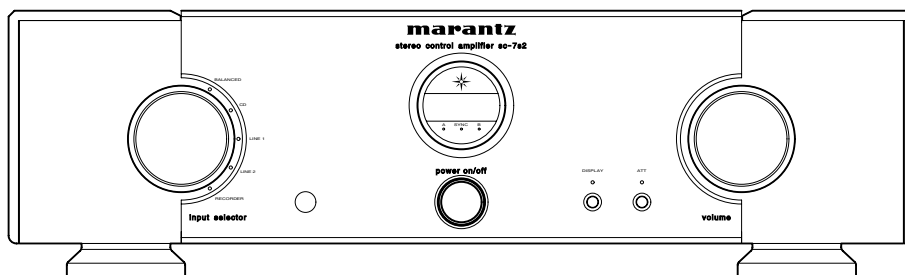


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Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

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SC-7S2

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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

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

CANADA

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

AUSTRALIA

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

THAILAND

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

SINGAPORE

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

NEW ZEALAND

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

TAIWAN

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

MALAYSIA

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

JAPAN

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

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

CHINA

MARANTZ SHANGHAI TRADING LTD.
ROOM.506 SHANGHAI LIGHT INDUSTRY MANSION
1578 NANJING (WEST) ROAD SHANGHAI
CHINA
TEL : 021 - 6248 - 1064
FAX : 021 - 6248 - 3565

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. 6500.

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

1. TECHNICAL SPECIFICATIONS

Audio Characteristics

Rated Output (20Hz - 20kHz)	1.7V (Balanced)
	1.7V (Unbalanced)
Maximum Output (20Hz - 20kHz)	13.5V (Balanced)
	13.5V (Unbalanced)
Total Harmonic Distortion (20Hz - 20kHz)	0.0015% (Balanced)
	0.003% (Unbalanced)
Frequency Response (+0/-3dB)	3 Hz - 150 kHz(Balanced)
	3 Hz - 150 kHz(Unbalanced)
Input Sensitivity / Input Impedance	420mV / 20kΩ(Balanced)
	420mV / 20kΩ(Unbalanced)
Output Impedance	70Ω(Balanced)
	70Ω(Unbalanced)
Signal-to-Noise Ratio (IHF-A Network)	105dB(Balanced)
	108dB(Unbalanced)
Channel Separation (20kHz)	100dB(Balanced)
	100dB(Unbalanced)
Volume Adjustment Range	-∞, -100 - 0dB(0.5dB step)
Trim Level Adjustment Range	±6dB(0.5dB step)
Attenuator Levels	-20, -40, -60, -∞dB

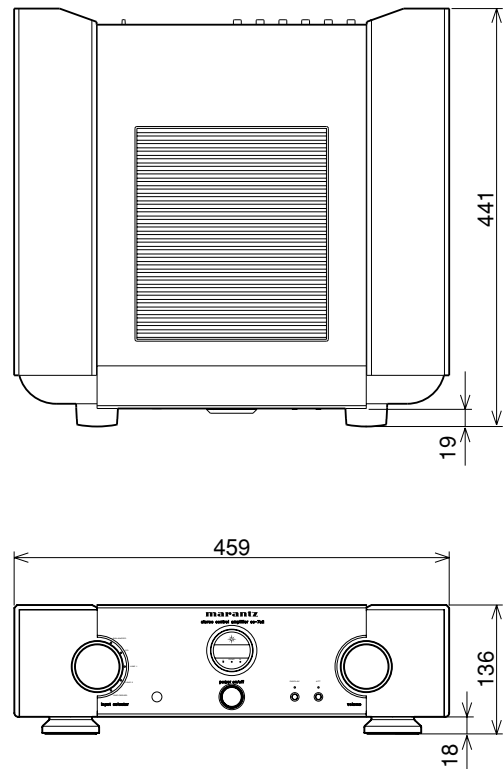
Power Supply

Power Requirement	
[F]	AC 100V 50/60Hz
[K]	AC 220V 50/60Hz
[N]	AC 230V 50Hz
[U]	AC 120V 60Hz
Power Consumption	
[F]	18 W
[K]	20W
[N]	20W (0.1A)
[U]	20W (0.2A)

General

Maximum Dimensions	459(W) x 136(H) x 441 (D) mm
Weight	21.8kg

DIMENSIONS



Unit: mm

2. CAUTION

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

1. When screws and washers are removed, those parts must be set to the same places.
2. When wires are removed, the wires must be installed in the same roots, same places.
3. Do not hold the side panels (001D, 002D) to move the unit when the unit is disassembled.

2. 注意

当機は音質を考慮したレイアウトになっています。

1. ネジやワッシャ類を取り外した場合、元の位置に取り付けてください。
2. ワイヤ類を取り外した場合の配線ルートは、元のルート通りに戻してください。
3. 当機を分解した状態で移動するときは、サイドパネル(001D, 002D)を持たないでください。

3. SERVICE MODE

1. To enter the Service Mode, press the **POWER** switch with pressing the **DISPLAY** and **ATT** buttons on the main unit to switch power ON, or when the remote code "**166363**" is received while power is ON.
2. The version number is displayed as "xxx" on the 7-segment LED.
The Light-up LED is lit (other LEDs lit off).
"xxx" means version x.xx.
3. Press the **ATT** button to light the LEDs one by one (except the Light-up LED which is always lit) , and "LEd" is displayed.
4. Press the **ATT** button to light each 7-segment LED one by one.
All LEDs (including the Light-up LED) are lit off.
5. Press the **ATT** button to light all the 7-segment LEDs and the LEDs.
6. Press the **ATT** button to display the ID number.
If the ID number switch on the rear panel is changed, the displayed ID number also changes (polling at 250ms intervals).
7. Press the **ATT** button to display "BUS", one second after followed by "BOK" or "BNG".
"BNG" is displayed if the unit is unable to receive the command that has issued by the unit itself.
"BOK" is displayed if the unit is able to receive the command that has issued by the unit itself.
The circuit is designed to go through the command, so "BOK" is displayed even if the remote cable is not connected. "BNG" is displayed when the cable is in a closed-loop and the unit is the Master , or when the cable is not connected and the unit is a Slave.
8. Press the **ATT** button to display "Uol".
The display changes to "Up" if the Volume knob is turned clockwise, and to "dUn" if it is turned counter-clockwise.
9. Press the **ATT** button to display "SEI".
When the **INPUT SELECTOR** is changed the corresponding LED is lit.
10. Press the **ATT** button to display "Att".
The corresponding text is displayed for the operation buttons and knobs as shown below.

3. SERVICE MODE

1. 本体の**DISPLAY**ボタンと**ATT**ボタンを押しながら、**POWER**スイッチを押して電源をONにしてください。
または、電源ON中にリモコンコード "**166363**" を受信した時。
これでサービスモードに入ります。
2. 7-Seg. LEDにバージョンが[x.xx]と表示されます。
ライトアップLEDのみ点灯(その他のLEDは消灯)
[xxx]はVersion x.xxの意味
3. 次に**ATT**ボタンを押すとLEDが順次点灯し、ディスプレイには[LEd]と表示されます。
対象はライトアップLED以外(ライトアップLEDは常時点灯)
4. 次に**ATT**ボタンを押すと7-Seg LEDが順次点灯表示されます。
ライトアップLEDを含む全てのLEDは消灯
5. 次に**ATT**ボタンを押すと7-Seg LED及びLEDが全点灯します。
6. 次に**ATT**ボタンを押すとディスプレイにID No.が表示されます。
この時にリアパネルのID No.スイッチを切換えると、対応したID No.の表示に切り替わります。(250msでのポーリング判定)
7. 次に**ATT**ボタンを押すとディスプレイに[BUS]と表示され、1秒後に[BOK]または[BNG]と表示されます。
[BNG]自己発行コマンドを受信できなかった場合。
[BOK]自己発行コマンドを受信できた場合。
回路的にスルー機能を有しているの、リモートケーブルを接続しなくても[BOK]となる。[BNG]となるのはMaster時にケーブルを自己ループした場合、または、Slave時にケーブルを接続していない場合。
8. 次に**ATT**ボタンを押すとディスプレイに[Uol]と表示されます。
Volumeつまみを時計方向に回すと表示が[Up]に切り、半時計方向に回すと表示は[dUn]に切り替わります。
9. 次に**ATT**ボタンを押すとディスプレイに[SEI]と表示されます。
この時、INPUT SELECTORを切換えると対応したLEDが点灯します。
10. 次に**ATT**ボタンを押すとディスプレイに[Att]と表示されます。
この時、以下の表のとおり、操作ボタン及びつまみに対応した文字を表示します。

Unit	Button	Displayed text	7-Seg
Front	Display	DSP	dSp
Front	ATT	ATT	Att
RC	PHONO	RC	rC
RC	BALANCE	RC	rC
RC	CD	RC	rC
RC	LINE 1	RC	rC
RC	LINE 2	RC	rC
RC	RECORDER 1	RC	rC
RC	RECORDER 2	RC	rC
RC	Volume UP	RC	rC
RC	Volume Down	RC	rC
RC	ATT	RC	rC
RC	Display	RC	rC
RC	Trim	RC	rC
RC	EXIT	RC	rC
RC	Up	RC	rC
RC	Down	RC	rC
RC	Right	RC	rC
RC	Left	RC	rC

11. This completes all the tests. Press the **DISPLAY** and **ATT** buttons to return to Step1., or press the **POWER** switch to turn power OFF.

- Note that the Service Mode is terminated if power is turned OFF at any point during steps 1. to 10.
- When the Service Mode is terminated the memory is cleared and the system is initialized.

The Input Selector, Volume level, ATT level, and TRIM level are stored in memory, therefore use this Service Mode to initialize the system.

[Microcomputer Initial Setup]

Input Selector : CD
Volume : -∞
TRIM setup value : +/-0dB (for channels A and B)
ATT setup value : -20dB

11.これで確認が全て終了しましたので、さらに**DISPLAY**ボタン、**ATT**ボタンを押して1に戻るか**POWER**スイッチを押して電源を**OFF**にしてください。

- 上記1～10のどのステージにおいても電源を**OFF**するとサービスモードは終了します。
- サービスモードを終了するとメモリーはオールクリアーされ初期状態に戻ります。

Input Selector、Volumeレベル、ATTレベル、TRIMレベルなどはメモリーされていますので、初期状態に戻すには、サービスモードを使用します。

[マイコン初期設定]

Input Selector : CD
Volume : -∞
TRIM設定値 : ±0 dB (A ch / B ch共)
ATT設定値 : -20 dB

REMOTE COMMANDS TABLE

No.	Button name		RC code	Operation details	動作内容
1	BALANCED	[BALANCE]	16 00 20	Select balanced input terminal	BALANCED入力端子選択
2	SACD/CD	[CD]	20 63	Select SACD/CD input terminal	SACD/CD入力端子選択
3	LINE-1	[AUX 1]	16 00 06	Select Line-1 input terminal	LINE-1入力端子選択
4	LINE-2	[AUX 2]	16 00 07	Select Line-2 input terminal	LINE-2入力端子選択
5	TAPE	[TAPE]	18 63	Select Tape input terminal	TAPE入力端子選択
6	VOLUME UP	[VOL+]	16 16	Master Volume UP	Master Volume UP
7	VOLUME DOWN	[VOL-]	16 17	Master Volume DOWN	Master Volume DOWN
8	ATT	[MUTE]	16 13 (toggle)	The value that subtracted the ATT value from the Vol. value. Press again to return to the original setup value.	Vol.値からATT設定値を引いた値にする。 再度押すと元の設定値に戻る。
9	TRIM SELECT	[CH SEL]	16 37 33	Change TRIM Mode/TRIM setup unit.	TRIMモード/TRIM設定機変更
10	EXIT	[MENU OFF]	16 83	Exit from TRIM Mode.	Exit from TRIMモード
11	A-TRIM UP	[Lch level+]	16 26 01	In TRIM mode: TRIM level UP	TRIMモード時: TRIMレベルUP
12	A-TRIM DOWN	[Lch level-]	16 26 02	In TRIM mode: TRIM level DOWN	TRIMモード時: TRIMレベルDOWN
13	B-TRIM UP	[Rch level+]	16 26 03	In TRIM mode: TRIM level UP	TRIMモード時: TRIMレベルUP
14	B-TRIM DOWN	[Rch level-]	16 26 04	In TRIM mode: TRIM level DOWN	TRIMモード時: TRIMレベルDOWN

Error Messages

Switch power OFF if any of the following error messages are displayed while multiple units are in use and connected to the bus via the remote terminal.

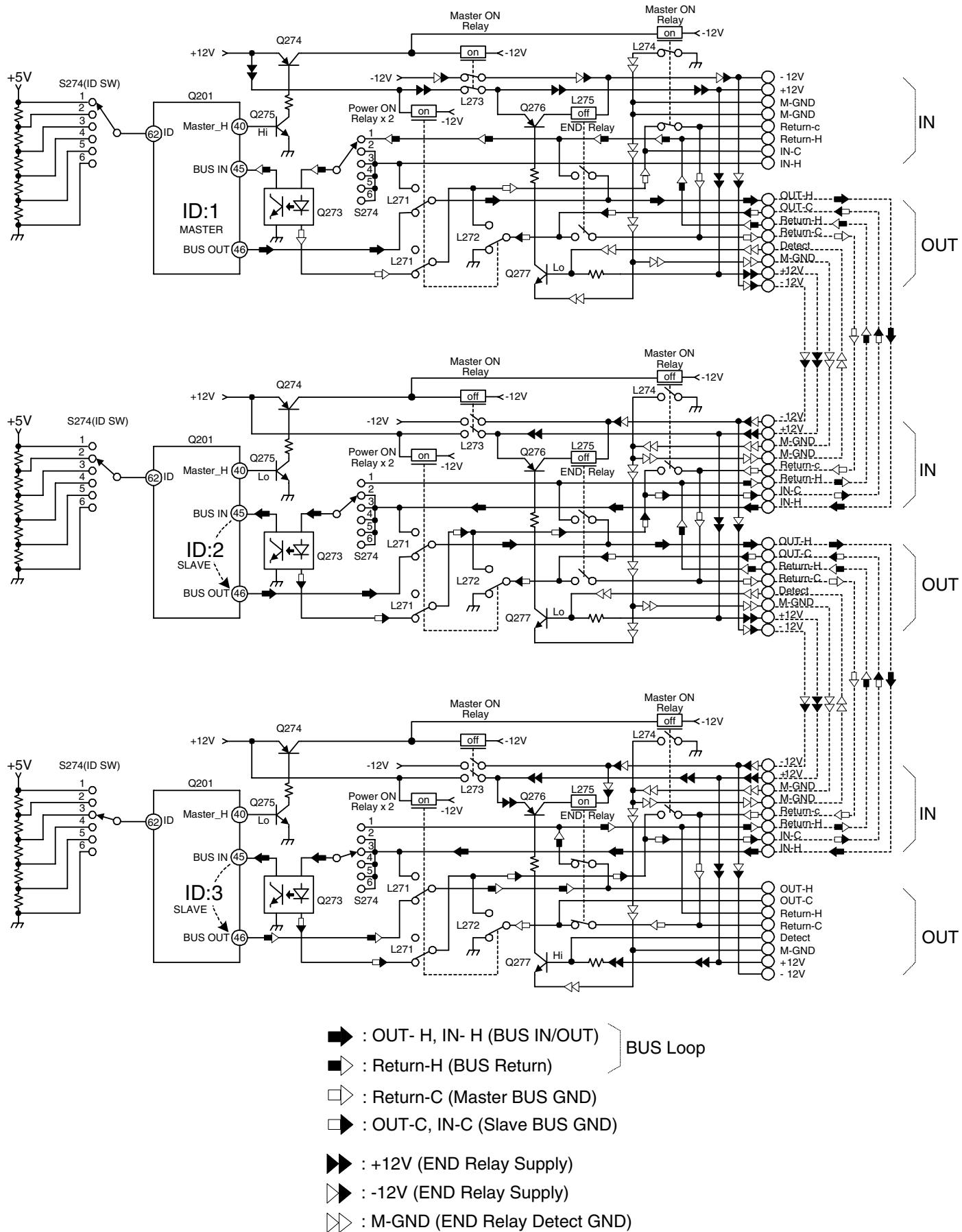
	Error code	Meaning	Measures required
1	E02	Multiple units set for ID No.2.	Change the ID number on the ID number selector switch to avoid duplication.
2	E03	Multiple units set for ID No.3.	
3	E04	Multiple units set for ID No.4.	
4	E05	Multiple units set for ID No.5.	
5	E06	Multiple units set for ID No.6.	
6	E07	Communication between ID No.1 (Master) and ID No.2 to 6 (Slave) impossible.	Check IN and OUT, and make sure that the bus connection cable is inserted correctly.
7	E08	Multiple units set for ID No.1 (Master).	Change the ID number on the ID number selector switch to avoid duplication.

エラーメッセージ

リモートコントロール端子を用いてバス接続し、本機を複数台使用した時に、以下のようなエラー表示が出たら電源をOFFにして、下の表にしたがって確認してください。

	表示	意味	対策
1	E02	ID No.2に設定された本機が複数台あります。	ID No.が重複しないようにID No.切替スイッチを設定し直してください。
2	E03	ID No.3に設定された本機が複数台あります。	
3	E04	ID No.4に設定された本機が複数台あります。	
4	E05	ID No.5に設定された本機が複数台あります。	
5	E06	ID No.6に設定された本機が複数台あります。	
6	E11	ID No.1（マスター）とID No.2~6（スレーブ）との間で通信できなかった。	IN, OUTを確認しバス接続ケーブルを確実に差し込んでください。
7	E12	ID No.1（マスター）に設定された本機が複数台あります。	ID No.が重複しないようにID No.切替スイッチを設定し直してください。

Bus Connection System Data Flow



4. UPDATE FIRMWARE

[A] SOFTWARE (fdtv306r00.exe) DOWNLOADS AND INSTALLS PROCEDURE

[A-1] DOWNLOADS OF THE SOFTWARE

(Flash Development Toolkit: the rest is FDT)

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

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

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

3. Click the **GLOBAL SITE**.

4. UPDATE FIRMWARE

[A] SOFTWARE (fdtv306r00.exe) DOWNLOADS AND INSTALLS PROCEDURE

[A-1] DOWNLOADS OF THE SOFTWARE

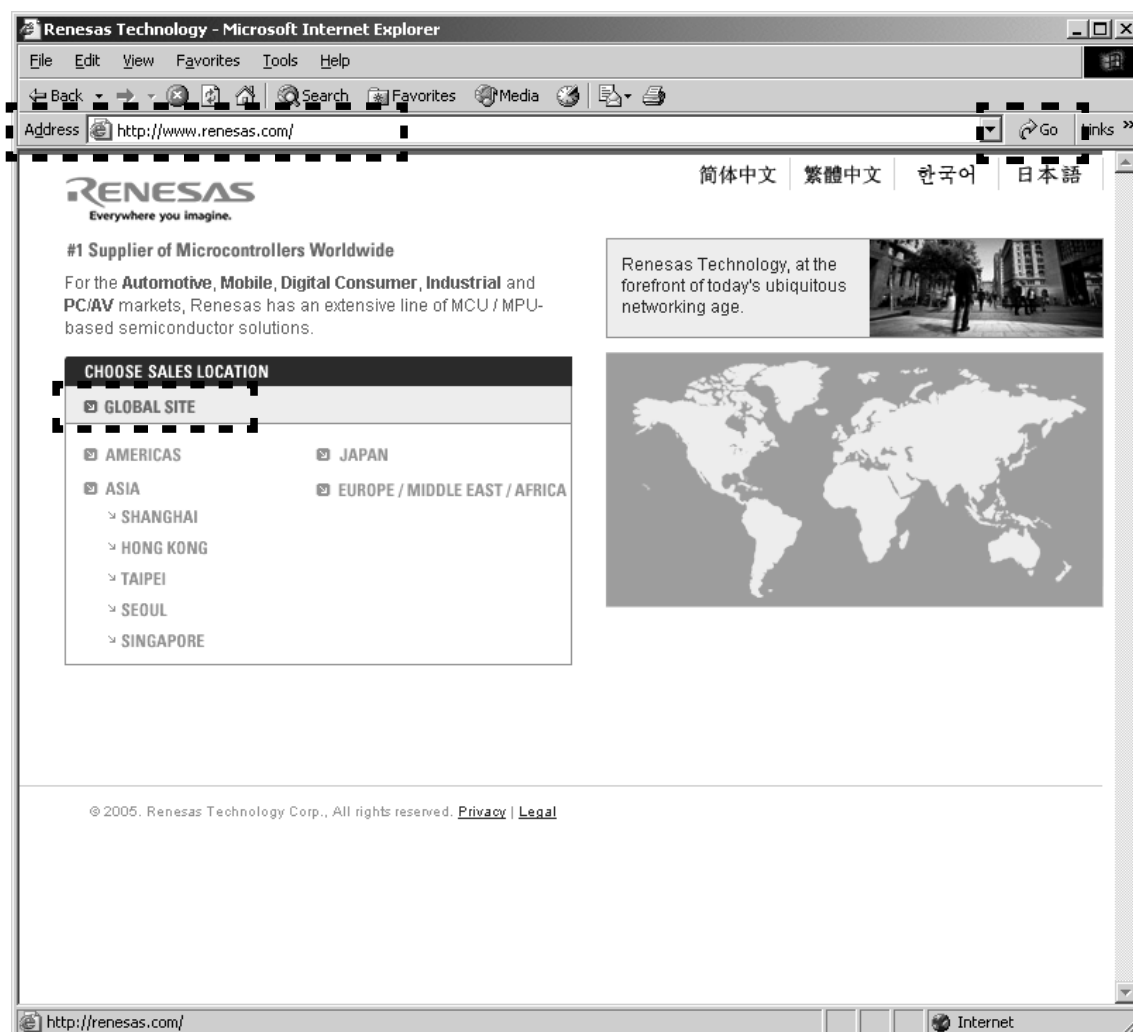
(Flash Development Toolkit: 以下 FDT)

マイコンの書き込み用ソフトウェア(FDT)をダウンロードします。

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

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

3. **GLOBAL SITE**をクリックします。



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

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



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

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

GLOBAL SITE

RENESAS
Everywhere you imagine

myRenesas is a personalizable area that allows users to register to receive via email specific Renesas product and company information.

Login

Use your profile information to complete this form and help us respond to you more directly.

* Indicates Required Fields

* Login ID:

* Password:

Submit

Forgot your Login Details?

Forgot your Password? [Click Here](#)

New User?

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

6. Choose **Non Secure** or **Secure** in Security Level at your network environment.
Choose **English** or **another one** in Region and Language.

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

GLOBAL SITE

RENEASAS
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Select Region

Choose Security Level

☒ Non Secure ☐ Secure

Choose Region and Language

Shanghai	English	简体中文	繁體中文
Hong Kong	English	简体中文	繁體中文
Seoul	English	한국어	
Singapore, Australia, India, Indonesia, Malaysia, Thailand, Vietnam, New Zealand & Philippines	English		
Taipei	English	繁體中文	
Japan	日本語		
Europe, Middle East, Africa	English		
North America	English		

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Done Internet

7. Input the each item.

NOTE : The items displayed by a language and region are different.

7. 各項目を記入します。

注意：下記説明は英語ですが、日本語を選んだ場合日本語で表示されます。

The screenshot shows a Microsoft Internet Explorer browser window with the address bar displaying `http://update.renesas.com//registration/forms/register0.do?action=register0&language=en®ion=na`. The page content includes the Renesas logo and the heading "Account Registration". Below the heading, a message states: "To register for Renesas.com, please provide the following information." A list of required fields follows, each marked with an asterisk (*). The fields are: Title (a dropdown menu with "Mr." selected), * Given Name / First Name, * Family Name / Last Name, * Email Address, * Company Name, * Job Title, Address 1, Address 2, City, State, * Country / Region (a dropdown menu with "Select Country/Region" selected), Postal Code, * Phone Number, and * Select Login ID. A legend indicates that the asterisk (*) denotes required fields. The browser's status bar at the bottom shows "Done" and "Internet".

GLOBAL SITE

RENEASAS
Everywhere you imagine

Account Registration

To register for Renesas.com, please provide the following information.

* Indicates Required Fields

Title: Mr.

* Given Name / First Name:

* Family Name / Last Name:

* Email Address:

* Company Name:

* Job Title:

Address 1:

Address 2:

City:

State:

* Country / Region: Select Country/Region

Postal Code:

* Phone Number:

* Select Login ID:

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

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

The screenshot shows a web browser window titled "Renesas.com | Update - Microsoft Internet Explorer". The address bar displays the URL: <http://update.renesas.com/registration/forms/register0.do?action=register0&language=en®ion=na>. The form contains the following fields and options:

- City:
- State:
- * Country / Region:
- Postal Code:
- * Phone Number:
- * Select Login ID:
- * Select Password:
- * Password (confirm):
- * Password Hint:
- * Answer:

Below the form fields, there are three checkboxes:

- ☐ Do not supply my information to authorized distributors.
- ☒ Renesas may use the e-mail address I have provided above to send me marketing promotions and news updates.
- ☐ Renesas Sales can contact me.

Registration Agreement
Do you allow Renesas to process and store the information you submit in accordance with the Renesas Privacy Policy? [Click Here](#)

☐ I Disagree ☒ I Agree

Submit

At the bottom of the form, there is a logo for "EU REVIEWED BY TRUSTe" with the text "site privacy statement".

The footer of the browser window includes links for "Legal" and "Privacy", the copyright notice "© 2006 RENESAS TECHNOLOGY CORPORATION, ALL RIGHTS RESERVED.", and a status bar showing "Done" and "Internet".

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

9. このページは入力しなくても結構です。
ページをスクロールダウンします。

GLOBAL SITE

RENESAS
Everywhere you imagine

Content Subscription

Select a set of products and add them to your subscription list using the pull downs below. Select "ALL" in a pull down to subscribe to all newsletters related to a topic. Select "NONE" to subscribe to high-level information about a topic only.

Category:

Family:

Series:

Group:

Subscribed Products

Category	Family	Series	Group
Empty			

Applications / System Solutions

- ☐ Digital Home Electronics
- ☐ Automotive
- ☐ Network
- ☐ Wireless

10. Click the **Submit**.

10.送信をクリックします。

Renesas.com | Update - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address <http://update.renesas.com/registration/register1.do> Go Links

Category:

Family:

Series:

Group: **Add**

Subscribed Products

Category	Family	Series	Group
Empty			

Applications / System Solutions

☐ Digital Home Electronics

☐ Automotive

☐ Network

☐ Wireless

Other

☐ News and Events

☐ Press Releases

Submit

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Done Internet

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

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

GLOBAL SITE

RENESAS
Everywhere you imagine

Login

Please login to proceed Download Process.

* Indicates Required Fields

* Login ID:

* Password:

Submit

Forgot your Login Details?

Forgot your Password? [Click Here](#)

New User?

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

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

Done Internet

12.Registration is finished.
13.Open the RENESAS top page from registration page.

12.登録が完了します。
13.登録ページに有るリンクからRENESASのトップページに
移動します。

14. Click the **GLOBAL SITE**.

14. **GLOBAL SITE**をクリックします。



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

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



16. Type the "Flash Development toolkit" into the Download Title.
And click the **Start Search**.

16.Download Titleに"Flash Development toolkit"を入力します。
Start Searchをクリックします。

The screenshot shows the Renesas Technology Download Search page. The browser window title is "Renesas Technology - Download Search - Microsoft Internet Explorer". The address bar shows the URL: http://www.renesas.com/fmwk.jsp?cnt=/download_search.jsp&fp=/support/downloads&site=i. The page features the Renesas logo and navigation links: [PRODUCTS](#), [APPLICATIONS](#), and [SUPPORT](#). There are search boxes for "Enter a Keyword" and "Enter a Part No.", both with "GO" buttons. Below these are links for "Parametric Search" and "Document Library". The main content area is titled "Download Search" and contains a search form. The form has the following fields: "Product Name:" (text input), "Download Title:" (text input, highlighted with a dashed box), "Issue Date:" (text input), and "Revision Date:" (text input). Below these fields are two dropdown menus: "Products:" and "Category:", both with "select" buttons. At the bottom of the form are two buttons: "Start Search" and "reset", both highlighted with a dashed box. The footer contains the copyright notice: "© 2006 Renesas Technology Corp. All rights reserved." and links for "Privacy", "Legal", and "Sitemap".

17. Click the **Flash Development Toolkit** of the top on the table.

NOTE : The latest edition is FDT V3.06 at present. (July, 2006) It is in FDT V3.06 as follows and explains it.

17. 検索結果の一番上の**Flash Development Toolkit**をクリックします。

注意 : 現時点(2006年7月)での最新バージョンは**V3.06**になります。以下FDT V3.06で説明します。

The screenshot shows the Renesas Technology website's download search results page. The browser window title is "Renesas Technology - Download Search Results - Microsoft Internet Explorer". The address bar shows the URL: http://www.renesas.com/fmwk.jsp?cnt=/download_search_results.jsp&fp=/support/downloads/download_results&site=. The page features the Renesas logo and navigation links for PRODUCTS, APPLICATIONS, and SUPPORT. The search results are displayed in a table with columns for Product Name, Download Title, Issue Date, and Comments.

Product Name	Download Title	Issue Date	Comments
Flash Development Toolkit	Flash Development Toolkit V.3.06 Release 00 Evaluation Software	2006-05-22	Login ID and password are required to access this SW.
Flash Development Toolkit	Flash Development Toolkit Ver. 2.0.001	2005-11-10	
Flash Development Toolkit	Flash Development Toolkit Ver. 2.1	2005-11-10	
Flash Development Toolkit	Flash Development Toolkit Ver. 2.2	2005-11-10	
Flash Development Toolkit	Flash Development Toolkit Ver. 2.2.001	2005-11-10	
Flash Development Toolkit	Flash Development Toolkit Ver. 2.2.003	2005-11-10	
Flash Development Toolkit	Flash Development Toolkit Ver. 2.2.004	2005-11-10	
Flash Development Toolkit	Flash Development Toolkit Ver. 2.2.005	2005-11-10	This is the latest version for the Flash Development Toolkit Ver.2.xx. Upgrading to this latest version from any version of the Flash Development Toolkit Ver2 is available.
Flash Development Toolkit	Flash Development Toolkit Ver. 2.2.006	2006-11-10	This latest version is V3.06 Release 00.

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

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

GLOBAL SITE

RENESAS
Everywhere you imagine

Login

Please login to proceed Download Process.

* Indicates Required Fields

* Login ID:

* Password:

Submit

Forgot your Login Details?

Forgot your Password? [Click Here](#)

New User?

