

Service Manual

ZC4001 /N1M/U1M

Audio Client

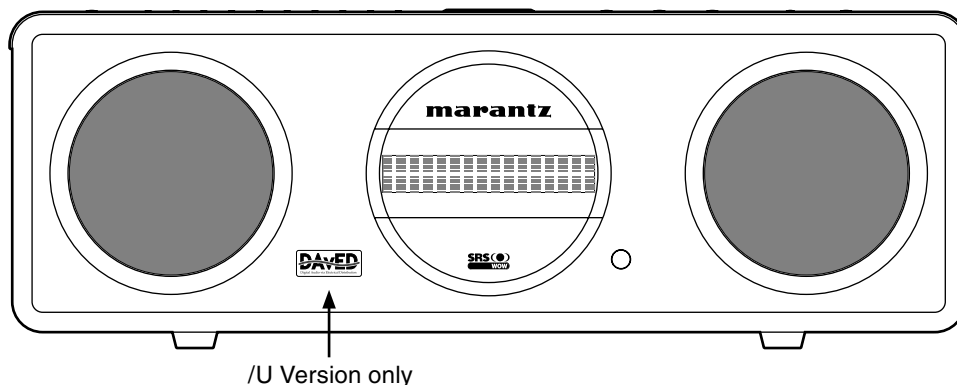


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Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

ZC4001

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

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

USA

MARANTZ AMERICA, INC
1100 MAPLEWOOD DRIVE
ITASCA, IL. 60143
USA
PHONE : 630 - 741 - 0300
FAX : 630 - 741 - 0301

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MT. WAVERLEY VIC 3149
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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
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MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.
2ND FLOOR BANGUNAN INFINITE CENTRE
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SELANGOR DARUL EHSAN, MALAYSIA
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KAWASAKI-KU, KAWASAKI-SHI,
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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. 1492.

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

1. TECHNICAL SPECIFICATIONS

AUDIO SECTION

Power Output 10 W + 10 W (JEITA, 1 kHz, 6 ohms)
 7 W + 7 W (20 Hz - 20 kHz, THD = 0.05 %, 6 ohms)

EXT. INPUT

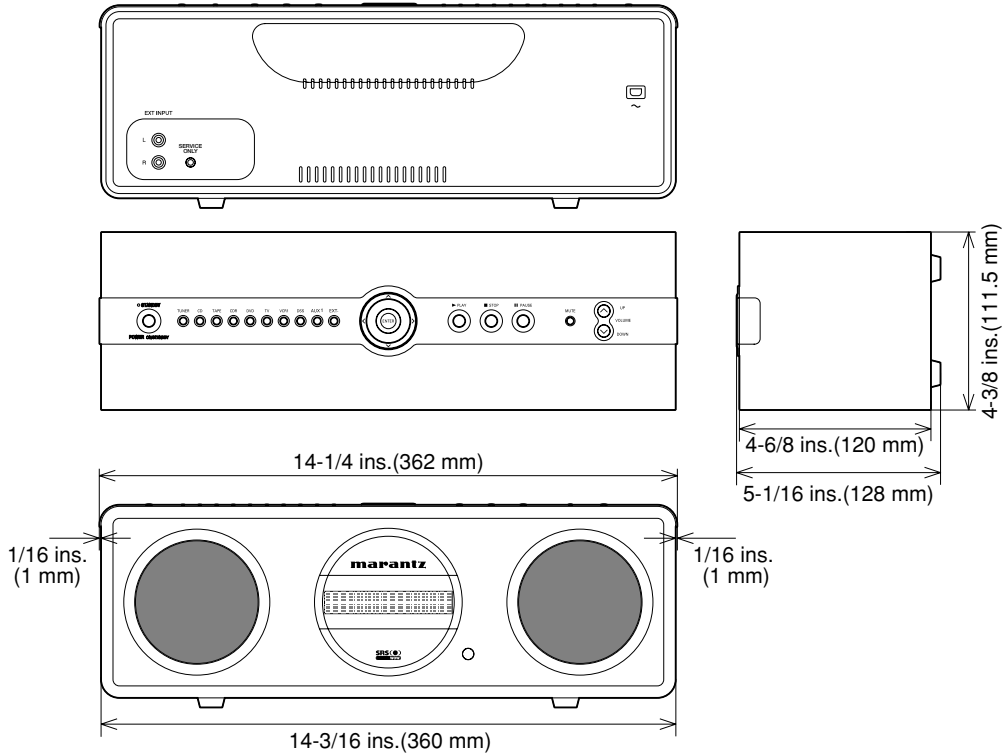
Sensitivity / Impedance 200 mV / 22 kohms

PLC SECTION

Modulation Method Multi carrier

Frequency Band 2 MHz - 20 MHz

DIMENSIONS



GENERAL

Power Requirement AC 230 V 50/60 Hz [/N]

..... AC 120 V 60 Hz [/U]

Power Consumption 34 W [/N]

..... 0.3A [/U]

Weight 3.0 kg (6.6 lbs)

ACCESSORIES

User Guide 1

2. TECHNICAL DESCRIPTION



SRS WOW Audio Effect creates a panoramic stereo audio image by producing deep and rich bass tones and clear treble tones, enabling you to enjoy powerful sound.

WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc.
 WOW technology is incorporated under license from SRS Labs, Inc.

FEATURES

By simply plugging the power cables of the ZR6001 and ZC4001 into ordinary home electrical outlets, the ZR6001 sends audio sources over your home electrical line for playback by the ZC4001.

PLC (POWER LINE COMMUNICATION)

The ZR6001* converts analog audio signals into noncompressed linear PCM digital signals, modulates them into high frequency signals, and sends them over power lines. The ZC4001 demodulates the sent signals and converts them back to analog signals.

* : If the condition of the power line degenerates because of the effects of noise from other devices or for other reasons, the ZR6001 uses an audio format of different sampling rate and data bit length.

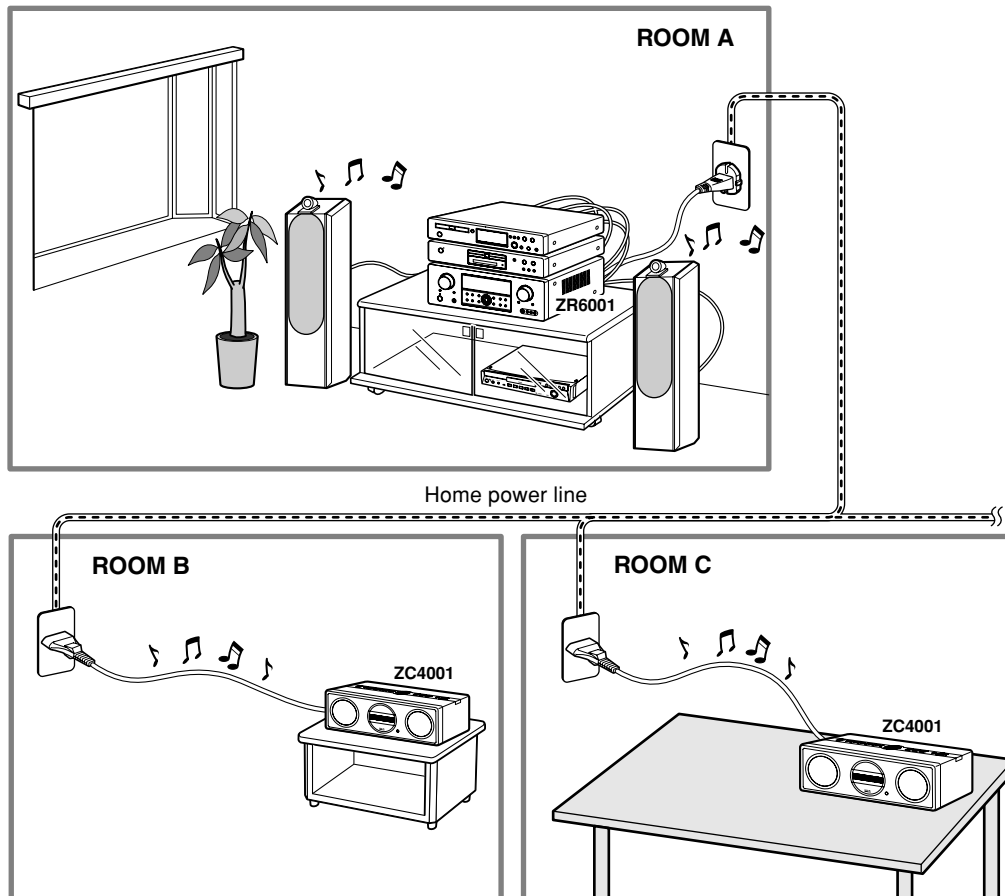
CONNECTIONS

CONNECTING AUDIO COMPONENTS

There is one Audio EXT INPUT jack on the rear panel. You can use this jack to input analog audio signal from CD, TAPE DECK, or other analog source component.

CONNECTING AC POWER CABLE

Connect the AC power cable of the ZC4001 to a wall electrical outlet. Also connect the AC power cable of the ZR6001 to a wall electrical outlet.

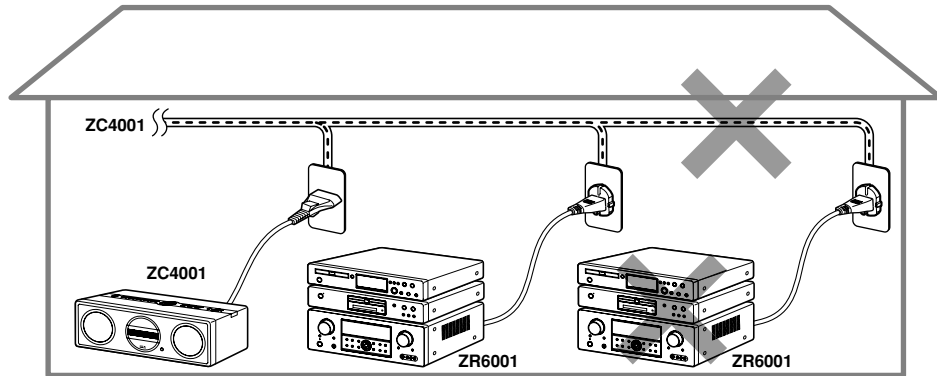


Up to four ZC4001 units may be connected to the same system at one time.

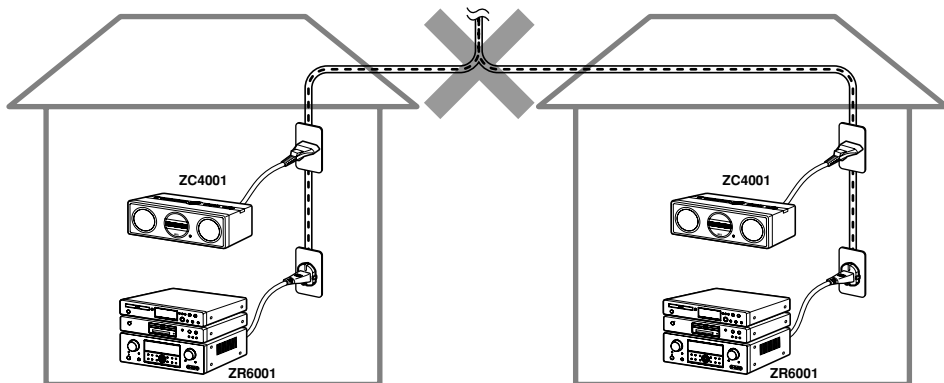
Notes:

- The ZC4001 and ZR6001 send audio data over power lines. Therefore, if the condition of the power line degenerates seriously because of the effects of noise from other devices or for other reasons, audio data may not be received or may skip.
- If the distance of the power line between the ZC4001 and ZR6001 is very long, audio data may not be received or may skip.
- At the time of purchase, all ZC4001 and ZR6001 are set to the same Group ID. If used with this same Group ID, you risk having your music listened into by others. Therefore, set the Group ID as explained herein.
- If the following trouble is experienced, block PLC signals from other sources using a commercially available power filter, etc.

When a ZC4001 and ZR6001 are connected over PLC, another ZR6001 cannot be added to the same power line and connected over PLC. In this case, PLC signals are not sent.



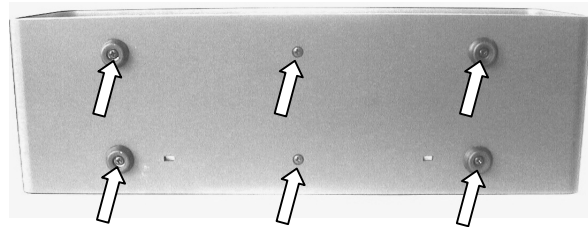
If a ZR6001 and ZC4001 are connected over PLC in a nearby apartment unit for example, and there is only a short distance between your apartment and your neighbor's, the PLC signals from your neighbor's apartment can travel over power lines to your place, mix with your system, and prevent audio output.



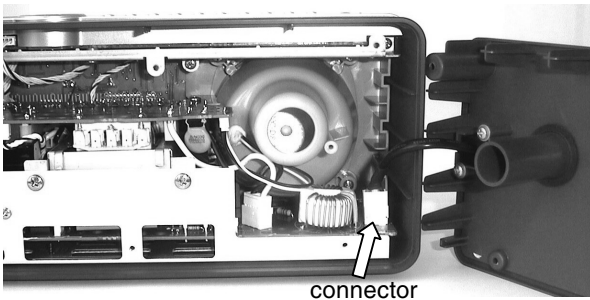
3.DISASSEMBLE PROCEDURE

1. Disassemble of the rear panel

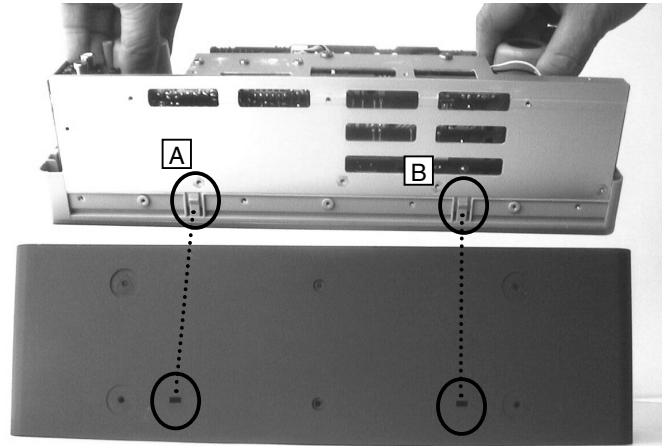
- 1) Remove 11 screws from the rear panel and remove the rear panel.



- 2) Disconnect a connector of Mains cord.

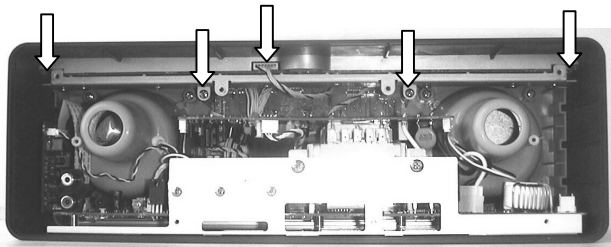


- 2) The Inside case is locked 2 hooks (A and B).
Remove 2 hooks from hole and lift off the Inside case.



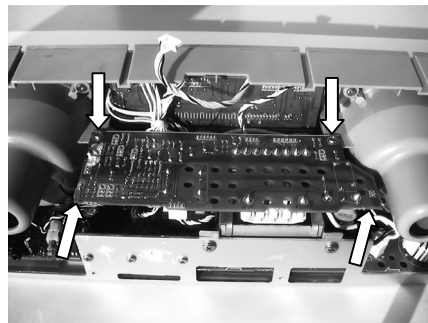
2. Disassemble of the Button panel / PWB

- 1) Remove 4 screws from Bracket and disconnect a connector.

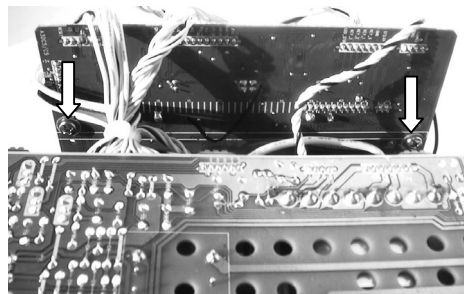
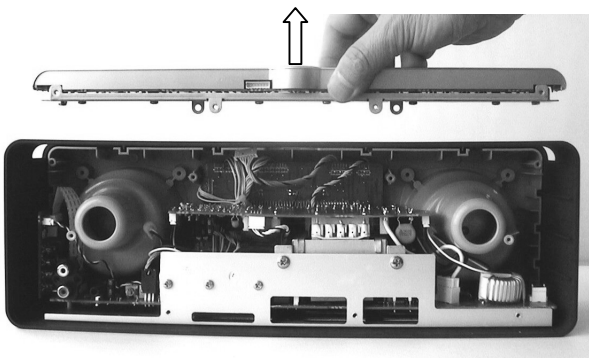


4. Disassemble of the MAIN, FRONT and POWER PWB

- 1) Remove 4 screws and disconnect two connectors of Speaker.
- 2) Remove MAIN, FRONT and POWER PWB.



- 2) Remove the Button panel / PWB vertically.



3. Disassemble of the Inside case with MAIN, FRONT and POWER PWB

- 1) Remove 6 screws from Case (Bottom)



4. SERVICE MODE

MAIN CPU (IC21), PLC Firmware Version and FLD Segment Check Mode.

1. Press the **POWER ON/STANDBY** button to turn on the unit, then wait for about 10 seconds.
2. Press the **ENTER**, **STOP** and **EXT** button simultaneously more than 5 seconds.
3. The FL display shows "ZC4001:yymmddcv" (MAIN CPU version) and "MLD011RM Vx.xx" (PLC firmware version)

EX. :

MAIN CPU version →	Z	C	4	0	0	1	:	0	6	0	3	0	7	c	3	0
PLC firmware version →	M	L	D	0	1	1	R	M	V	0	.	4	0			

4. For FLD Segment check, Press **ENTER** button, vertical segments turns on.
5. Press **ENTER** button, next vertical segments turns on.
6. Press **ENTER** button, horizontal segments turns on.
7. Press **ENTER** button, next horizontal segments turns on.
8. Press **ENTER** button, all the FL segments turns on.
9. Press **ENTER** button, all the FL segments turns off.
10. For operation button check, when press the button of the unit or RC5/6 remote code is inputted, operation button name is shown on FLD
11. Press **POWER ON/STANDBY** button more than 5 seconds, to quit the check mode.
After "CLEAR MEMORY" is shown on FLD, memory is cleared to default status.

HOW TO RESET THE UNIT

Should the operation or display seem to be abnormal, reset the unit with the following procedure.

The ZC4001 is turned on, press and hold the **MUTE** and **STOP** buttons simultaneously for 3 seconds or more.