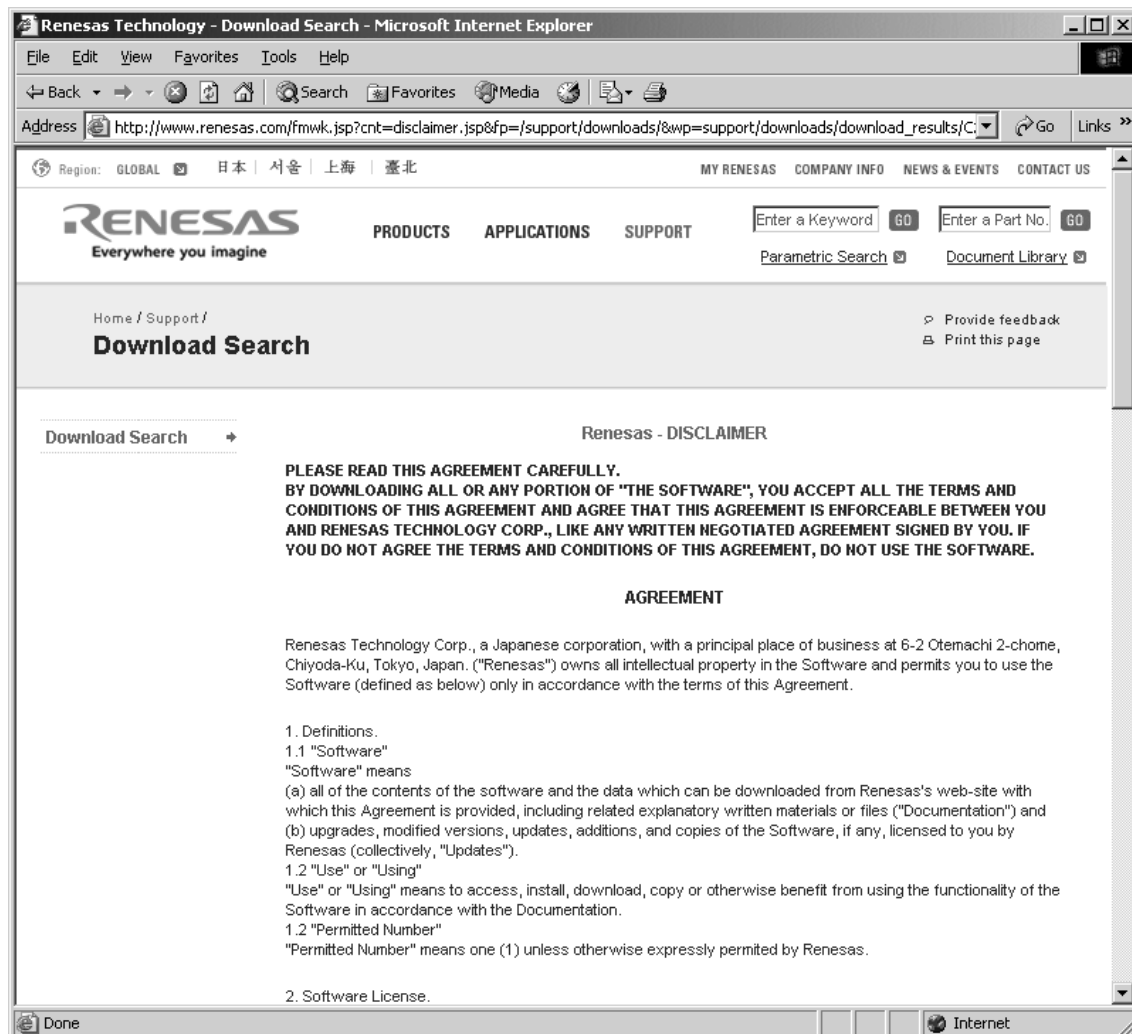
[If you are a new user click here to register now.](#)

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Done Internet

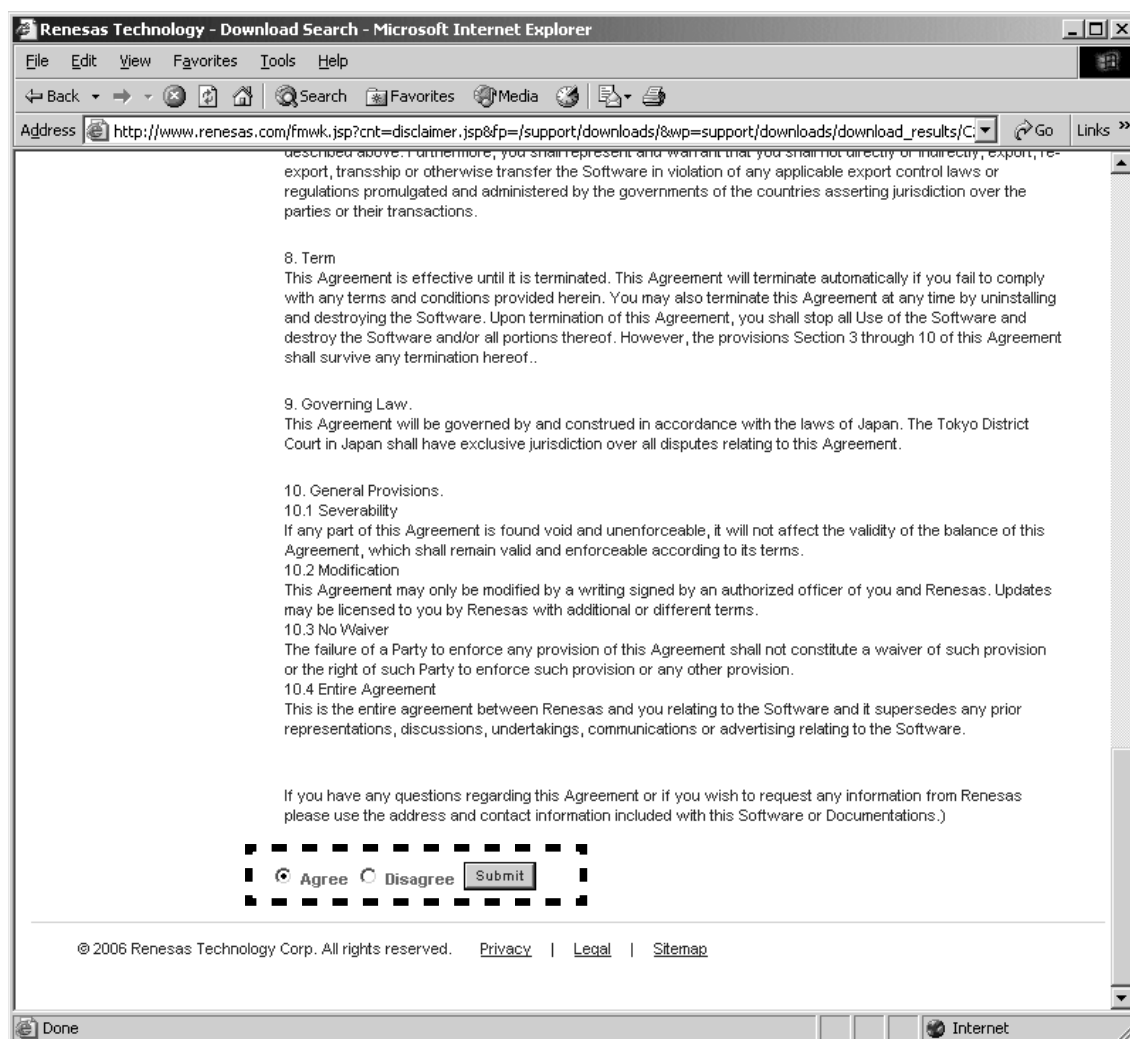
19. Scroll down the page.

19. ページをスクロールダウンします。



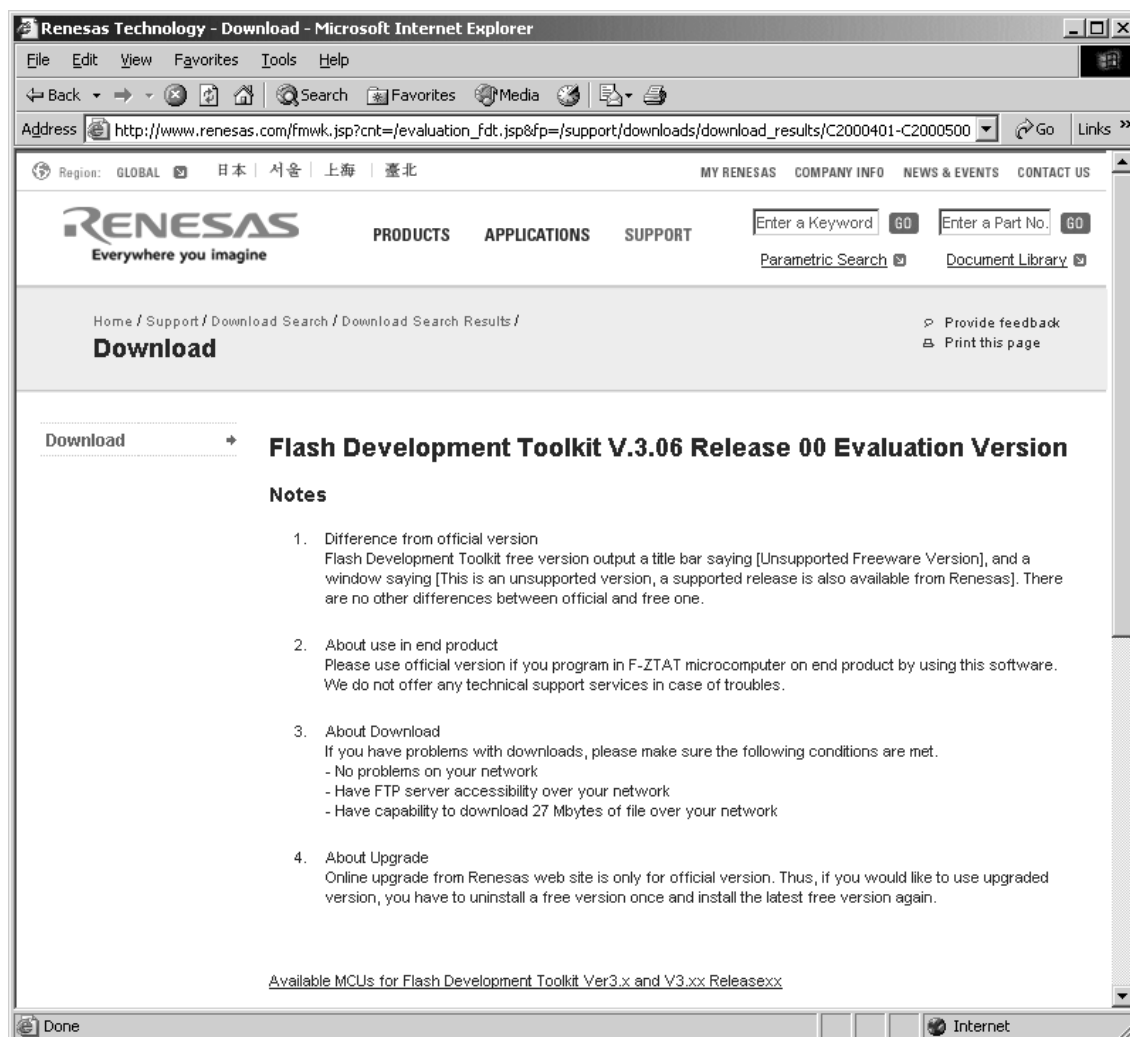
20. Check the **Agree**, and click the **Submit**.

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



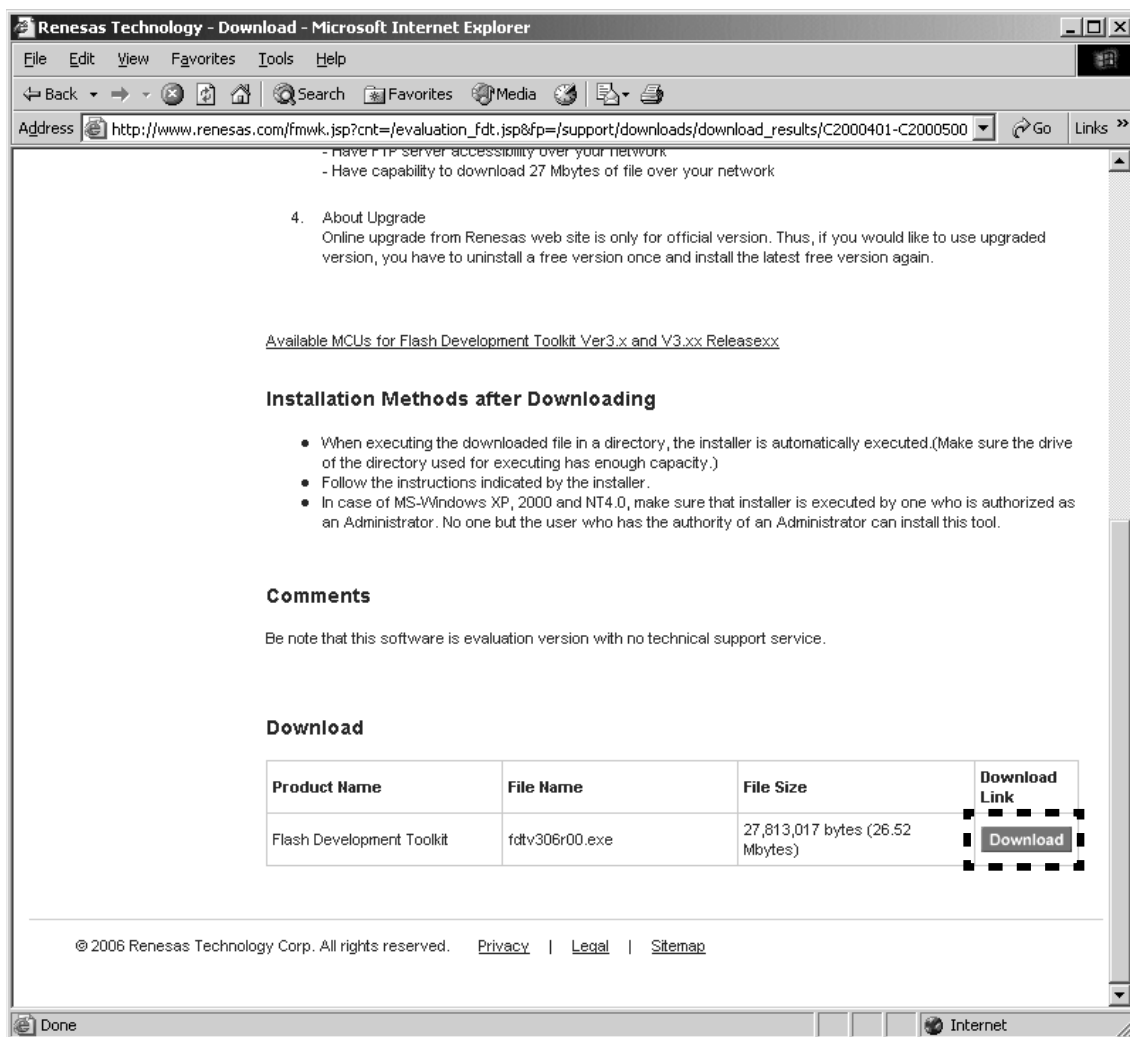
21.Scroll down the page.

21.ページをスクロールダウンします。



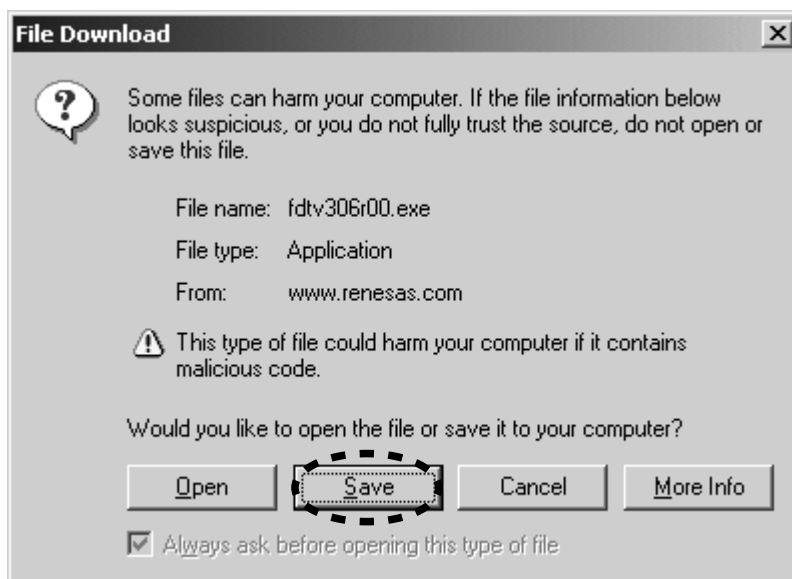
22. Click the **Download**.

22. **Download**をクリックします。



23. Click the **Save**.

23. **Save**をクリックします。

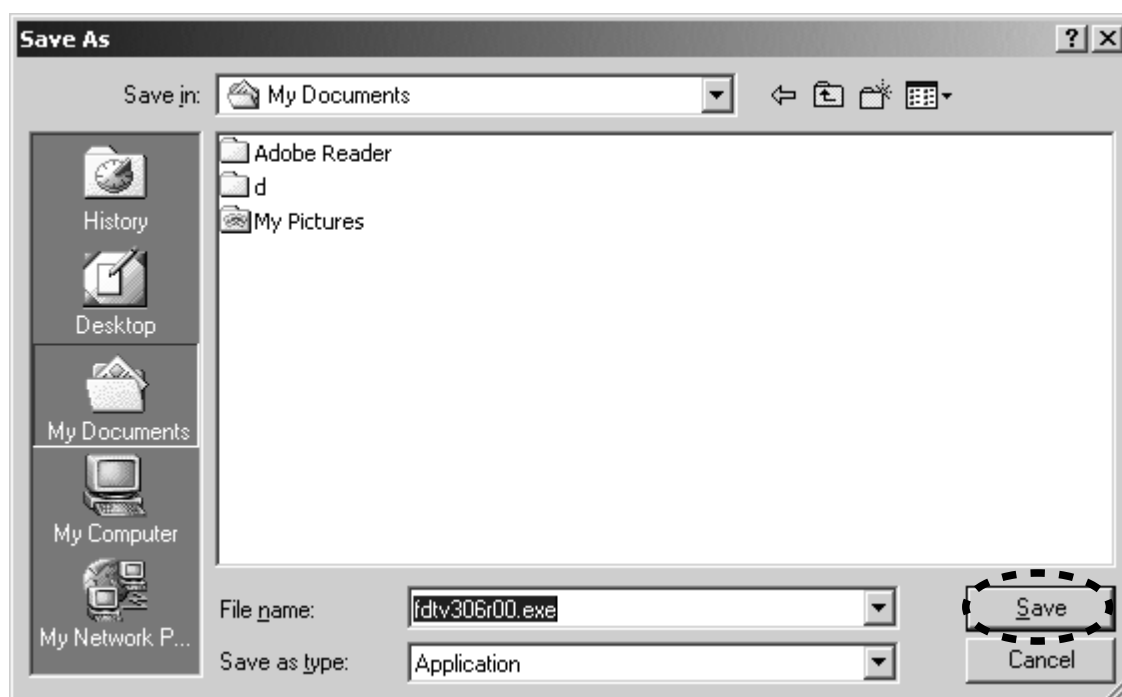


24. Save the fdtv306r00.exe on your PC's hard disc.

NOTE : A file name is change by improvement.

24. fdtv306r00.exeを任意のフォルダに保存します。

注意： ファイル名はバージョンにより変わります。

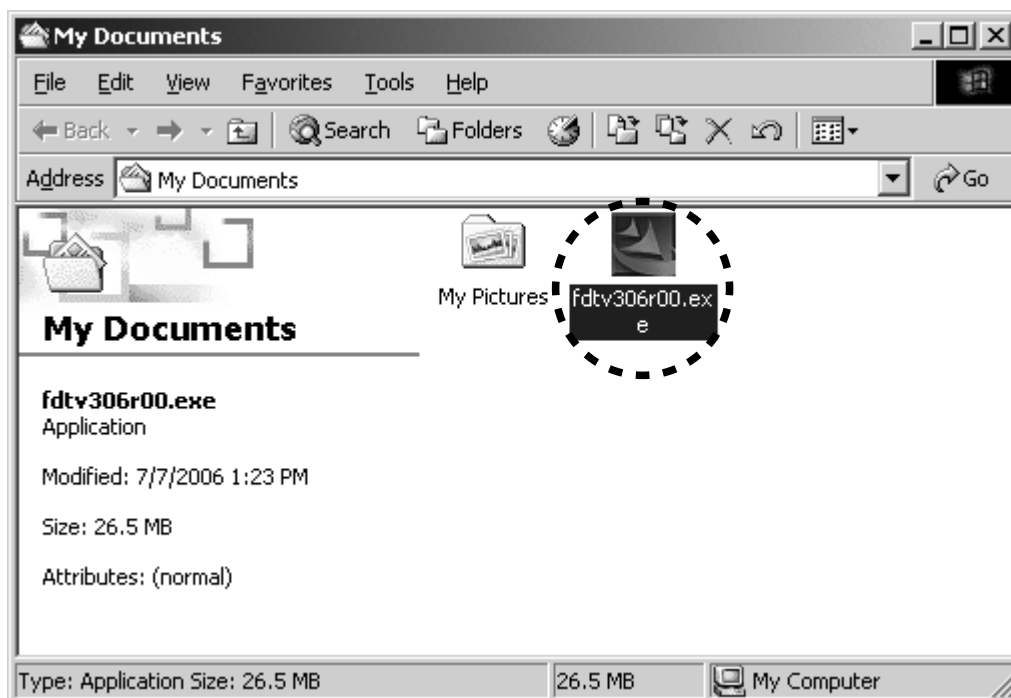


[A-2] INSTALLS OF THE SOFTWARE
(Flash Development Toolkit Ver.3.06)

1. Open the folder with the downloaded file.
2. And double click the **fdtv306r00.exe**.

[A-2] INSTALLS OF THE SOFTWARE
(Flash Development Toolkit Ver.3.06)

1. ダウンロードしたファイルのあるフォルダを開きます。
2. **fdtv306r00.exe**をダブルクリックします。



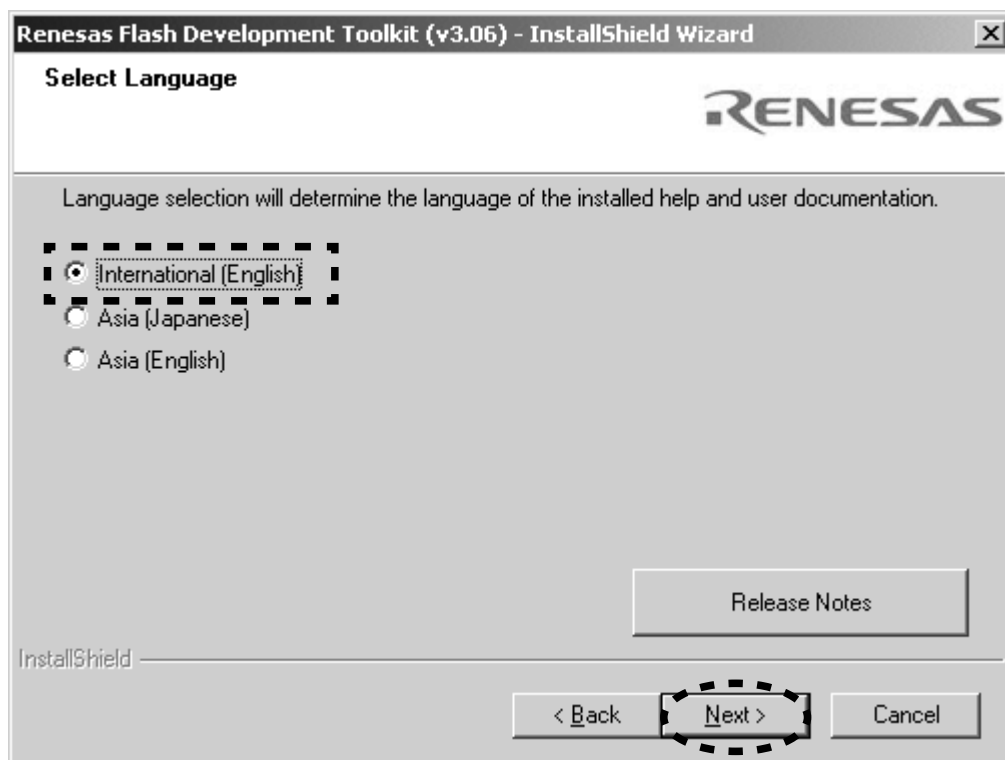
3. Click the **Next**.

3. **Next**をクリックします。



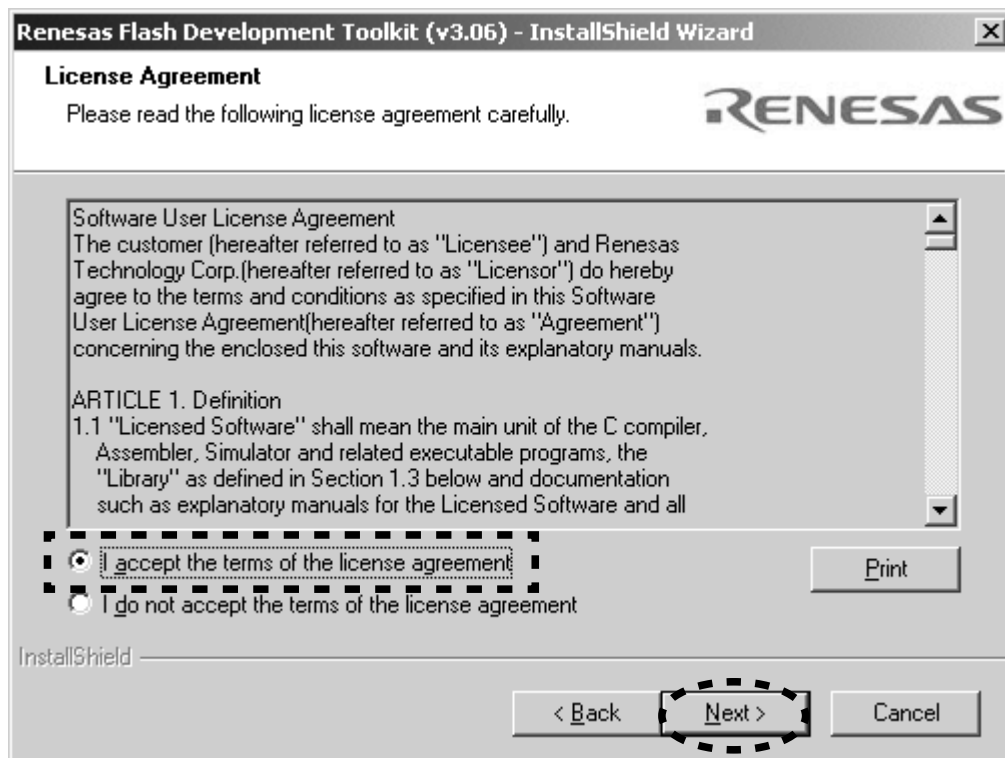
4. Check the **International [English]**, and click the **Next**.

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



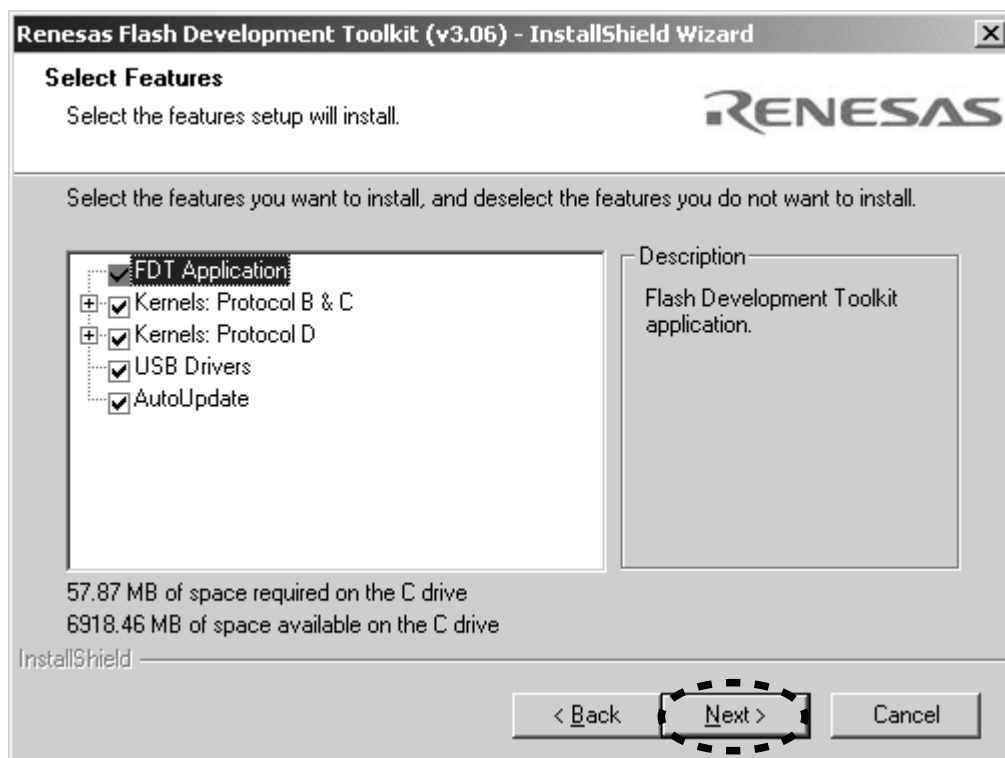
5. Check the **I accept the terms of the license agreement**, and Click the **Next**.

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



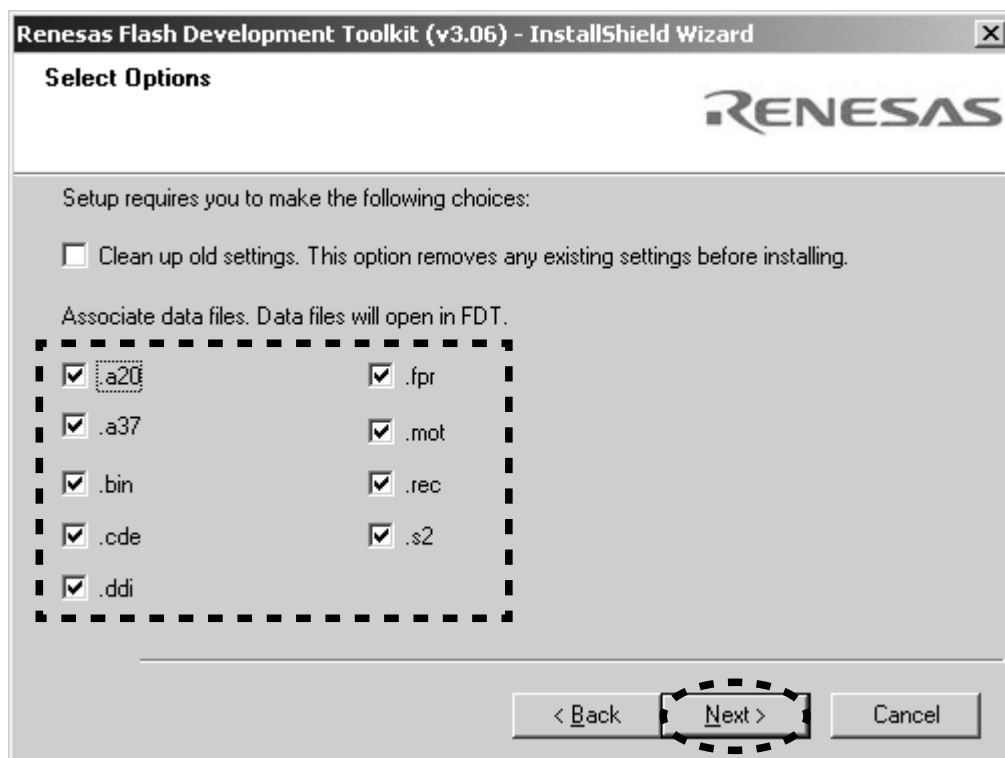
6 Click the **Next**.

6. **Next**をクリックします。



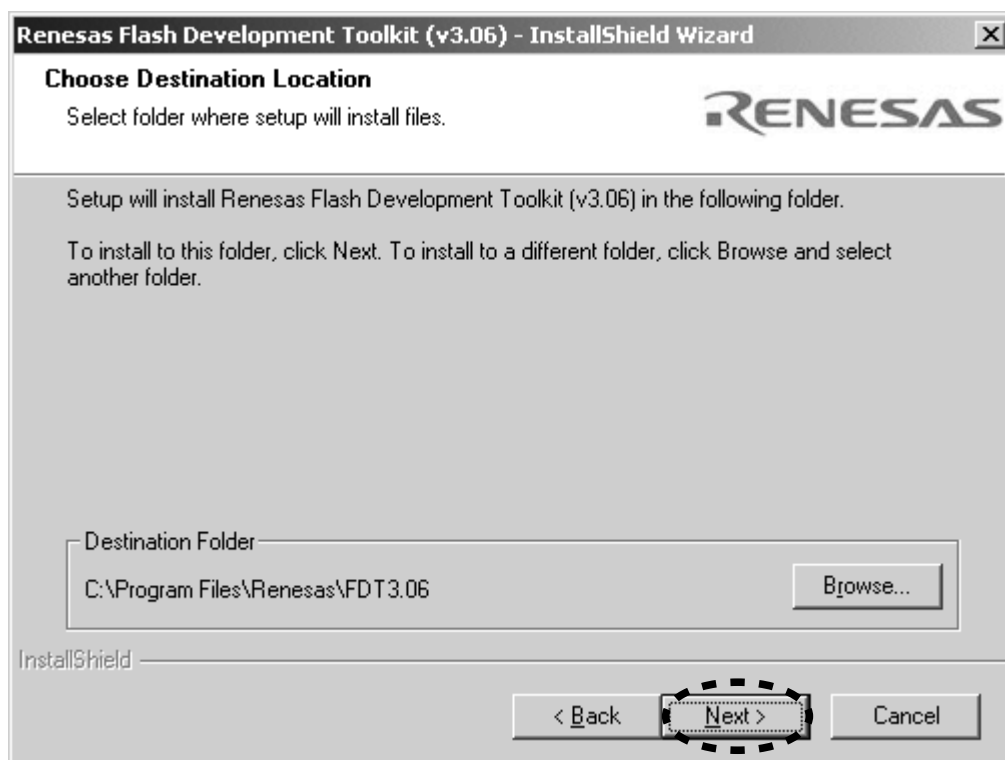
7. Check the all file type, and Click the **Next**.

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



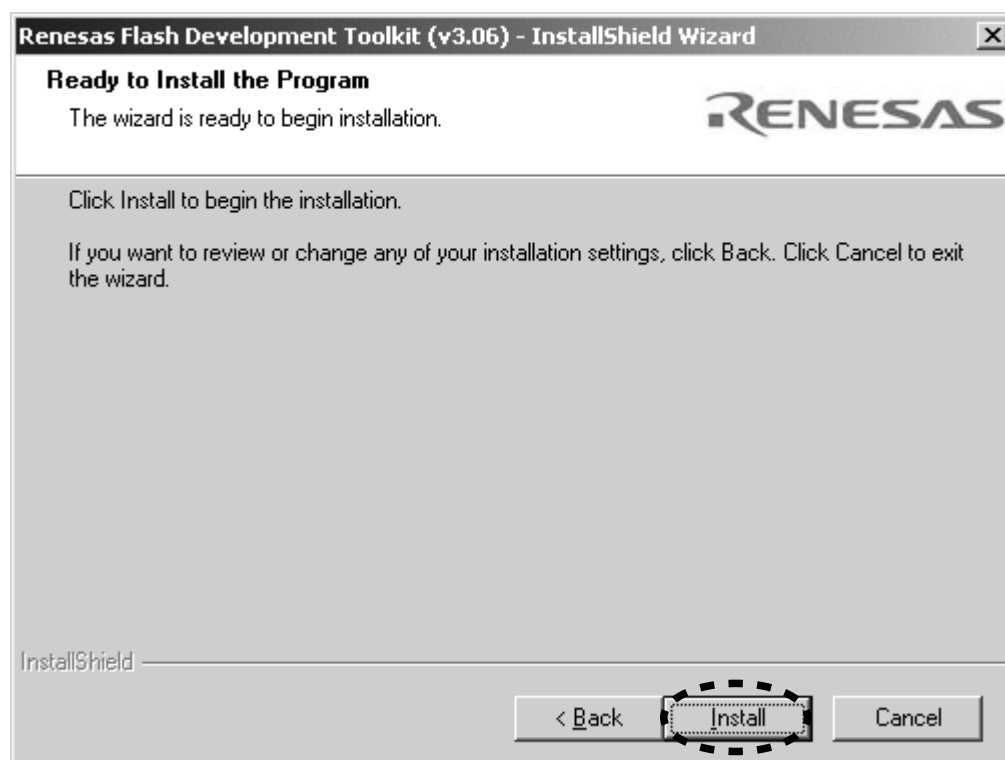
8. Click the **Next**.

8. **Next**をクリックします。



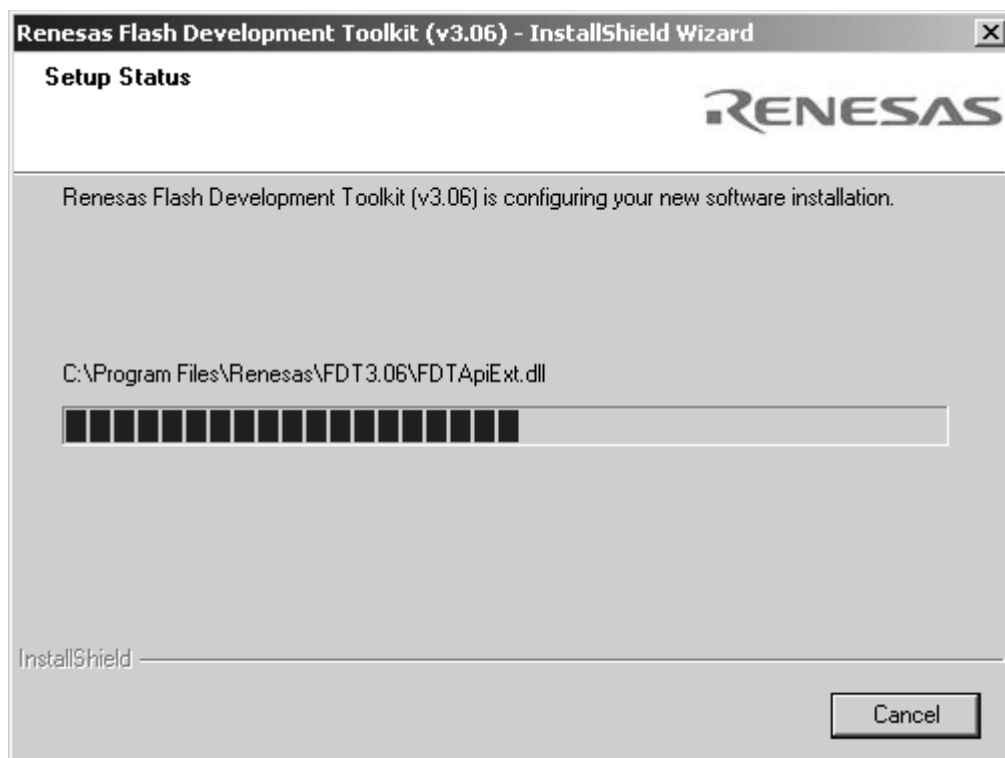
9. Click the **Install**.

9. **Install**をクリックします。



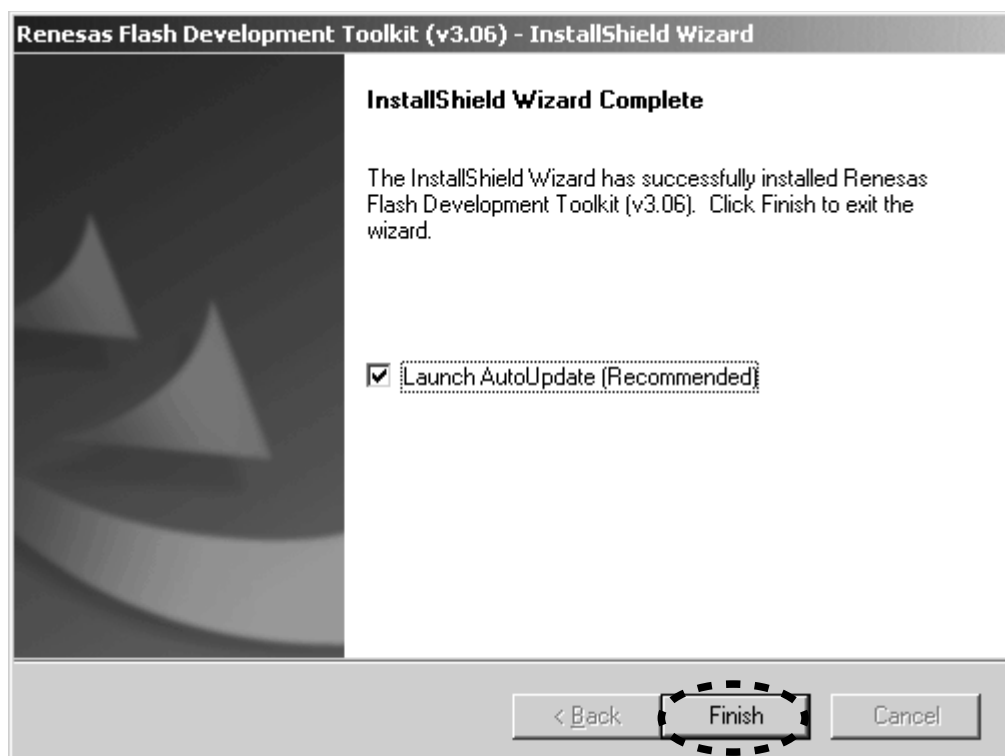
10. The Setup Status bar appears.

10. インストールの状態が表示されます。



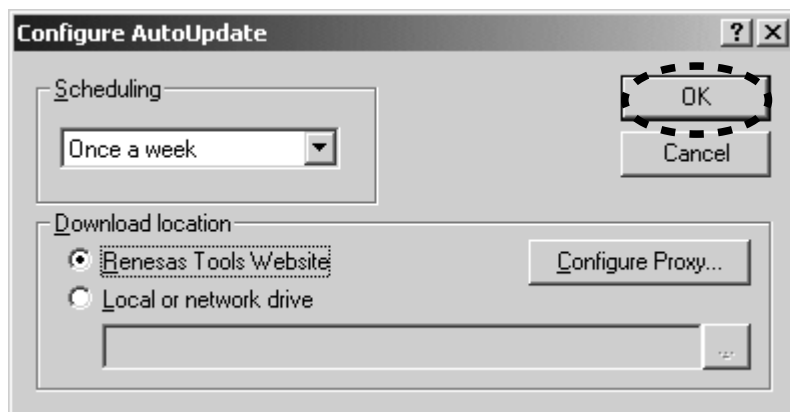
11. Click the **Finish**.

11. **Finish**をクリックします。



12. Click the **OK**.

12. **OK**をクリックします。



[B] WRITING AND UPDATE SOFTWARE

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

Software for microprocessor (Q201) can be updated/downloaded.

Have update/download application software. ("fdtv306r00.exe (FDT3.06) or latest version")

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

- This mode is to update/download the software for microprocessor.
- The target device is internal flash ROM of microprocessor (Q201) on PU01 (U-PRO PWB).
- The unit needs to be set to writing condition, by slide switch on P271 (FCBS PWB).
- The updating/downloading of software takes about 25 seconds.

NECESSARY EQUIPMENT

- The following items are required for updating/downloading.
- Windows PC (OS: Windows2000 or WindowsXP) with Serial port.
- RS-232C Dsub-9 pin cable (female to female/straight type)
- Writing data (00M340J499D00: SC7S2_v003.mot in SC-7S2 folder)
NOTE : v003 is a revision number. The latest revision is v003 at present. (August, 2006)
- Flash Development Toolkit 3.06 or latest version (fdtv306r00.exe or latest version)
- Connection JIG (90M-PM11S1JIG)

[B] WRITING AND UPDATE SOFTWARE

メインマイコンQ201を交換したときは、Q201へプログラムを書き込む必要があります。

メインマイコンのソフトウェアは更新、および書き込みが出来ます。

更新および書き込みには書き込み用アプリケーションが必要です。("fdtv306r00.exe (FDT3.06)または最新版")

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

- このモードはMAINマイコンの更新および書き込み用です。
- 基板PU01 (U-PRO PWB)のQ201のマイコン内部のフラッシュROMに書き込みます。
- 本機内部のP271基板 (FCBS PWB) 上のスライドスイッチを切替え、書き込みモードにする必要があります。
- 書き込みにかかる時間は約25秒です。

必要機器

下記は更新および書き込みに必要な機器です。

- Windows PC (OS : Windows2000 またはWindowsXP) で Serial ポートのあるもの
- RS-232C ストレートケーブル(9Pin メス-9Pin メス)
- 書き込み用データ(SC-7S2フォルダ内00M340J499D00 : SC7S2_v003.mot)
注意 : v003はリリース番号。最新リリース番号はv003です。(2006年8月現在)
- Flash Development Toolkit 3.06または最新版 (fdtv306r00.exeまたは最新版)
- 接続治具(90M-PM11S1JIG)

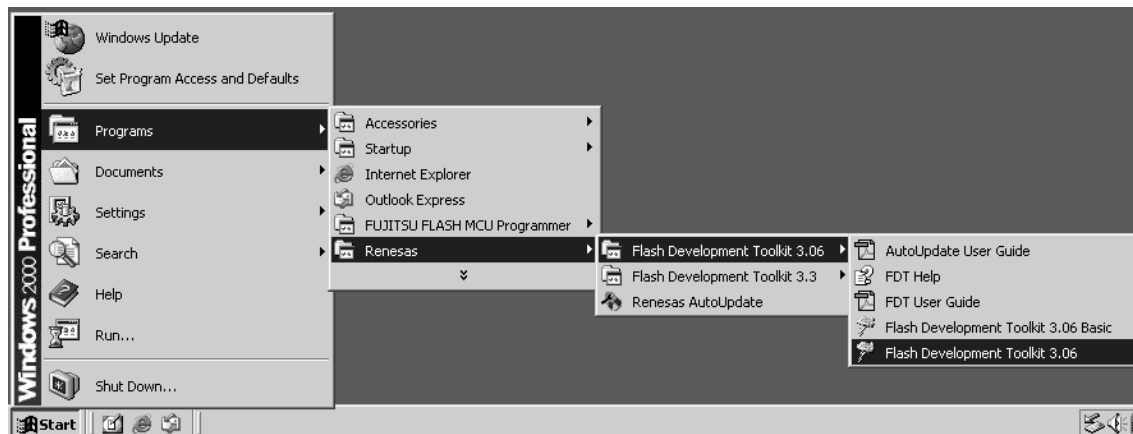
Update/Download microprocessor's software to internal Flash-ROM.

[1] The writing software setup procedure

1. Launch the Flash Development Toolkit v3.06 (FDT).

NOTE : Please refer to "[A] SOFTWARE (fdtv306r00.exe) DOWNLOAD AND INSTALL PROCEDURE", when you do not have FDT.

2. Click **Start, Programs, Renesas, Flash Development Toolkit 3.06** and **Flash Development Toolkit 3.06**.



3. Check the **Create a new project workspace**, and click the **OK**.

NOTE : It is needs setup for SC-7S2. When you have already setup, please advance to "[2] Writing Procedure for microprocessor".

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

[1] The writing software setup procedure

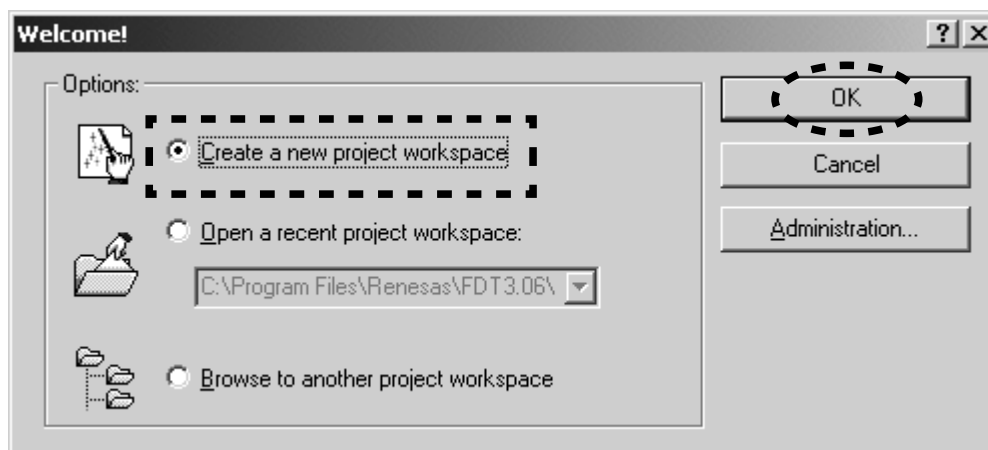
1. Flash Development Toolkit v3.06(FDT)を起動します。

注意：FDTを持っていない方は"[A] SOFTWARE (fdtv306r00.exe) DOWNLOAD AND INSTALL PROCEDURE"を参照してダウンロードしてください。

2. **Start、Programs、Renesas、Flash Development Toolkit 3.06、Flash Development Toolkit 3.06**をクリックします。

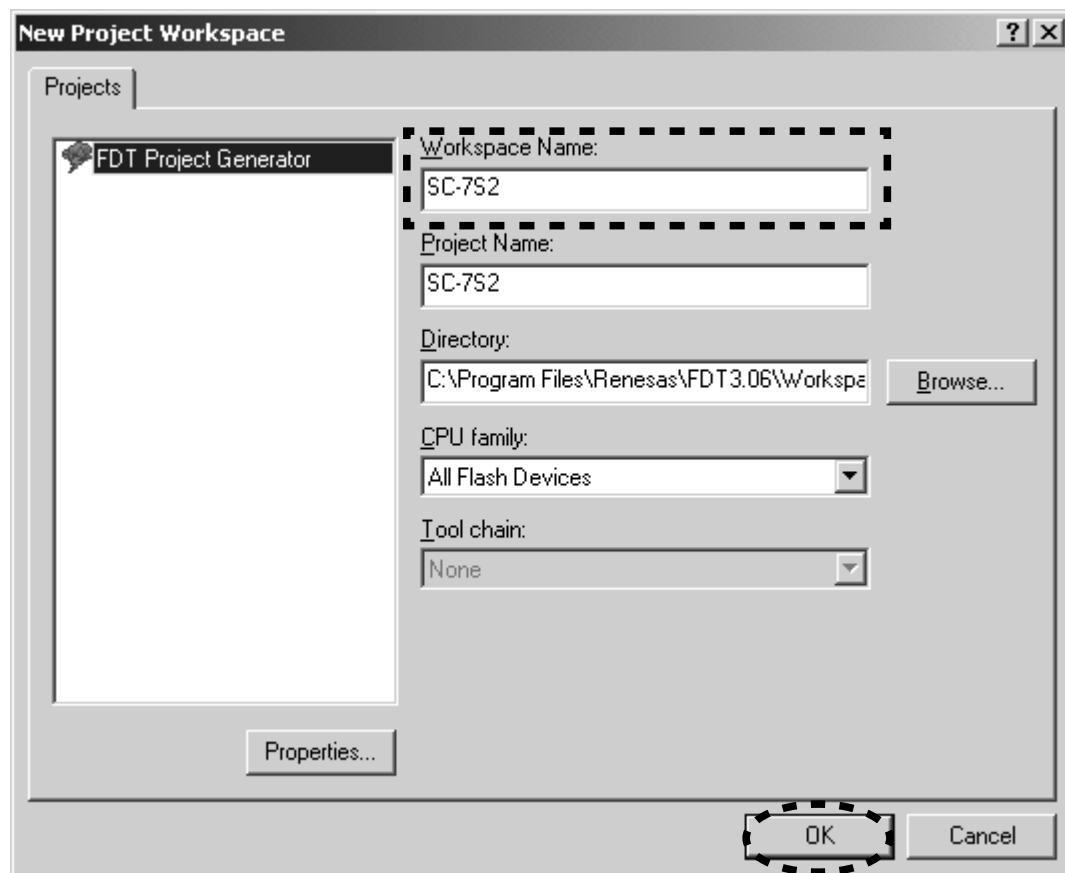
3. **Create a new project workspace**をチェックし、**OK**をクリックします。

注意：SC-7S2用の設定が必要です。既に設定が終わっている方は"[2] Writing Procedure for microprocessor"へ進んでください。



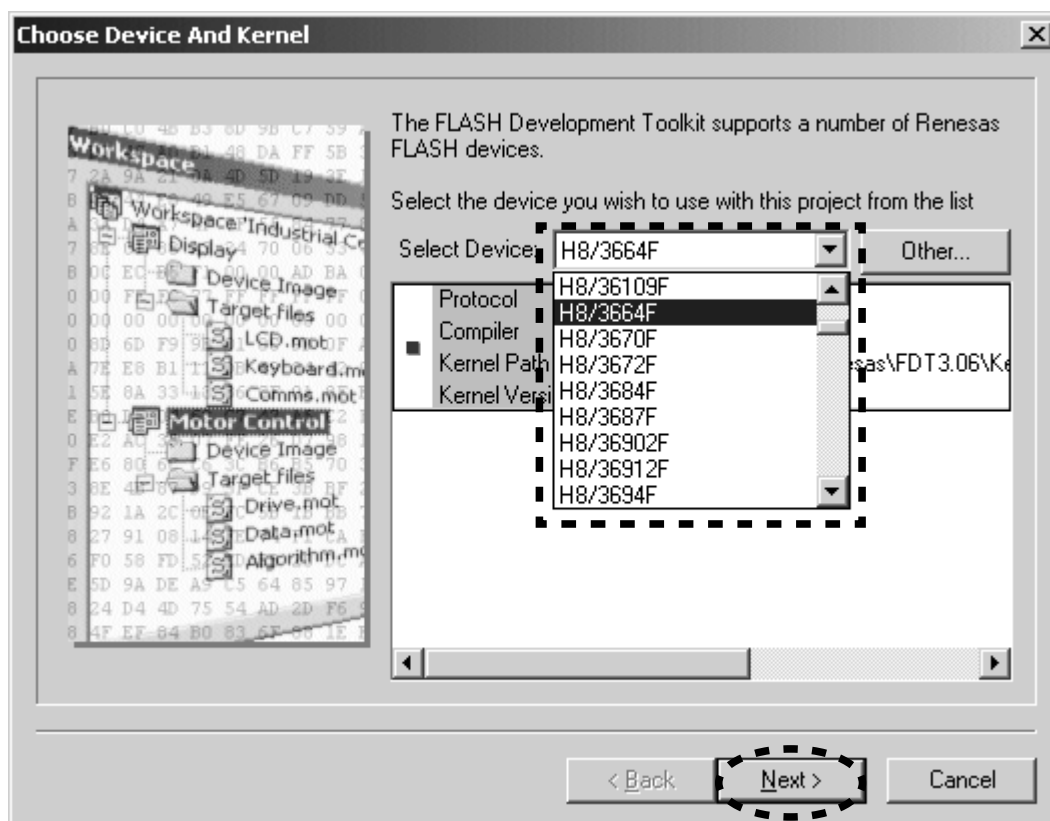
4. **SC-7S2** is inputted into the Workspace Name.
(It is simultaneously inputted into Project Name.)
Click the **OK**.

4. Workspace Nameに**SC-7S2**を入力します。
(同時にProject Nameにも入力されます)
OKをクリックします。



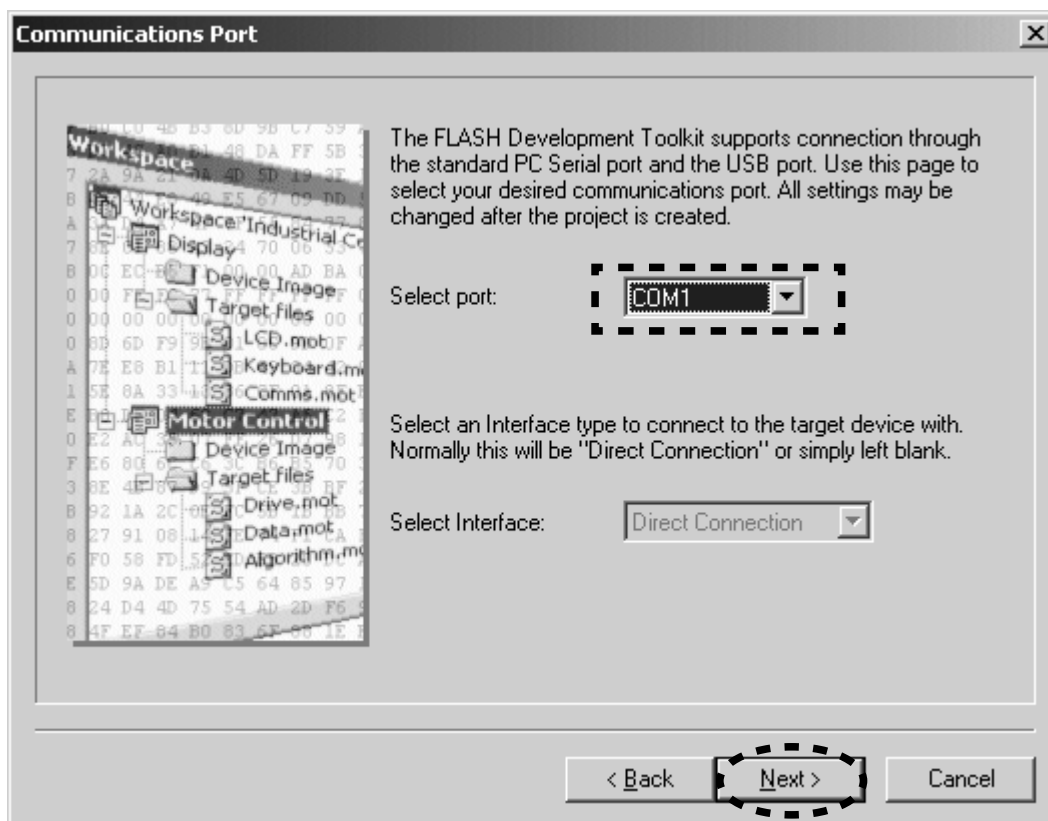
5. Choose the **H8/3664F** in Select Device. And click the **Next**.

5. Select Deviceから**H8/3664F**を選択し、**Next**をクリックします。



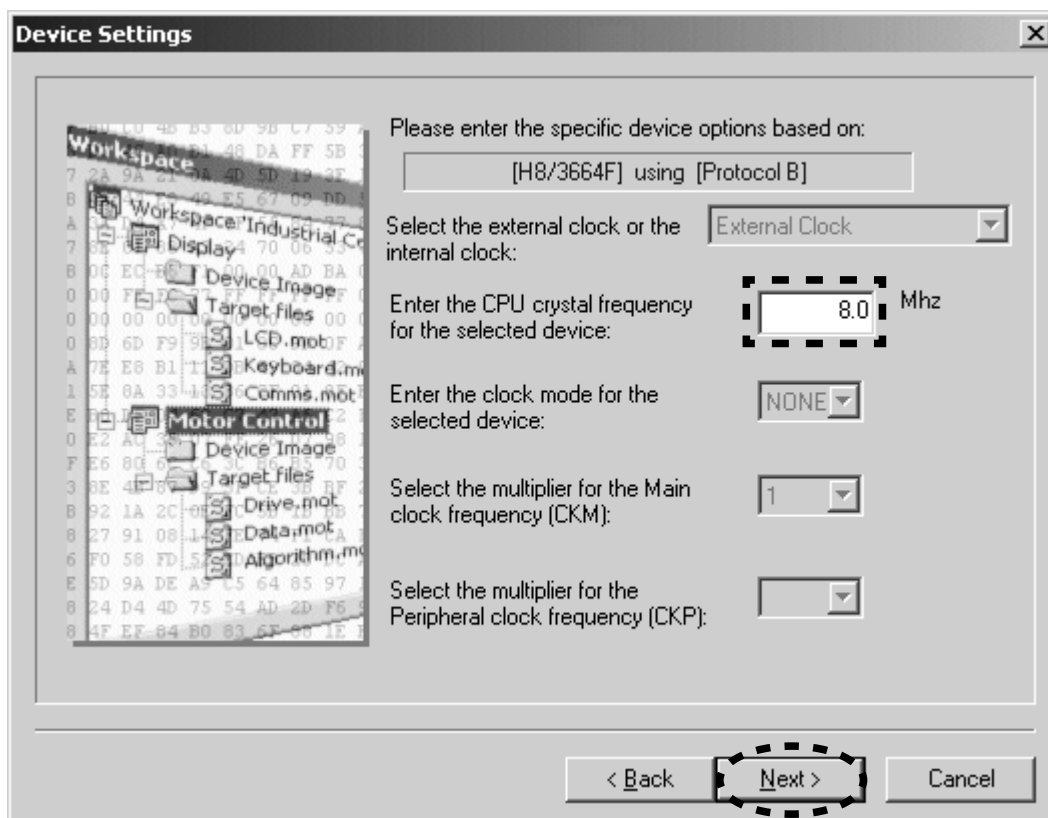
6. Choose the **Serial port number** in the Select Port. And click the **Next**.

6. Select Portから**Serialポート番号**を選び、**Next**をクリックします。



7. **8.0** is inputted into the Enter the CPU crystal frequency for the selected device. And click the **Next**.

7. Enter the CPU crystal frequency for the selected device に**8.0**を入力し、**Next**をクリックします。

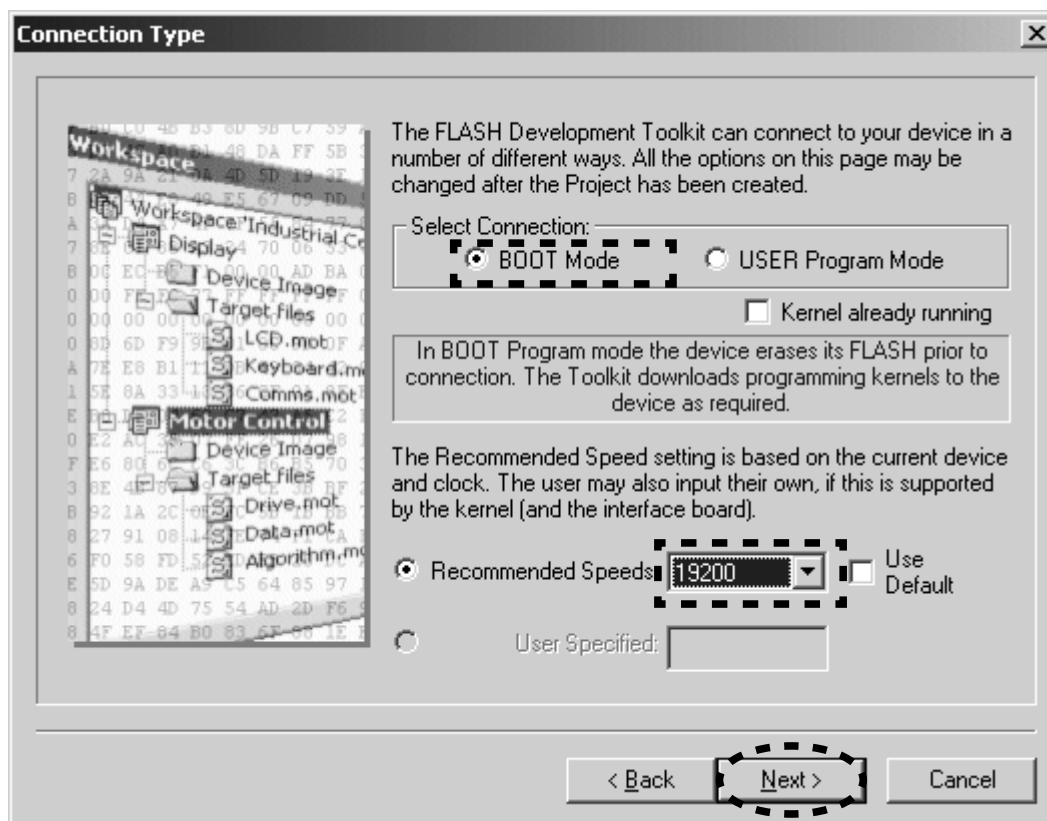


8. Check The **BOOT Mode** in Select Connection.

Un-check the **Use Default**, and choose the **19200** in Recommended Speeds.
Click the **Next**.

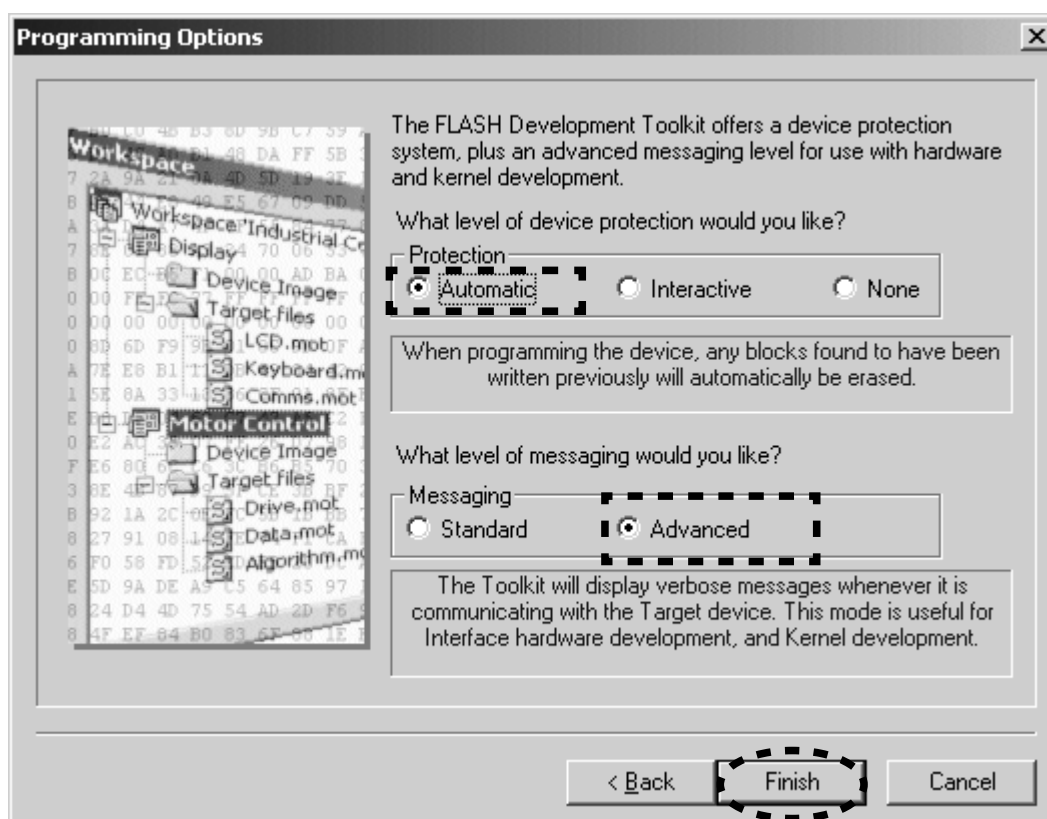
8. Select Connectionの**BOOT Mode**をチェックします。

Recommended Speedsの**Use Default**のチェックを外し、**19200**を選択します。
Nextをクリックします。



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

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



[2] Writing Procedure for microprocessor

1. Remove the top lid of the unit.
2. Connect the RS-232C on the connection JIG and the Serial Port of windows PC with RS-232C cable.
3. Connect the 4 pins connective cord to the connector (J274) on the P271 (FCBS PWB) of the unit from the connection JIG.
4. Turn the slide switch (S271) of P271 on the **WRITE** side.