5. UPDATE FIRMWARE

[A] SOFTWARE (fdtv30300.exe) DOWNLOAD AND INSTALL PROCEDURE

DOWNLOADS OF THE SOFTWARE (Flash Development Toolkit: the rest is FDT)

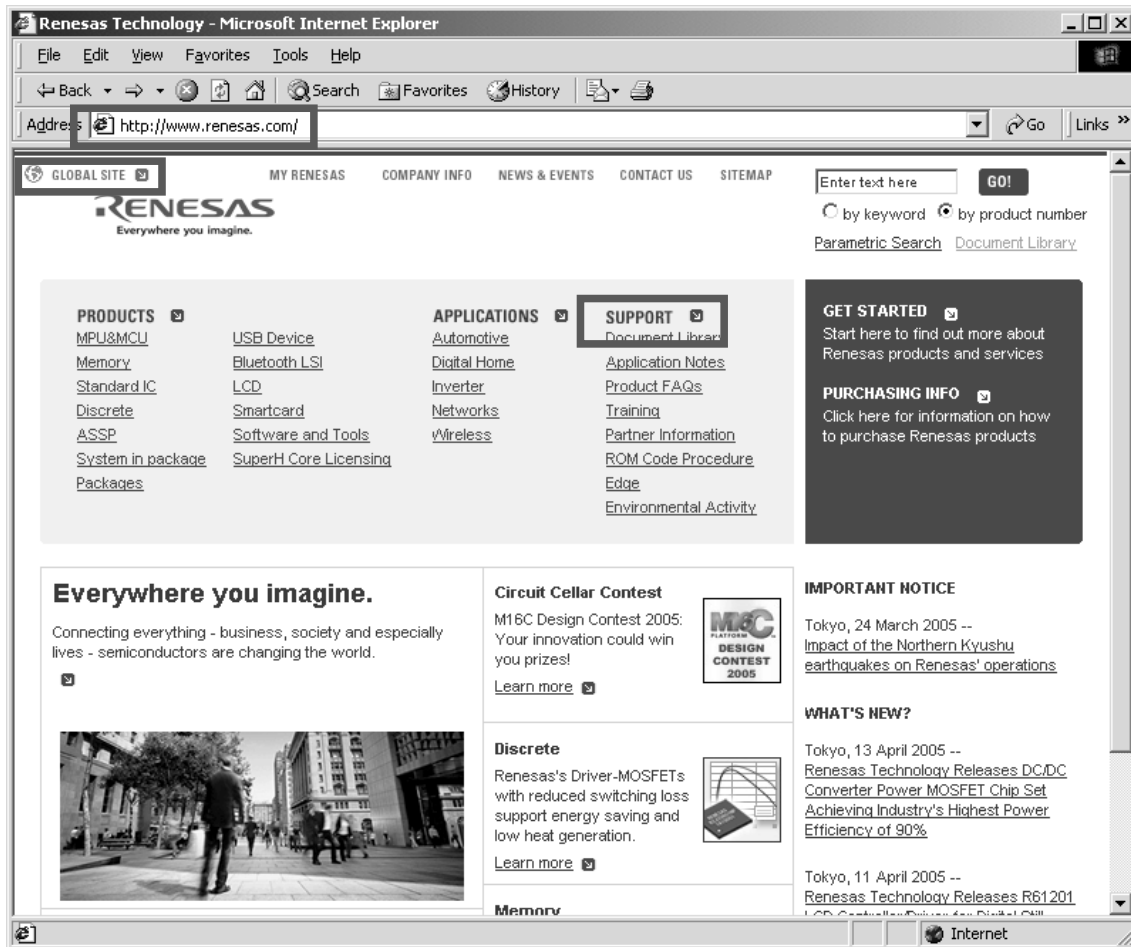
Download the software for update of the MAIN CPU.

Launch the browser. Type <http://www.renesas.com/> into an address. And press Enter.

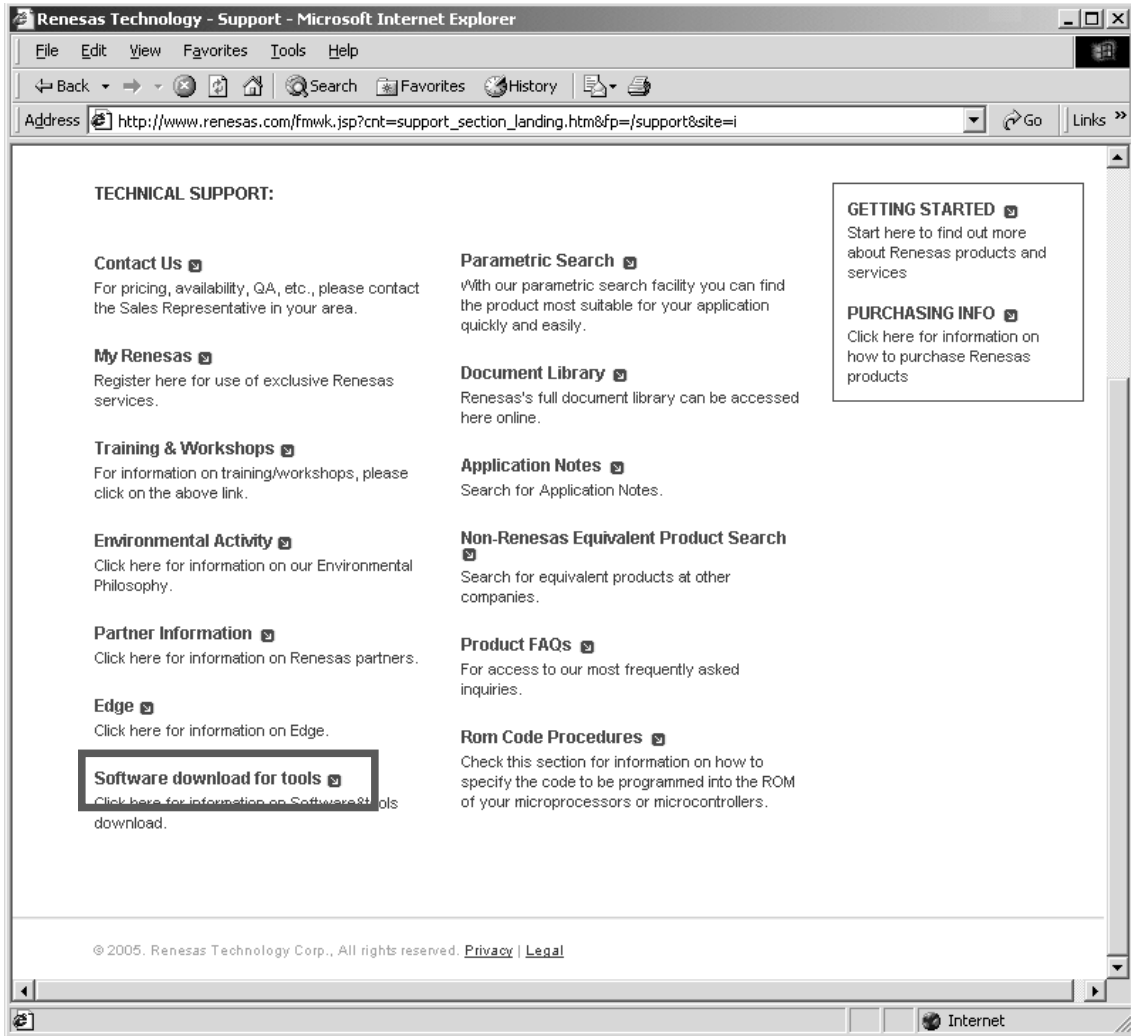
NOTE : This site is managed by RENESAS. The following explanation may differ from the actual composition.

When different, please proceed along with the site composition of RENESAS. When FDT cannot be found, please search "Flash Development Toolkit", or type <http://download.renesas.com/eng/mpumcu/index.html> into an address.

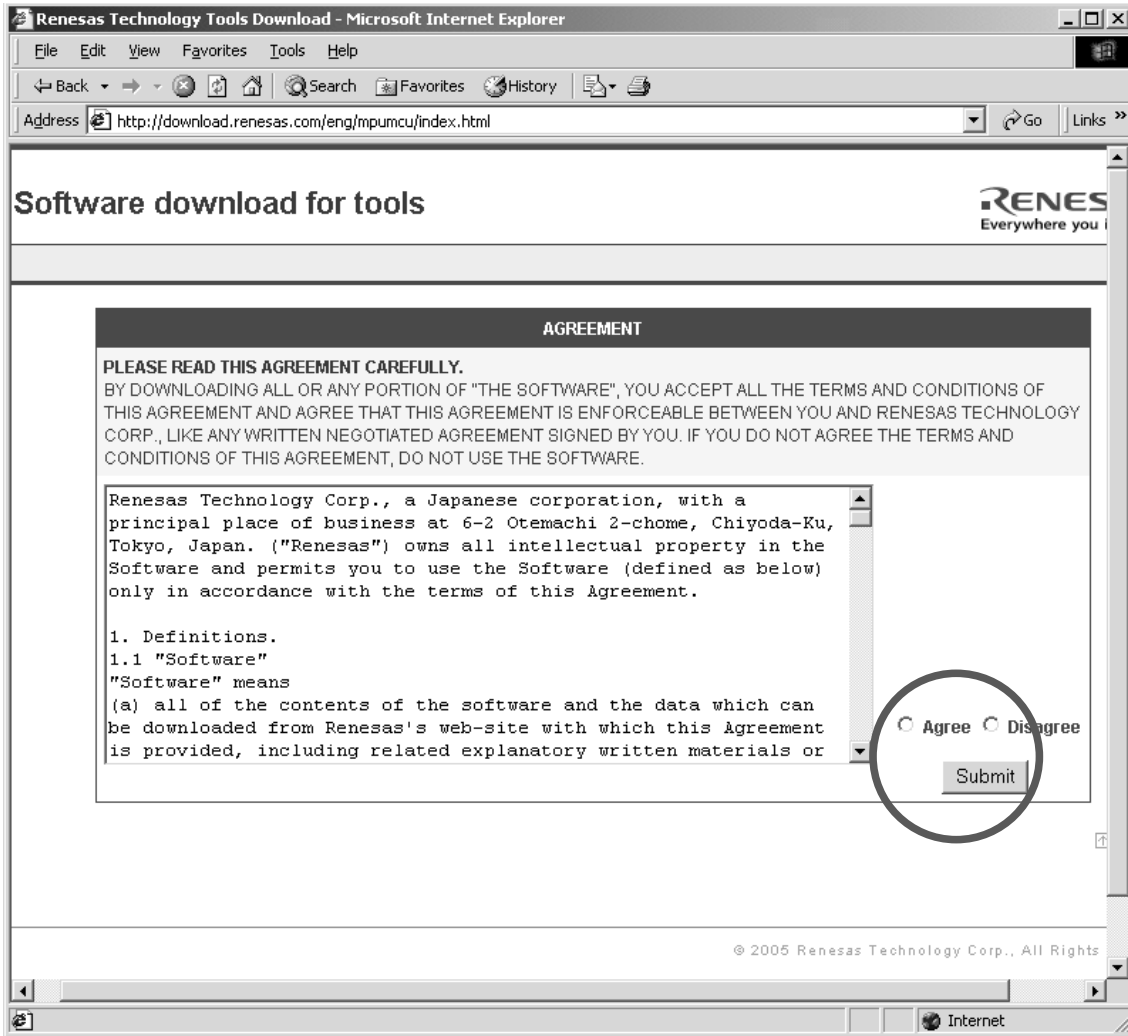
Click the **SUPPORT** on the site of RENESAS(GLOBAL SITE).



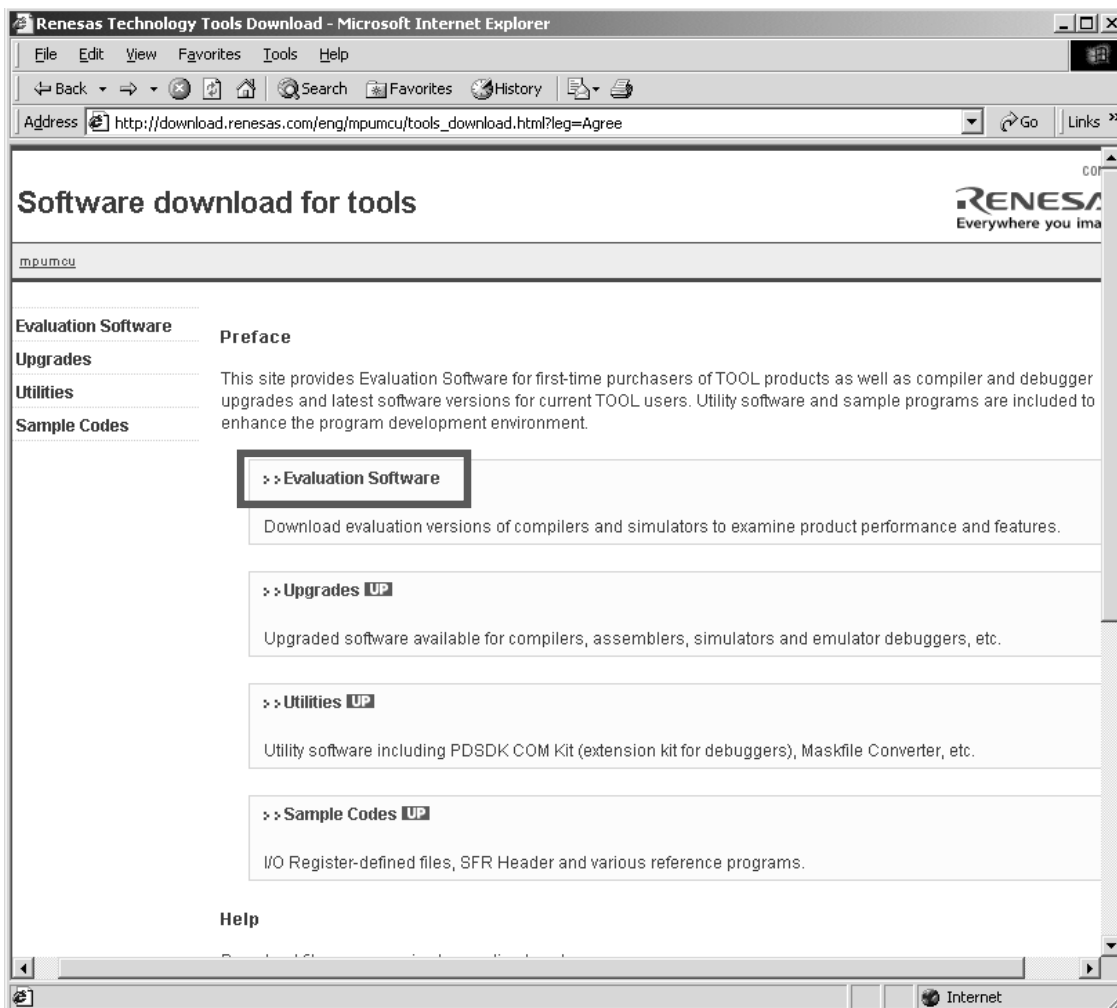
Click the **Software download for tools** on Support.



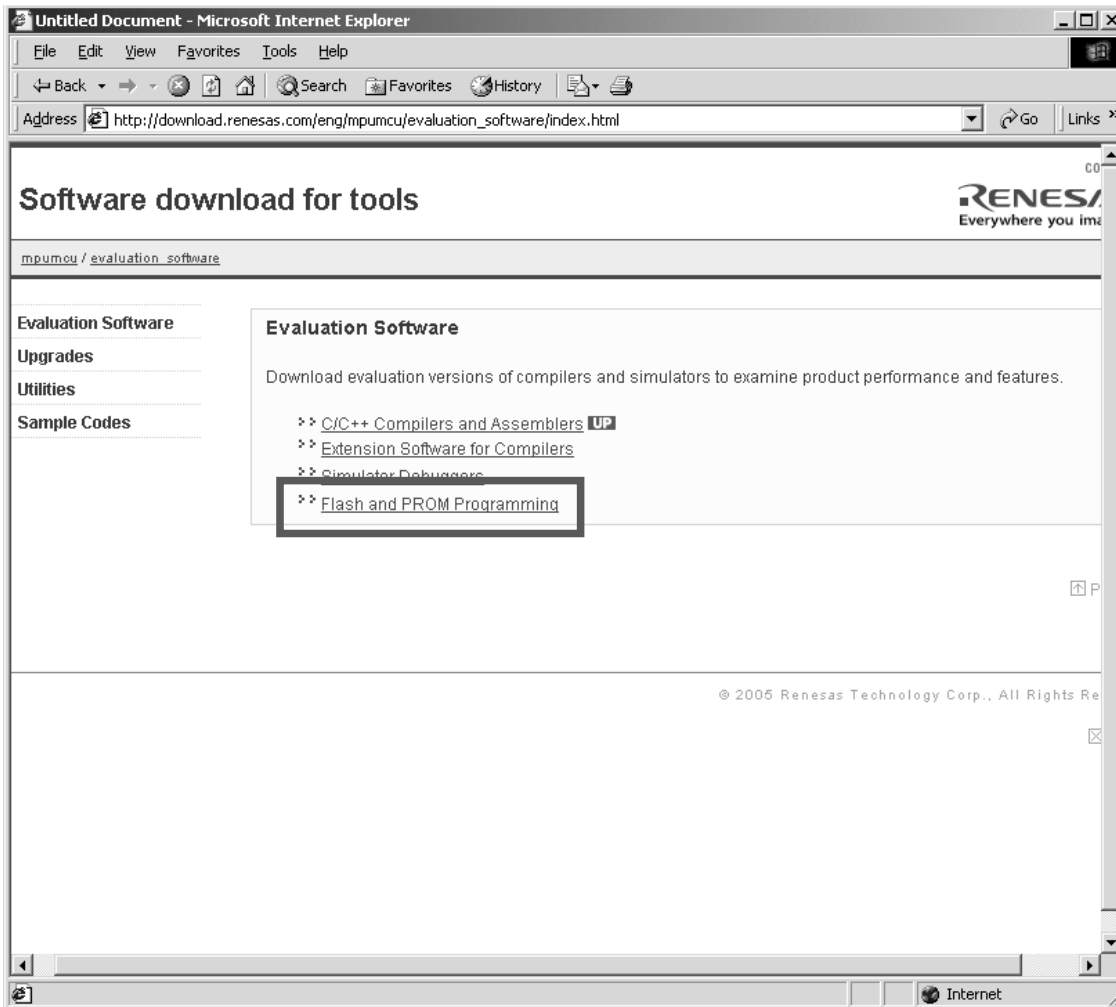
Check the **Agree** on AGREEMENT. And click **Submit**.



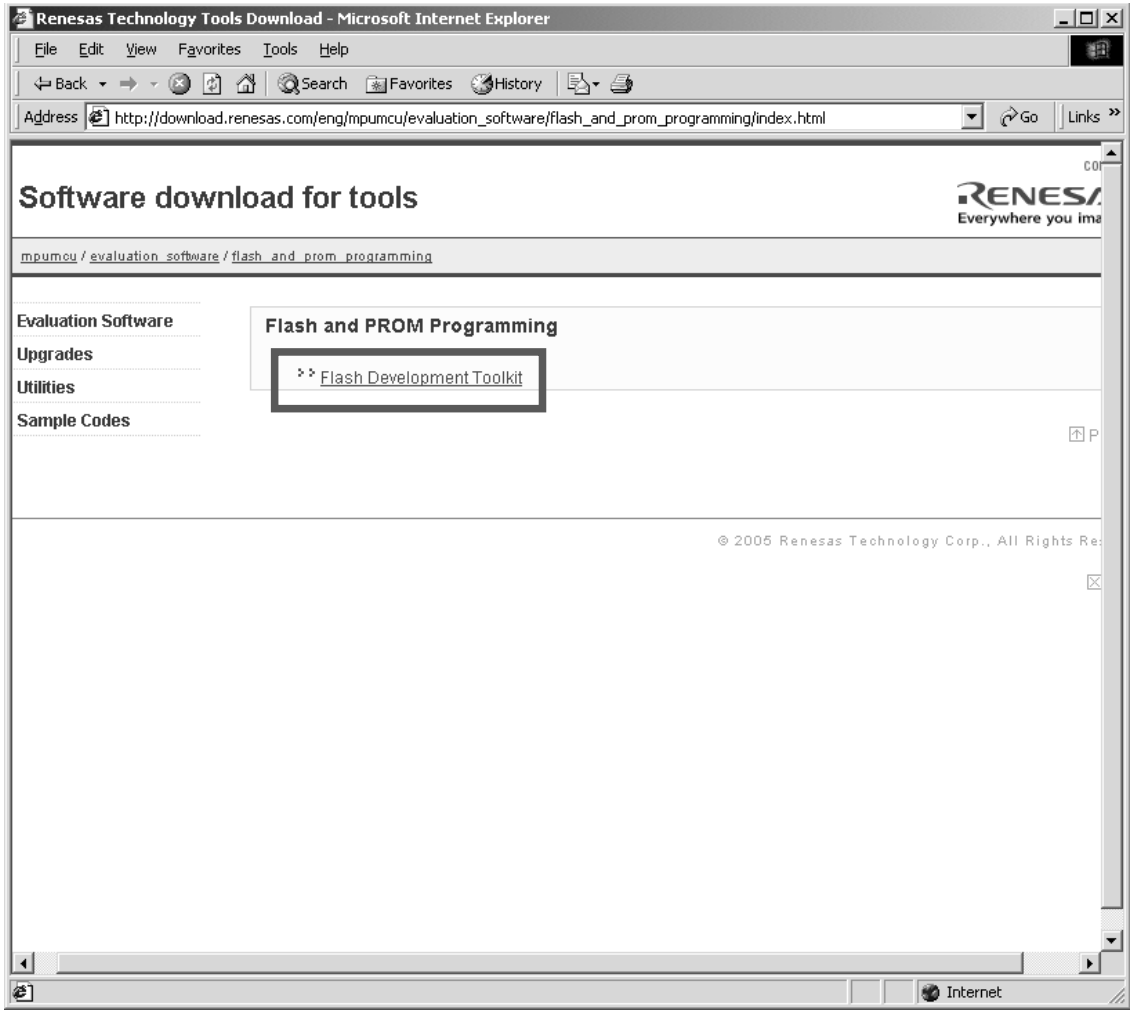
Click **Evaluation Software**.



Click **Flash and PROM Programming**.



Click **Flash Development Toolkit**.



Click **Download**.

Notes

1. Difference from official version
Flash Development Toolkit free version output a title bar saying [Unsupported Freeware Version], and a window saying [This is an unsupported version, a supported release is also available from Renesas]. There are no other differences between official and free one.
2. About use in end product
Please use official version if you program in F-ZTAT microcomputer on end product by using this software. We do not offer any technical support services in case of troubles.
3. About Download
If you have problems with downloads, please make sure the following conditions are met.
-No problems on your network
-Have FTP server accessibility over your network
-Have capability to download 24 Mbytes of file over your network
4. About Upgrade
Online upgrade from Renesas web site is only for official version. Thus, if you would like to use upgraded version, you have to uninstall a free version once and install the latest free version again.

Download

Product Name	File Name	File Size	Download Link
Flash Development Toolkit Ver.3.3	fdtv30300.exe	24,590,331 byte (23.4 MB)	Download

Installation Methods after Downloading

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

Save the **fdtv30300.exe** on your PC's hard disc.

NOTE : A file name is changed by improvement.

File Download

You have chosen to download a file from this location.
objec from download.renesas.com

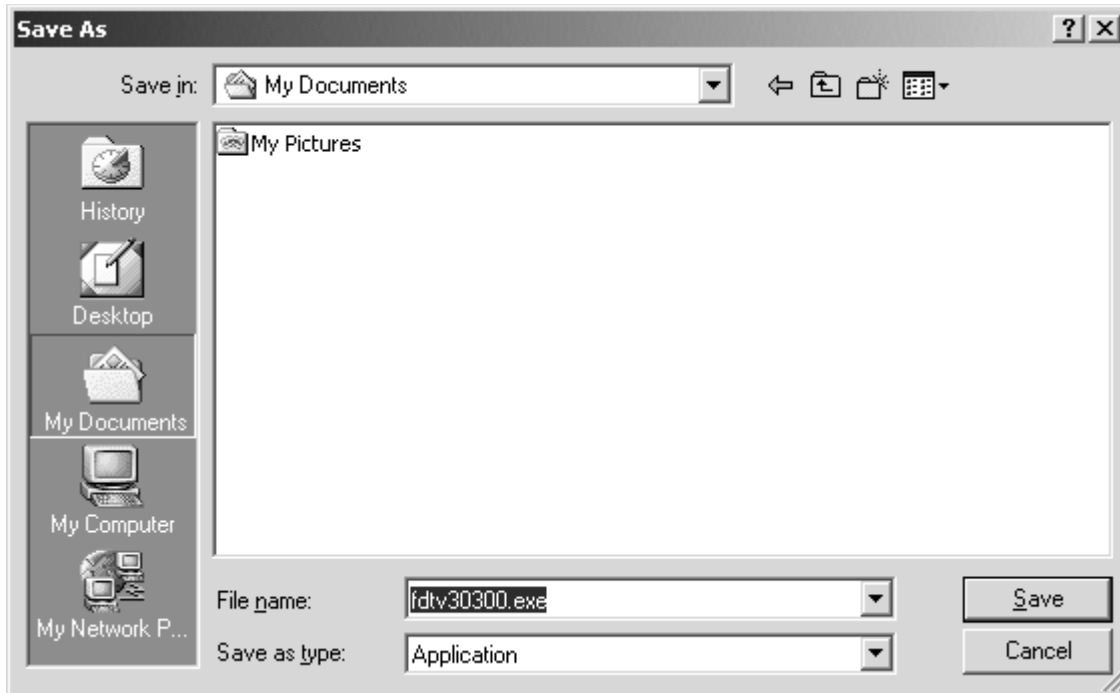
What would you like to do with this file?

Run this program from its current location

Save this program to disk

Always ask before opening this type of file

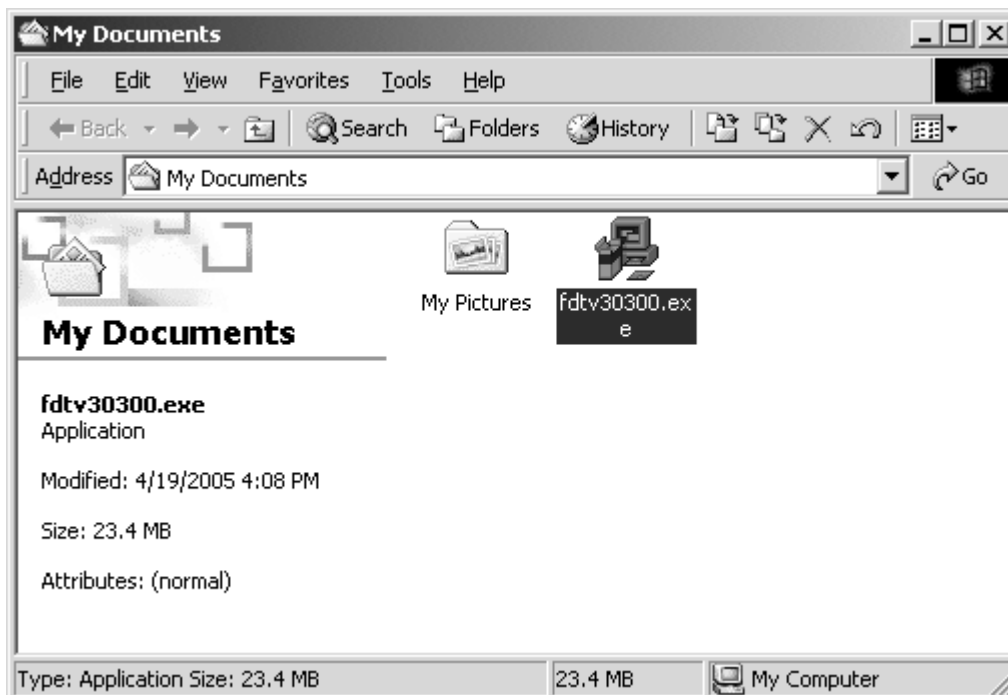
OK Cancel More Info



INSTALLS OF THE SOFTWARE (Flash Development Toolkit Ver.3.3)

Open the folder with the downloaded file.

And double click the **fdtv30300.exe**.



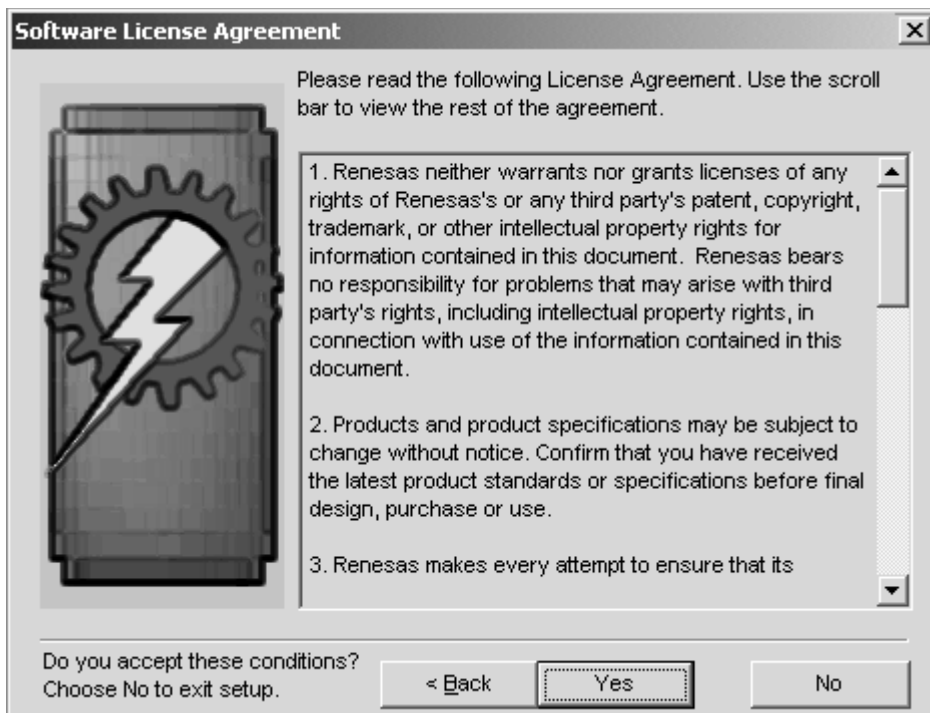
Click **Next >**.



Choose the language. And click **Next >**.




Click **Yes**.



Software License Agreement

Please read the following License Agreement. Use the scroll bar to view the rest of the agreement.



1. Renesas neither warrants nor grants licenses of any rights of Renesas's or any third party's patent, copyright, trademark, or other intellectual property rights for information contained in this document. Renesas bears no responsibility for problems that may arise with third party's rights, including intellectual property rights, in connection with use of the information contained in this document.

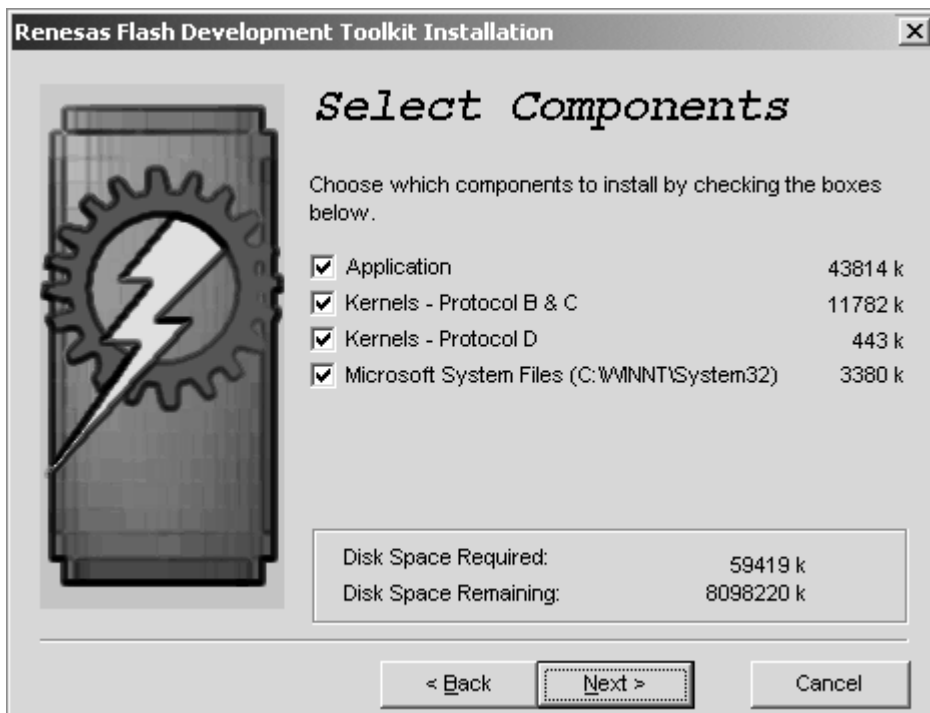
2. Products and product specifications may be subject to change without notice. Confirm that you have received the latest product standards or specifications before final design, purchase or use.

3. Renesas makes every attempt to ensure that its

Do you accept these conditions?
Choose No to exit setup.

< Back Yes No

Click **Next >**.



Renesas Flash Development Toolkit Installation

Select Components

Choose which components to install by checking the boxes below.



<input checked="" type="checkbox"/> Application	43814 k
<input checked="" type="checkbox"/> Kernels - Protocol B & C	11782 k
<input checked="" type="checkbox"/> Kernels - Protocol D	443 k
<input checked="" type="checkbox"/> Microsoft System Files (C:\WINNT\System32)	3380 k

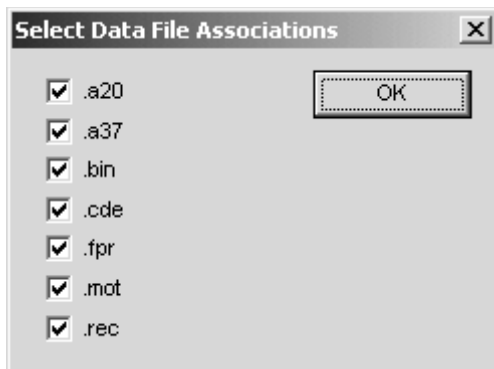
Disk Space Required: 59419 k
Disk Space Remaining: 8098220 k

< Back Next > Cancel

Click **Customise**.



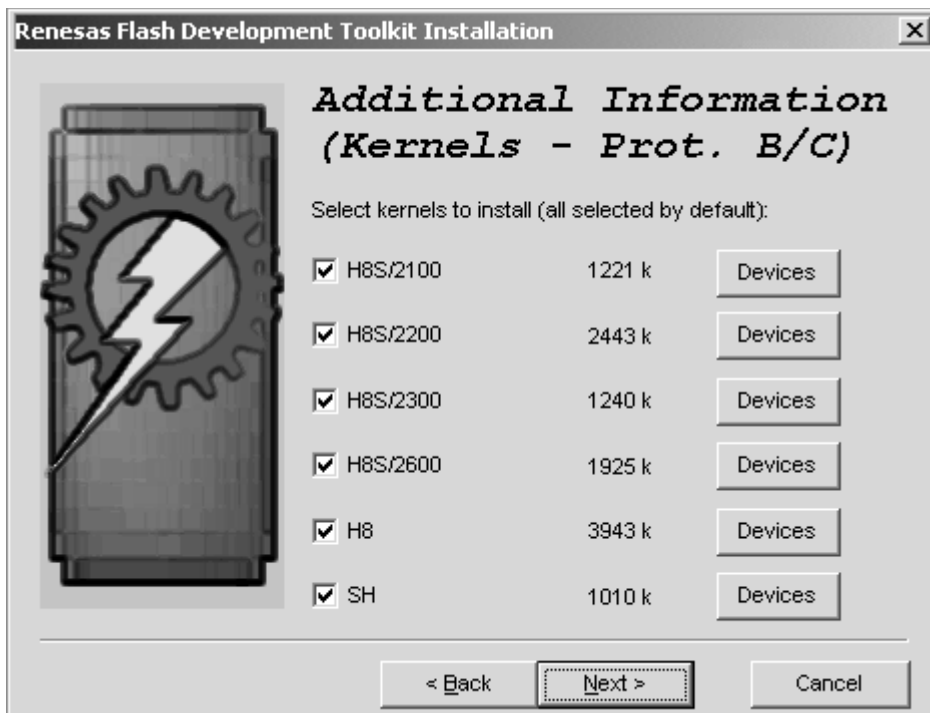
Check to the all check box. And click **OK**.



Click **Next >**.



Check to the all check box. And click **Next >**.



Click **Next >**.



Click **Next >**.



Click **Next >**.



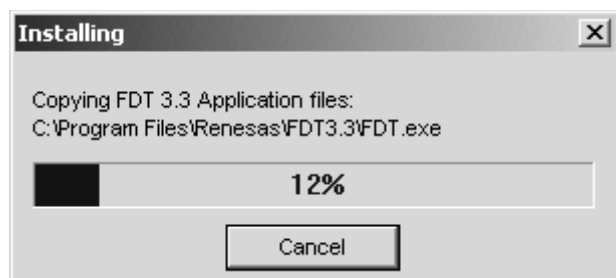
Click **Next >**.



Click **Install**.



The status bar appears.



Click **Finish**.



[B] WRITING AND UPDATE SOFTWARE

Software for MAIN CPU and PLC firmware can be updated.

Have update application software. ("fdtv30300.exe (FDT3.3) or latest version" and "PlcFirmUpdate.exe")

There are two mode of download, regarding to the target of software as bellow.

- **Mode 1: Update MAIN CPU's software to internal Flash-ROM.**

This mode is to update the software for MAIN CPU.

The target devise is internal flash ROM of CPU (IC21) on CUP11878-1 (FRONT PWB).

The unit needs to be set to writing condition, by pushing internal switch from rear panel.

The updating of software takes about 20 seconds.

- **Mode 2: Update PLC's firmware to PLC MODULE.**

This mode is to update the firmware for PLC.

The target devise is PLC MODULE (MLD011RM-C2 Part no. 00MZK10CW0010).

The unit needs to be set update condition, by three top keys.

The updating of software takes about 1 minute.

NECESSARY EQUIPMENT

The following items are required for updating.

Windows PC (OS: Windows2000 or WindowsXP) with Serial port.

RS-232C Dsub-9 pin to stereo plug cable (9P female to 3.5mm stereo plug type) Part no. 00MZD01800120 (This is the accessories of SR9600, SR9300 and SR8300).

Update software to MAIN CPU. (Update data in MAIN CPU folder)

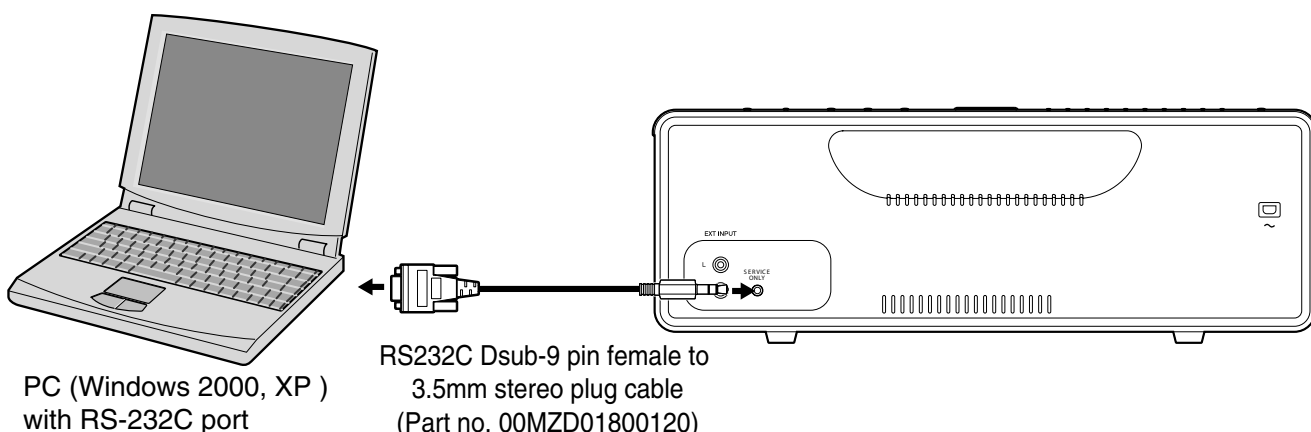
Update firmware to PLC. (PlcFirmUpdate.exe, etc... in PLC firmware folder)

Flash Development Toolkit 3.3 or latest version (fdtv30300.exe or latest version)

Use RS232C Dsub-9 pin to stereo plug cable to connect Serial Port of PC and the RS-232C 3.5mm jack in rear panel of the unit, when updating MAIN CPU and PLC firmware.