[2] Writing Procedure for HDMI CPU

1. 本機のトップカバーを外します。
2. 接続治具のRS-232CコネクタとWindows PCのSerialポートをRS-232Cケーブルで接続します。
3. 本機内部のP271（FCBS PWB）上のコネクタ（J274）に接続治具からの4ピンケーブルを接続します。
4. P271のスライドスイッチ（S271）を**WRITE**側に切替えます。

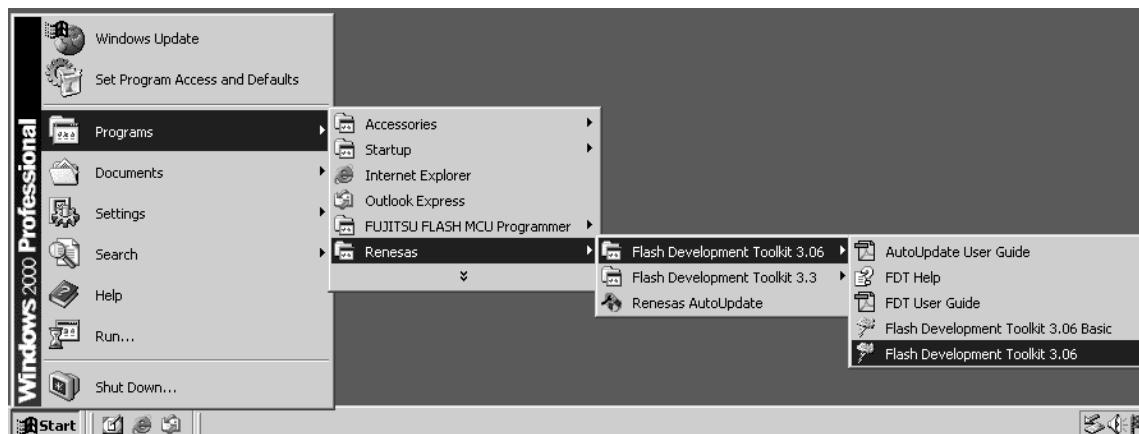


5. Connect the mains cord into the unit.
6. Launch the Flash Development Toolkit (FDT), When FDT is not launch.
When FDT is already launch, please advance to step No.10.

5. 本機に電源コードを接続します。
6. Flash Development Toolkit v3.06(FDT)を起動していない場合は起動します。
既にFDTを起動している方はステップ10に進んでください。

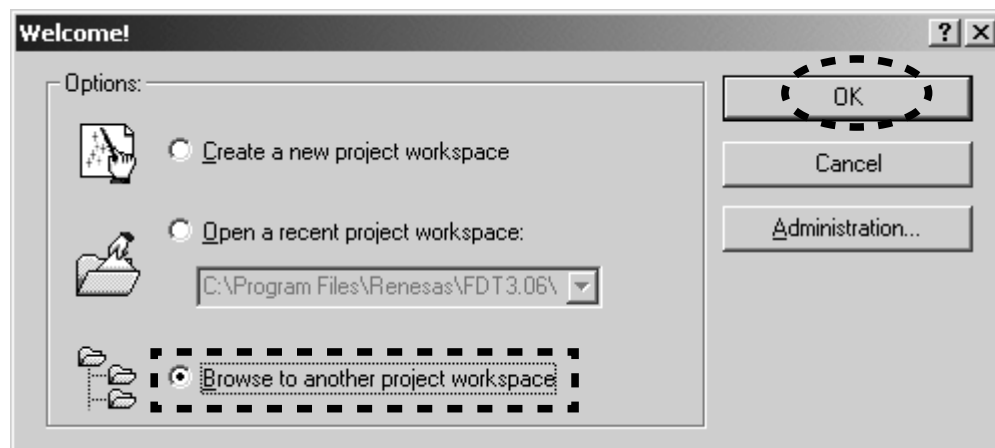
7. Click **Start, Programs, Renesas, Flash Development Toolkit 3.06** and **Flash Development Toolkit 3.06**.

7. **Start, Programs, Renesas, Flash Development Toolkit 3.06, Flash Development Toolkit 3.06**をクリックします。



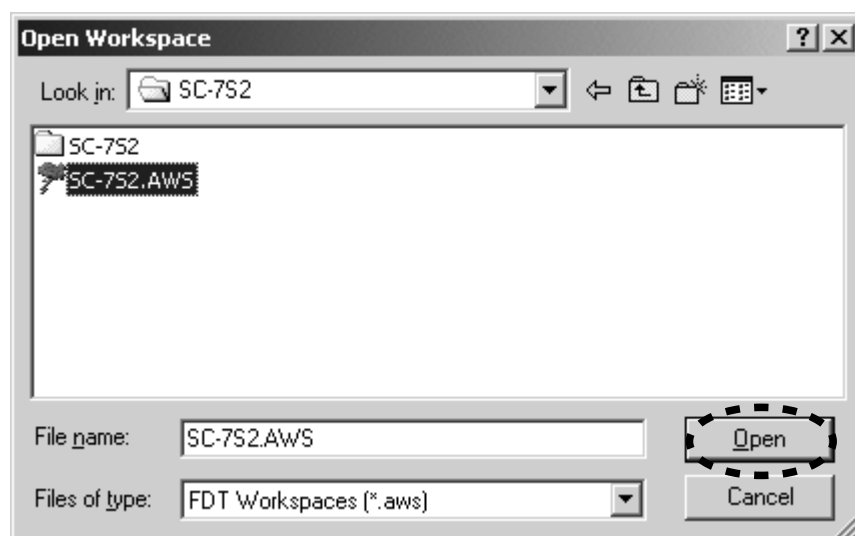
8. Check the **Browse to another project workspace**, and click **OK**.

8. **Browse to another project workspace**をチェックし、**OK**をクリックします。



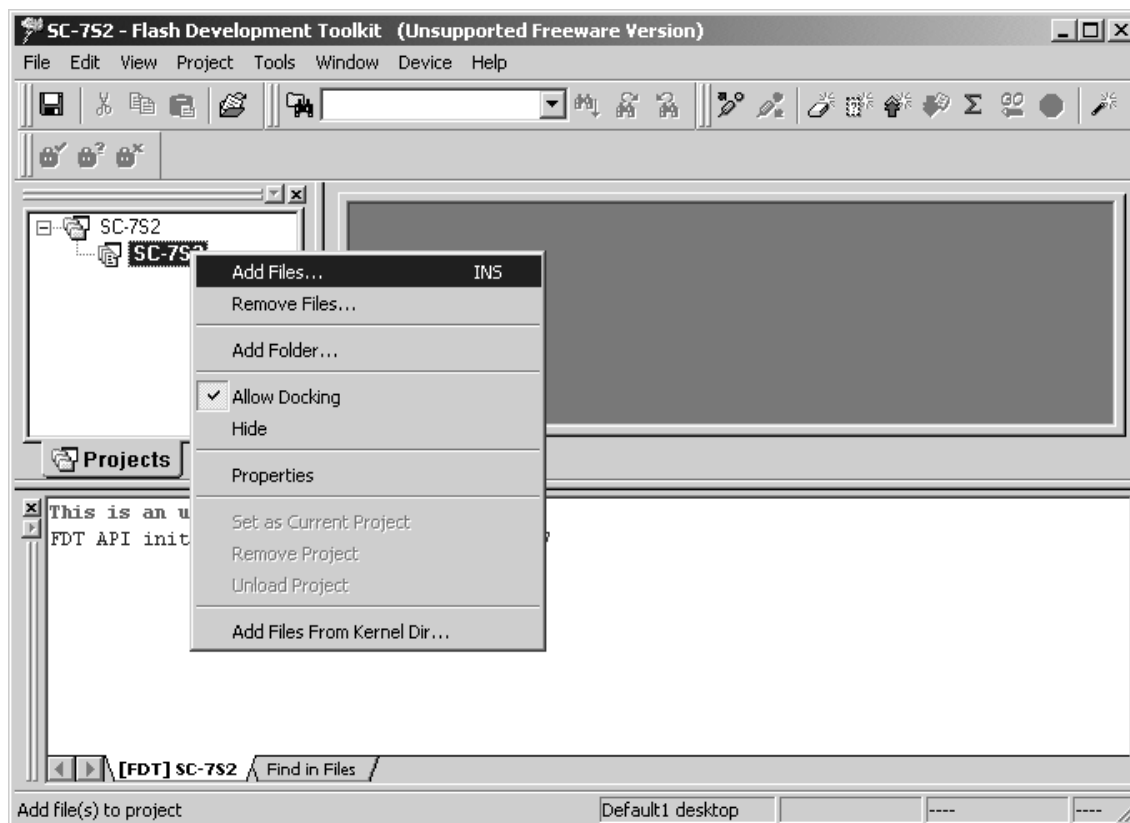
9. Choose **SC-7S2.AWS** in **SC-7S2** folder under workspace folder. And Click the **Open**.

9. workspaceフォルダの下のSC-7S2フォルダ内の **SC-7S2.AWS**を選択し、**Open**をクリックします。



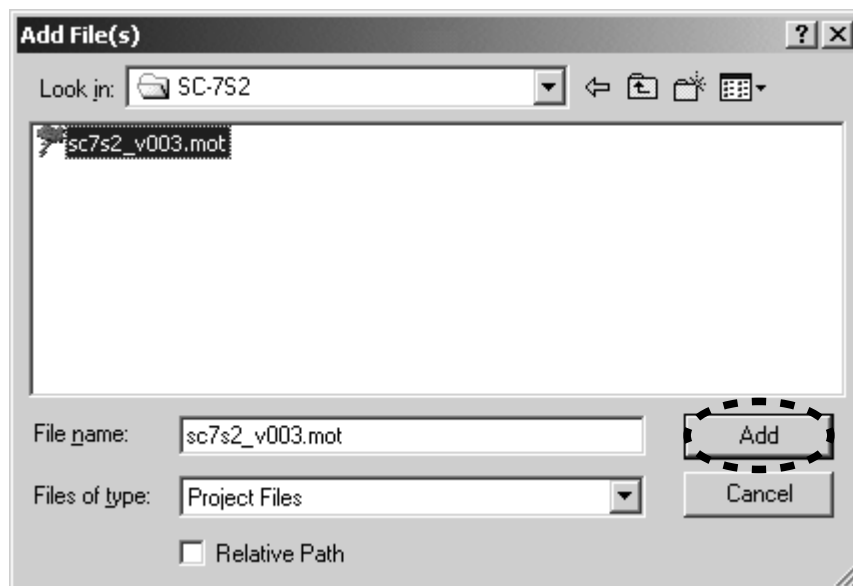
10. Right button of mouse click on the **SC-7S2**, and select the **Add Files...** in a menu.

10. **SC-7S2**を右クリックし、メニューから**Add Files...**をクリックします。



11. Choose the **sc7s2_v003.mot**, and click the **Add**.
NOTE : The v003 is a revision number. The latest revision is v003 at present. (August, 2006)

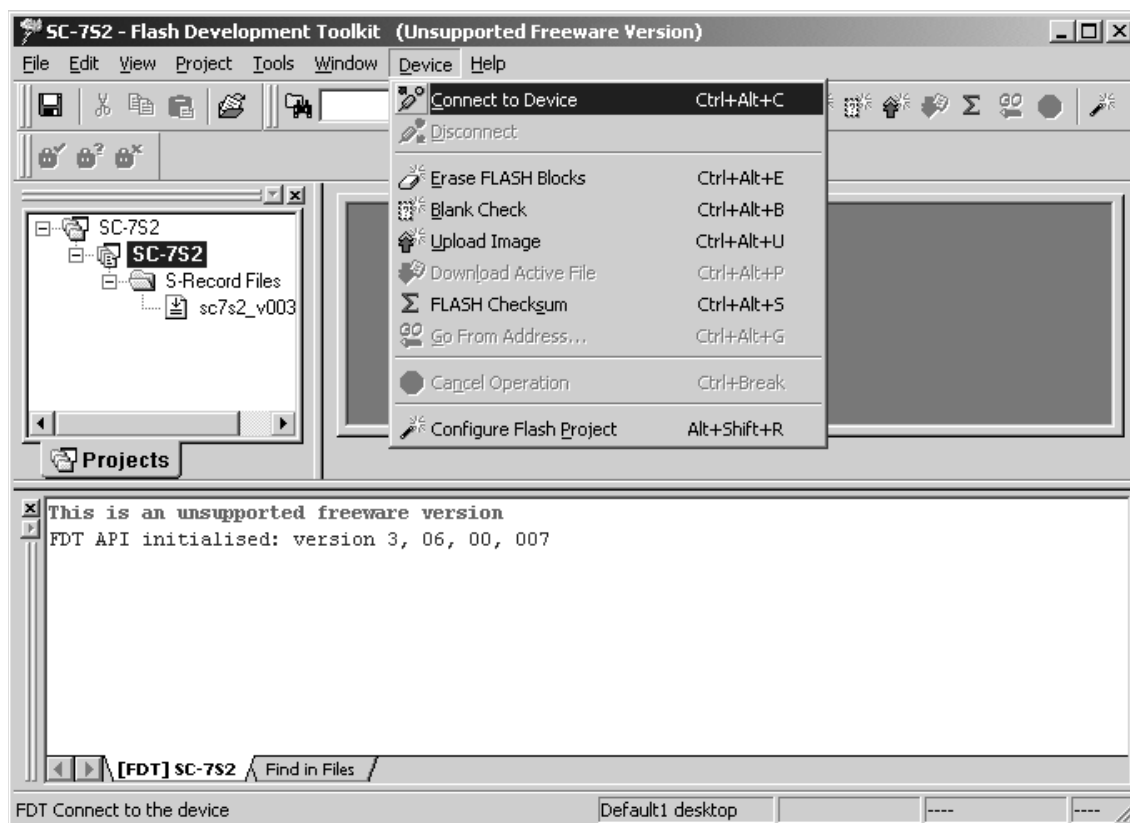
11. **sc7s2_v003.mot**を選択し、**Add**をクリックします。
注意：v003はリリース番号です。最新のリリース番号はv003です。（2006年8月現在）



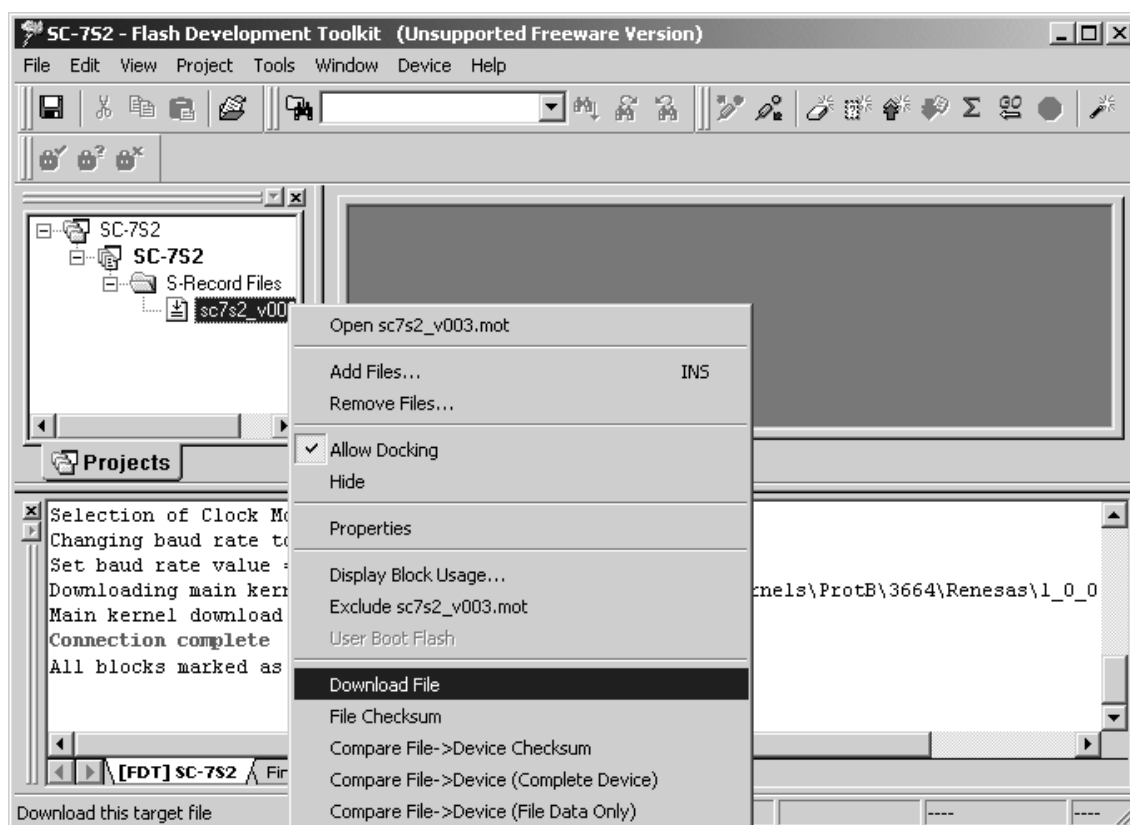
12. Press the **power on/off** button for turn on the unit.

12. **power on/off**ボタンを押し、本機の電源を入れます。

13. Click the **Device** in the menu bar and select the **Connect to Device** to **Device**. 13. **Device**をクリックし、メニューから**Connect to Device**をクリックします。

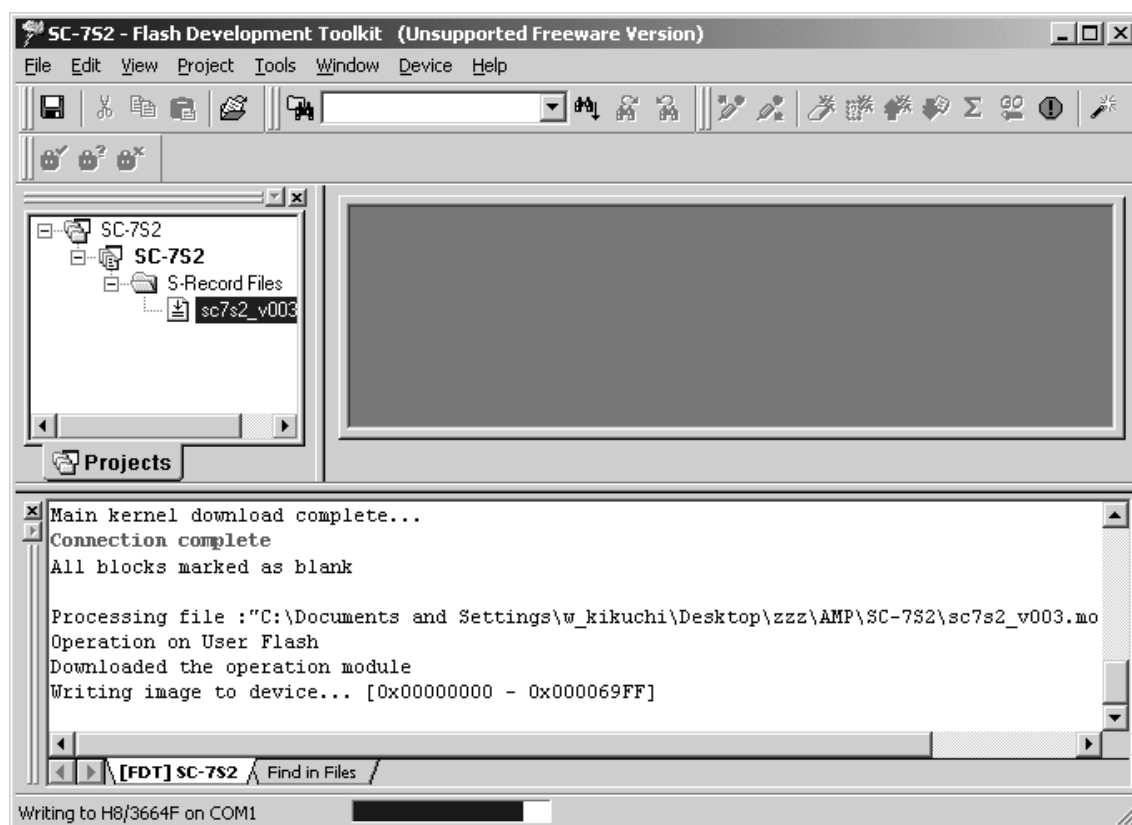


14. Press right button of mouse on the **sc7s2_v003.mot**, and select the **Download File** in a menu. 14. **sc7s2_v003.mot**を右クリックし、メニューから**Download File**をクリックします。



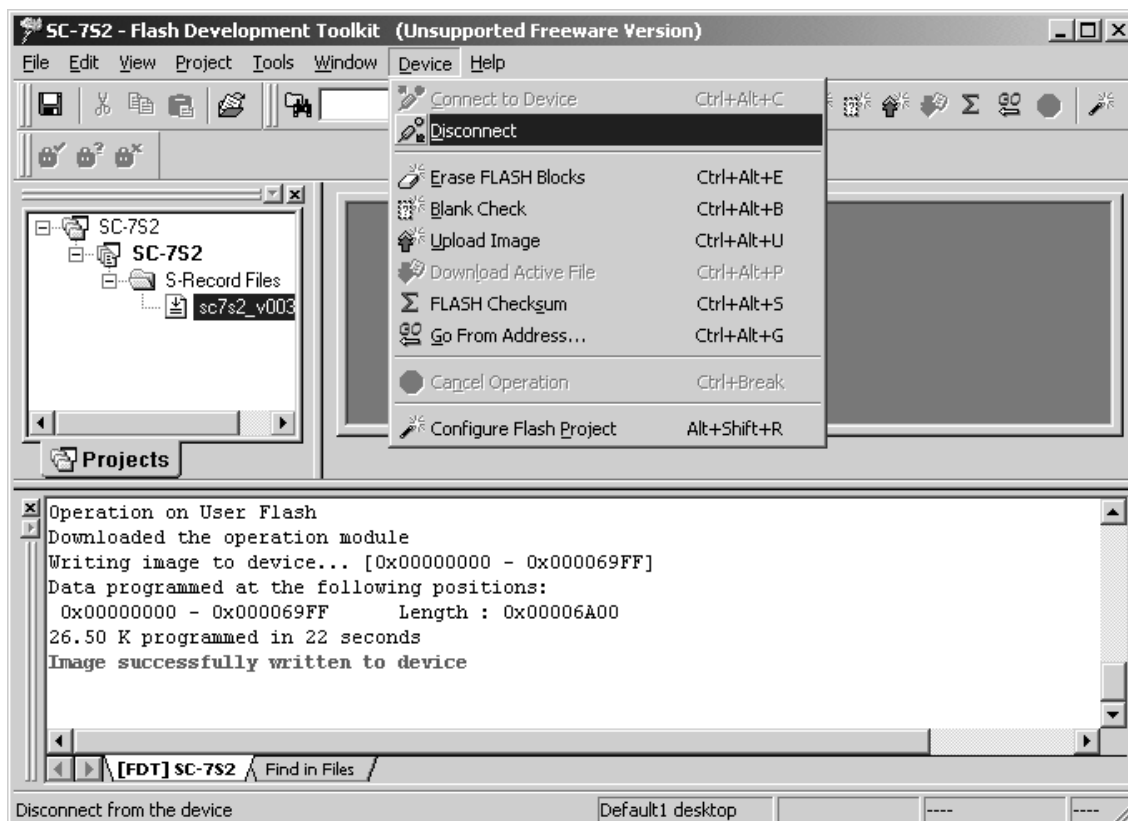
15. Software is written into the microprocessor.
The writing of software takes about 25 seconds.

15. ソフトウェアがHDMIマイコンに書き込まれます。
書き込みにかかる時間は約25秒です。



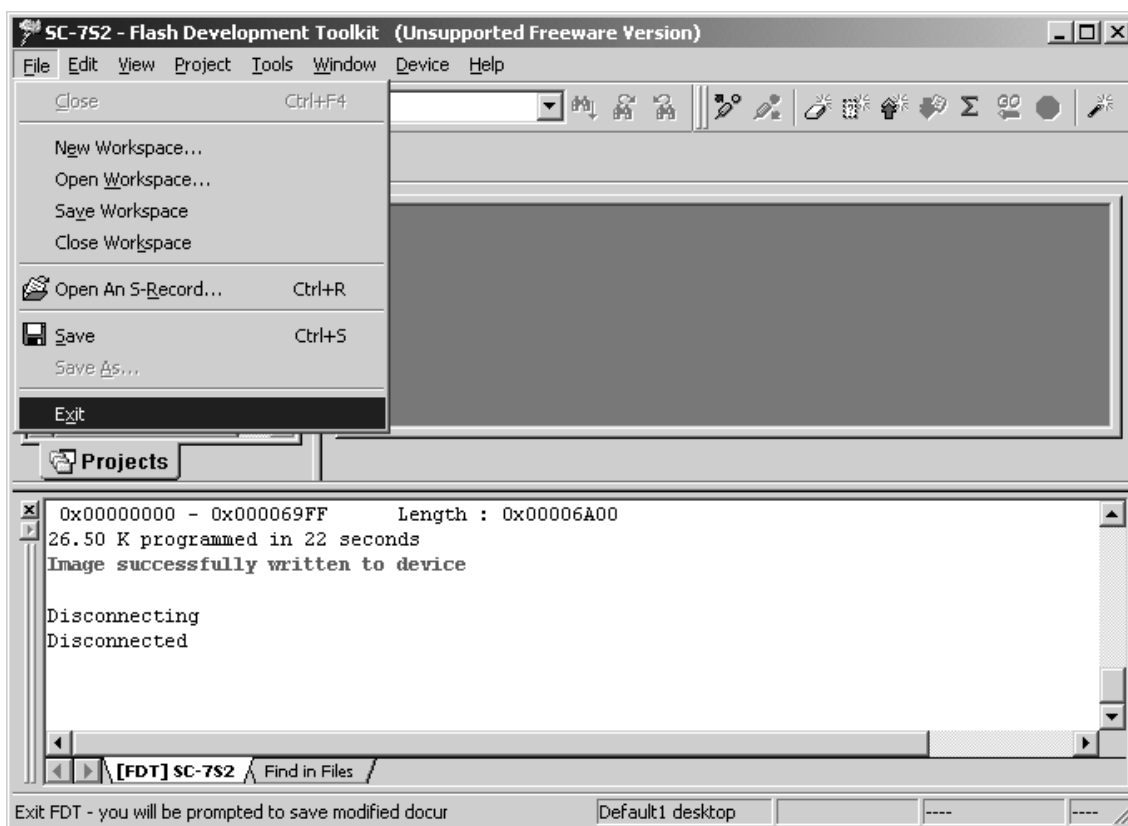
16. Click the **Device** in the menu bar and select the **Disconnect**.

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



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

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



18. Press the **power on/off** button for turn off the unit.

18. **power on/off**ボタンを押し、本機の電源を切ります。

19. Disconnect the mains cord and 4 pins connective code from the unit.

19. 本機から電源コードと4ピンケーブルを外します。

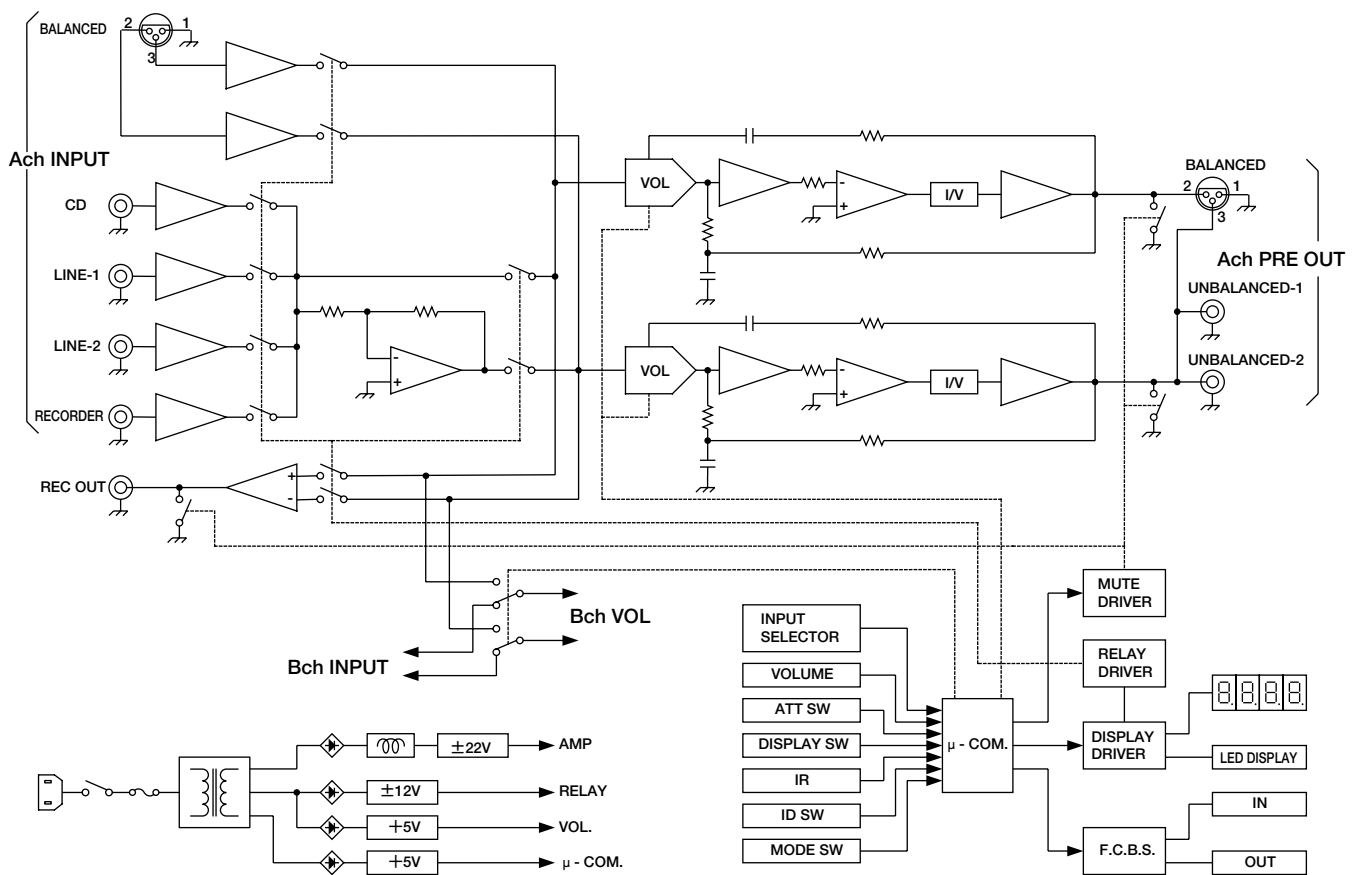
20. Turn the slide switch (S271) on **OPERATE** side.

20. P271のスライドスイッチ (S271) を**OPERATE**側に切替えます。

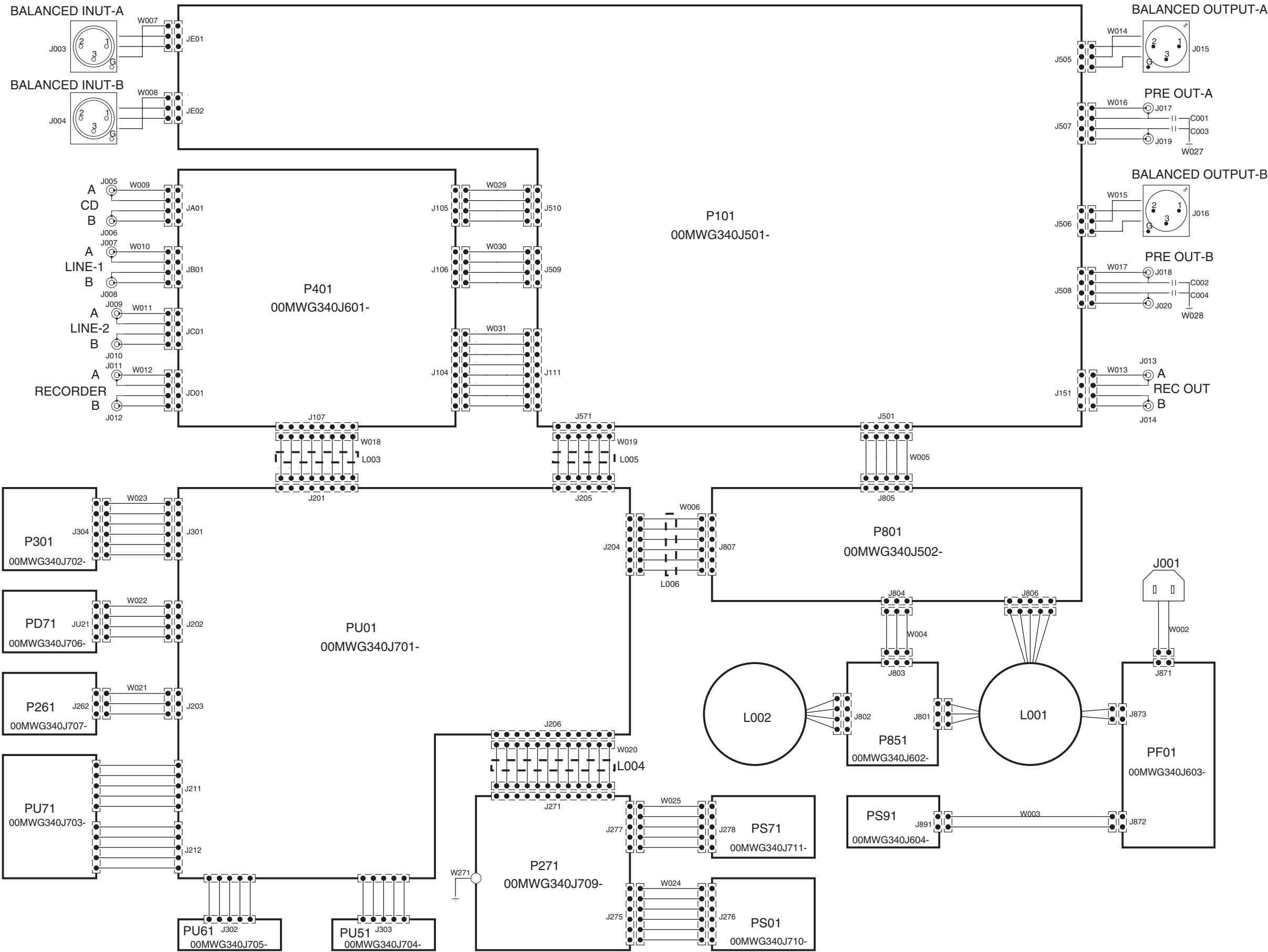
21. Mount the top lid on the unit.

21. 本機にトップカバーを取り付けます。

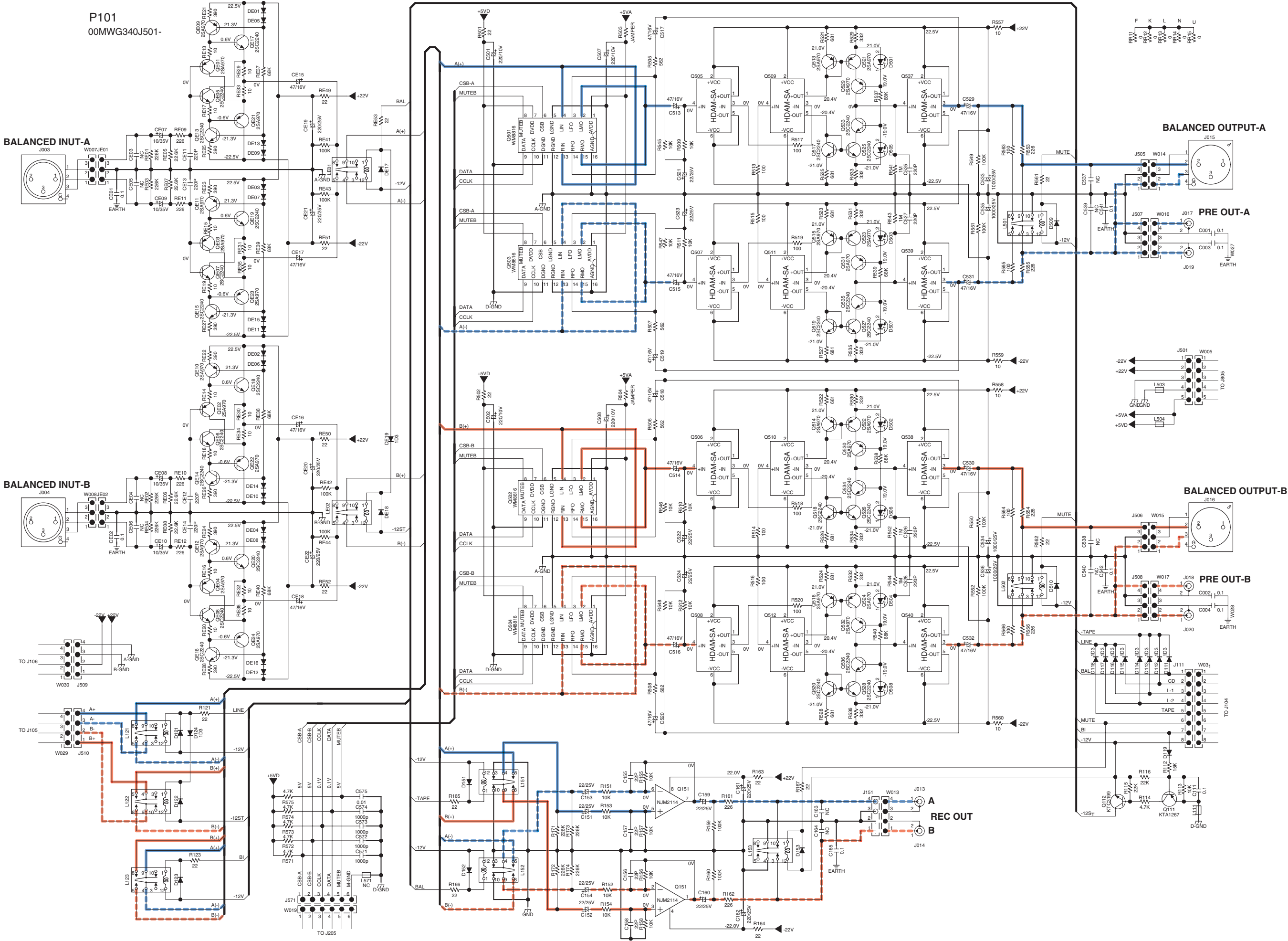
5. BLOCK DIAGRAM



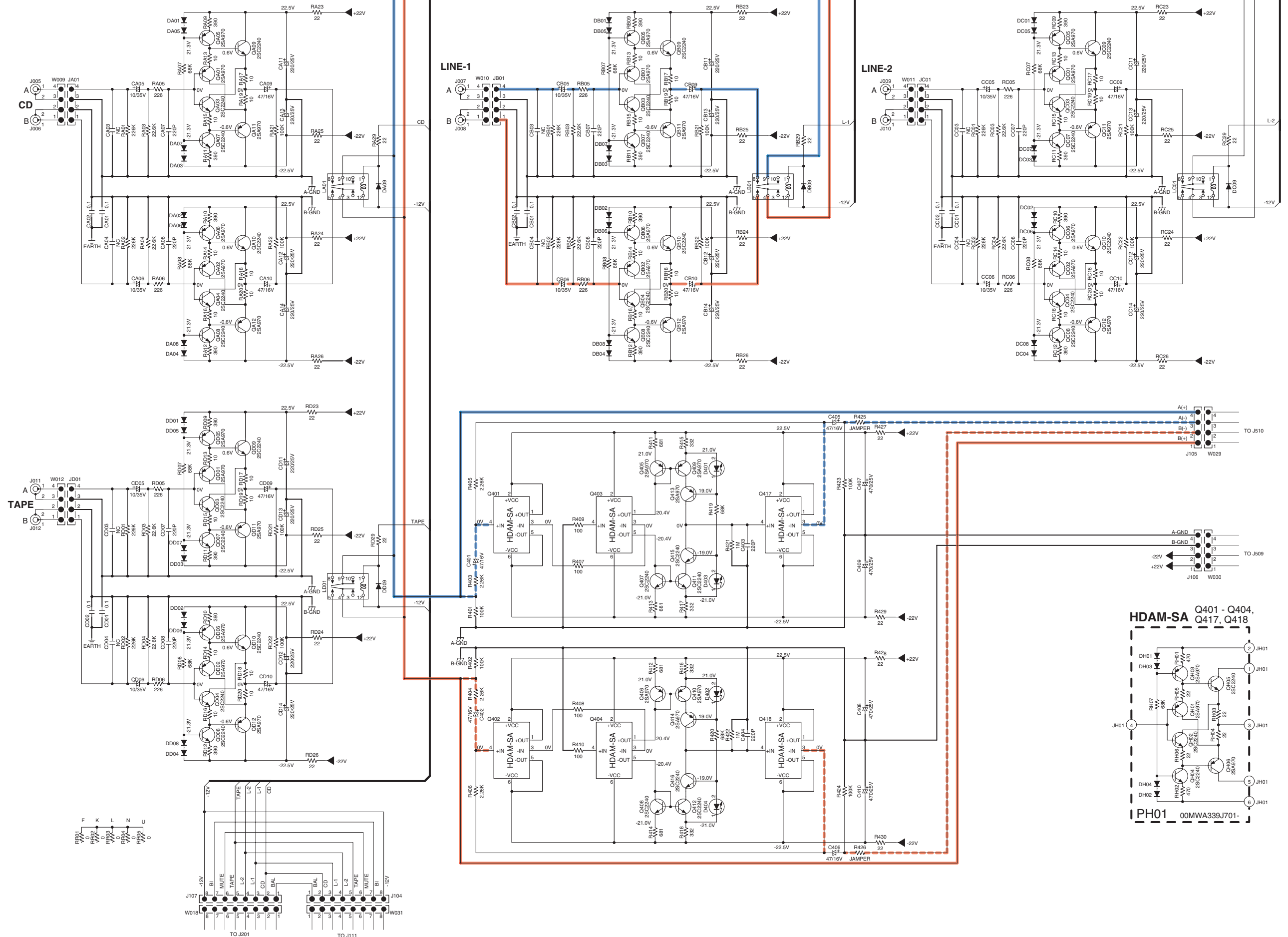
6. WIRING DIAGRAM

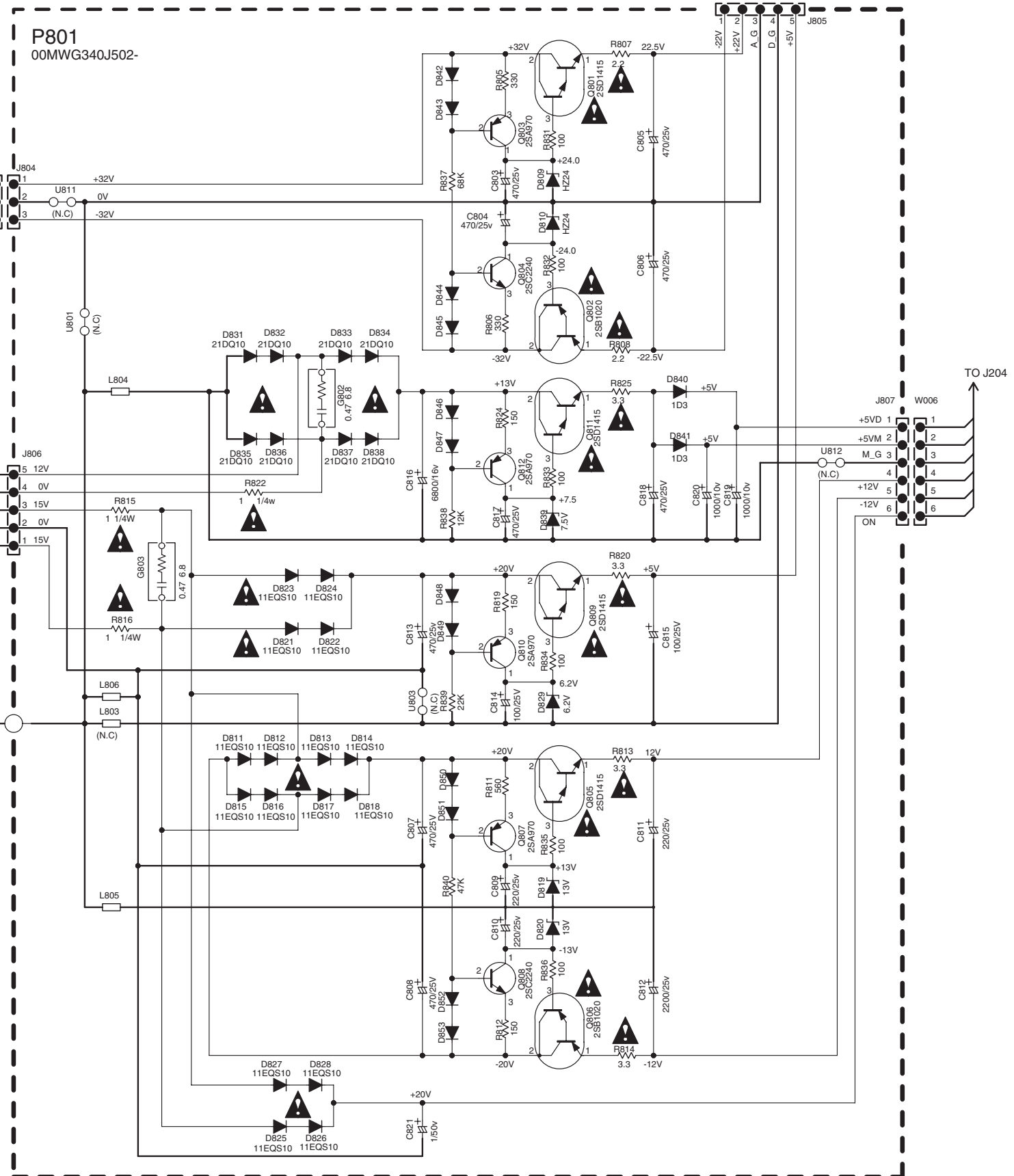
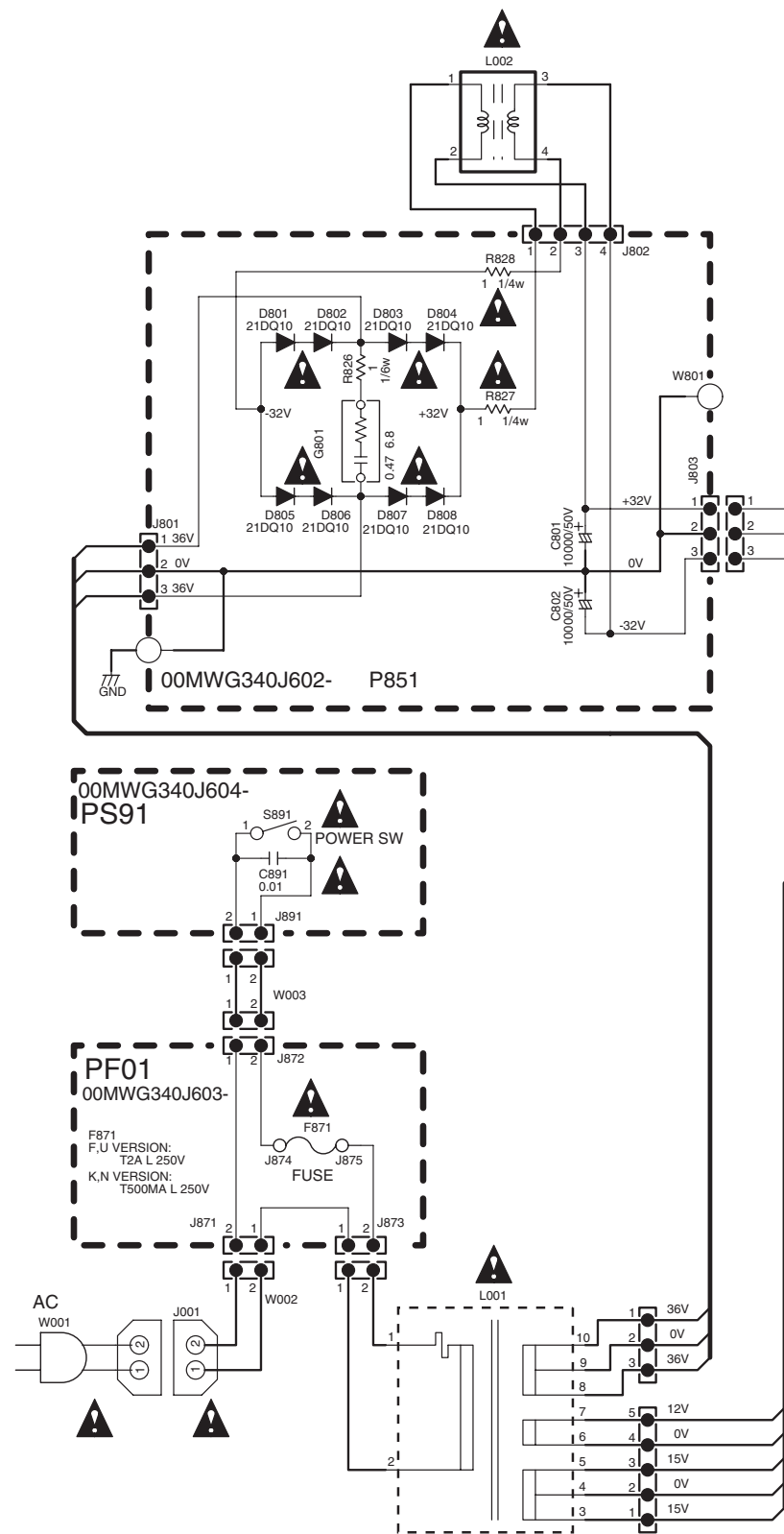


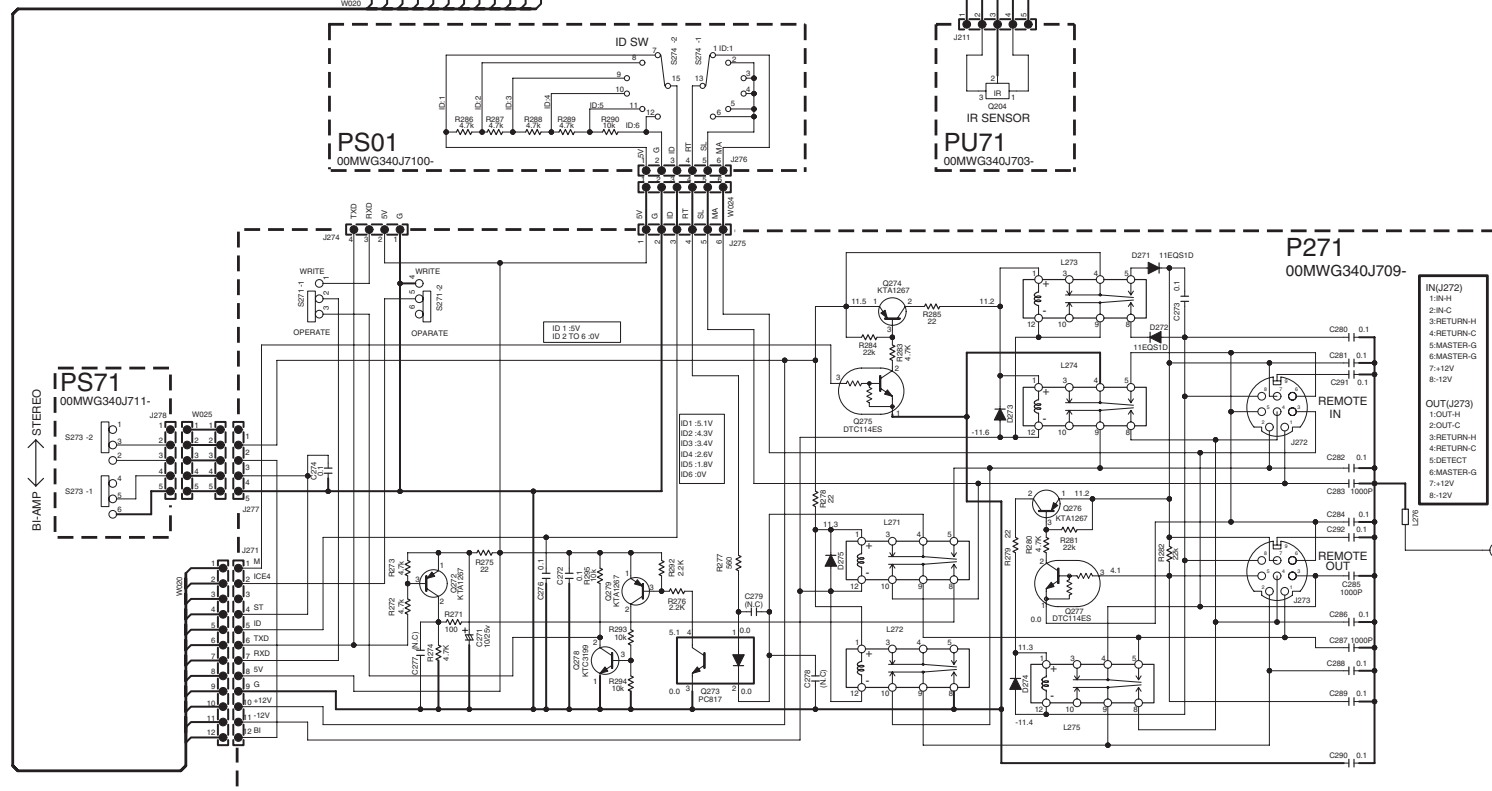
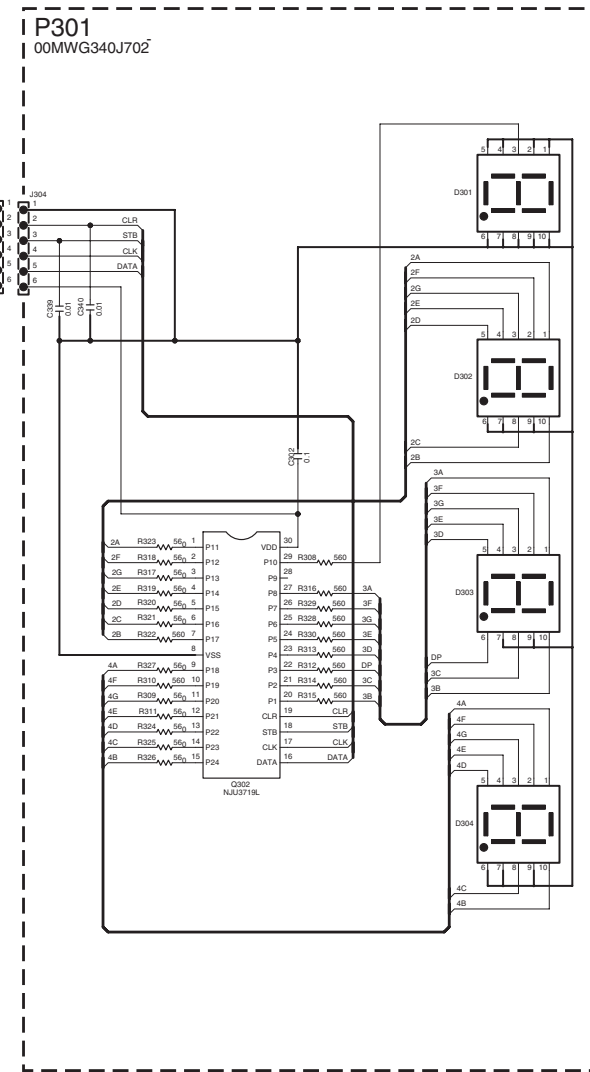
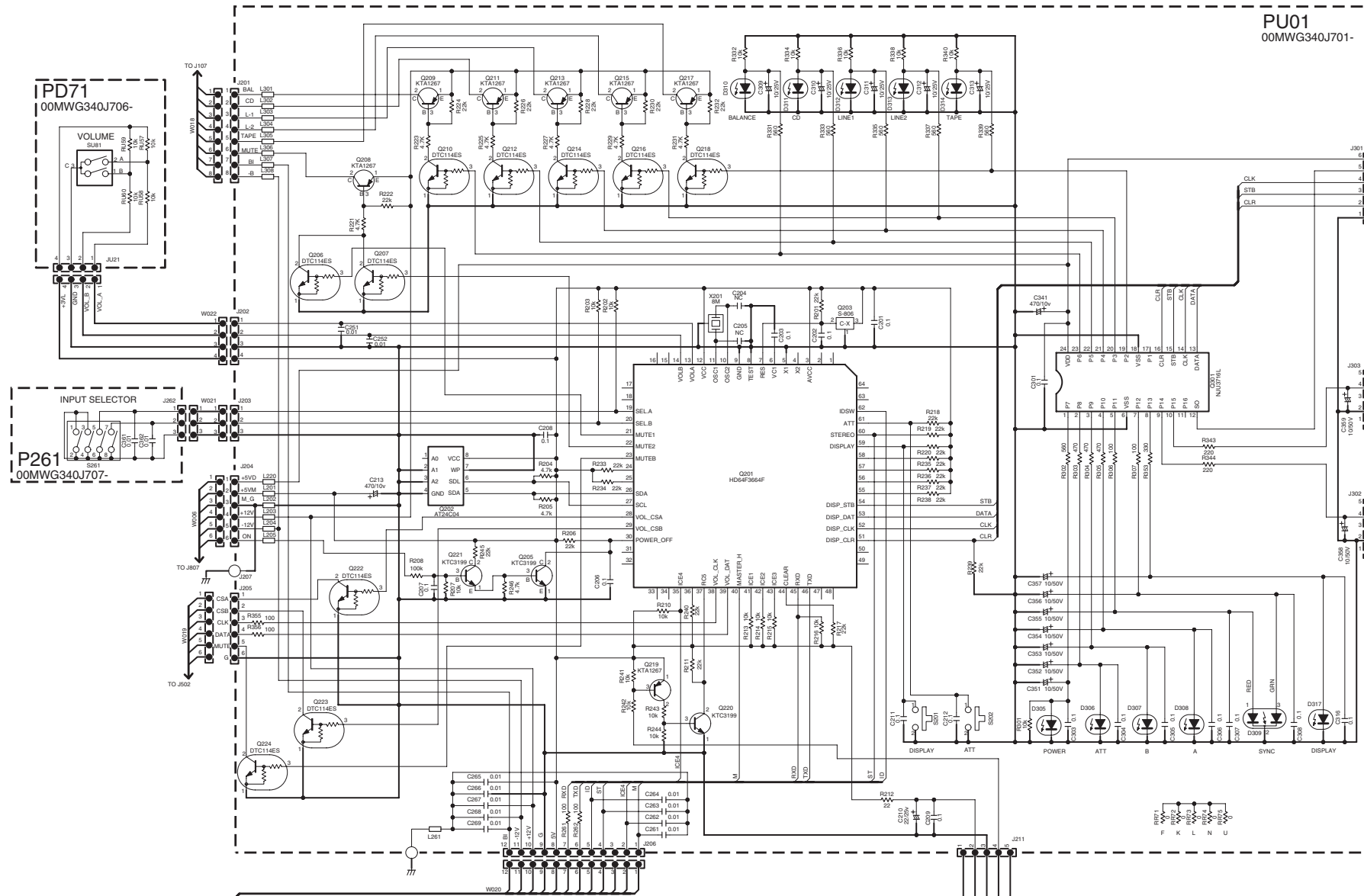
7. SCHEMATIC DIAGRAM



P401
00MWG340J6010







8. PARTS LOCATION

P101 PWB A

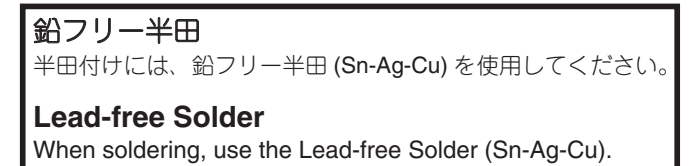
C111	B5	CE02	K1	DE06	K3	Q514	H11	R113	B5	R526	I10	RE07	I2
C151	C4	CE03	H1	DE07	I3	Q515	E11	R114	B5	R527	E10	RE08	L2
C152	C4	CE04	K1	DE08	K3	Q516	K11	R115	B5	R528	K10	RE09	H2
C153	D4	CE05	I1	DE09	H3	Q517	B10	R116	B5	R529	C11	RE10	J2
C154	D4	CE06	K1	DE10	J3	Q518	H10	R121	F5	R530	I11	RE11	I2
C155	C3	CE07	H1	DE11	J3	Q519	E10	R123	F5	R531	E11	RE12	L2
C156	D3	CE08	J1	DE12	L3	Q520	K10	R151	C4	R532	K11	RE13	H2
C157	C3	CE09	I1	DE13	H3	Q521	B11	R152	D4	R533	C10	RE14	K2
C158	D3	CE10	L1	DE14	J3	Q522	H11	R153	C3	R534	I10	RE15	I2
C159	C2	CE11	H2	DE15	I3	Q523	F11	R154	D3	R535	E10	RE16	K2
C160	D2	CE12	J2	DE16	L3	Q524	L11	R155	C3	R536	K10	RE17	H2
C161	C2	CE13	I2	DE17	H5	Q525	B10	R156	D3	R537	A10	RE18	J2
C162	D2	CE14	L2	DE18	K5	Q526	H10	R157	C3	R538	H10	RE19	I2
C163	C1	CE15	H4	DE19	K5	Q527	F10	R158	D3	R539	F10	RE20	L2
C164	D1	CE16	J4	J111	A5	Q528	L10	R159	C2	R540	L10	RE21	H2
C165	C1	CE17	I4	J151	D1	Q529	B11	R160	D2	R541	C10	RE22	K2
C501	D7	CE18	L4	J501	G12	Q530	H11	R161	C2	R542	I10	RE23	I2
C502	J7	CE19	H3	J505	D13	Q531	F11	R162	D2	R543	D10	RE24	K2
C507	D8	CE20	K3	J506	J13	Q532	L11	R163	C2	R544	K10	RE25	G2
C508	J8	CE21	I3	J507	D13	Q533	B10	R164	D2	R545	C8	RE26	J2
C517	C11	CE22	K3	J508	K13	Q534	H10	R165	C5	R546	I8	RE27	J2
C518	J11	D111	B4	J509	H6	Q535	F10	R166	D5	R547	D8	RE28	L2
C519	D11	D112	B4	J510	G6	Q536	L10	R167	B5	R548	K8	RE29	H3
C520	J11	D113	B4	J571	G7	Q537	B12	R171	C4	R549	C12	RE30	K3
C521	D8	D114	B4	JE01	I1	Q538	H12	R172	C4	R550	J12	RE31	I3
C522	J8	D115	A4	JE02	K1	Q539	E12	R173	D4	R551	D12	RE32	L3
C523	D8	D116	A4	L111	B5	Q540	L12	R174	E4	R552	J12	RE33	H3
C524	J8	D117	A4	L121	F5	QE01	H2	R501	G8	R553	D12	RE34	J3
C525	C10	D118	A4	L122	G5	QE02	K2	R502	G8	R554	J12	RE35	I3
C526	J10	D119	B5	L123	F5	QE03	I2	R503	G9	R555	D12	RE36	L3
C527	D10	D121	F5	L151	D5	QE04	L2	R504	G9	R556	J12	RE37	H3
C528	J10	D122	G5	L152	D5	QE05	H2	R505	C7	R557	G10	RE38	J3
C529	C11	D123	F5	L153	D2	QE06	J2	R506	I7	R558	G10	RE39	I3
C530	J11	D124	G5	L501	D12	QE07	I2	R507	D7	R559	G9	RE40	L3
C531	D11	D151	C5	L502	J12	QE08	L2	R508	K7	R560	G9	RE41	H4
C532	J11	D152	D5	L503	G11	QE09	H3	R509	C8	R561	D13	RE42	K4
C533	D10	D153	D2	L504	G11	QE10	K3	R510	I8	R562	J13	RE43	I4
C534	J10	D501	B11	L571	G8	QE11	I3	R511	E8	R563	D11	RE44	K4
C535	D9	D502	H11	LE01	I5	QE12	K3	R512	K8	R564	J11	RE49	H5
C536	J9	D503	F11	LE02	K5	QE13	G3	R513	C9	R565	D11	RE50	J5
C537	C12	D504	L11	Q111	B5	QE14	J3	R514	I9	R566	J11	RE51	I5
C538	J12	D505	B10	Q112	B5	QE15	J3	R515	D9	R571	G7	RE52	L5
C539	D12	D506	H10	Q151	D3	QE16	L3	R516	K9	R572	G8	RE53	H5
C540	J12	D507	F10	Q505	B7	QE17	H3	R517	B8	R573	G8	RR11	B2
C541	E13	D508	L10	Q506	H7	QE18	K3	R518	H8	R574	G8	RR12	B2
C542	I13	D509	D12	Q507	E7	QE19	I3	R519	E8	R575	G8	RR13	B2
C571	F7	D510	J12	Q508	L7	QE20	K3	R520	K8	RE01	H1	RR14	B2
C572	F8	DE01	H3	Q509	B9	QE21	H3	R521	C10	RE02	K1	RR15	B2
C573	F8	DE02	K3	Q510	H9	QE22	J3	R522	I10	RE03	I1		
C574	F8	DE03	I3	Q511	E9	QE23	I3	R523	E10	RE04	K1		
C575	F8	DE04	K3	Q512	L9	QE24	L3	R524	K10	RE05	H2		
CE01	H1	DE05	H3	Q513	B11	R112	B5	R525	C10	RE06	J2		