Serial port on PC needs to be set by dialog box for each program. Serial port can be set from COM1 to COM5.

CONNECTION



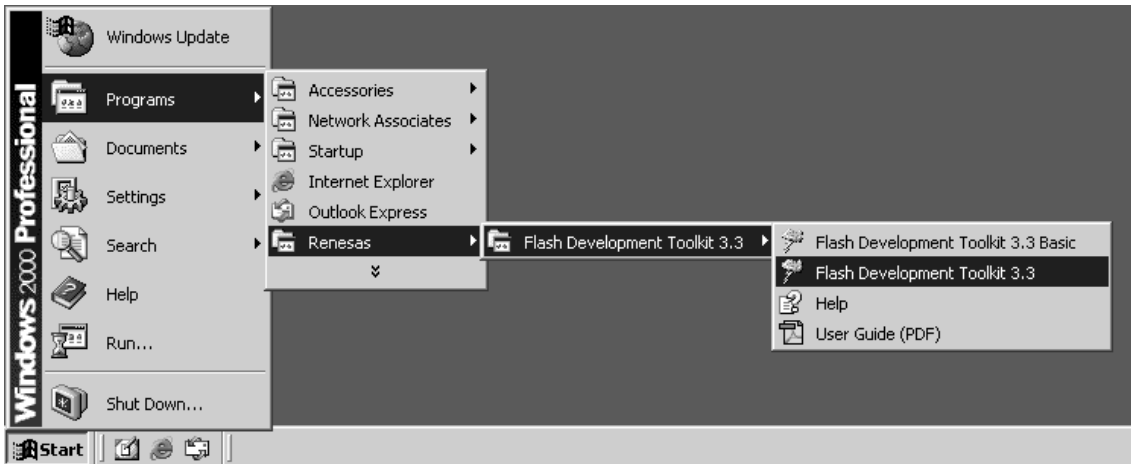
Mode 1: Update MAIN CPU's software to internal Flash-ROM

The writing software setup procedure

1. Launch the Flash Development Toolkit (FDT).

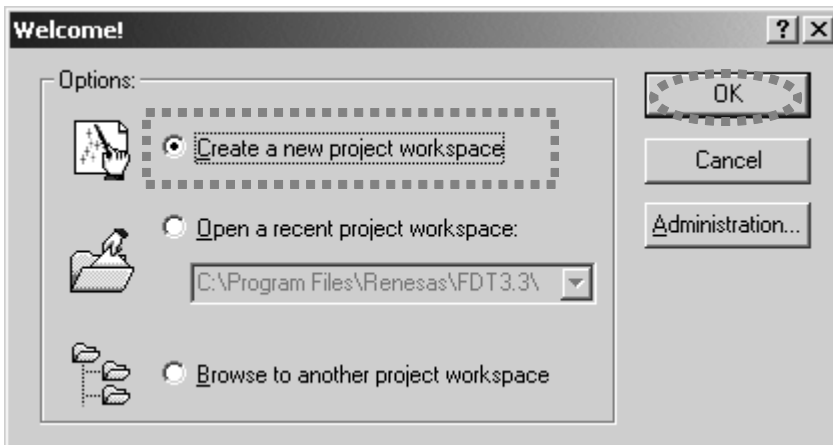
Note: Please refer to "Download and install updating software for Microprocessor", when you do not have FDT.

2. Click **Start, Programs, Renesas, Flash Development Toolkit 3.3** and **Flash Development Toolkit 3.3**.

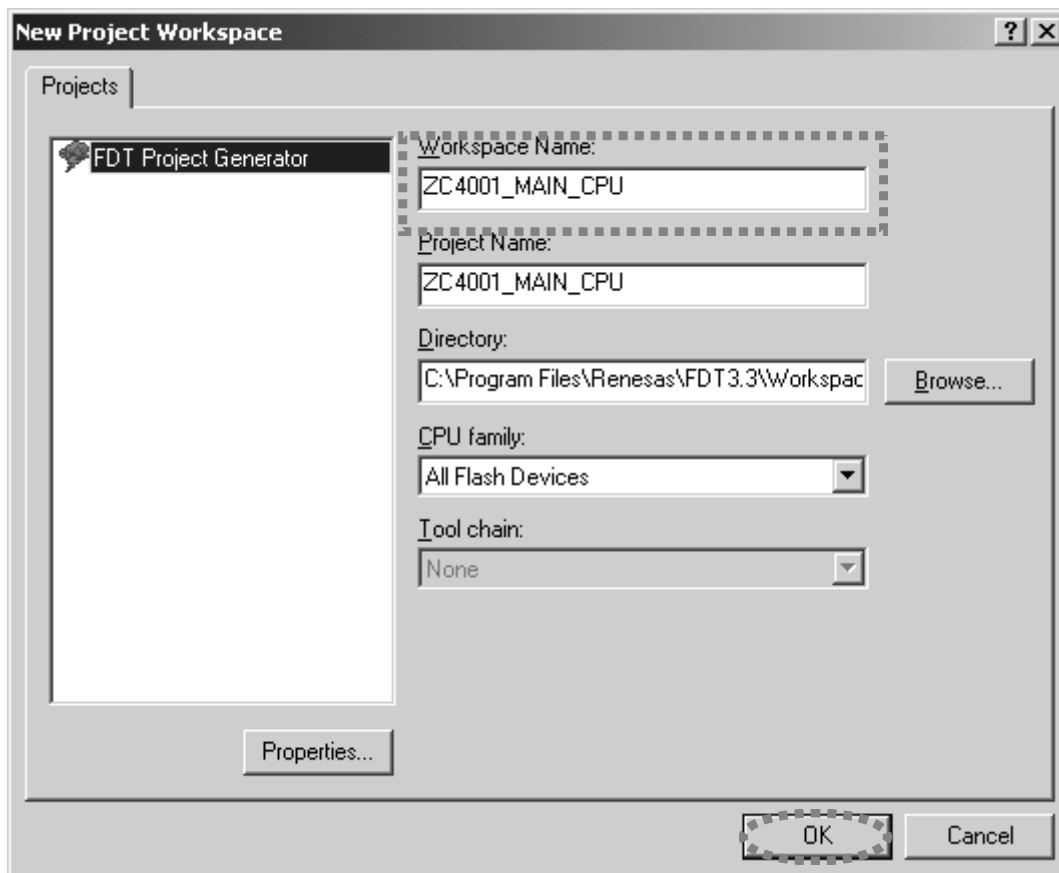


3. Check **Create a new project workspace**, and click **OK**.

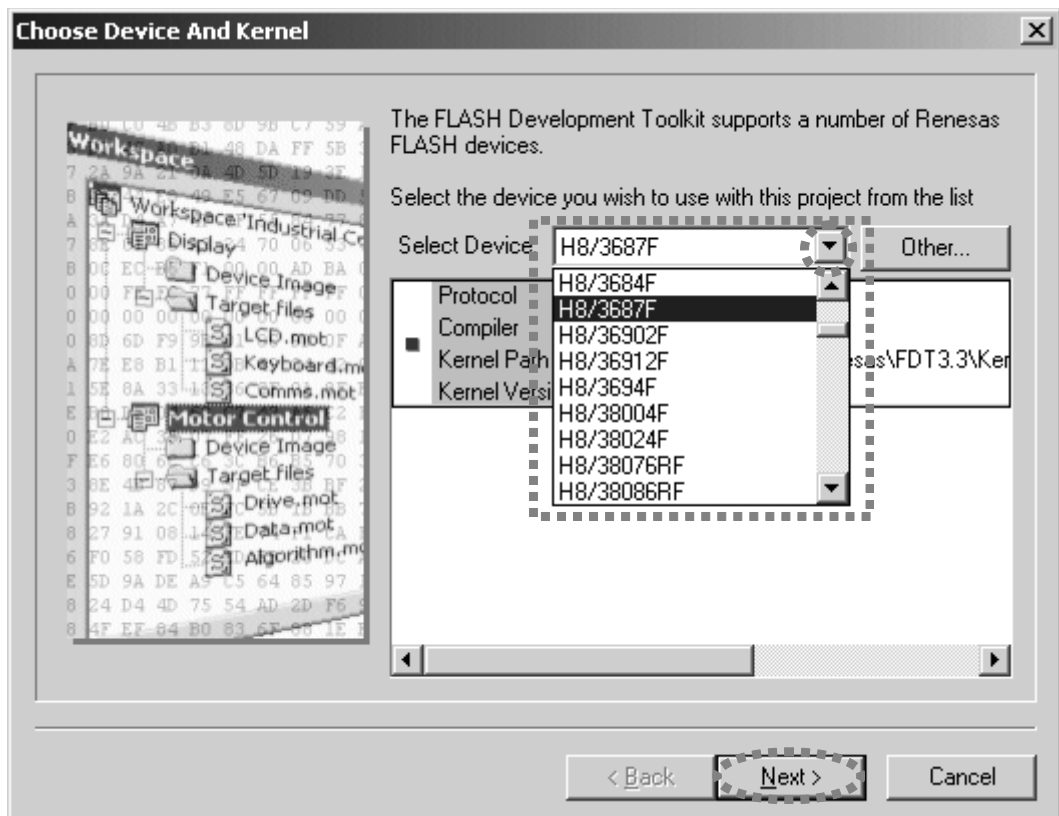
Note: It needs setup for ZC4001. When you have already setup, please move on to "Writing Procedure for SUB CPU".



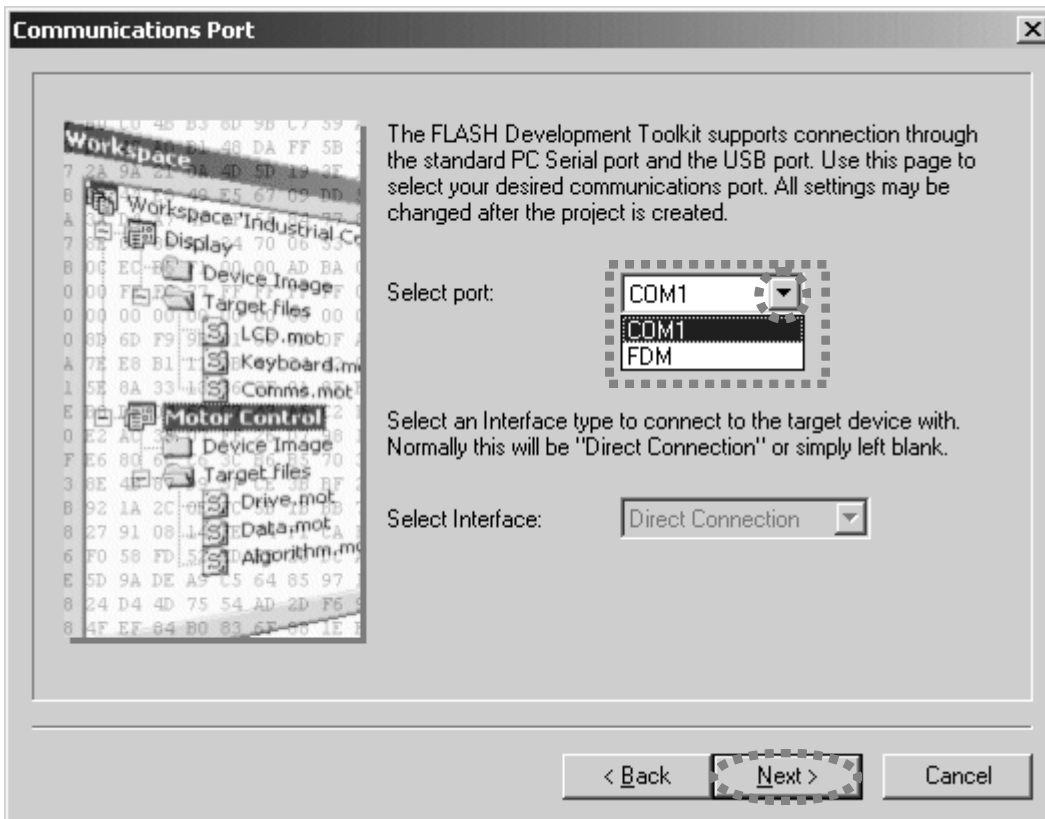
- ZC4001_MAIN_CPU** is inputted into the Workspace name.
(It is simultaneously inputted into Project Name.)
Click **OK**.



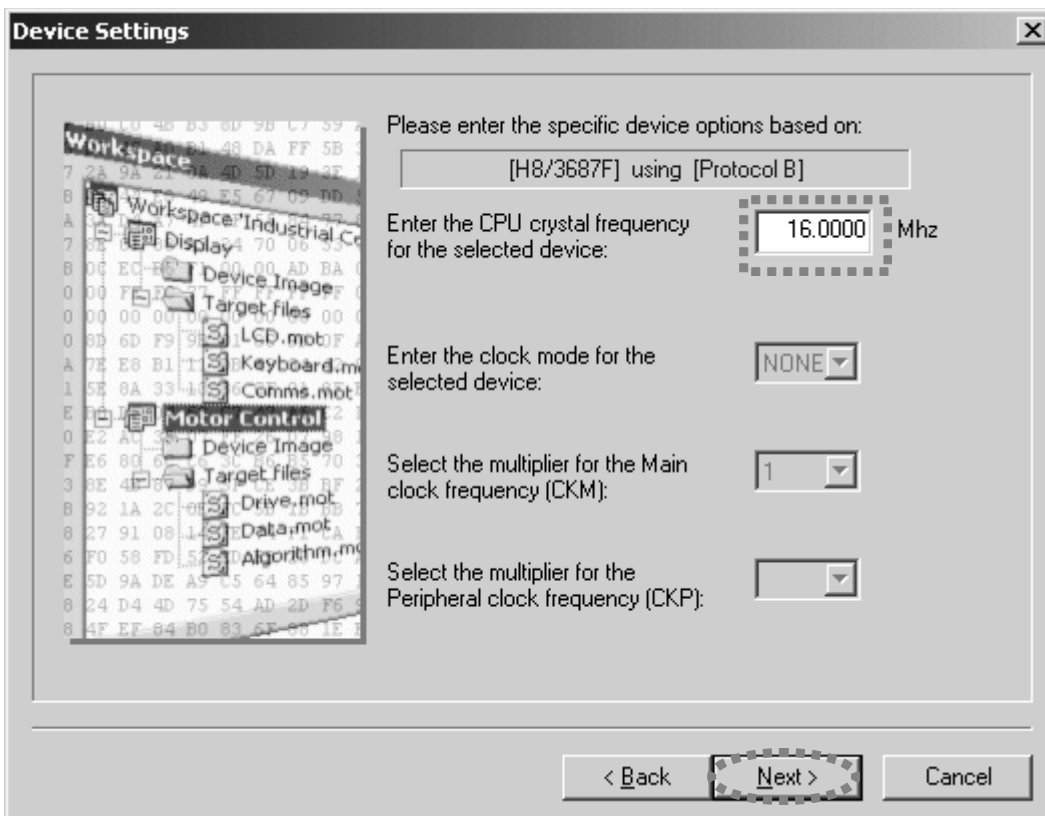
- Choose the **H8/3687F** in Select Device.
Click **Next**.



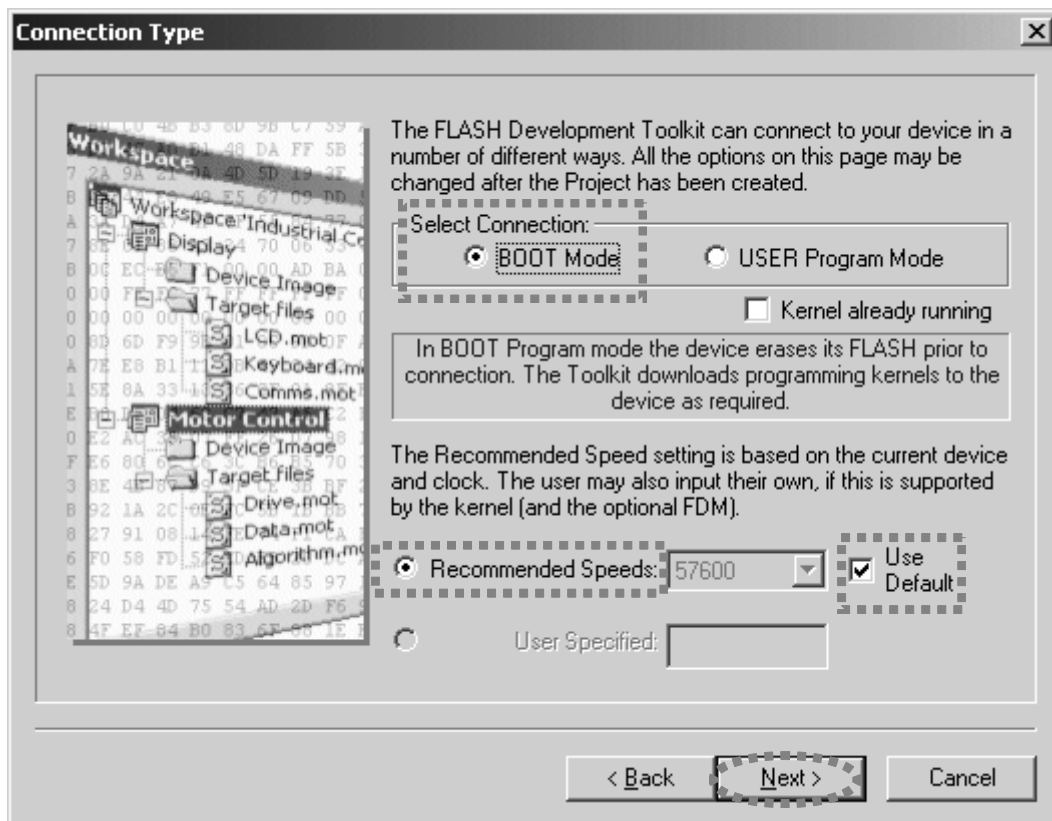
6. Choose the **Serial port No.** in the Select Port.
Click **Next**.



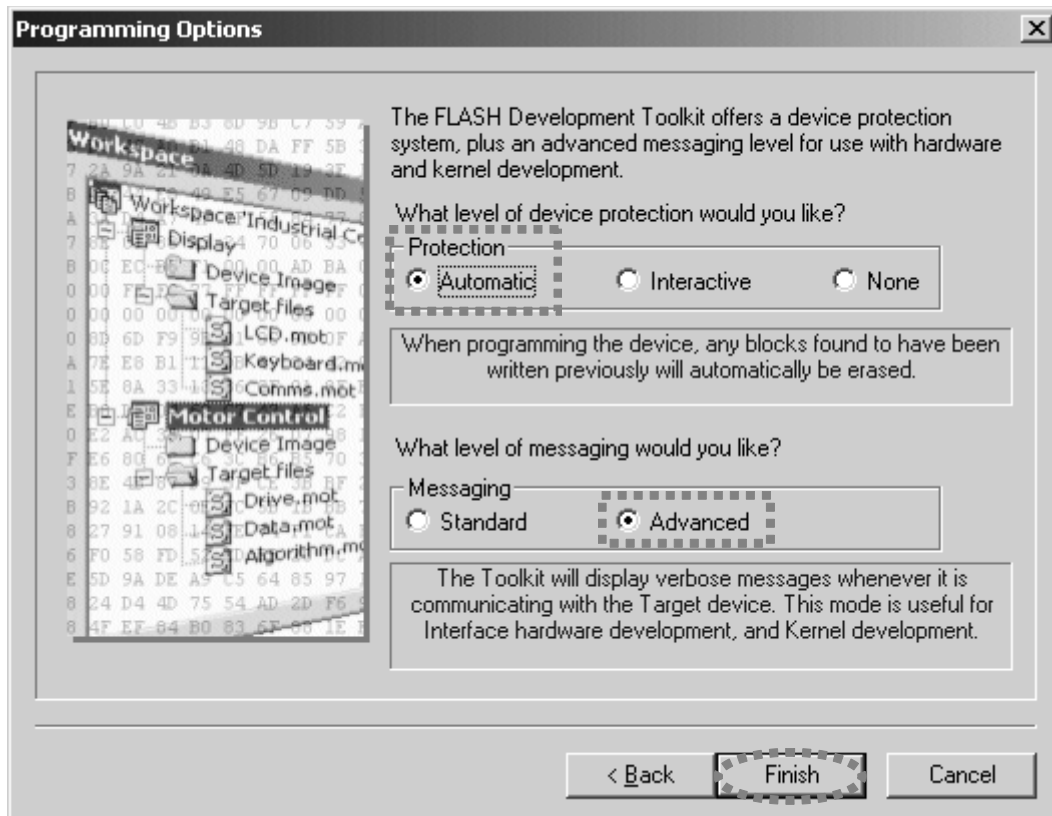
7. **16.0000** is inputted into the Enter the CPU crystal frequency for the selected device.
Click **Next**.



- Check The **BOOT Mode** in Select Connection.
Check **Recommended Speeds** and **Use Default**, and click **Next**.

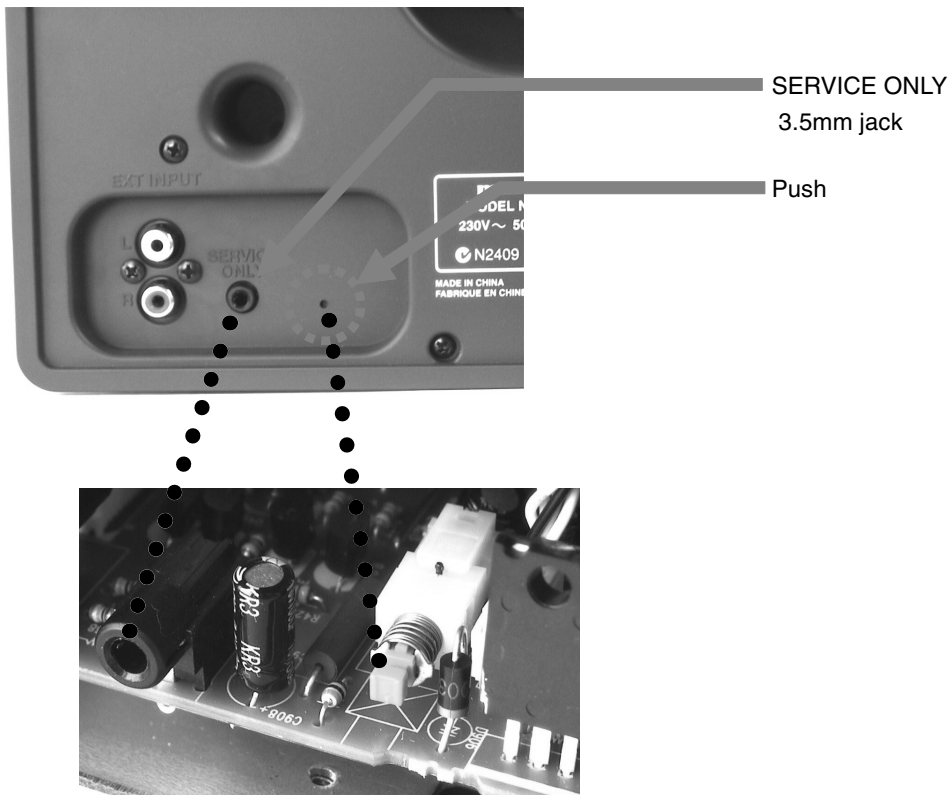


- Check the **Automatic** in Protection.
Check the **Advanced** in Messaging.
Click **Finish**.

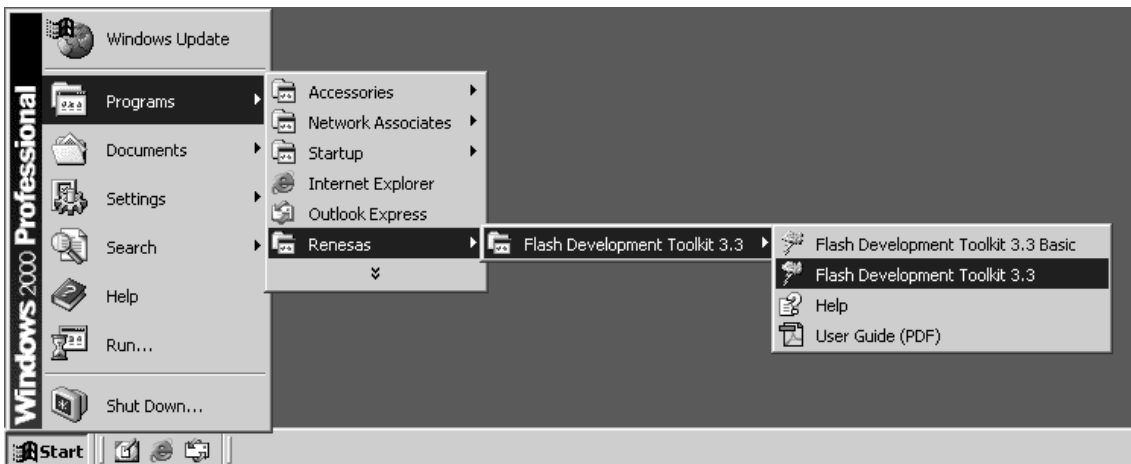


Writing Procedure for MAIN CPU

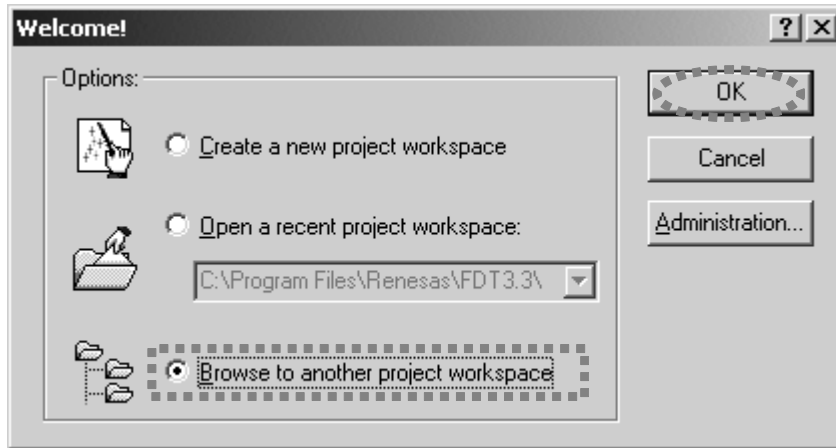
1. Do not connect the mains Cord of the unit to wall socket.
2. Connect SERVICE ONLY (3.5mm jack) on rear panel of the unit and Serial Port of windows PC with RS-232C D-sub9 pin to 3.5mm stereo plug cable.
3. Insert a thin rot to the hole and push the switch (SW41) inside to turn on the switch.



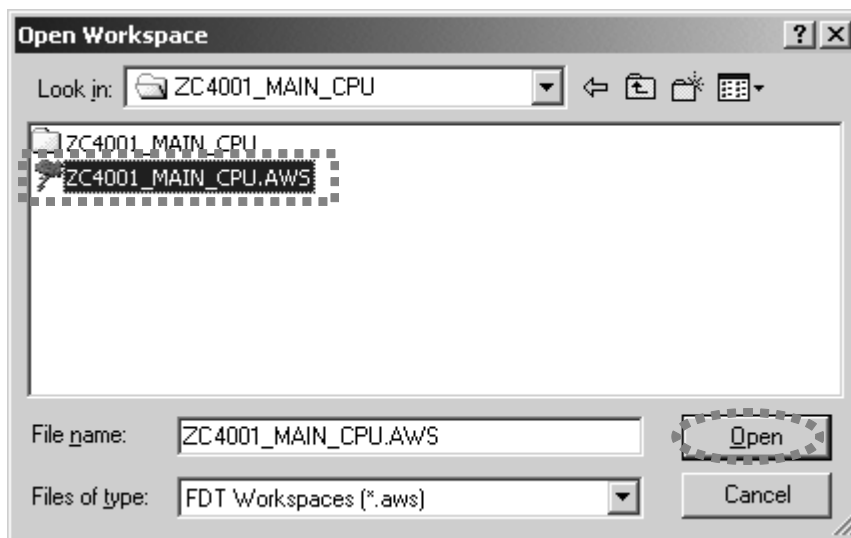
4. Connect the mains cord into the wall socket.
5. Launch the Flash Development Toolkit (FDT). (When FDT is not launch.)
Note: When FDT is already launch, please move to No.18.
6. Click **Start, Programs, Renesas, Flash Development Toolkit 3.3** and **Flash Development Toolkit 3.3**.



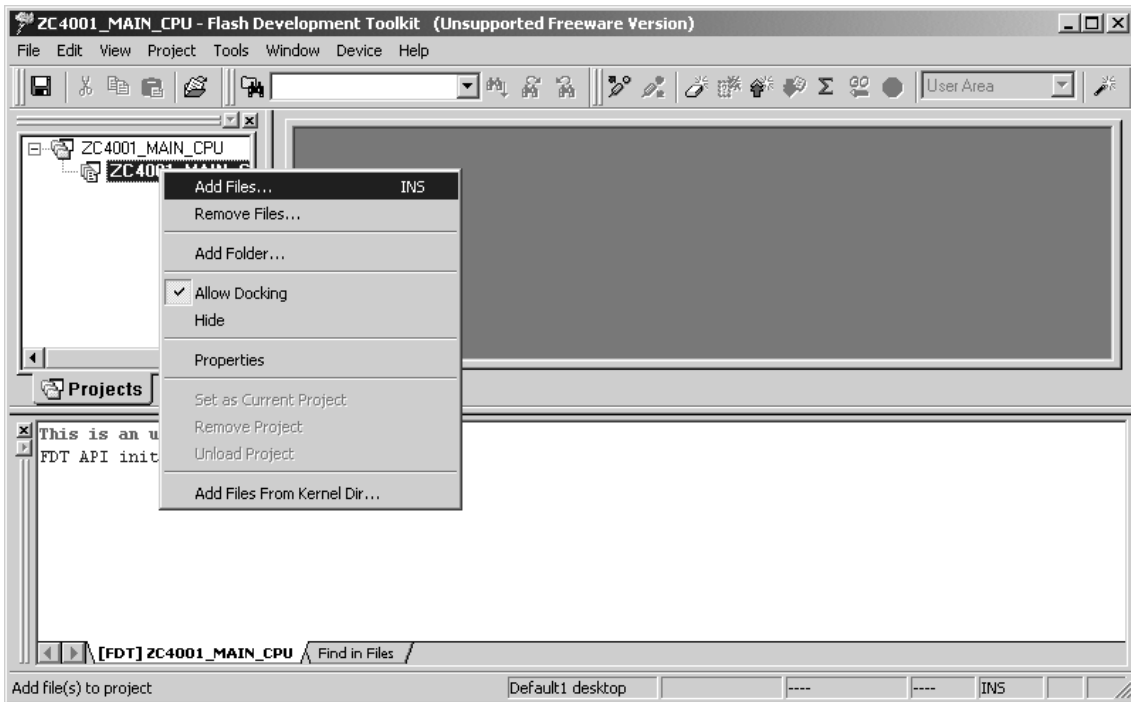
7. Check **Browse to another project workspace**, and click **OK**.



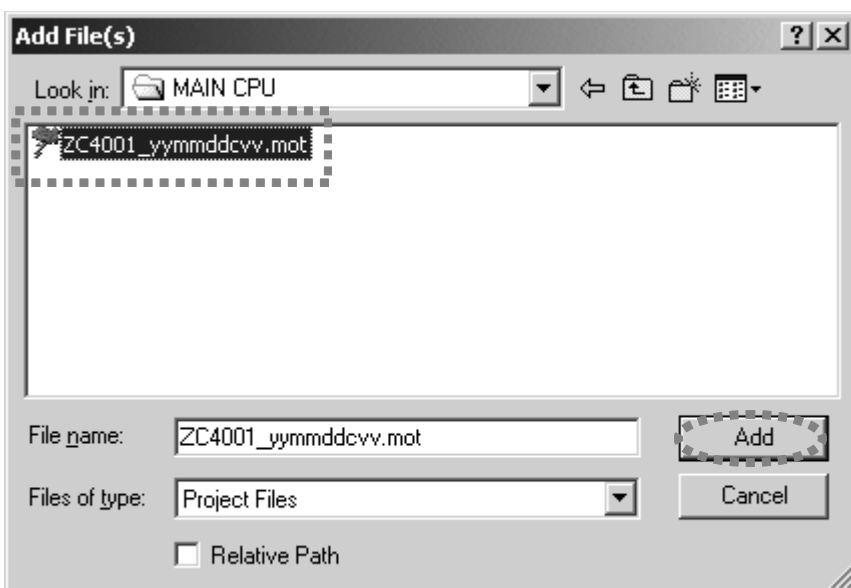
8. Choose **ZC4001_MAIN_CPU.AWS** in ZC4001_MAIN_CPU folder under workspace folder. And click **Open**.



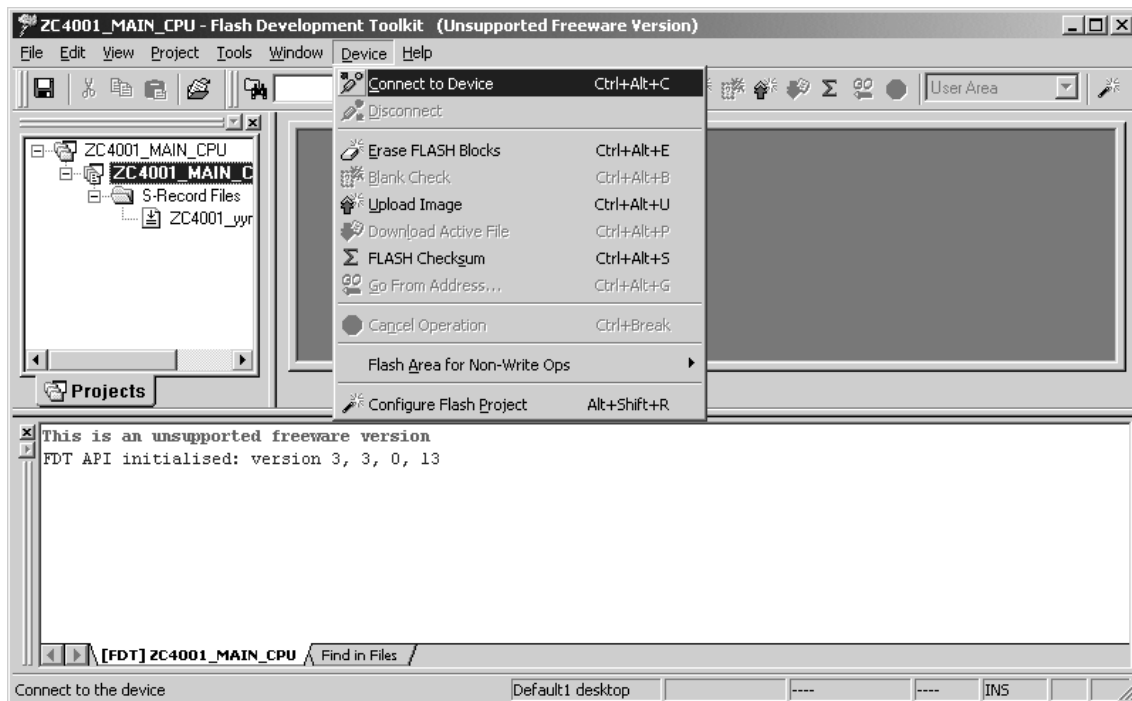
9. Right button of mouse click on the **ZC4001_MAIN_CPU**, and select the **Add Files...** in a menu.



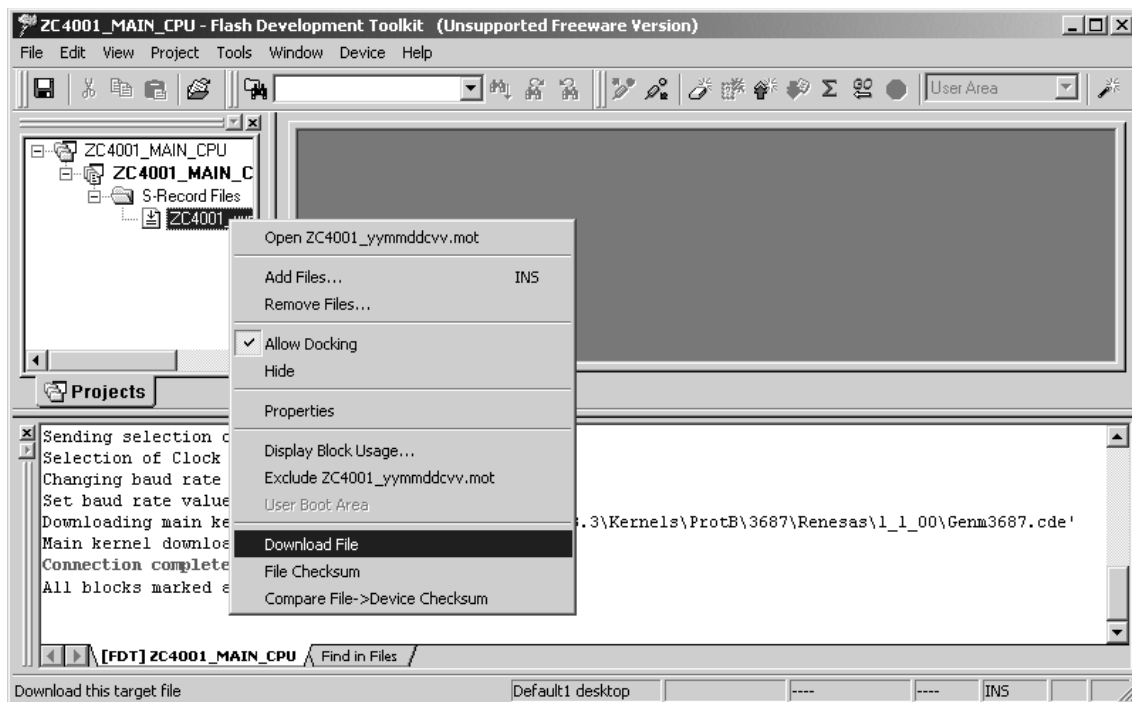
10. Choose the **ZC4001_yymmddcvv.mot**, and click **Add**.
NOTE: yy is two digits of year. mm is month. dd is date. cvv is version.