鉛フリー半田

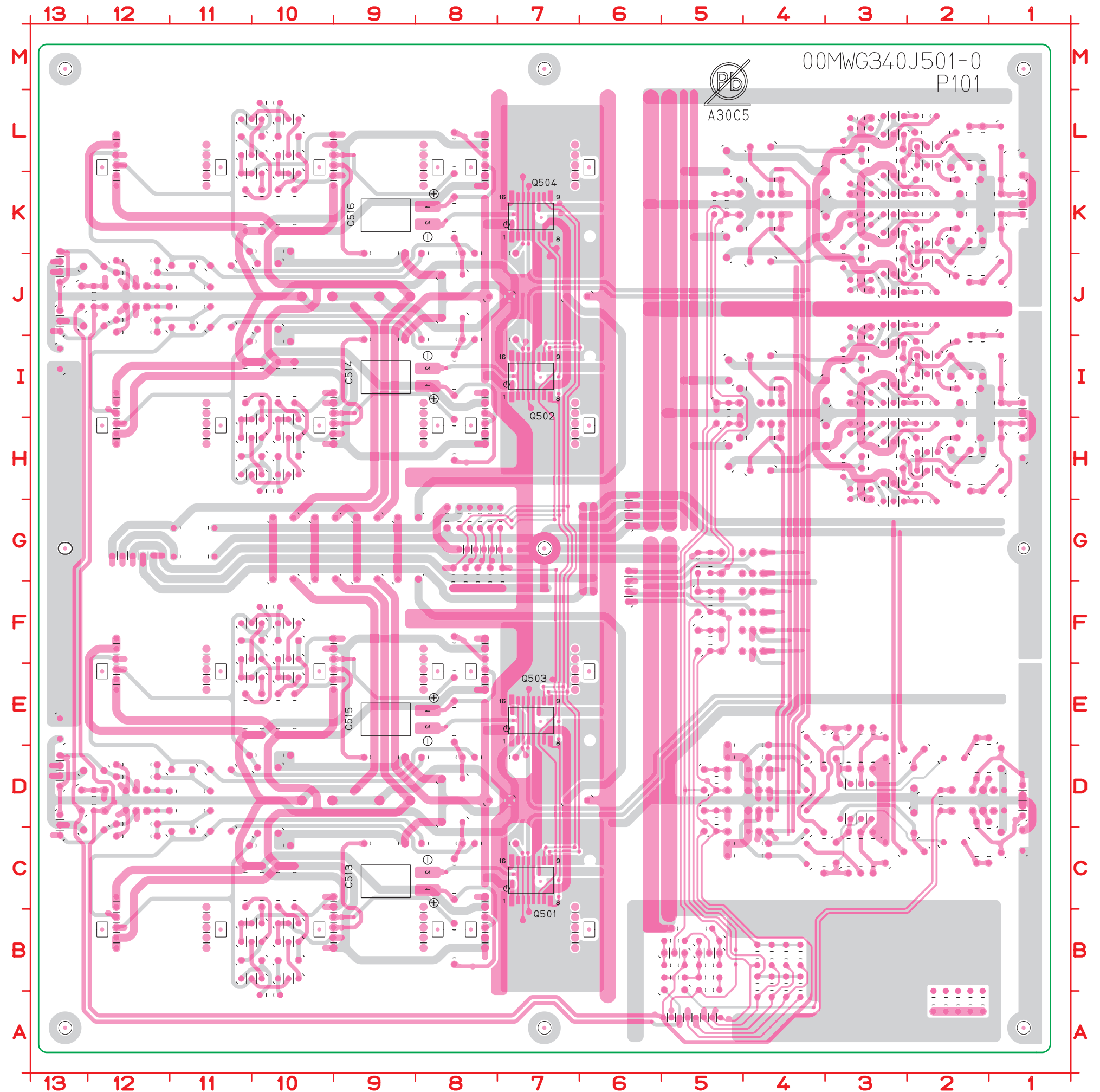
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder

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

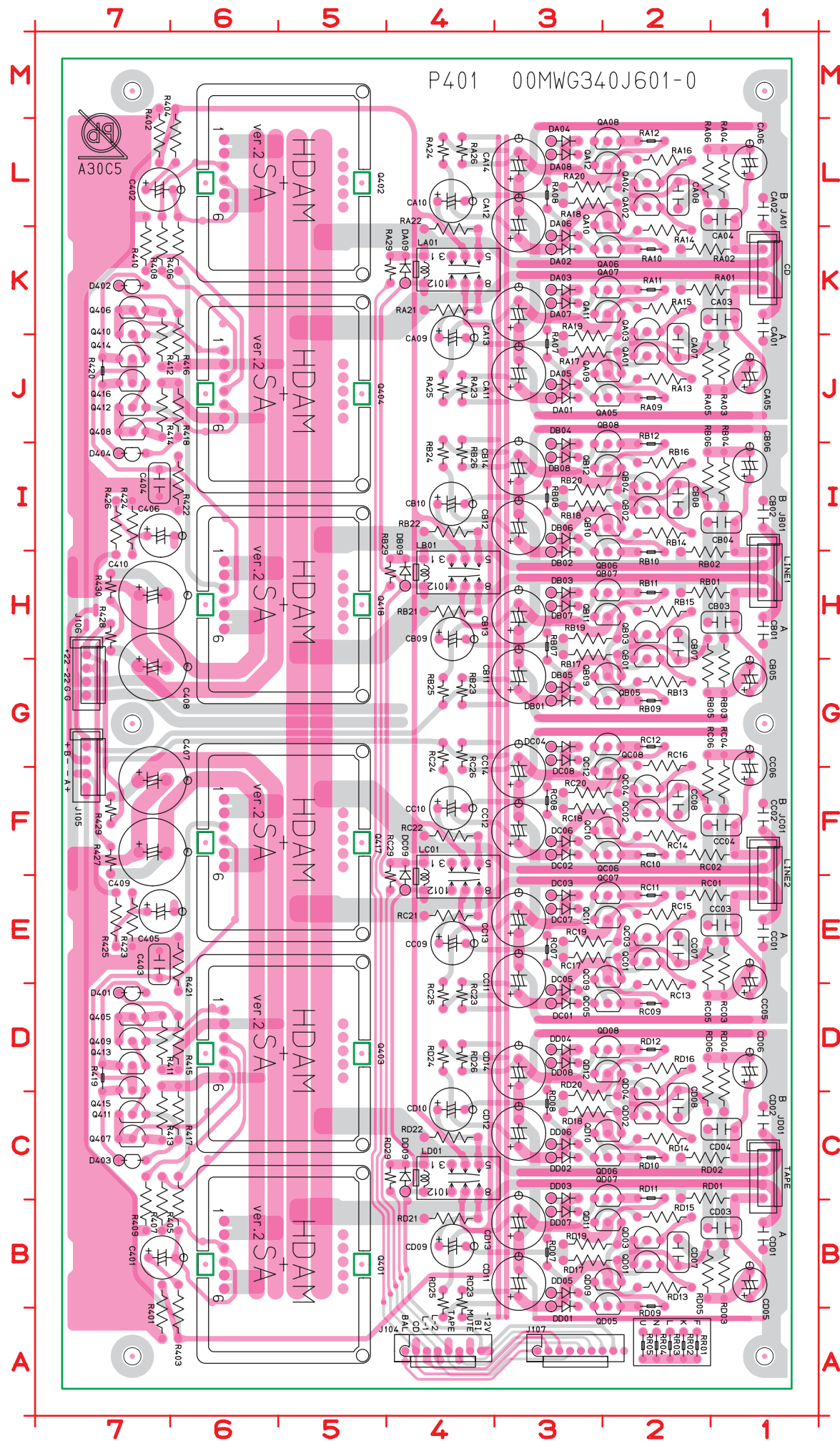


P101 PWB B
 C513 C8
 C514 I8
 C515 E8
 C516 K8
 Q501 C7
 Q502 I7
 Q503 E7
 Q504 K7



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).



P401 PWB B

C401	B7	CC09	E4	DC05	D3	QA03	K2	R401	A7	RA17	J2	RC09	D2	RR01	A2
C402	L7	CC10	F4	DC06	F3	QA04	L2	R402	L7	RA18	L2	RC10	F2	RR02	A2
C403	E7	CC11	D3	DC07	E3	QA05	J2	R403	A6	RA19	J2	RC11	E2	RR03	A2
C404	I7	CC12	F3	DC08	G3	QA06	K2	R404	L6	RA20	L2	RC12	G2	RR04	A2
C405	E7	CC13	E3	DC09	E4	QA07	K2	R405	B6	RA21	K4	RC13	D2	RR05	A2
C406	I7	CC14	F3	DD01	B3	QA08	L2	R406	K6	RA22	K4	RC14	F2		
C407	F7	CD01	B1	DD02	C3	QA09	J2	R407	B7	RA23	J4	RC15	E2		
C408	G7	CD02	C1	DD03	C3	QA10	L2	R408	K7	RA24	L4	RC16	G2		
C409	F7	CD03	B1	DD04	D3	QA11	K2	R409	B7	RA25	J4	RC17	E2		
C410	H7	CD04	C1	DD05	B3	QA12	L2	R410	K7	RA26	L4	RC18	F2		
CA01	J1	CD05	B1	DD06	C3	QB01	H2	R411	D7	RA29	K4	RC19	E2		
CA02	L1	CD06	D1	DD07	B3	QB02	I2	R412	J7	RB01	H1	RC20	F2		
CA03	K1	CD07	B2	DD08	D3	QB03	H2	R413	C7	RB02	H1	RC21	E4		
CA04	L1	CD08	C2	DD09	C4	QB04	I2	R414	J7	RB03	G1	RC22	F4		
CA05	J1	CD09	B4	J104	A4	QB05	G2	R415	D6	RB04	I1	RC23	D4		
CA06	L1	CD10	C4	J105	G7	QB06	H2	R416	J6	RB05	G2	RC24	F4		
CA07	J2	CD11	B3	J106	H7	QB07	H2	R417	C6	RB06	I2	RC25	D4		
CA08	L2	CD12	C3	J107	A3	QB08	I2	R418	J6	RB07	G3	RC26	F4		
CA09	J4	CD13	B3	JA01	K1	QB09	G2	R419	D7	RB08	I3	RC29	E4		
CA10	L4	CD14	D3	JB01	H1	QB10	I2	R420	J7	RB09	G2	RD01	C1		
CA11	J3	D401	D7	JC01	F1	QB11	H2	R421	D6	RB10	H2	RD02	C1		
CA12	K3	D402	K7	JD01	C1	QB12	I2	R422	I6	RB11	H2	RD03	B1		
CA13	K3	D403	C7	LA01	K4	QC01	E2	R423	E7	RB12	I2	RD04	C1		
CA14	L3	D404	I7	LB01	H4	QC02	F2	R424	H7	RB13	G2	RD05	B2		
CB01	H1	DA01	J3	LC01	F4	QC03	E2	R425	E7	RB14	I2	RD06	C2		
CB02	I1	DA02	K3	LD01	C4	QC04	F2	R426	H7	RB15	H2	RD07	B3		
CB03	H1	DA03	K3	Q401	B5	QC05	D2	R427	F7	RB16	I2	RD08	C3		
CB04	I1	DA04	L3	Q402	L5	QC06	F2	R428	H7	RB17	H2	RD09	B2		
CB05	G1	DA05	J3	Q403	D5	QC07	E2	R429	F7	RB18	I2	RD10	C2		
CB06	I1	DA06	K3	Q404	J5	QC08	G2	R430	H7	RB19	H2	RD11	C2		
CB07	G2	DA07	K3	Q405	D7	QC09	E2	RA01	K1	RB20	I2	RD12	D2		
CB08	I2	DA08	L3	Q406	K7	QC10	F2	RA02	K1	RB21	H4	RD13	B2		
CB09	H4	DA09	K4	Q407	C7	QC11	E2	RA03	J1	RB22	I4	RD14	C2		
CB10	I4	DB01	G3	Q408	J7	QC12	F2	RA04	L1	RB23	G4	RD15	B2		
CB11	G3	DB02	H3	Q409	D7	QD01	B2	RA05	J2	RB24	I4	RD16	D2		
CB12	I3	DB03	H3	Q410	K7	QD02	C2	RA06	L2	RB25	G4	RD17	B2		
CB13	H3	DB04	I3	Q411	C7	QD03	B2	RA07	J3	RB26	I4	RD18	C2		
CB14	I3	DB05	G3	Q412	J7	QD04	D2	RA08	L3	RB29	H4	RD19	B2		
CC01	E1	DB06	I3	Q413	D7	QD05	B2	RA09	J2	RC01	E1	RD20	C2		
CC02	F1	DB07	H3	Q414	J7	QD06	C2	RA10	K2	RC02	F1	RD21	B4		
CC03	E1	DB08	I3	Q415	D7	QD07	C2	RA11	K2	RC03	D1	RD22	C4		
CC04	F1	DB09	H4	Q416	J7	QD08	D2	RA12	L2	RC04	F1	RD23	A4		
CC05	D1	DC01	D3	Q417	F5	QD09	B2	RA13	J2	RC05	D2	RD24	D4		
CC06	F1	DC02	F3	Q418	H5	QD10	C2	RA14	K2	RC06	F2	RD25	A4		
CC07	E2	DC03	E3	QA01	J2	QD11	B2	RA15	K2	RC07	E3	RD26	D4		
CC08	F2	DC04	G3	QA02	L2	QD12	D2	RA16	L2	RC08	F3	RD29	C4		

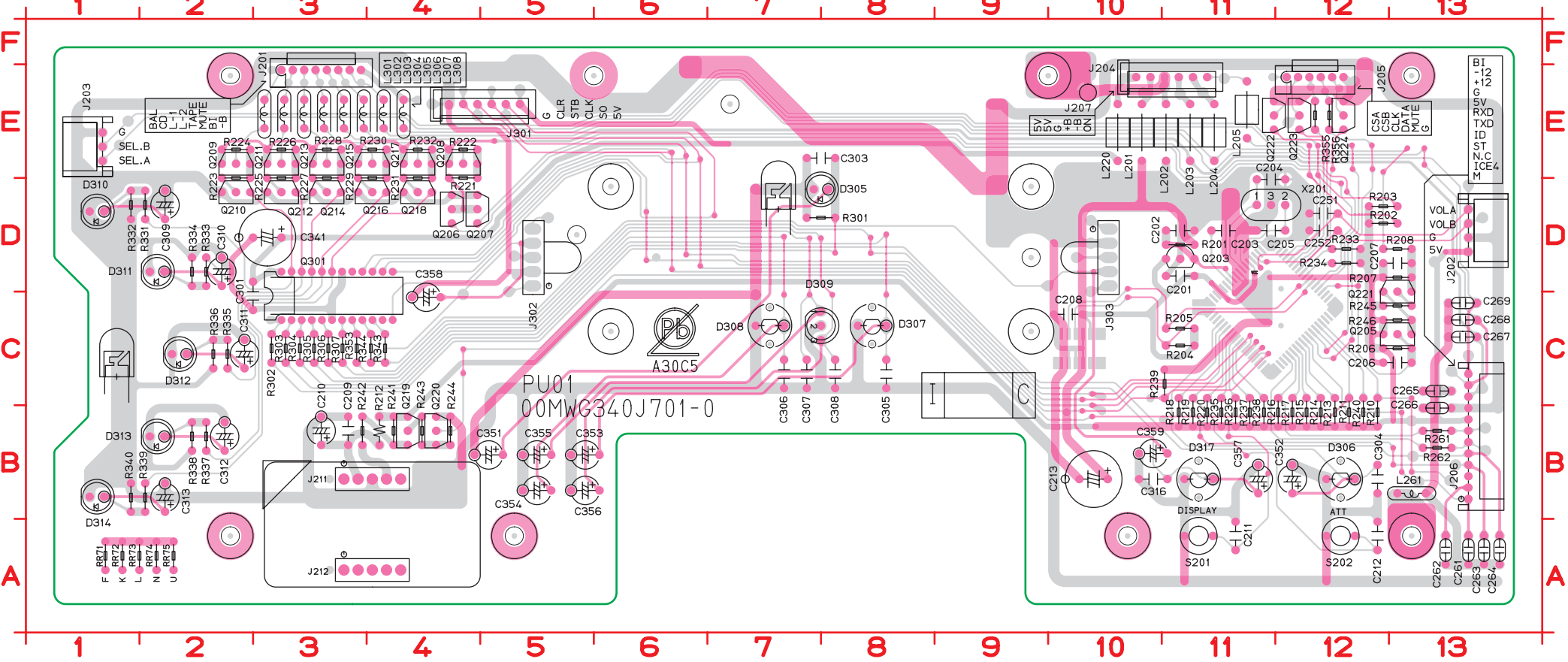
鉛フリー半田

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder

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

PU01 PWB A

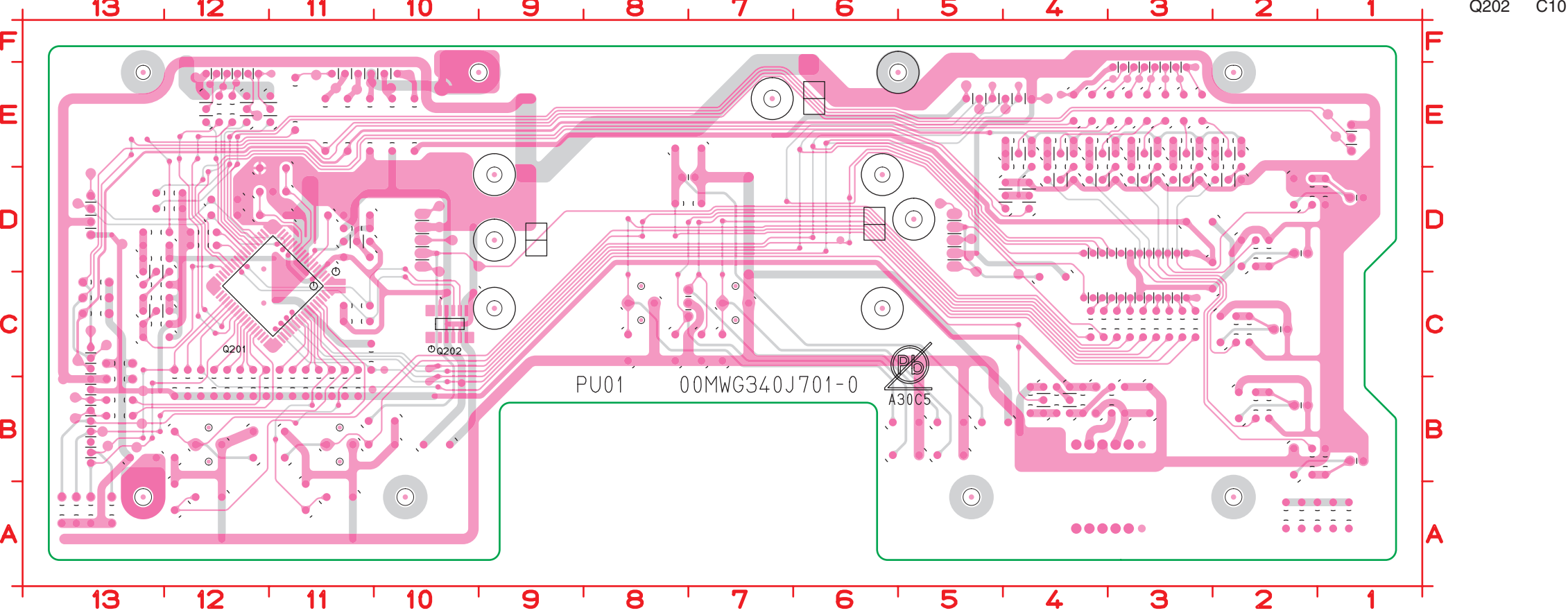


C201	D11	C267	C13	C355	B5	J206	B13	L308	E4	Q223	E12	R220	B11	R241	B4	R337	B2
C202	D11	C268	C13	C356	B6	J207	E10	Q201	C11	Q224	E12	R221	E4	R242	B3	R338	B2
C203	D11	C269	C13	C357	B11	J211	B3	Q203	D11	Q301	C3	R222	E4	R243	B4	R339	B2
C204	D11	C301	C3	C358	C4	J212	A3	Q205	C13	R201	D11	R223	E2	R244	B4	R340	B1
C205	D11	C303	E7	C359	B11	J301	E4	Q206	D4	R202	D12	R224	E2	R245	C12	R343	C4
C206	C12	C304	B12	D305	D8	J302	D5	Q207	D4	R203	D12	R225	E3	R246	C12	R344	C4
C207	D12	C305	C8	D306	B12	J303	D10	Q208	E4	R204	C11	R226	E3	R261	B13	R353	C3
C208	C10	C306	C7	D307	C8	L201	E10	Q209	E2	R205	C11	R227	E3	R262	B13	R355	E12
C209	B3	C307	C7	D308	C7	L202	E11	Q210	D2	R206	C12	R228	E3	R301	D7	R356	E12
C210	B3	C308	C8	D309	C8	L203	E11	Q211	E3	R207	D12	R229	E3	R302	C3	RR71	A1
C211	A11	C309	D2	D310	D1	L204	E11	Q212	D3	R208	D12	R230	E3	R303	C3	RR72	A1
C212	A12	C310	D2	D311	D2	L205	E11	Q213	E3	R210	B12	R231	E4	R304	C3	RR73	A2
C213	B10	C311	C2	D312	C2	L220	E10	Q214	D3	R211	B12	R232	E4	R305	C3	RR74	A2
C251	D12	C312	B2	D313	B2	L261	B13	Q215	E4	R212	B4	R233	D12	R306	C3	RR75	A2
C252	D12	C313	B2	D314	B1	L301	E3	Q216	D4	R213	B12	R234	D12	R307	C3	S201	A11
C261	A13	C316	B10	D317	B11	L302	E3	Q217	E4	R214	B12	R235	B11	R331	D2	S202	A12
C262	A13	C341	D3	J201	E3	L303	E3	Q218	D4	R215	B12	R236	B11	R332	D1	X201	D11
C263	A13	C351	B5	J202	D13	L304	E3	Q219	B4	R216	B12	R237	B11	R333	D2		
C264	A13	C352	B12	J203	E1	L305	E3	Q220	B4	R217	B12	R238	B11	R334	D2		
C265	C13	C353	B6	J204	E10	L306	E3	Q221	D13	R218	B11	R239	C11	R335	C2		
C266	B13	C354	B5	J205	E12	L307	E4	Q222	E11	R219	B11	R240	B12	R336	C2		

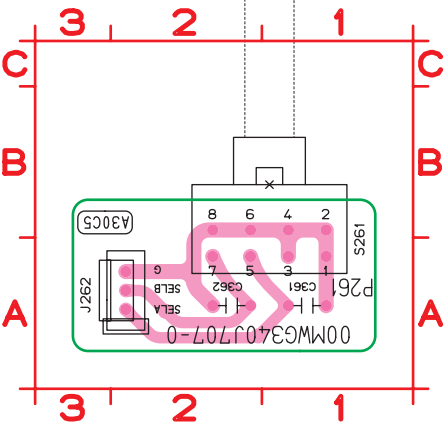
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

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

PU01 PWB B

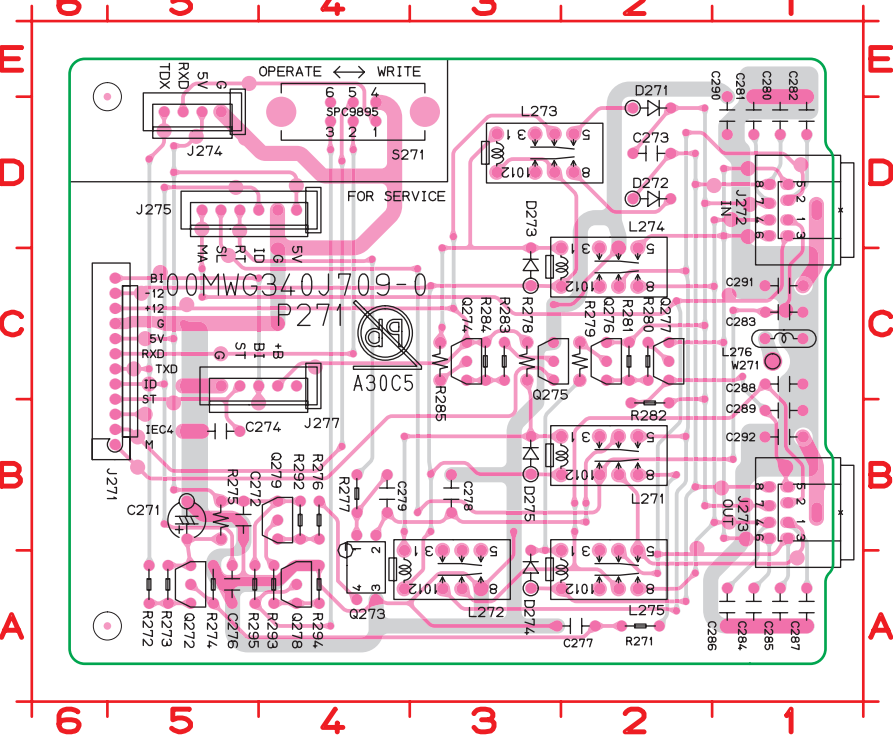


P261 PWB B



C361	A1
C362	A2
J262	A2
S261	B1

P271 PWB B

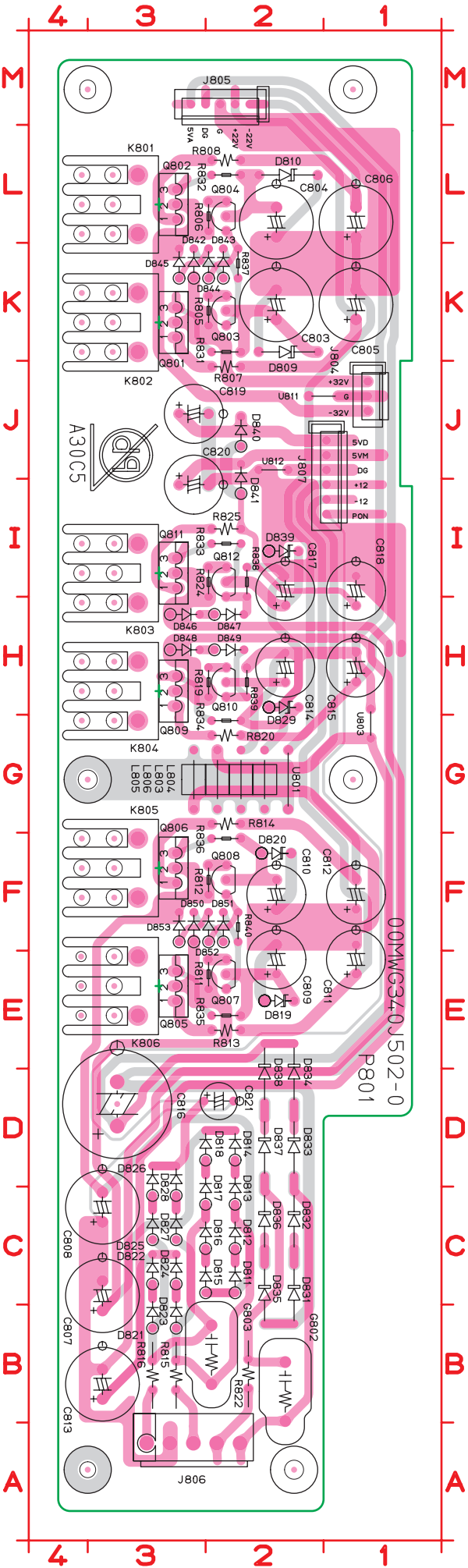


C271	B5	C291	C1	Q272	A5	R282	B2
C272	B5	C292	B1	Q273	B4	R283	C3
C273	D2	D271	D2	Q274	C3	R284	C3
C274	B5	D272	D2	Q275	C3	R285	C3
C276	A5	D273	C3	Q276	C2	R292	B4
C277	A2	D274	A3	Q277	C2	R293	A4
C278	B3	D275	B3	Q278	A4	R294	A4
C279	B4	J271	B5	Q279	B4	R295	A5
C280	D1	J272	D1	R271	A2	S271	D4
C281	D1	J273	B1	R272	A5	W271	C1
C282	D1	J274	D5	R273	A5		
C283	C1	J275	D4	R274	A5		
C284	A1	J277	C4	R275	B5		
C285	A1	L271	B3	R276	B4		
C286	A1	L272	B4	R277	B4		
C287	A1	L273	D3	R278	C3		
C288	C1	L274	D3	R279	C2		
C289	B1	L275	B3	R280	C2		
C290	D1	L276	C1	R281	C2		

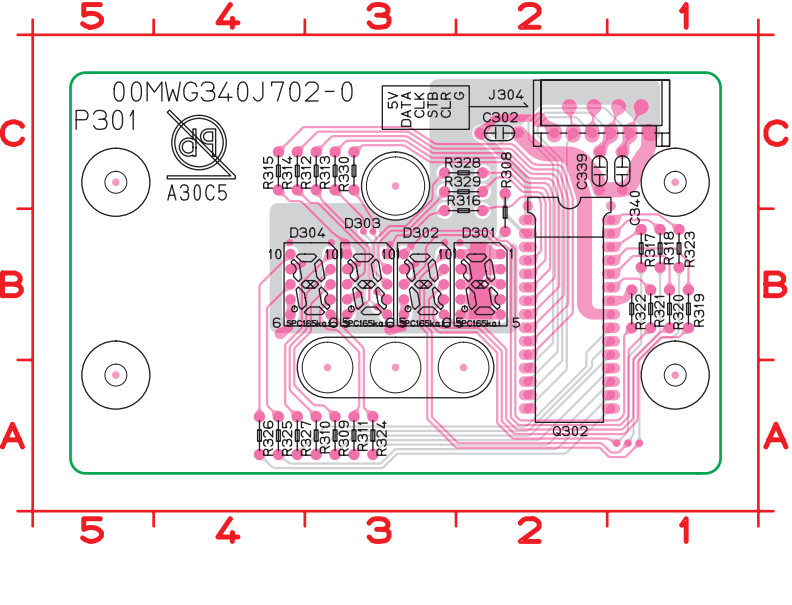
鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

P801 PWB B

C803	K2	D837	D2	R814	G2
C804	L2	D838	D2	R815	B3
C805	K1	D839	I2	R816	B3
C806	L1	D840	J2	R819	H2
C807	B3	D841	I2	R820	G2
C808	C3	D842	K3	R822	B2
C809	E2	D843	K2	R824	I2
C810	F2	D844	K2	R825	I2
C811	E1	D845	K3	R831	K2
C812	F1	D846	H3	R832	L2
C813	B3	D847	H2	R833	I2
C814	H2	D848	H3	R834	G2
C815	H1	D849	H2	R835	E2
C816	D3	D850	F3	R836	F2
C817	H2	D851	F2	R837	K2
C818	H1	D852	F2	R838	I2
C819	J3	D853	F3	R839	H2
C820	I3	G802	B2	R840	F2
C821	D3	G803	B2	U801	G2
D809	K2	J804	J1	U803	G1
D810	L2	J805	M2	U811	J1
D811	C2	J806	A3	U812	J2
D812	C2	J807	J1		
D813	C2	L803	G2		
D814	D2	L804	G2		
D815	C3	L805	G3		
D816	C3	L806	G2		
D817	C3	Q801	K3		
D818	D3	Q802	L3		
D819	E2	Q803	K2		
D820	F2	Q804	L2		
D821	B3	Q805	E3		
D822	C3	Q806	F3		
D823	B3	Q807	E2		
D824	C3	Q808	F2		
D825	C3	Q809	H3		
D826	C3	Q810	H2		
D827	C3	Q811	I3		
D828	C3	Q812	I2		
D829	H2	R805	K2		
D831	B2	R806	L2		
D832	C2	R807	J2		
D833	D2	R808	L2		
D834	D2	R811	E2		
D835	B2	R812	F2		
D836	C2	R813	E2		

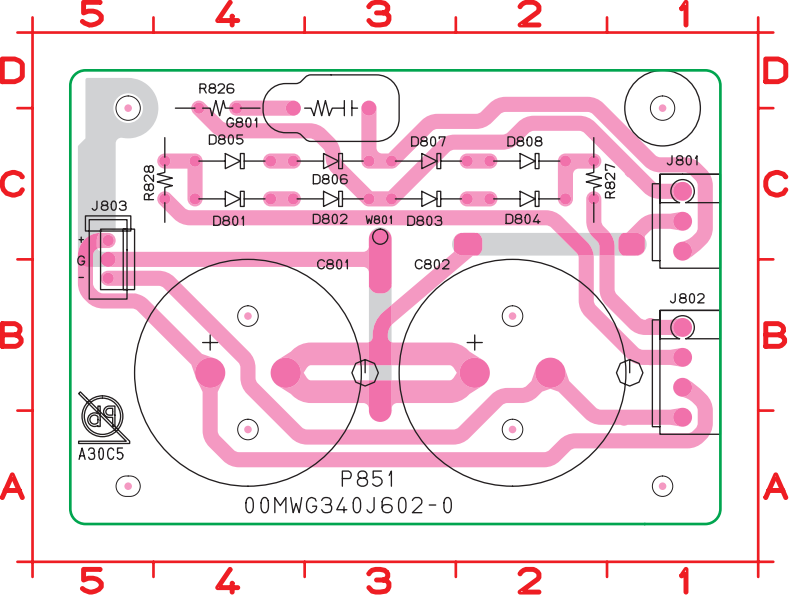


P301 PWB B



C302	C2	R316	B2
C339	C2	R317	B1
C340	C1	R318	B1
D301	B2	R319	B1
D302	B3	R320	B1
D303	B3	R321	B1
D304	B3	R322	B1
J304	C1	R323	B1
Q302	B1	R324	A3
R308	B2	R325	A4
R309	A3	R326	A4
R310	A3	R327	A4
R311	A3	R328	C2
R312	C3	R329	C2
R313	C3	R330	C3
R314	C4		
R315	C4		

P851 PWB B

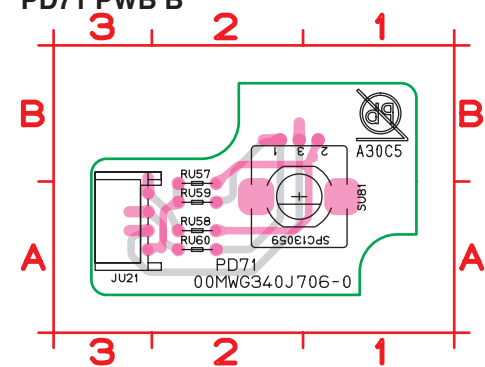


C801	B4
C802	B2
D801	C4
D802	C4
D803	C3
D804	C2
D805	C4
D806	C4
D807	C3
D808	C2
G801	D4
J801	C1
J802	B1
J803	C5
R826	D4
R827	C2
R828	C4
W801	C3

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。

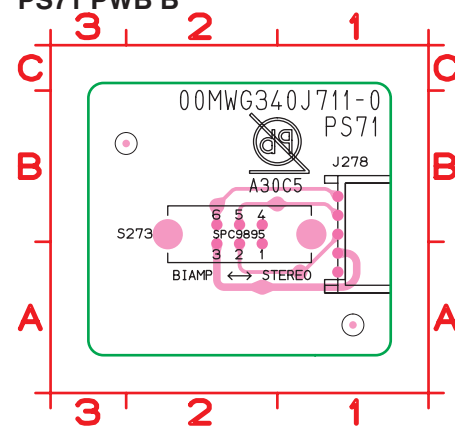
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PD71 PWB B



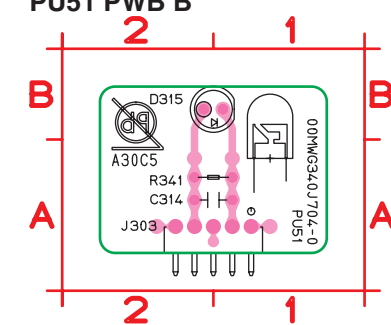
JU21	A3
RU57	A2
RU58	A2
RU59	A2
RU60	A2
SU81	A2

PS71 PWB B



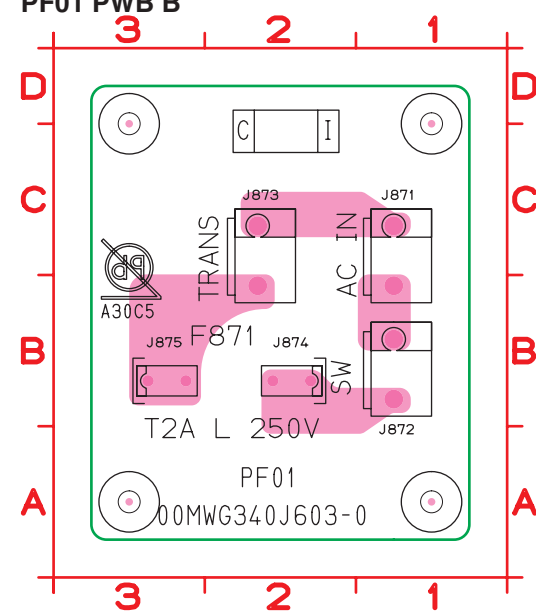
J278	A1
S273	B2

PU51 PWB B



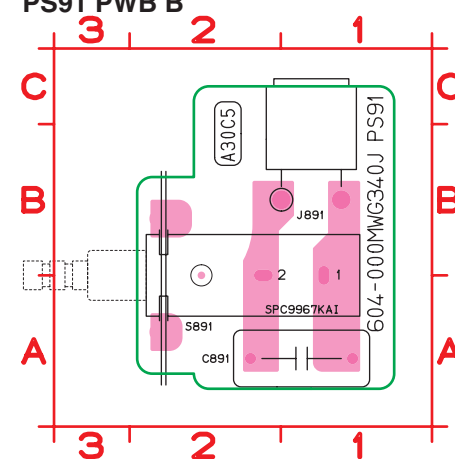
C314	A1
D315	B2
J303	A1
R341	A1

PF01 PWB B



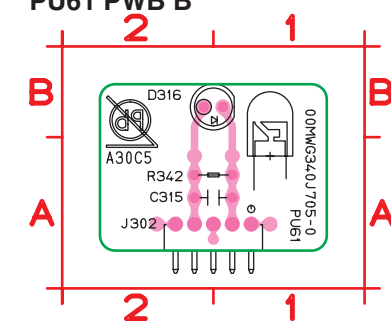
J871	C1
J872	B1
J873	C2
J874	B2
J875	B3

PS91 PWB B



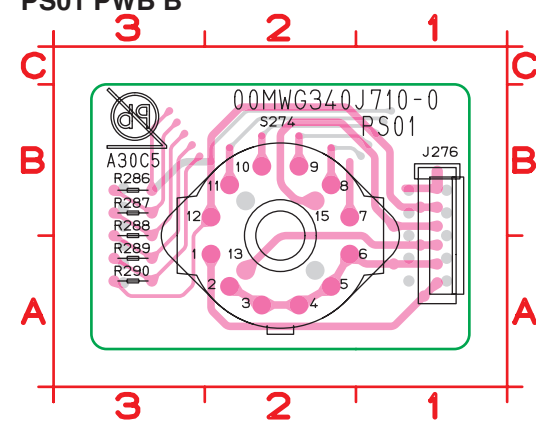
C891	A1
J891	B1
S891	B2

PU61 PWB B



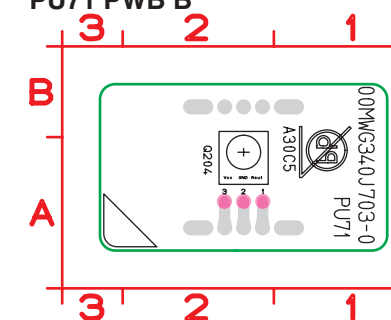
C315	A1
D316	B2
J302	A1
R342	A1

PS01 PWB B



J276	B1
R286	B3
R287	B3
R288	B3
R289	A3
R290	A3
S274	B2

PU71 PWB B



J211	A2
J212	B2
Q204	A2

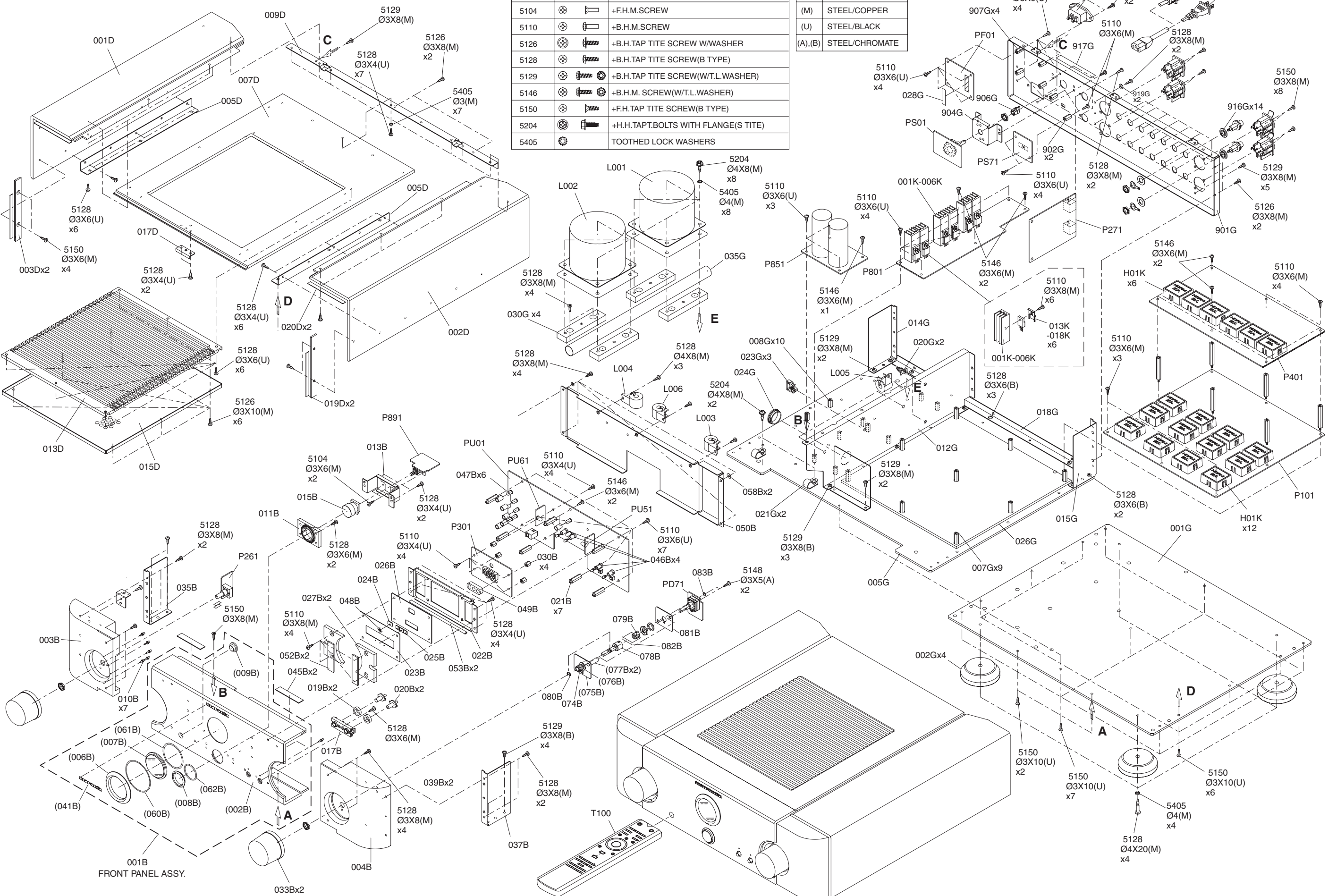
鉛フリー半田

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder

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

9. EXPLODED VIEW AND PARTS LIST



SYMBOL	STYLE	PARTS NAME
5104		+F.H.M. SCREW
5110		+B.H.M. SCREW
5126		+B.H. TAP TITE SCREW W/WASHER
5128		+B.H. TAP TITE SCREW (B TYPE)
5129		+B.H. TAP TITE SCREW (W/T.L. WASHER)
5146		+B.H.M. SCREW (W/T.L. WASHER)
5150		+F.H. TAP TITE SCREW (B TYPE)
5204		+H.H. TAP TITE BOLTS WITH FLANGE (S TITE)
5405		TOOTHED LOCK WASHERS

MARK	MATERIAL/FINISH
(M)	STEEL/COPPER
(U)	STEEL/BLACK
(A),(B)	STEEL/CHROMATE

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
	001B		99M340J248410	99M340J248410	FRONT PANEL	FRONT PANEL ASSY
	002B		00M340J248120	00M340J248120	FRONT PANEL	FRONT PANEL
	003B		00M340J063110	00M340J063110	ESCUTCHEON	ESCUTCHEON LEFT
	004B		00M340J063120	00M340J063120	ESCUTCHEON	ESCUTCHEON RIGHT
	006B		00M339J353210	00M339J353210	RING	RING FOR METER
	007B		00M339J158010	00M339J158010	WINDOW	WINDOW FOR METER
	008B		00M339J353120	00M339J353120	RING	RING FOR POWER SWITCH
	009B		00M340J355010	00M340J355010	LENS	LENS FOR IR
	010B		00M269J355010	00M269J355010	LENS	LENS INPUT SEL / ATT
	015B		00M339J270110	00M339J270110	BUTTON	BUTTON POWER SWITCH
	020B		00M340J270110	00M340J270110	BUTTON	BUTTON DISPLAY / ATT
	024B		00M339J355020	00M339J355020	LENS	LENS STAR MARK
	025B		00M340J355020	00M340J355020	LENS	LENS A/B/SYNC
	027B		00M339J355010	00M339J355010	LENS	LENS SIDE LIGHTING
	033B		00M340J154110	00M340J154110	KNOB	KNOB INPUT SEL / VOLUME
	041B		00M04AJ251010	00M04AJ251010	BADGE	BADGE (MARANTZ)
	078B		00M04AJ112110	00M04AJ112110	SHAFT	VOLUME SHAFT
	001D		00M340J249110	00M340J249110	SIDE PANEL	SIDE PANEL LEFT
	002D		00M340J249120	00M340J249120	SIDE PANEL	SIDE PANEL RIGHT
	003D		00M340J063130	00M340J063130	ESCUTCHEON	ESCUTCHEON
	007D		00M339J257110	00M339J257110	LID	TOP LID
	013D		00M339J063130	00M339J063130	ESCUTCHEON	ESCUTCHEON TOP LID
	015D		00M339J202010	00M339J202010	NET	NET ESCUTCHEON
	002G		00M163J057220	00M163J057220	LEG	LEG (CUPPER)
	906G		00M426T154010	00M426T154010	KNOB	KNOB ID NO. SWITCH
	▲ J001		00MYJ04002550	00MYJ04002550	JACK	! MAINS INLET TYPE HF-301
	J003		00MYJ01004760	00MYJ01004760	JACK	NC3FDL-B-1
	J004		00MYJ01004760	00MYJ01004760	JACK	NC3FDL-B-1
	J005		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J006		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J007		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J008		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J009		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J010		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J011		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J012		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J013		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J014		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J015		00MYP01001140	00MYP01001140	PLUG	NC3MDL-B-1
	J016		00MYP01001140	00MYP01001140	PLUG	NC3MDL-B-1
	J017		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J018		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J019		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	J020		00MYT02011300	00MYT02011300	TERMINAL	EW-2560T-LH-B
	▲ L001	F N	nsp	00MTS40701010	TRANSF.	# POWER TRANSF. FOR F
	▲ L001	/K1G	nsp	00MTS40701020	TRANSF.	# POWER TRANSF. FOR N
	▲ L001	/N1G	00MTS40701020	00MTS40701020	TRANSF.	# POWER TRANSF. FOR N
	▲ L001	/U1B	nsp	00MTS40701030	TRANSF.	# POWER TRANSF. FOR U
	▲ L002		00MFN21010050	00MFN21010050	EMI FILTER	! 0.18HX2 CHOKE COIL
	L003		00MFC50160030	00MFC50160030	FERRITE CORE	FERRITE CORE TFCK-16813
	L004		00MFC50160030	00MFC50160030	FERRITE CORE	FERRITE CORE TFCK-16813
	L005		00MFC50160030	00MFC50160030	FERRITE CORE	FERRITE CORE TFCK-16813
	L006		00MFC50160030	00MFC50160030	FERRITE CORE	FERRITE CORE TFCK-16813
	P101		nsp	nsp	PWB ASSY	MAIN PWB ASSY
	P261		nsp	nsp	PWB ASSY	FUNCTION SW PWB ASSY
	P271		nsp	nsp	PWB ASSY	FCBS PWB ASSY
	P301		nsp	nsp	PWB ASSY	7 SEG LED PWB ASSY
	P401		nsp	nsp	PWB ASSY	UNBAL INPUT PWB ASSY
	P801		nsp	nsp	PWB ASSY	POWER SUPPLY PWB ASSY
	P851		nsp	nsp	PWB ASSY	RECT PWB ASSY
	P871		nsp	nsp	PWB ASSY	POWER SW PWB ASSY
	PD71		nsp	nsp	PWB ASSY	VR MODULE PWB ASSY
	PF01		nsp	nsp	PWB ASSY	FUSE PWB ASSY
	PS01		nsp	nsp	PWB ASSY	ID SW PWB ASSY
	PS71		nsp	nsp	PWB ASSY	MODE SW PWB ASSY
	PU01		nsp	nsp	PWB ASSY	U-PRO PWB ASSY
	PU51		nsp	nsp	PWB ASSY	R LED PWB ASSY

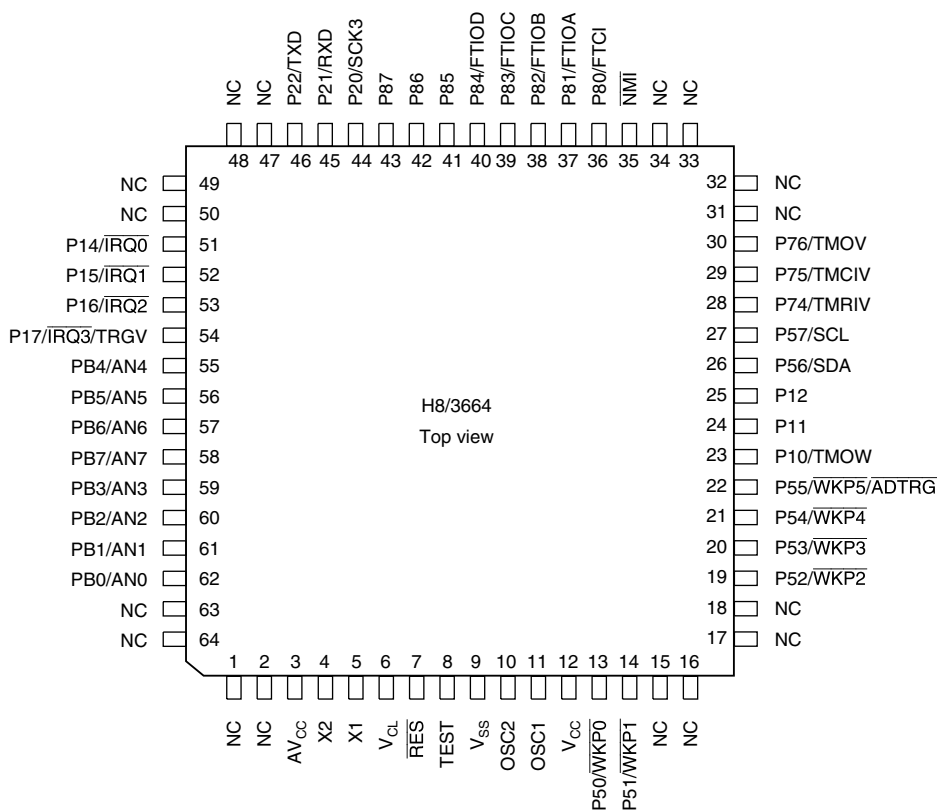
NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
	PU61		nsp	nsp	PWB ASSY	L LED PWB ASSY
	PU71		nsp	nsp	PWB ASSY	IR SENSOR PWB ASSY
PACKING						
	001T	F N	nsp	00M340J851120	USER GUIDE	USER GUIDE SC-7S2 (F)
	001T	/K1G	nsp	00M340J851350	USER GUIDE	USER GUIDE SC-7S2 (K)
	001T	/N1G	00M340J851320	00M340J851320	USER GUIDE	USER GUIDE SC-7S2 (N)
	001T	/U1B	nsp	00M340J851320	USER GUIDE	USER GUIDE SC-7S2 (N)
	004T		00M340J851990	00M340J851990	USER GUIDE	USER GUIDE TO ENGLISH (CD-R)
	T100		00MZK340J0020	00MZK340J0020	UNIT KIT	REMOTE CONTROLLER RC001PM
	▲ W001	F N	nsp	00D2062141002	MAINS CORD	# MAINS CORD W/CON&PLUG
	▲ W001	/K1G	nsp	00MZC01808030	MAINS CORD	# MAINS CORD 250V 10A
	▲ W001	/N1G	00MZC01803080	00MZC01803080	MAINS CORD	# MAINS CORD 10A 250V CLASS2
	▲ W001	/U1B	nsp	00MZC01802100	MAINS CORD	# MAINS CORD 125V13A UL/CSA
NOT STANDARD SPARE PART						
	001S		nsp	00M340J801020	PACKING CASE	PACKING CASE SC-7S2
	003S		nsp	00M339J809010	CUSHION	CUSHION F
	004S		nsp	00M339J809020	CUSHION	CUSHION R
	010S		nsp	00M340J805020	MASS CARTON	PACKING CASE (W)
	W091		nsp	00MZD01000910	CONN. CORD	TCP8580 REMOTE CABLE

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

10. MICROPROCESSOR AND IC DATA

Q201 : HD64F3664H



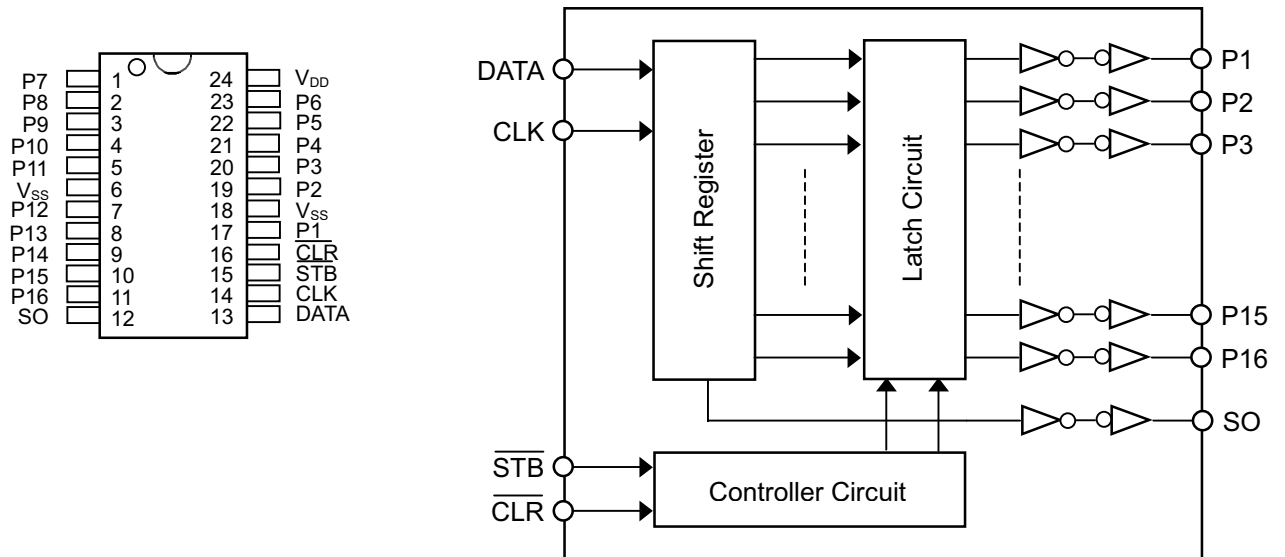
Note: Do not connect NC pins (* these pins are not connected to the internal circuitry).

Pin	PORT	Name	I/O	Function	Description
1		N.C.	--		
2		N.C.	--		
3	(AVcc)	AVcc	I	Analog power	
4	(X2)	X2	O	Sub clock	
5	(X1)	X1	I	Sub clock	Connect to GND
6	(VCL)	Vcl	I	Internal less voltage power pin	
7	(RES)	RES	I	Reset pin	
8	(TEST)	TEST	I	Test pin	Connect to GND
9	(VSS)	GND	I	Ground	
10	(OSC2)	OSC2	O	System clock	
11	(OSC1)	OSC1	I	System clock	
12	(Vcc)	+5	I	Power supply	
13	P50(WKP0)	Volume A	I	External Interrupt Req.	Active H
14	P51(WKP1)	Volume B	I	External Interrupt Req.	Active H
15		N.C.	--		
16		N.C.	--		
17		N.C.	--		
18		N.C.	--		
19	P52(WKP2)	Selector A	I	External Interrupt Req.	Active H
20	P53(WKP3)	Selector B	I	External Interrupt Req.	Active H
21	P54(WKP4)	Mute-1	O	Output port	L(MUTE ON)
22	P55(WKP5/ADTRG)	Mute-2	O	Output port	L(MUTE ON)
23	P10(TMOW)	Mute-B	O	Output port	WM8816 Mute
24	P11	N.C.	I		
25	P12	N.C.	I		
26	(SDA)	SDA	I/O	I2C data output port	Serial data to AT24C04 EEPROM
27	(SCL)	SCL	O	I2C clock I/O port	Serial clock to AT24C04 EEPROM
28	P74(TMRIV)	VOL-CSA	O	Output port	WM8816 Chip Select
29	P75(TMCIV)	VOL-CSB	O	Output port	WM8816 Chip Select
30	P76(TMOV)	Power Off	I	External Interrupt Req.	H(POWER OFF)
31		N.C.	--		
32		N.C.	--		

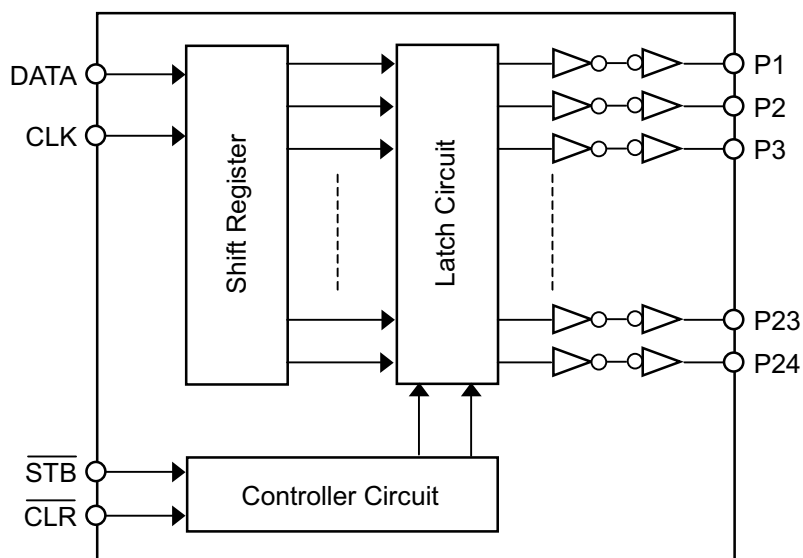
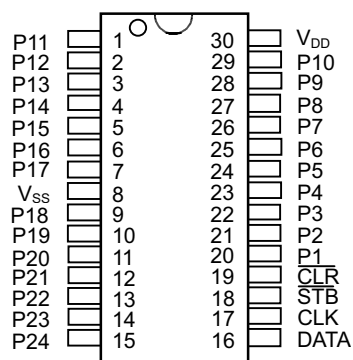
Q201 : HD64F3664H

Pin	PORT	Name	I/O	Function	Description
33		N.C.	--		
34		N.C.	--		
35	(NMI)	ICE4			Pull Up
36	P80(FTCI)	N.C.	I		
37	P81(FTIOA)	RC5	I	Capture input port	IR capture
38	P82(FTIOB)	VOL-CLK	O	Output port	WM8816 Clock
39	P83(FTIOC)	VOL-DAT	O	Output port	WM8816 Data Input / Output
40	P84(FTIOD)	Master_H	O	Output port	BUS control
41	P85	ICE1			For ICE connection
42	P86	ICE2			For ICE connection
43	P87	ICE3			For ICE connection
44	P20(SCK3)	N.C.	I		
45	P21(RXD)	RXD	I	Data input port	SYSTEM Control bus input
46	P22(TXD)	TXD	O	Data output port	SYSTEM Control bus output
47		N.C.	--		
48		N.C.	--		
49		N.C.	--		
50		N.C.	--		
51	P14(IRQ0)	DISP-CLR	O	Output port	NJU3716,NJU3719 Clear signal input
52	P15(IRQ1)	DISP-CLK	O	Output port	NJU3716,NJU3719 Clock signal input
53	P16(IRQ2)	DISP-DAT	O	Output port	NJU3716,NJU3719 Serial data input
54	P17 (IRQ3/TRGV)	DISP-STB	O	Output port	NJU3716,NJU3719 Strobe signal input
55	(PB4/AN4)	N.C.	I		
56	(PB5/AN5)	N.C.	I		
57	(PB6/AN6)	N.C.	I		
58	(PB7/AN7)	N.C.	I		
59	(PB3/AN3)	DISPLAY	I	Input port	L(SW ON)
60	(PB2/AN2)	N.C.	I		
61	(PB1/AN1)	ATT	I	Input port	L(SW ON)
62	(PB0/AN0)	ID Switch	I	Analog input port	1=4.5~5.0V 2=3.7~4.5V 3=2.9~3.7V 4=2.2~2.9V 5=1.4~2.2V 6=0.0~1.4V
63		N.C.	--		
64		N.C.	--		

Q301 : NJU3716

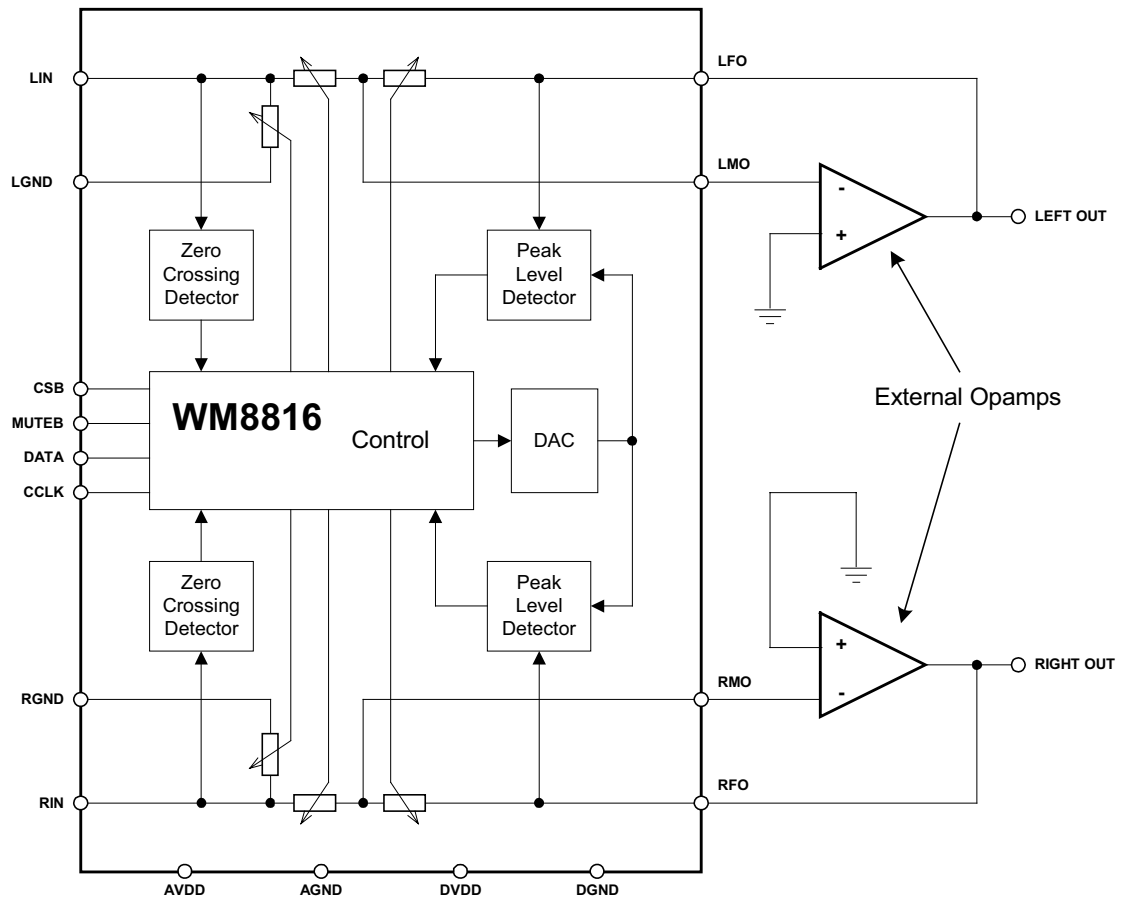
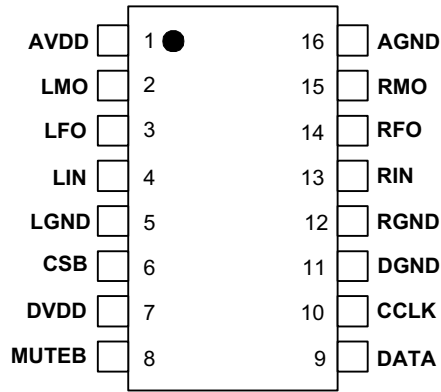


No.	SYMBOL	I/O	FUNCTION
1	P7	O	Parallel Conversion Data Output Terminals
2	P8	O	
3	P9	O	
4	P10	O	
5	P11	O	
6	V _{SS}	-	GND
7	P12	O	Parallel Conversion Data Output Terminals
8	P13	O	
9	P14	O	
10	P15	O	
11	P16	O	
12	SO	O	Serial Data Output Terminal
13	DATA	I	Serial Data Input Terminal
14	CLK	I	Clock Signal Input Terminal
15	STB	I	Strobe Signal Input Terminal
16	CLR	I	Clear Signal Input Terminal
17	P1	O	Parallel Conversion Data Output Terminal
18	V _{SS}	-	GND
19	P2	O	Parallel Conversion Data Output Terminals
20	P3	O	
21	P4	O	
22	P5	O	
23	P6	O	
24	V _{DD}	-	Power Supply Terminal (2.4 to 5.5V)

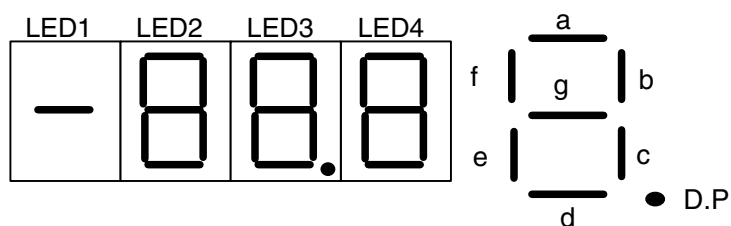
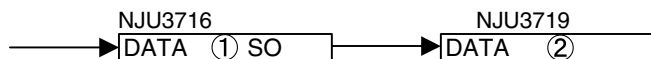
Q302 : NJU3719


No.	SYMBOL	I/O	FUNCTION
1	P11	O	Parallel Conversion Data Output Terminals
2	P12	O	
3	P13	O	
4	P14	O	
5	P15	O	
6	P16	O	
7	P17	O	
8	V _{SS}	-	GND
9	P18	O	Parallel Conversion Data Output Terminals
10	P19	O	
11	P20	O	
12	P21	O	
13	P22	O	
14	P23	O	
15	P24	O	
16	DATA	I	Serial Data Input Terminal
17	CLK	I	Clock Signal Input Terminal
18	STB	I	Strobe Signal Input Terminal
19	CLR	I	Clear Signal Input Terminal
20	P1	O	Parallel Conversion Data Output Terminals
21	P2		
22	P3		
23	P4		
24	P5		
25	P6	O	
26	P7	O	
27	P8	O	
28	P9	O	
29	P10	O	
30	V _{DD}	-	Power Supply Terminal (2.4 to 5.5V)

Q526/Q529 : WM8816



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



Pin No.	Data output pin	NJU3716
*17	P1	NON
*19	P2	TAPE LED
*20	P3	LINE-2 LED
*21	P4	LINE-1 LED
*22	P5	SACD/CD LED
*23	P6	BALANCED LED
*1	P7	POWER LED
*2	P8	ATT LED
*3	P9	B-CH LED
*4	P10	A-CH LED
*5	P11	SYNK-RED LED
*7	P12	SYNK-GR LED
*8	P13	DISPLAY LED
*9	P14	LIGHT-A
*10	P15	LIGHT-B
*11	P16	NON
*12	SO	

Pin No.	Data output pin	NJU3719
*20	P1	LED3b
*21	P2	LED3c
*22	P3	LED3-DP
*23	P4	LED3d
*24	P5	LED3e
*25	P6	LED3g
*26	P7	LED3f
*27	P8	LED3a
*28	P9	NON
*29	P10	LED1g
*1	P11	LED2a
*2	P12	LED2f
*3	P13	LED2g
*4	P14	LED2e
*5	P15	LED2d
*6	P16	LED2c
*7	P17	LED2b
*9	P18	LED4a
*10	P19	LED4f
*11	P20	LED4g
*12	P21	LED4e
*13	P22	LED4d
*14	P23	LED4c
*15	P24	LED4b

11. ELECTRICAL PARTS LIST

PARTS INFORMATION

RESISTORS

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

① — Resistance value

Examples ;

① Resistance value

0.1Ω 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 × × × 370, Ceramic capacitor
 Disc type
 Temp.coeff.P350 ~ N1000, 50V
- ② — Capacity value
 ③ — Tolerance

Examples ;

② Tolerance (Capacity deviation)

±0.25pF.....0
 ±0.5pF.....1
 ±5%.....5

* Tolerance of COMMON PARTS handled here are as follows :

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

③ Capacity value

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

CERAMIC CAP.