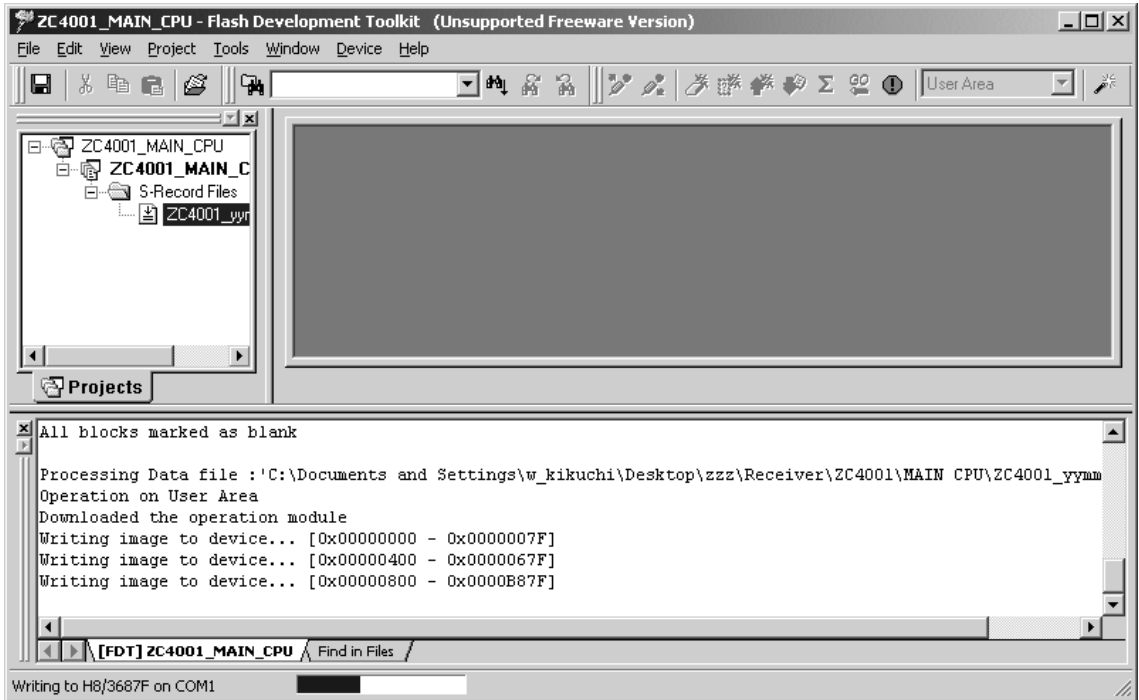
11. Click **Device** in the menu bar and select **Connect to Device**.



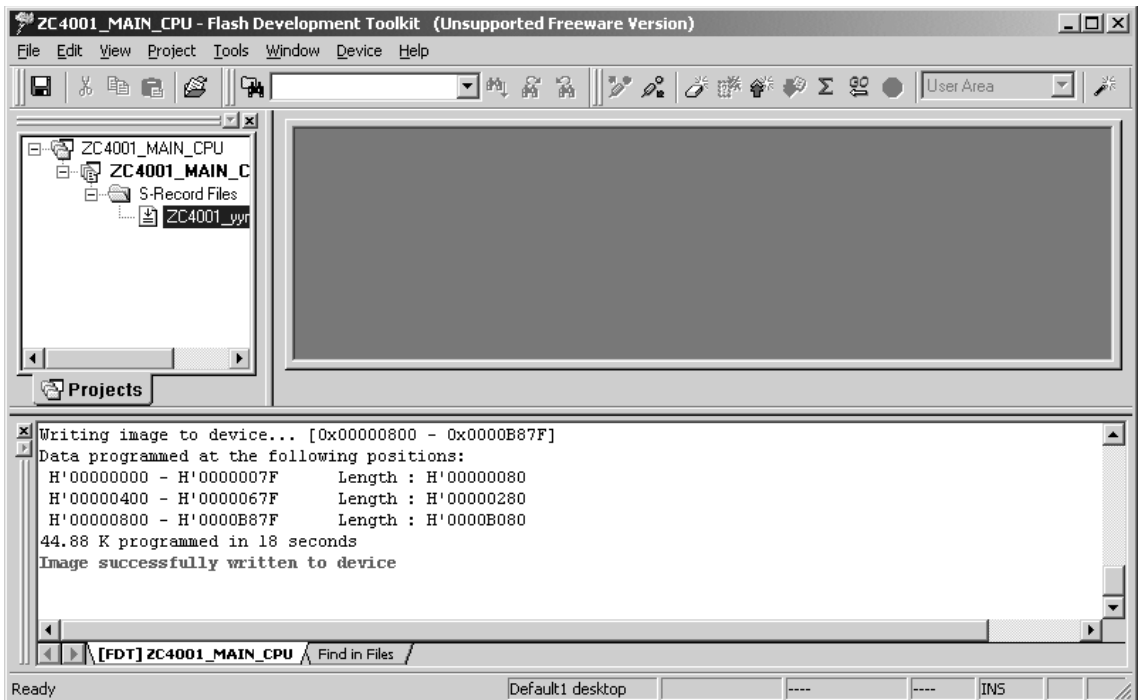
12. Press right button of mouse on the **ZC4001_yymmddcvv.mot**, and select the **Download File** in a menu.



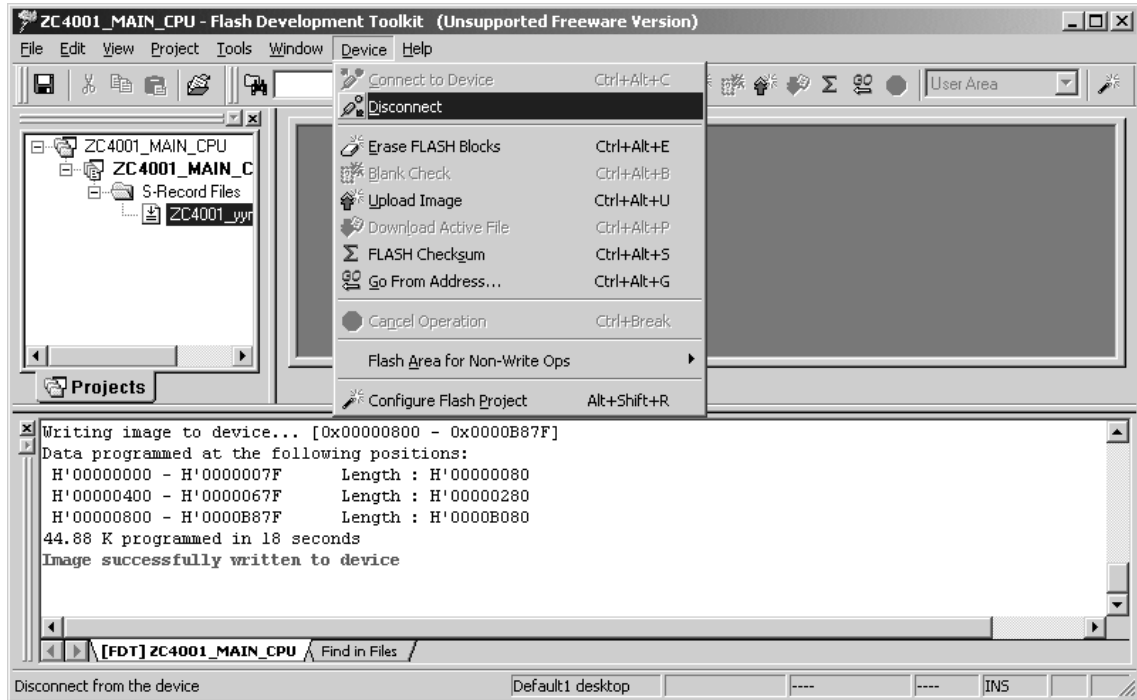
13. Software is written into the MAIN CPU.



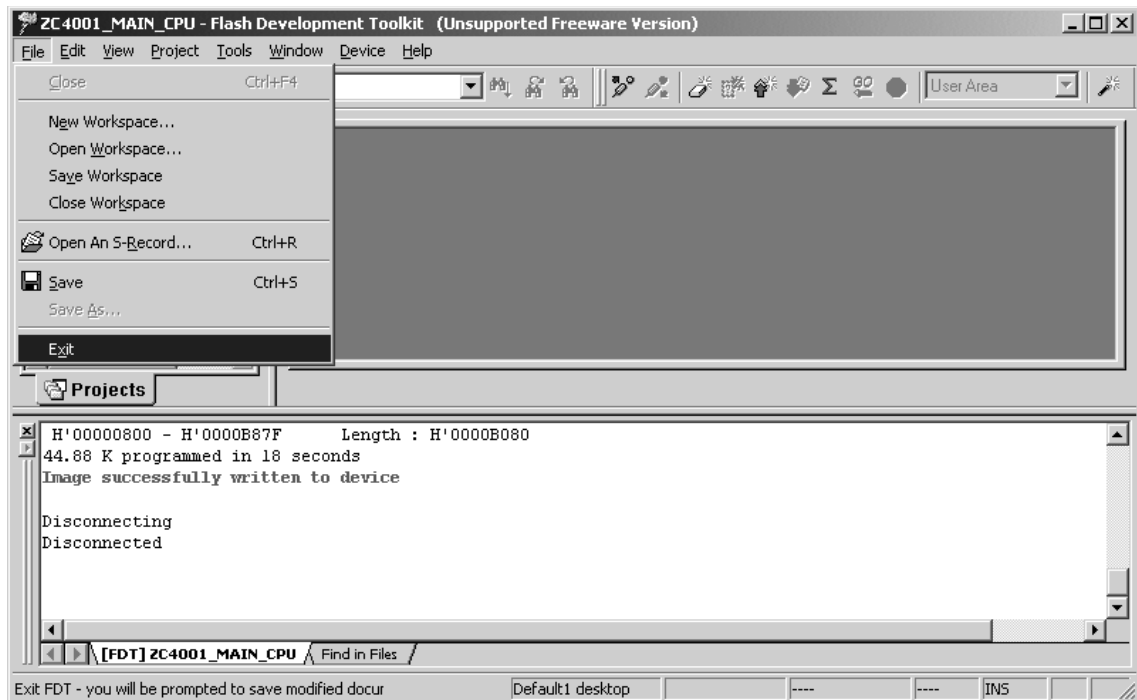
14. The writing of software takes about 20 seconds.



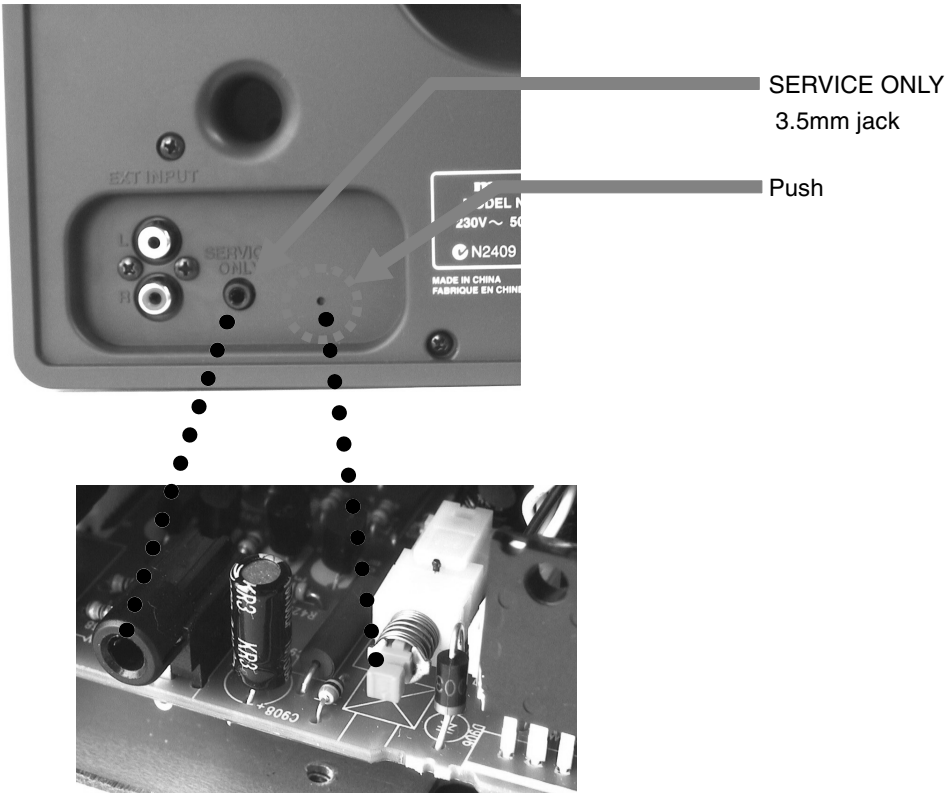
15. Click **Device** in the menu bar and select **Disconnect**.



16. Click **File** and select **Exit** in menu, when ending writing software.



- 17. Disconnect the mains cord from the wall socket. And disconnect the RS-232C Dsub-9 pin to 3.5mm stereo plug cable.
- 18. Insert a thin rod to the hole and push the switch (SW41) inside to turn off the switch.



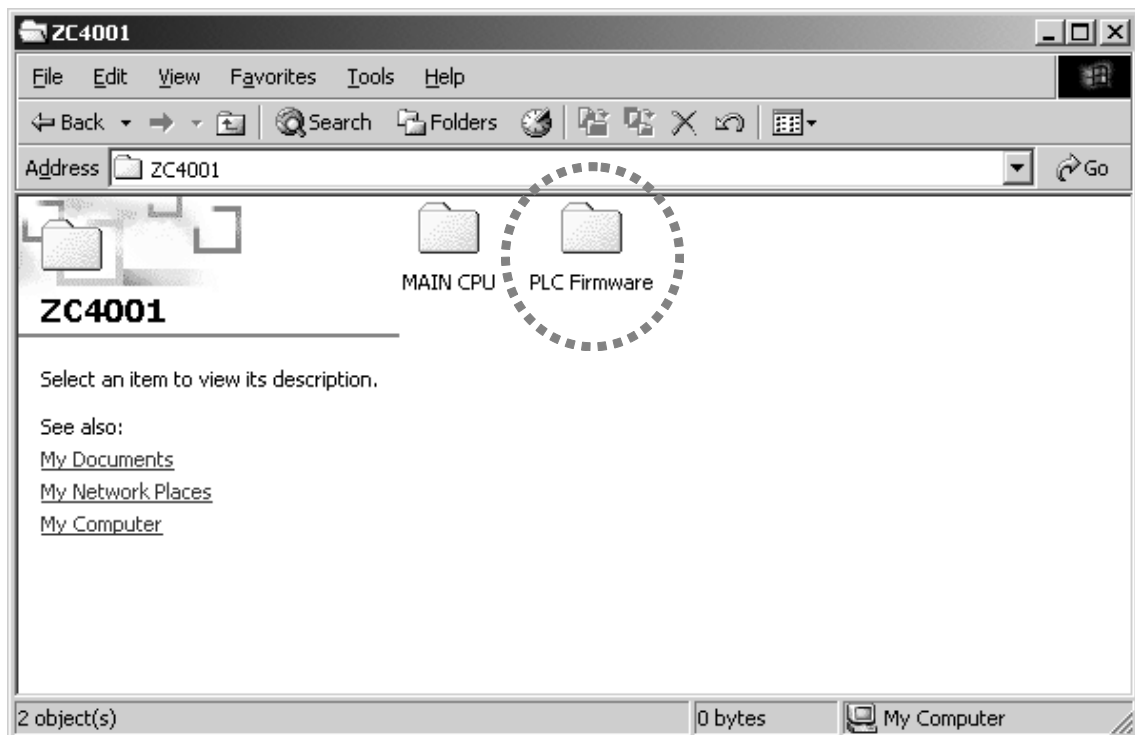
- 19. Update MAIN CPU's software is completed.

Mode 2: Update PLC's firmware to PLC MODULE

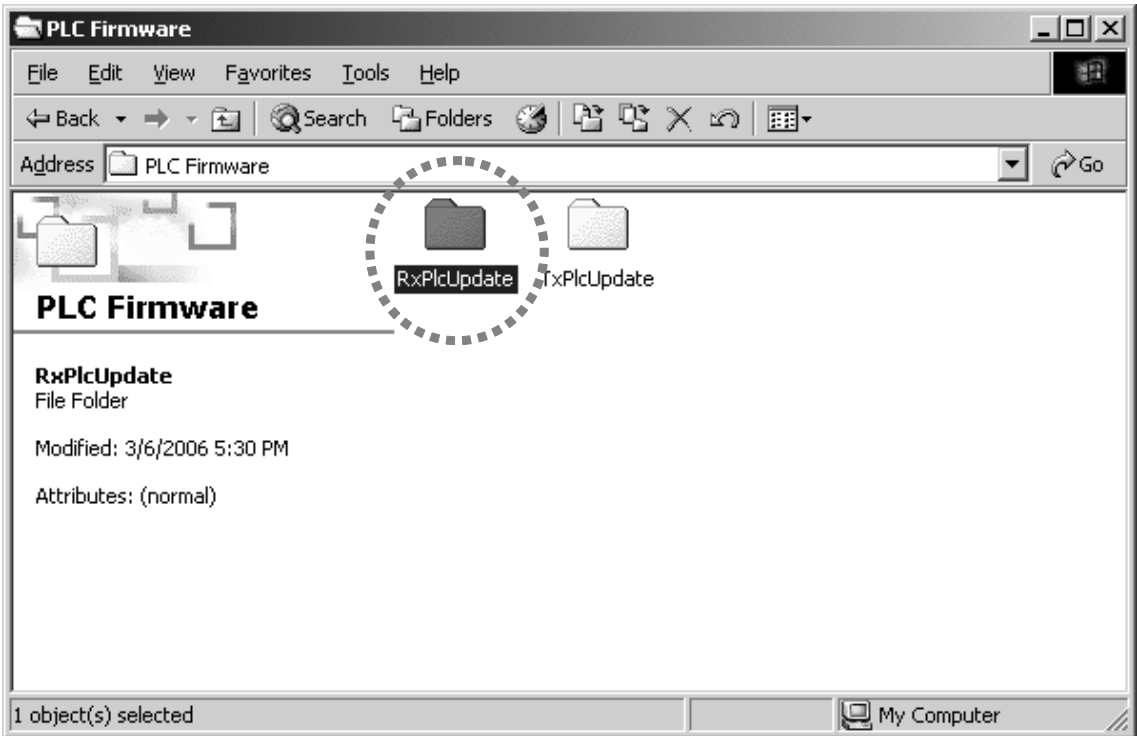
1. Do not connect the mains Cord of the unit to wall socket.
2. Connect SERVICE ONLY (3.5mm jack) on rear panel of the unit and Serial Port of windows PC with RS-232C D-sub9 pin to 3.5mm stereo plug cable.



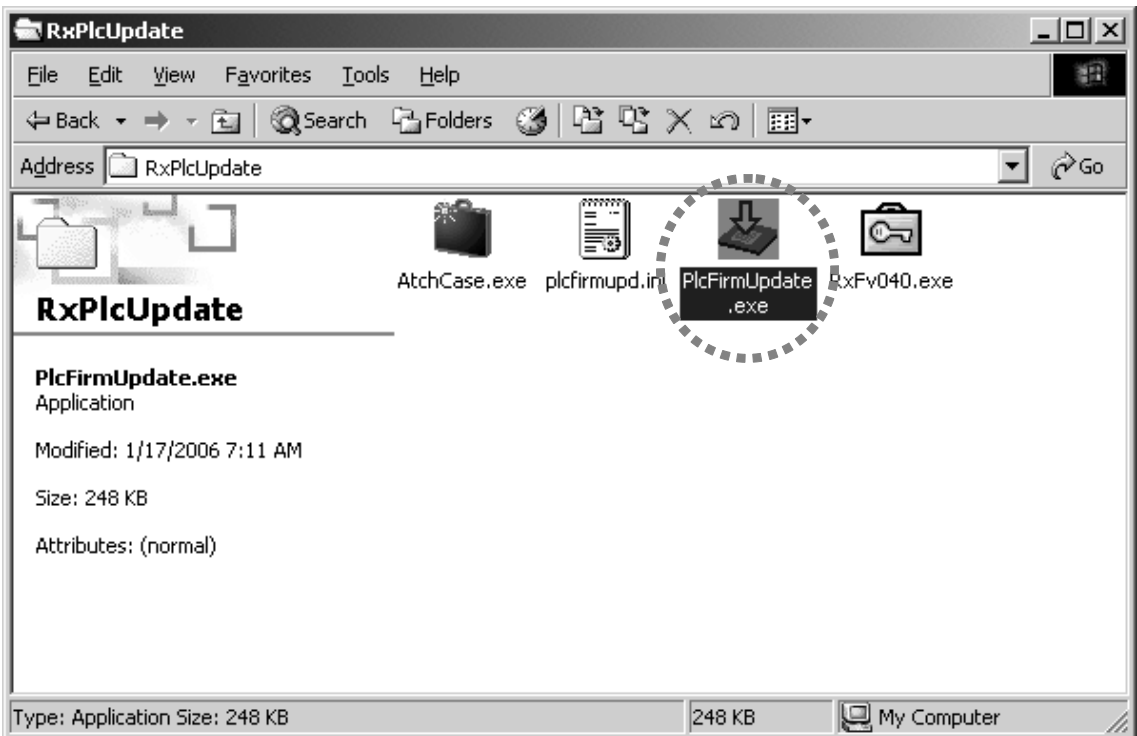
3. Connect the mains cord into the wall socket.
4. Turn on the unit, and wait for about 10 seconds.
5. Press **EXT**, **▶ PLAY** and **MUTE** button simultaneously more than 5 seconds. And turn on update mode.
6. "PLC FW UPDATE" and "START WAITING" are shown on FLD.
7. Put the "PCL Firmware" folder into anywhere on your PC's hard disk.



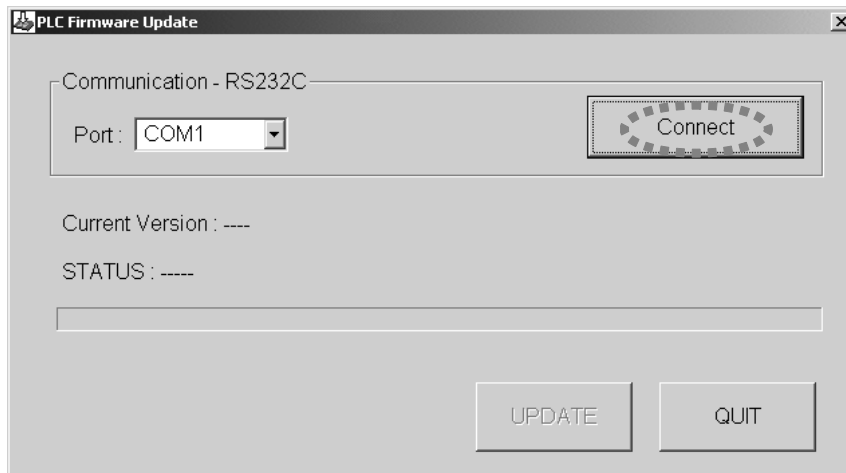
8. Double click RxPlcUpdate folder.



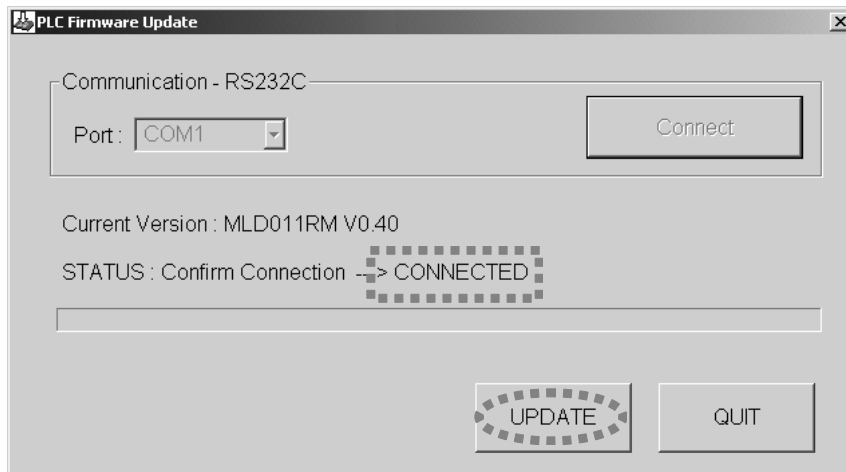
9. Double click the PlcFirmUpdate.exe. And Launch the PLC Firmware Update.



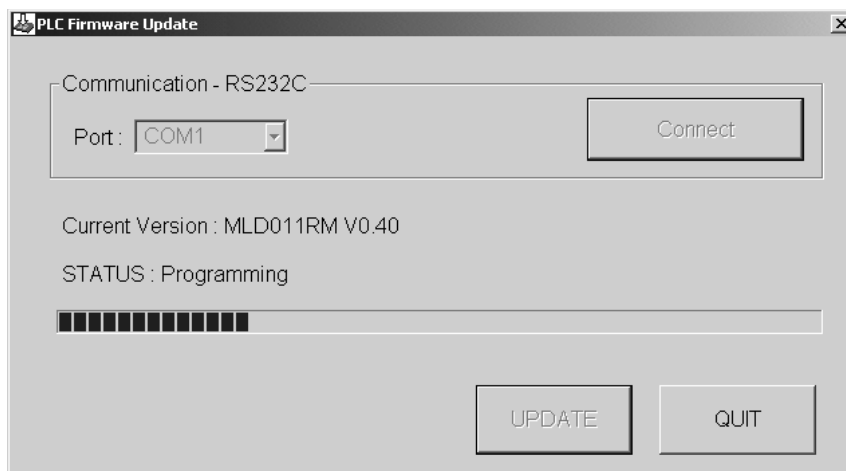
10. Click **Connect**.



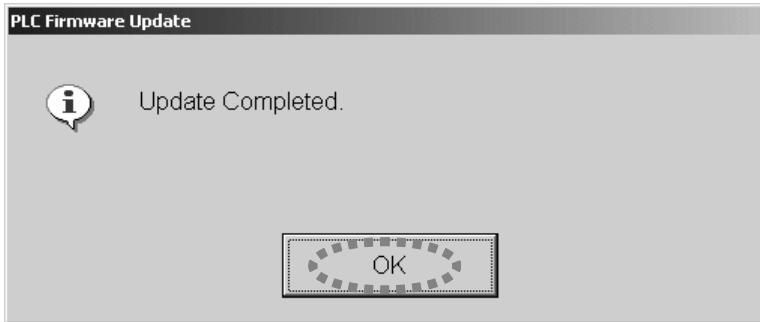
11. When "CONNECTED" appear in STATUS, connection is success.
Click **UPDATE**. Then "START WRITNG" is shown on FLD.



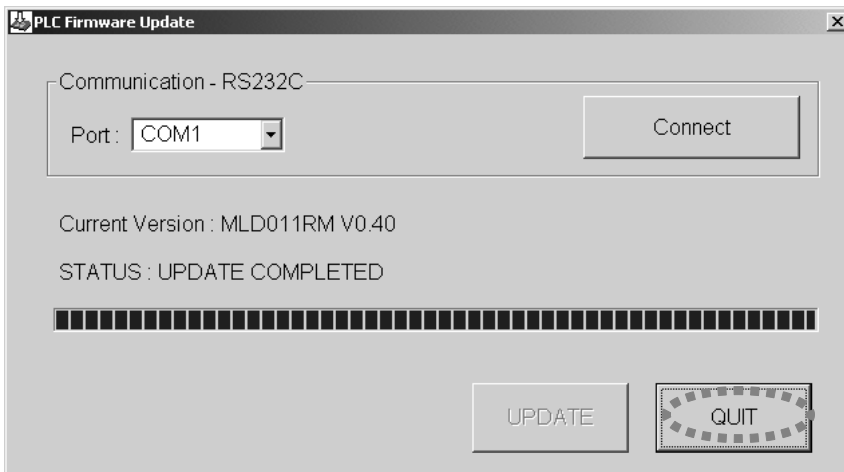
12. Firmware is written into the PLC MODULE.
The writing of firmware takes about 1 minute.



13. Click **OK**.

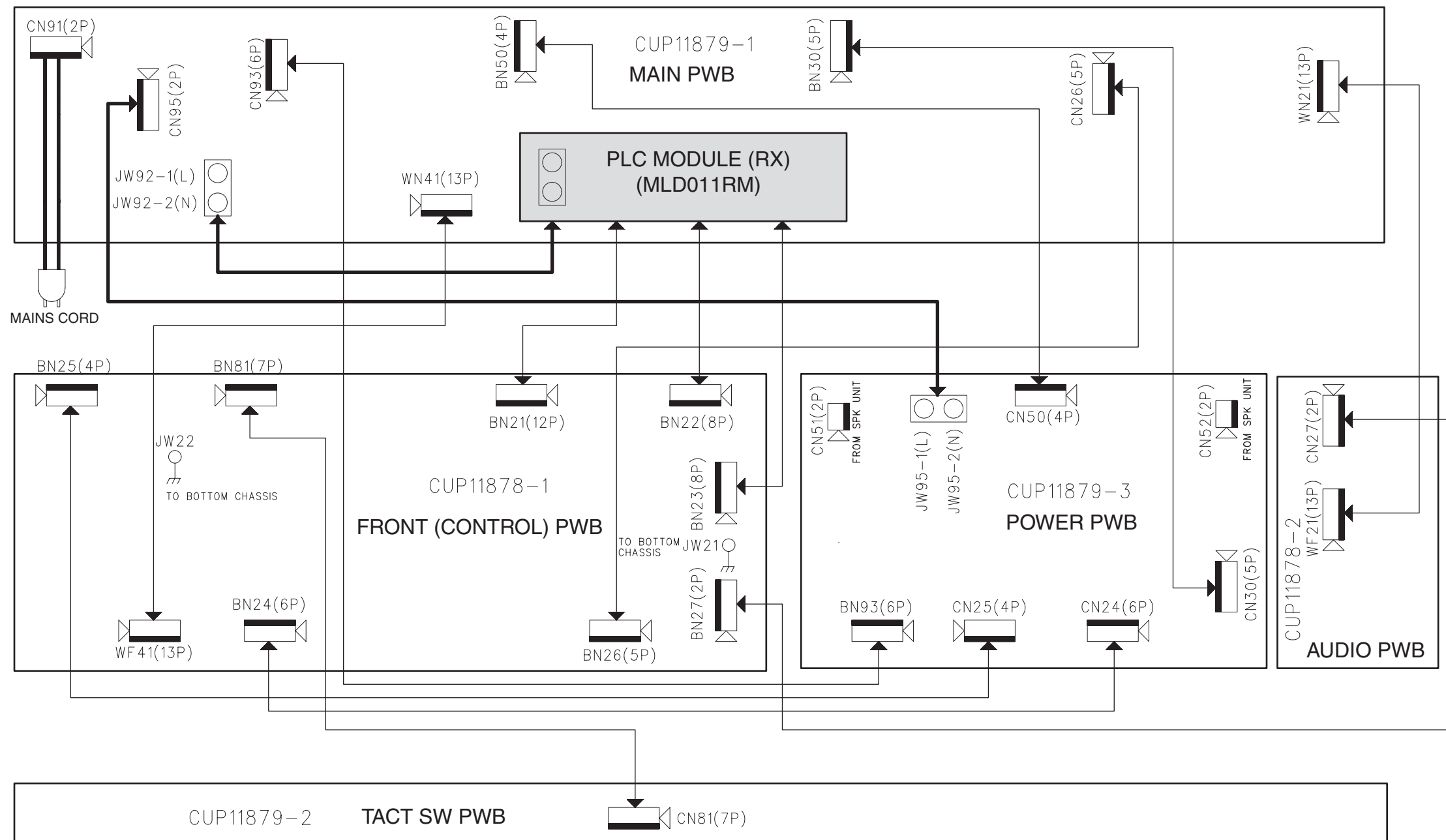


14. Click **QUIT**.

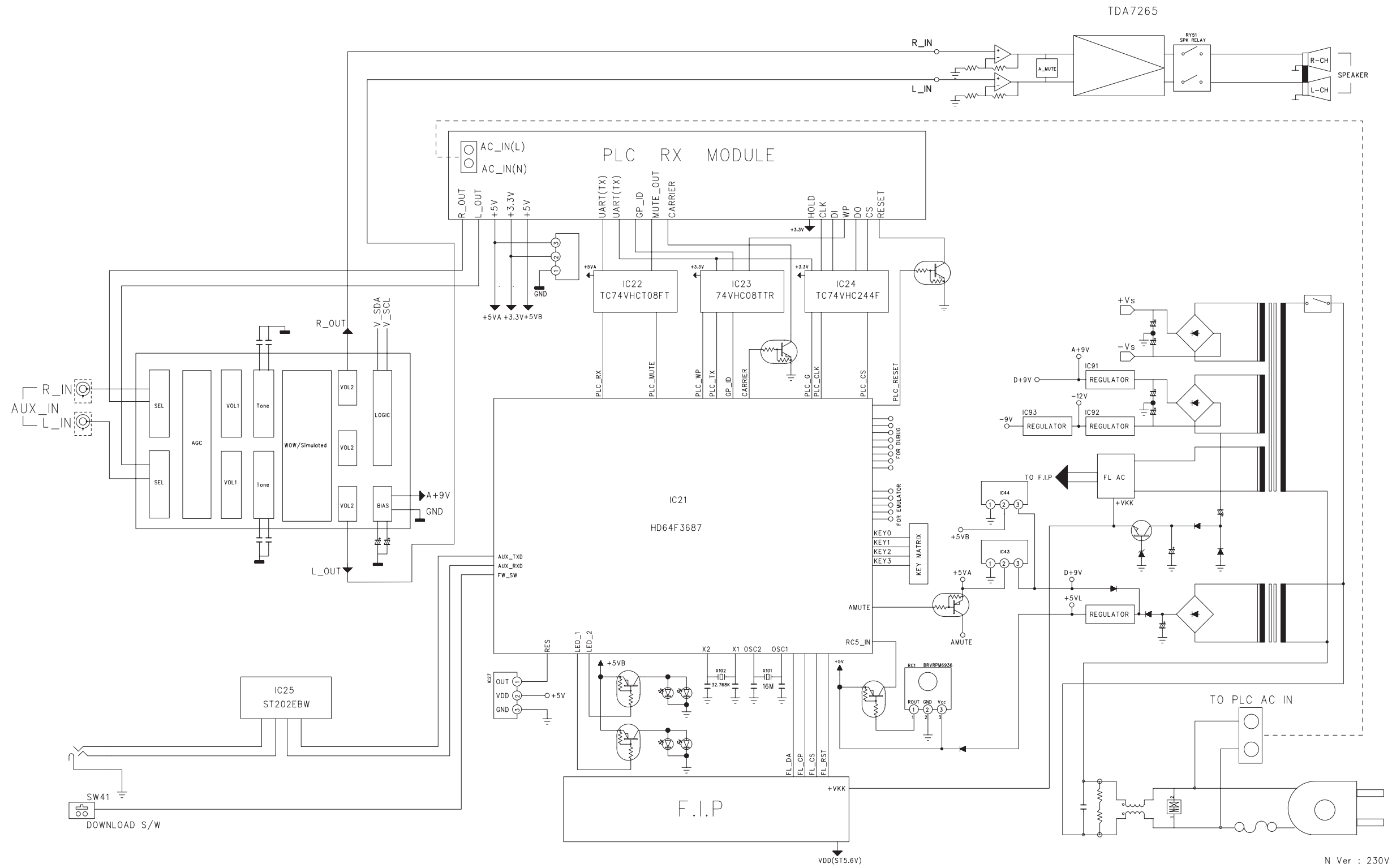


15. Disconnect the mains cord from the wall socket. And disconnect the RS-232C Dsub-9 pin to 3.5mm stereo plug cable.
16. Update PLC's firmware is completed.