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

Examples ;

④ Capacity value

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

ELECTROLY CAP. (∇)

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

Examples ;

⑤ Capacity value

0.1μF 104	4.7μF 475	100μF ... 107
0.33μF 334	10μF 106	330μF ... 337
1μF 105	22μF 226	1100μF ... 118
		2200μF ... 228

⑥ Working voltage

6.3V 006	25V 025
10V 010	35V 035
16V 016	50V 050

FILM CAP. (\pm)

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

Examples ;

⑦ Capacity value

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

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

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

1. KOA Corporation

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

* Resistance value Resistance value (0.1 – 10kΩ)

2. Matsushita Electronic Components Co., Ltd

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

* Resistance value * Resistance value

Examples ;

* Resistance value

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

ABBREVIATION AND MARKS

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

NOTE ON FUSE :

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

NOTE ON SAFETY :

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

安全上の注意 :

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
					MAIN PWB P101 (00MWG340J501-)	
P101	C151		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M-F3#PE-T2
P101	C152		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M-F3#PE-T2
P101	C153		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M-F3#PE-T2
P101	C154		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M-F3#PE-T2
P101	C155		00MOF55220590	00MOF55220590	FILM CAP.	22PF 200V +-5% FAS
P101	C156		00MOF55220590	00MOF55220590	FILM CAP.	22PF 200V +-5% FAS
P101	C157		00MOF55220590	00MOF55220590	FILM CAP.	22PF 200V +-5% FAS
P101	C158		00MOF55220590	00MOF55220590	FILM CAP.	22PF 200V +-5% FAS
P101	C159		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M-F3#PE-T2
P101	C160		nsp	00MOA226025Z0	ELECT. CAP.	ROS-25V 220M-F3#PE-T2
P101	C161		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P101	C162		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P101	C501		nsp	00MOA227010R0	ELECT. CAP.	ROA-10V 221M-H3#PE-T2
P101	C502		nsp	00MOA227010R0	ELECT. CAP.	ROA-10V 221M-H3#PE-T2
P101	C507		nsp	00MOA227016Z0	ELECT. CAP.	ROS-16V 221M-H5#PE-T2
P101	C508		nsp	00MOA227016Z0	ELECT. CAP.	ROS-16V 221M-H5#PE-T2
P101	C513		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C514		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C515		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C516		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C517		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C518		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C519		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C520		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C521		nsp	00MOA226025R0	ELECT. CAP.	ROA-25V 220M-F3#PE-T2
P101	C522		nsp	00MOA226025R0	ELECT. CAP.	ROA-25V 220M-F3#PE-T2
P101	C523		nsp	00MOA226025R0	ELECT. CAP.	ROA-25V 220M-F3#PE-T2
P101	C524		nsp	00MOA226025R0	ELECT. CAP.	ROA-25V 220M-F3#PE-T2
P101	C525		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P101	C526		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P101	C527		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P101	C528		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P101	C529		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C530		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C531		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C532		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	C533		nsp	00MOA108025R0	ELECT. CAP.	ROA-25V 102M-J7#PE-S1
P101	C534		nsp	00MOA108025R0	ELECT. CAP.	ROA-25V 102M-J7#PE-S1
P101	C535		nsp	00MOA108025R0	ELECT. CAP.	ROA-25V 102M-J7#PE-S1
P101	C536		nsp	00MOA108025R0	ELECT. CAP.	ROA-25V 102M-J7#PE-S1
P101	CE07		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P101	CE08		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P101	CE09		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P101	CE10		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P101	CE11		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P101	CE12		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P101	CE13		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P101	CE14		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P101	CE15		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	CE16		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	CE17		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	CE18		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P101	CE19		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P101	CE20		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P101	CE21		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P101	CE22		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P101	D111		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	D112		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	D113		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	D114		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	D115		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	D116		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	D117		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	D118		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	D119		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	D121		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	D122		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	D123		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	D124		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	D151		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	D152		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	D153		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	D501		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P101	D502		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P101	D503		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P101	D504		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P101	D505		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P101	D506		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P101	D507		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P101	D508		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P101	D509		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	D510		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE01		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE02		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE03		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE04		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE05		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE06		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE07		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE08		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE09		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE10		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE11		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE12		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE13		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE14		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE15		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE16		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE17		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE18		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P101	DE19		nsp	00MHD20002710	DIODE	1D3 1A/200V
P101	L111		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
P101	L121		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	L122		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	L123		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	L151		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	L152		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	L153		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	L501		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	L502		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	L503		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
P101	L504		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
P101	LE01		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	LE02		00MLY20240470	00MLY20240470	RELAY	ED2-24
P101	Q111		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
P101	Q112		00MHT800921B0	00MHT800921B0	TRS.	KTC3199 NPN TRS. RANK=Y
P101	Q151		00MHC10111090	00MHC10111090	IC	NJM2114D DUAL LOW NOISE
P101	Q501		00MHC10211990	00MHC10211990	IC	WM8816EDW
P101	Q502		00MHC10211990	00MHC10211990	IC	WM8816EDW
P101	Q503		00MHC10211990	00MHC10211990	IC	WM8816EDW
P101	Q504		00MHC10211990	00MHC10211990	IC	WM8816EDW
P101	Q505		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q506		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q507		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q508		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q509		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q510		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q511		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q512		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q513		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q514		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q515		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q516		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	Q517		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q518		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q519		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q520		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q521		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q522		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q523		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q524		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q525		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q526		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q527		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q528		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q529		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q530		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q531		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q532		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	Q533		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q534		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q535		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q536		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	Q537		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q538		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q539		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	Q540		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P101	QE01		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE02		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE03		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE04		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE05		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE06		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE07		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE08		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE09		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE10		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE11		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE12		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE13		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE14		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE15		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE16		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE17		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE18		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE19		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE20		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P101	QE21		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE22		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE23		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	QE24		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P101	R112		nsp	00MGD05153160	RES.	15K OHM +-5% 1/6W
P101	R113		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
P101	R114		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P101	R115		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
P101	R116		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
P101	R537		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P101	R538		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P101	R539		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P101	R540		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P101	R571		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P101	R572		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P101	R573		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P101	R574		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P101	R575		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P101	RE21		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P101	RE22		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P101	RE23		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P101	RE24		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P101	RE25		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P101	RE26		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P101	RE27		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P101	RE28		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P101	RE37		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P101	RE38		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P101	RE39		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P101	RE40		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P101	RR11	F N	nsp	00MGD05000160	RES.	0 OHM +-5% 1/6W
P101	RR11	/U1B	nsp	00MGD05000160	RES.	0 OHM +-5% 1/6W
P101	RR14	/K1G	nsp	00MGD05000160	RES.	0 OHM +-5% 1/6W
P101	RR14	/N1G	nsp	00MGD05000160	RES.	0 OHM +-5% 1/6W
					FUNCTION SW PWB P261 (00MWG340J707-)	
P261	S261		00MSR01120070	00MSR01120070	ROTARY SW	SRRSIC
					FCBS PWB P271 (00MWG340J709-)	
P271	C271		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
P271	C283		00MOF15102540	00MOF15102540	FILM CAP.	1000PF J 100V APSV
P271	C285		00MOF15102540	00MOF15102540	FILM CAP.	1000PF J 100V APSV
P271	C287		00MOF15102540	00MOF15102540	FILM CAP.	1000PF J 100V APSV
P271	▲ D271		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P271	▲ D272		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P271	D273		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P271	D274		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P271	D275		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P271	J272		00MYJ11000500	00MYJ11000500	JACK	8PIN H-TYPE TCS7927-18-401
P271	J273		00MYJ11000500	00MYJ11000500	JACK	8PIN H-TYPE TCS7927-18-401
P271	L271		00MLY20240500	00MLY20240500	RELAY	NA-24WK RELAY 2T 24V
P271	L272		00MLY20240500	00MLY20240500	RELAY	NA-24WK RELAY 2T 24V
P271	L273		00MLY20240500	00MLY20240500	RELAY	NA-24WK RELAY 2T 24V
P271	L274		00MLY20240500	00MLY20240500	RELAY	NA-24WK RELAY 2T 24V
P271	L275		00MLY20240500	00MLY20240500	RELAY	NA-24WK RELAY 2T 24V
P271	L276		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
P271	Q272		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
P271	Q273		00MHW10006320	00MHW10006320	PHOTO UNIT	PC-817 PHOTO CUPLER 1PAIR
P271	Q274		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
P271	Q275		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
P271	Q276		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
P271	Q277		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
P271	Q278		00MHT800921B0	00MHT800921B0	TRS.	KTC3199 NPN TRS. RANK=Y
P271	Q279		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
P271	R271		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
P271	R272		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P271	R273		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P271	R274		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P271	R276		nsp	00MGD05222160	RES.	2.2K OHM +-5% 1/6W
P271	R277		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P271	R280		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P271	R281		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
P271	R282		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
P271	R283		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
P271	R284		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
P271	R292		nsp	00MGD05222160	RES.	2.2K OHM +-5% 1/6W
P271	R293		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
P271	R294		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
P271	R295		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
P271	S271		00MSS02021610	00MSS02021610	SLIDE SW	SSSU022-S06N1
					7 SEG LED PWB P301 (00MWG340J702-)	
P301	D301		00MHQ10106300	00MHQ10106300	DISPLAY	NKR131S-B
P301	D302		00MHQ10106300	00MHQ10106300	DISPLAY	NKR131S-B
P301	D303		00MHQ10106300	00MHQ10106300	DISPLAY	NKR131S-B
P301	D304		00MHQ10106300	00MHQ10106300	DISPLAY	NKR131S-B
P301	Q302		00MHC10142090	00MHC10142090	IC	IC NJU3719L
P301	R308		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R309		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R310		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R311		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R312		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R313		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P301	R314		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R315		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R316		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R317		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R318		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R319		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R320		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R321		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R322		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R323		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R324		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R325		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R326		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R327		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R328		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R329		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
P301	R330		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
					UNBAL INPUT PWB P401 (00MWG340J601-)	
P401	C401		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	C402		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	C403		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	C404		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	C405		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	C406		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	C407		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P401	C408		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P401	C409		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P401	C410		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P401	CA03	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CA03	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CA04	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CA04	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CA05		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P401	CA06		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P401	CA07		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	CA08		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	CA09		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	CA10		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	CA11		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CA12		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CA13		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CA14		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CB03	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CB03	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CB04	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CB04	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CB05		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P401	CB06		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P401	CB07		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	CB08		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	CB09		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	CB10		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	CB11		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CB12		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CB13		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CB14		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CC03	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CC03	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CC04	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CC04	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +-5% FAS
P401	CC05		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P401	CC06		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P401	CC07		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	CC08		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	CC09		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	CC10		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	CC11		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P401	CC12		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CC13		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CC14		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CD03	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +5% FAS
P401	CD03	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +5% FAS
P401	CD04	/K1G	nsp	00MOF55221590	FILM CAP.	220PF 200V +5% FAS
P401	CD04	/N1G	00MOF55221590	00MOF55221590	FILM CAP.	220PF 200V +5% FAS
P401	CD05		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P401	CD06		nsp	00MOA106035Z0	ELECT. CAP.	ROS-35V 100M-F3#PE-T2
P401	CD07		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	CD08		00MOF56221540	00MOF56221540	FILM CAP.	FPS-200V-221K (220PF 10%)
P401	CD09		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	CD10		nsp	00MOA476016Z0	ELECT. CAP.	ROS-16V 470M-G3#PE-T2
P401	CD11		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CD12		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CD13		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	CD14		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P401	D401		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P401	D402		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P401	D403		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P401	D404		00MHI10095320	00MHI10095320	L.E.D.	LT3K44B GREEN 30MA
P401	DA01		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DA02		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DA03		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DA04		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DA05		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DA06		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DA07		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DA08		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DA09		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DB01		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DB02		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DB03		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DB04		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DB05		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DB06		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DB07		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DB08		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DB09		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DC01		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DC02		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DC03		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DC04		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DC05		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DC06		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DC07		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DC08		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DC09		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DD01		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DD02		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DD03		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DD04		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DD05		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DD06		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DD07		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DD08		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	DD09		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P401	LA01		00MLY20240470	00MLY20240470	RELAY	ED2-24
P401	LB01		00MLY20240470	00MLY20240470	RELAY	ED2-24
P401	LC01		00MLY20240470	00MLY20240470	RELAY	ED2-24
P401	LD01		00MLY20240470	00MLY20240470	RELAY	ED2-24
P401	Q401		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P401	Q402		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P401	Q403		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P401	Q404		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P401	Q405		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	Q406		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P401	Q407		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q408		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q409		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	Q410		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	Q411		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q412		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q413		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	Q414		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	Q415		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q416		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	Q417		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P401	Q418		00MKH339J7010	00MKH339J7010	UNIT & H-IC	HDAM-SA S2
P401	QA01		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QA02		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QA03		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QA04		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QA05		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QA06		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QA07		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QA08		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QA09		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QA10		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QA11		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QA12		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QB01		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QB02		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QB03		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QB04		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QB05		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QB06		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QB07		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QB08		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QB09		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QB10		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QB11		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QB12		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QC01		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QC02		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QC03		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC04		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC05		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QC06		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QC07		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC08		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC09		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC10		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QC11		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QC12		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QD01		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QD02		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QD03		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QD04		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QD05		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QD06		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QD07		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QD08		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QD09		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QD10		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P401	QD11		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	QD12		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P401	R419		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	R420		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	RA07		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	RA08		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	RA09		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RA10		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RA11		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P401	RA12		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RB07		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	RB08		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	RB09		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RB10		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RB11		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RB12		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RC07		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	RC08		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	RC09		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RC10		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RC11		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RC12		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RD07		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	RD08		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P401	RD09		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RD10		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RD11		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RD12		nsp	00MGD05391160	RES.	390 OHM +-5% 1/6W
P401	RR01	F N	nsp	00MGD05000160	RES.	0 OHM +-5% 1/6W
P401	RR01	/U1B	nsp	00MGD05000160	RES.	0 OHM +-5% 1/6W
P401	RR04	/K1G	nsp	00MGD05000160	RES.	0 OHM +-5% 1/6W
P401	RR04	/N1G	nsp	00MGD05000160	RES.	0 OHM +-5% 1/6W
POWER SUPPLY PWB P801 (00MWG340J502-)						
P801	C803		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P801	C804		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P801	C805		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P801	C806		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P801	C807		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P801	C808		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P801	C809		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P801	C810		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P801	C811		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P801	C812		nsp	00MOA227025R0	ELECT. CAP.	ROA-25V 221M-5#PE-T2
P801	C813		nsp	00MOA477025R0	ELECT. CAP.	ROA-25V 471M-I6#PE-S13
P801	C814		nsp	00MOA227010R0	ELECT. CAP.	ROA-10V 221M-H3#PE-T2
P801	C815		nsp	00MOA227010R0	ELECT. CAP.	ROA-10V 221M-H3#PE-T2
P801	C816		nsp	00MOA68801620	ELECT. CAP.	6800 UF 16V RA2 TYPE
P801	C817		nsp	00MOA47702520	ELECT. CAP.	470UF 25V M RA-2
P801	C818		nsp	00MOA47702520	ELECT. CAP.	470UF 25V M RA-2
P801	C819		nsp	00MOA10801020	ELECT. CAP.	1000UF 10V M RA-2
P801	C820		nsp	00MOA10801020	ELECT. CAP.	1000UF 10V M RA-2
P801	C821		nsp	00MOA10505020	ELECT. CAP.	1 UF M 50V RA-2
P801	D809		00MHD30012010	00MHD30012010	ZENER DIODE	HZ24-2L
P801	D810		00MHD30012010	00MHD30012010	ZENER DIODE	HZ24-2L
P801	▲ D811		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D812		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D813		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D814		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D815		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D816		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D817		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D818		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	D819		00MHD31301000	00MHD31301000	ZENER DIODE	13V ZENER EQUIVALENT
P801	D820		00MHD31301000	00MHD31301000	ZENER DIODE	13V ZENER EQUIVALENT
P801	▲ D821		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D822		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D823		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D824		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D825		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D826		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D827		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	▲ D828		00MHD20055100	00MHD20055100	DIODE	! SHOTTKY 11EQS10 1A 100V
P801	D829		00MHD30621000	00MHD30621000	ZENER DIODE	6.2V ZENER EQUIVALENT
P801	▲ D831		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P801	▲ D832		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P801	▲ D833		00MHD20059100	00MHD20059100	DIODE	! 21DQ10

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P801	▲ D834		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P801	▲ D835		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P801	▲ D836		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P801	▲ D837		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P801	▲ D838		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P801	D839		00MHD30751000	00MHD30751000	ZENER DIODE	7.5V ZENER EQUIVALENT
P801	D840		nsp	00MHD20002710	DIODE	1D3 1A/200V
P801	D841		nsp	00MHD20002710	DIODE	1D3 1A/200V
P801	D842		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D843		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D844		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D845		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D846		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D847		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D848		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D849		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D850		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D851		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D852		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	D853		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
P801	G802		00MBF47400020	00MBF47400020	CAP.COMP.	0.47UF+6.8OHM RFD2B474K
P801	G803		00MBF47400020	00MBF47400020	CAP.COMP.	0.47UF+6.8OHM RFD2B474K
P801	L804		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
P801	L805		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
P801	L806		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
P801	▲ Q801		00MHT41415100	00MHT41415100	TRS.	! TRS. 2SD1415
P801	▲ Q802		00MHT21020100	00MHT21020100	TRS.	! 2SB1020
P801	Q803		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P801	Q804		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P801	▲ Q805		00MHT41415100	00MHT41415100	TRS.	! TRS. 2SD1415
P801	▲ Q806		00MHT21020100	00MHT21020100	TRS.	! 2SB1020
P801	Q807		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P801	Q808		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
P801	▲ Q809		00MHT41415100	00MHT41415100	TRS.	! TRS. 2SD1415
P801	Q810		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P801	▲ Q811		00MHT41415100	00MHT41415100	TRS.	! TRS. 2SD1415
P801	Q812		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
P801	R805		nsp	00MGD05331160	RES.	330 OHM +-5% 1/6W
P801	R806		nsp	00MGD05331160	RES.	330 OHM +-5% 1/6W
P801	▲ R807		00MGG05022160	00MGG05022160	RES.	! 2.2 OHM +-5% 1/6W
P801	▲ R808		00MGG05022160	00MGG05022160	RES.	! 2.2 OHM +-5% 1/6W
P801	R811		nsp	00MGD05151160	RES.	150 OHM +-5% 1/6W
P801	R812		nsp	00MGD05151160	RES.	150 OHM +-5% 1/6W
P801	▲ R813		00MGG05033160	00MGG05033160	RES.	! 3.3 OHM +-5% 1/6W
P801	▲ R814		00MGG05033160	00MGG05033160	RES.	! 3.3 OHM +-5% 1/6W
P801	▲ R815		00MGG05010140	00MGG05010140	RES.	! 1 OHM +-5% 1/4W
P801	▲ R816		00MGG05010140	00MGG05010140	RES.	! 1 OHM +-5% 1/4W
P801	R819		nsp	00MGD05151160	RES.	150 OHM +-5% 1/6W
P801	▲ R820		00MGG05033160	00MGG05033160	RES.	! 3.3 OHM +-5% 1/6W
P801	▲ R822		00MGG05010140	00MGG05010140	RES.	! 1 OHM +-5% 1/4W
P801	R824		nsp	00MGD05151160	RES.	150 OHM +-5% 1/6W
P801	▲ R825		00MGG05033160	00MGG05033160	RES.	! 3.3 OHM +-5% 1/6W
P801	R831		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
P801	R832		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
P801	R833		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
P801	R834		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
P801	R835		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
P801	R836		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
P801	R837		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
P801	R838		nsp	00MGD05123160	RES.	12K OHM +-5% 1/6W
P801	R839		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
P801	R840		nsp	00MGD05473160	RES.	47K OHM +-5% 1/6W
RECT PWB P851 (00MWG340J602-)						
P851	C801		nsp	00MOA10905020	ELECT. CAP.	10000UF 50V FOR SC7S2
P851	C802		nsp	00MOA10905020	ELECT. CAP.	10000UF 50V FOR SC7S2
P851	▲ D801		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P851	▲ D802		00MHD20059100	00MHD20059100	DIODE	! 21DQ10

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
P851	▲ D803		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P851	▲ D804		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P851	▲ D805		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P851	▲ D806		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P851	▲ D807		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P851	▲ D808		00MHD20059100	00MHD20059100	DIODE	! 21DQ10
P851	G801		00MBF47400020	00MBF47400020	CAP.COMP.	0.47UF+6.80HM RFD2B474K
P851	▲ R826		00MGG05010140	00MGG05010140	RES.	! 1 OHM +-5% 1/4W
P851	▲ R827		00MGG05010140	00MGG05010140	RES.	! 1 OHM +-5% 1/4W
P851	▲ R828		00MGG05010140	00MGG05010140	RES.	! 1 OHM +-5% 1/4W
					POWER SW PWB P871 (00MWG340J604-)	
P871	▲ C891		00MDF77103500	00MDF77103500	FILM CAP.	! 0.01UF M 250V AC
P871	▲ S891		00MSP01012500	00MSP01012500	PUSH SW	! ESB92S13B TV-5 STROKE=1.5MM
					VR MODULE PWB ASSY PD71 (00MWG340J706-)	
PD71	RU57		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PD71	RU58		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PD71	RU59		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PD71	RU60		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PD71	SU81		00MSR02010140	00MSR02010140	ROTARY SW	EC12E2470811
					FUSE PWB PF01 (00MWG340J603-)	
PF01	▲ F871	F N	nsp	0520100140070	FUSE	# 0218002.MXP T2A L 250V
PF01	▲ F871	/K1G	nsp	0520100080020	FUSE	# 0218.500MXP T 0.5A L 250V
PF01	▲ F871	/N1G	0520100080020	0520100080020	FUSE	# 0218.500MXP T 0.5A L 250V
PF01	▲ F871	/U1B	nsp	0520100140070	FUSE	# 0218002.MXP T2A L 250V
					HDAM-SA S2 PWB PH01 (00MWA339J701-)	
PH01	DH01		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
PH01	DH02		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
PH01	DH03		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
PH01	DH04		nsp	00MHD20002000	DIODE	1SS176,MA165,1SS254 30V 0.1A
PH01	JH01		00MYP07005720	00MYP07005720	PLUG	IMSA-6065B-06Z074-PT1
PH01	JH02		00MYP07005710	00MYP07005710	PLUG	IMSA-6065B-05Z074-PT1
PH01	QH01		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
PH01	QH02		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
PH01	QH03		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
PH01	QH04		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
PH01	QH05		00MHT322402A0	00MHT322402A0	TRS.	2SC2240 GR OR BL
PH01	QH06		00MHT109702A0	00MHT109702A0	TRS.	2SA970 GR OR BL
PH01	RH01		nsp	00MGD05471160	RES.	470 OHM +-5% 1/6W
PH01	RH02		nsp	00MGD05471160	RES.	470 OHM +-5% 1/6W
PH01	RH03		nsp	00MGD05220160	RES.	22 OHM +-5% 1/6W
PH01	RH04		nsp	00MGD05220160	RES.	22 OHM +-5% 1/6W
PH01	RH05		nsp	00MGD05220160	RES.	22 OHM +-5% 1/6W
PH01	RH06		nsp	00MGD05220160	RES.	22 OHM +-5% 1/6W
PH01	RH07		nsp	00MGD05683160	RES.	68K OHM +-5% 1/6W
					ID SW PWB PS01 (00MWG340J710-)	
PS01	R286		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PS01	R287		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PS01	R288		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PS01	R289		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PS01	R290		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PS01	S274		00MSR02060190	00MSR02060190	ROTARY SW	ROTARY SW SRRM26
					MODE SW PWB PS71 (00MWG340J711-)	
PS71	S273		00MSS02021610	00MSS02021610	SLIDE SW	SSSU022-S06N1
					U-PRO PWB PU01 (00MWG340J701-)	
PU01	C210		nsp	00MOA22605020	ELECT. CAP.	22 UF M 50V RA-2
PU01	C213		nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PU01	C309		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C310		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C311		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C312		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C313		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C341		nsp	00MOA47701020	ELECT. CAP.	470 UF M 10V RA-2
PU01	C351		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C352		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C353		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C354		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C355		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
PU01	C356		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C357		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C358		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	C359		nsp	00MOA10605020	ELECT. CAP.	10 UF M 50V RA-2
PU01	D305		00MHI10040080	00MHI10040080	L.E.D.	SELU1E10CXM-S BLUE LED
PU01	D306		00MHI10062320	00MHI10062320	L.E.D.	LT3D8B RED 30
PU01	D307		00MHI10062320	00MHI10062320	L.E.D.	LT3D8B RED 30
PU01	D308		00MHI10062320	00MHI10062320	L.E.D.	LT3D8B RED 30
PU01	D309		00MHI10043080	00MHI10043080	L.E.D.	SML11516C
PU01	D310		00MHI10040080	00MHI10040080	L.E.D.	SELU1E10CXM-S BLUE LED
PU01	D311		00MHI10040080	00MHI10040080	L.E.D.	SELU1E10CXM-S BLUE LED
PU01	D312		00MHI10040080	00MHI10040080	L.E.D.	SELU1E10CXM-S BLUE LED
PU01	D313		00MHI10040080	00MHI10040080	L.E.D.	SELU1E10CXM-S BLUE LED
PU01	D314		00MHI10040080	00MHI10040080	L.E.D.	SELU1E10CXM-S BLUE LED
PU01	D317		00MHI10062320	00MHI10062320	L.E.D.	LT3D8B RED 30
PU01	J211		00MYP07005700	00MYP07005700	PLUG	IMSA-6065B-05Z033-PT1
PU01	J212		00MYP07005700	00MYP07005700	PLUG	IMSA-6065B-05Z033-PT1
PU01	L201		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
PU01	L202		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
PU01	L203		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
PU01	L204		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
PU01	L205		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
PU01	L220		00MFC90050060	00MFC90050060	FERRITE CORE	FERRIT BEADS B-01-AT1F
PU01	L261		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PU01	L301		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PU01	L302		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PU01	L303		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PU01	L304		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PU01	L305		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PU01	L306		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PU01	L307		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PU01	L308		00MFC90090010	00MFC90090010	FERRITE CORE	ZBF503D-00(TA)-01
PU01	Q201		00MHC60024010	00MHC60024010	U-PRO	HD64F3664H EMPTY U-PRO
PU01			00M340J499D00	00M340J499D00	SOFTWARE	PROGRAM DATA FOR POS. NO.Q201
PU01	Q202		00MHC10033990	00MHC10033990	IC	AT24C04N-10SI-2.5
PU01	Q203		00MHC10098550	00MHC10098550	IC	PST600D-2 RESET IC
PU01	Q205		00MHT800921B0	00MHT800921B0	TRS.	KTC3199 NPN TRS. RANK=Y
PU01	Q206		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q207		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q208		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
PU01	Q209		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
PU01	Q210		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q211		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
PU01	Q212		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q213		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
PU01	Q214		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q215		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
PU01	Q216		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q217		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
PU01	Q218		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q219		00MHT600111B0	00MHT600111B0	TRS.	KTA1267 PNP TRS. RANK=Y
PU01	Q220		00MHT800921B0	00MHT800921B0	TRS.	KTC3199 NPN TRS. RANK=Y
PU01	Q221		00MHT800921B0	00MHT800921B0	TRS.	KTC3199 NPN TRS. RANK=Y
PU01	Q222		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q223		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q224		00MBA20001000	00MBA20001000	TRS.	DTC114ES/UN4211 10K,10K
PU01	Q301		00MHC10165090	00MHC10165090	IC	NJU3716L
PU01	R201		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R202		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R203		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R204		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PU01	R205		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PU01	R206		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R207		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R208		nsp	00MGD05104160	RES.	100K OHM +-5% 1/6W
PU01	R210		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R211		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W

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P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
PU01	R213		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R214		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R215		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R216		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R217		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R218		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R219		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R220		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R221		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PU01	R222		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R223		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PU01	R224		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R225		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PU01	R226		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R227		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PU01	R228		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R229		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PU01	R230		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R231		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PU01	R232		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R233		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R234		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R235		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R236		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R237		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R238		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R239		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R240		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R241		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R242		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R243		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R244		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R245		nsp	00MGD05223160	RES.	22K OHM +-5% 1/6W
PU01	R246		nsp	00MGD05472160	RES.	4.7K OHM +-5% 1/6W
PU01	R261		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
PU01	R262		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
PU01	R301		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R302		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
PU01	R303		nsp	00MGD05471160	RES.	470 OHM +-5% 1/6W
PU01	R304		nsp	00MGD05471160	RES.	470 OHM +-5% 1/6W
PU01	R305		nsp	00MGD05471160	RES.	470 OHM +-5% 1/6W
PU01	R306		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
PU01	R307		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
PU01	R331		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
PU01	R332		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R333		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
PU01	R334		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R335		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
PU01	R336		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R337		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
PU01	R338		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R339		nsp	00MGD05561160	RES.	560 OHM +-5% 1/6W
PU01	R340		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
PU01	R343		nsp	00MGD05221160	RES.	220 OHM +-5% 1/6W
PU01	R344		nsp	00MGD05221160	RES.	220 OHM +-5% 1/6W
PU01	R353		nsp	00MGD05331160	RES.	330 OHM +-5% 1/6W
PU01	R355		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
PU01	R356		nsp	00MGD05101160	RES.	100 OHM +-5% 1/6W
PU01	S201		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM,160GF
PU01	S202		00MSP01013370	00MSP01013370	PUSH SW	EVQ11L05R H/5MM,160GF
PU01	X201		00MFQ08004060	00MFQ08004060	CER. VIB.	CSTS MG 8MHZ (15PF)
					R LED PWB PU51 (00MWG340J704-)	
PU51	D315		00MHI10040080	00MHI10040080	L.E.D.	SELU1E10CXM-S BLUE LED
PU51	J303		00MYP07001950	00MYP07001950	PLUG	IMSA-1068-05Z042 5P
PU51	R341		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
					L LED PWB PU61 (00MWG340J705-)	
PU61	D316		00MHI10040080	00MHI10040080	L.E.D.	SELU1E10CXM-S BLUE LED

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

P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
PU61	J302		00MYP07001950	00MYP07001950	PLUG	IMSA-1068-05Z042 5P
PU61	R342		nsp	00MGD05103160	RES.	10K OHM +-5% 1/6W
					IR SENSOR PWB PU71 (00MWG340J703-)	
PU71	Q204		00MHW10004210	00MHW10004210	PHOTO UNIT	RPM6936-V4 (IR SENSOR)

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

12. ABOUT REPLACE THE MICROPROCESSOR WITH A NEW ONE

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

PWB Name	Pos. No.	Description	After replaced	Remark
PU01	Q201	HD64F3664H EMPTY U-PRO	C	

After replaced

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

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

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

マイコン等を交換した場合の対応について

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

PWB Name	Pos. No.	Description	交換時の対応	備考
PU01	Q201	HD64F3664H EMPTY U-PRO	C	

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。