6. WIRING DIAGRAM

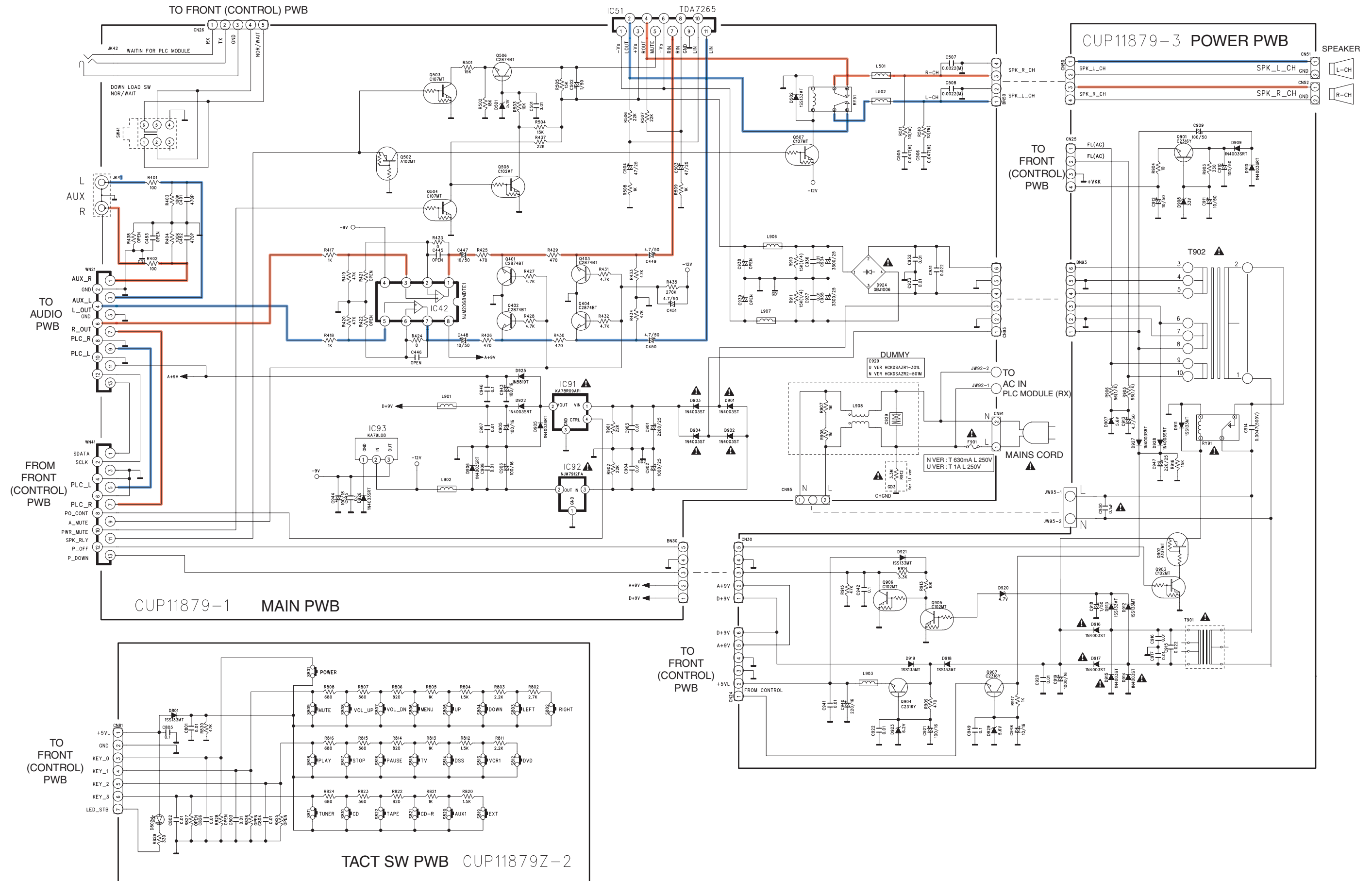


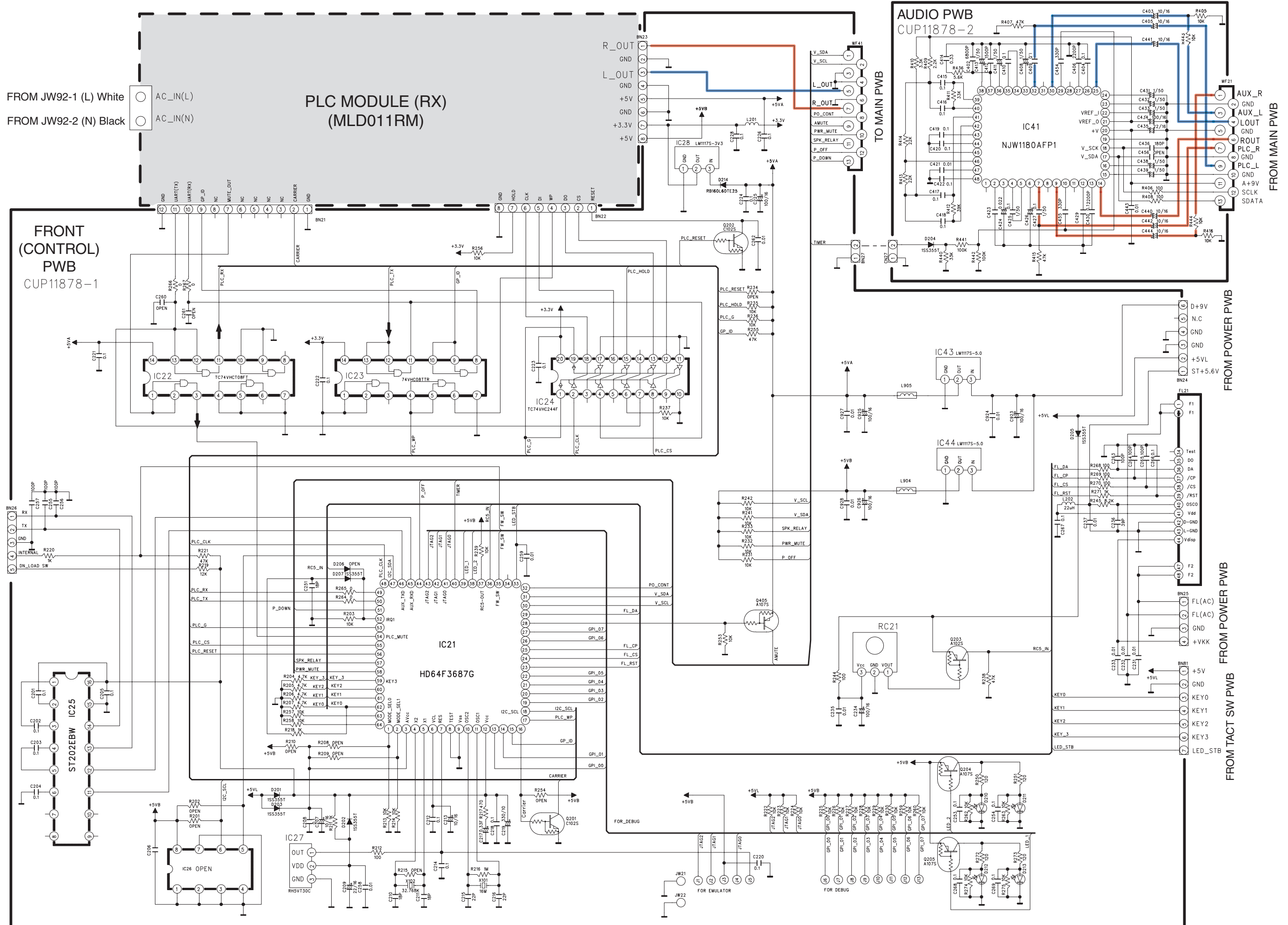
7. BLOCK DIAGRAM



N Ver : 230V
U Ver : 120V

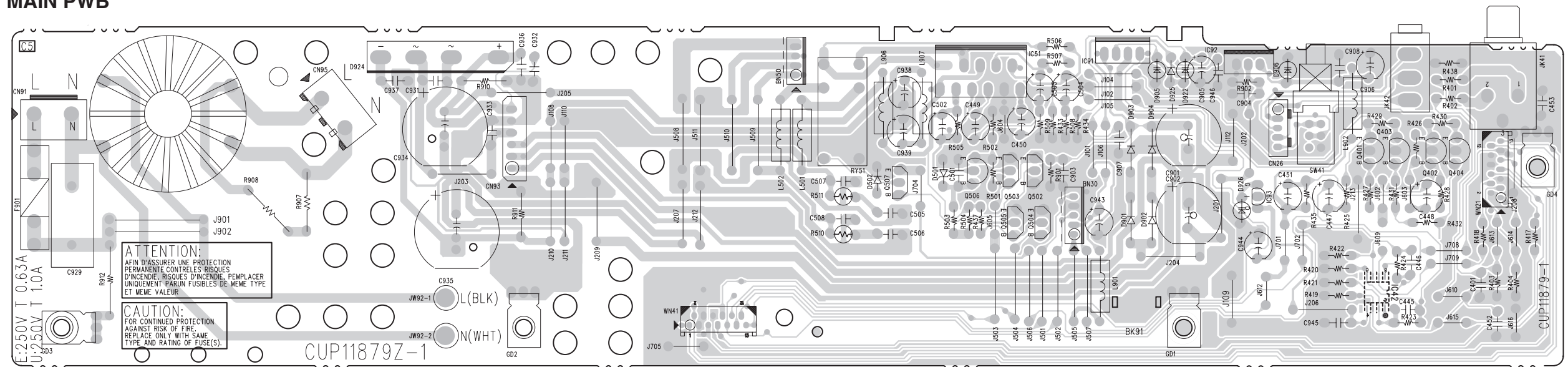
8. SCHEMATIC DIAGRAM



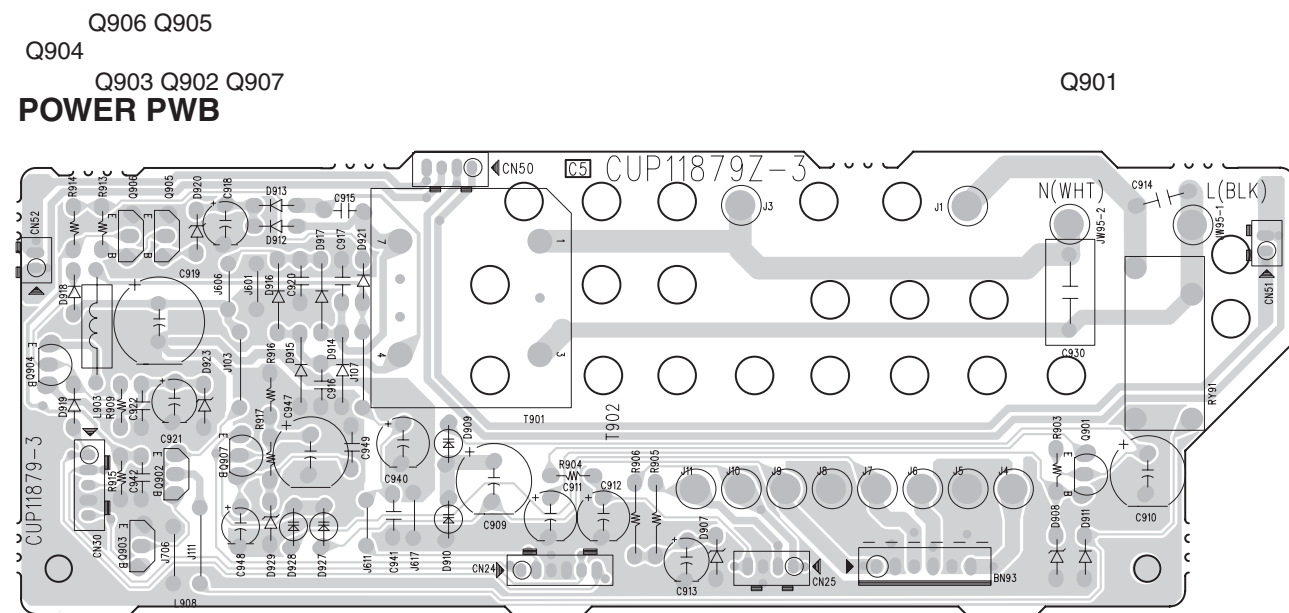


9. PARTS LOCATION

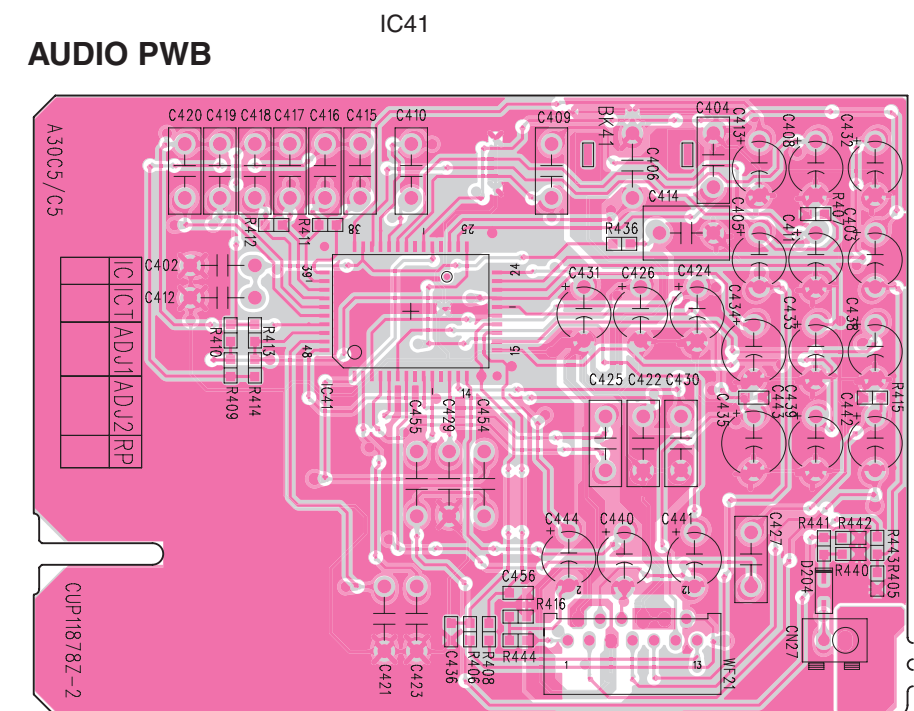
MAIN PWB



POWER PWB



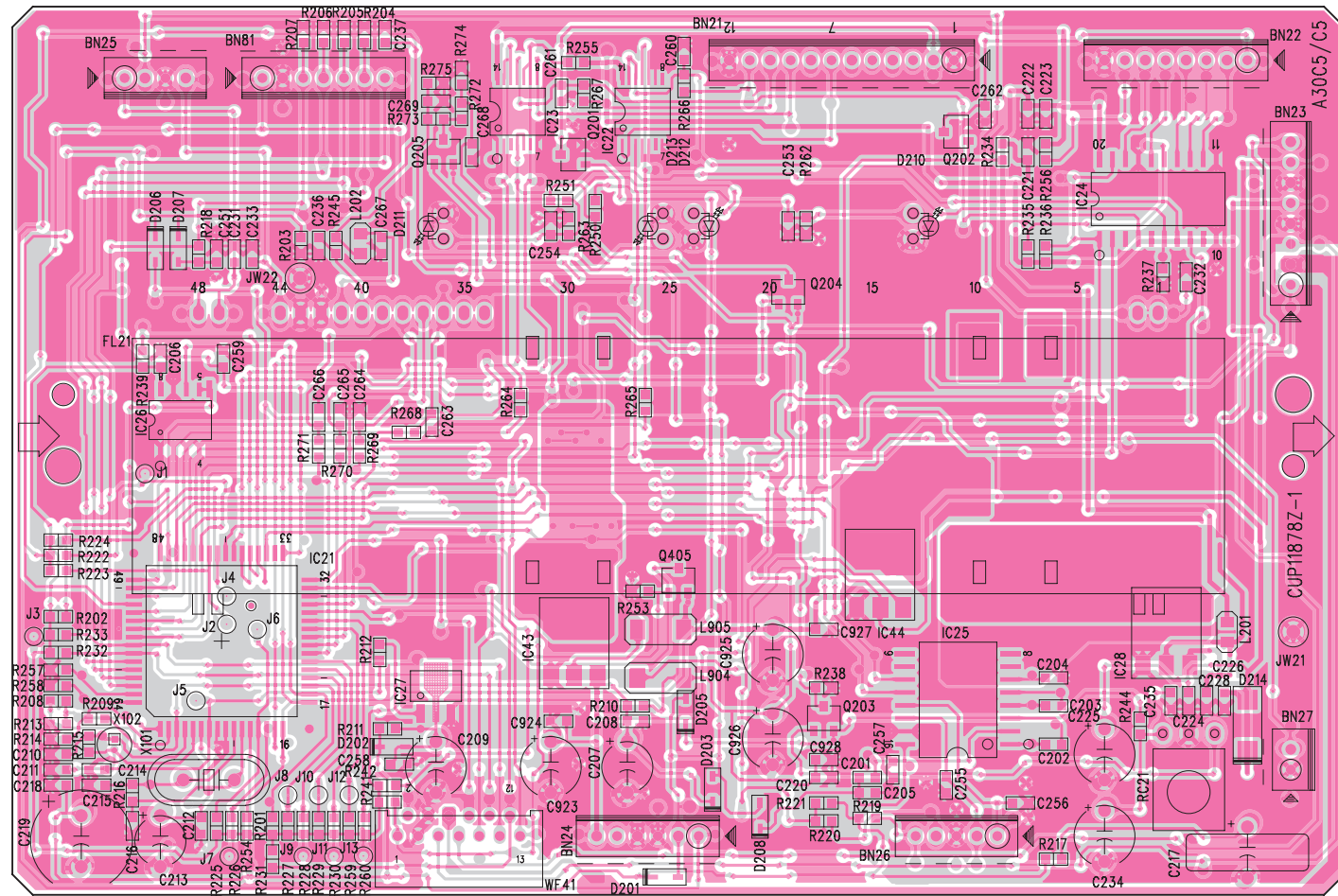
AUDIO PWB



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

IC26 IC21 IC27 IC43 IC44 IC25 IC28
 IC23 IC22 Q205 Q201 Q405 Q204 Q202 IC24
 Q203

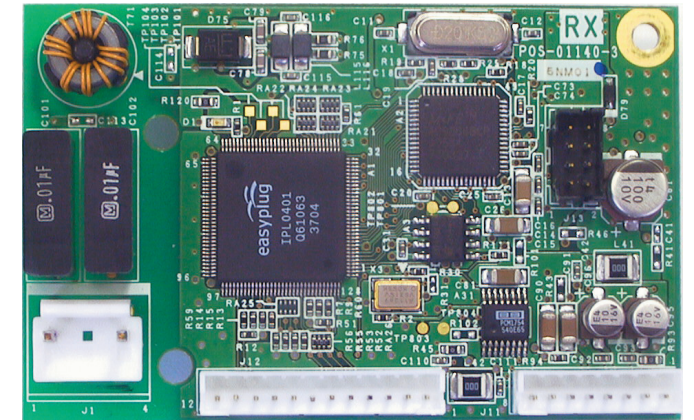
FRONT (CONTROL) PWB



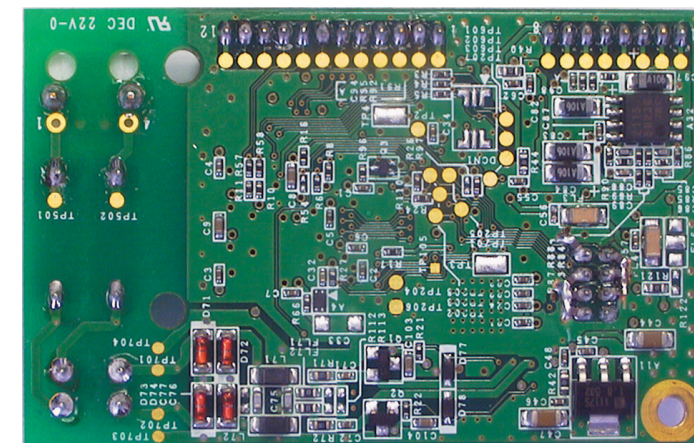
About this PWB (MODULE) repair:

There are no component parts for repair.
 Please replace this PWB ASSY (PLC MODULE) with the new one.

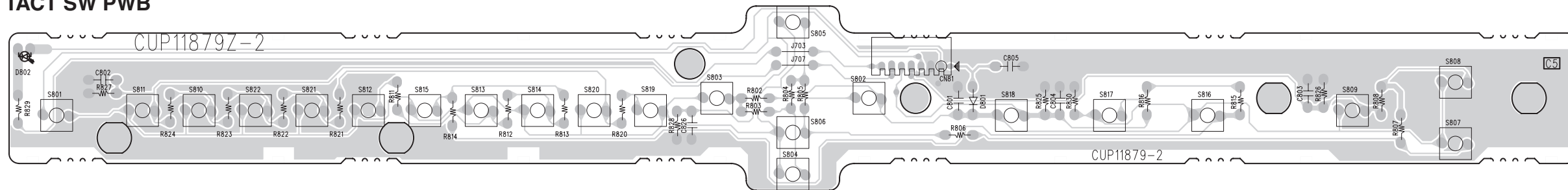
PLC (RX) MODULE A



PLC (RX) MODULE B



TACT SW PWB



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

10. IC DATA

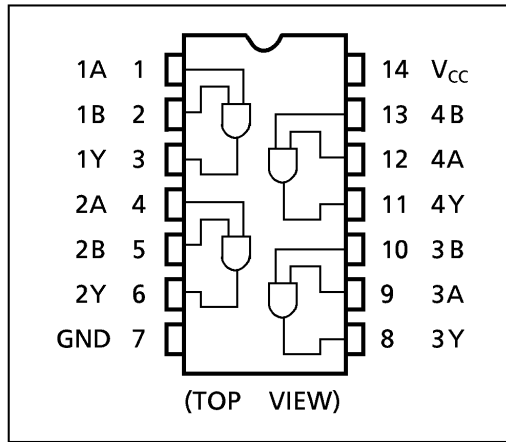
IC21 : HD64F3687G

pin	port	I/O	use	STBY	Name	Port Setting		Note
						Act.	init	
1	PB6/AN6	I	I	I	MODE_SEL0	-	-	(to GND)
2	PB7/AN7	I	I	I	MODE_SEL1	-	-	(to GND)
3	Avcc	I	AVcc	-	+5V	-	-	
4	X2	O	X2	O	32.768kHz x'tal	-	-	Resonator for Clock
5	X1	I	X1	I	32.768kHz x'tal	-	-	
6	Vcc	I	Vcc	-	+5V	-	-	
7	_RESET	I	_RES	I	_RESET	-	-	
8	TEST	I	-	I		-	-	
9	Vss	I	O	I		-	-	GND
10	OSC2	O	-	-	16MHz	-	-	Source oscillation of operation
11	OSC1	I	-	-	16MHz	-	-	
12	Vcc	I	I	I	+5V	-	-	
13	P50/_WKP0	I/O	I/O	I	GPIO0	H	L	reserved (for Debug)
14	P51/_WKP1	I/O	I/O	I	GPIO1	H	L	reserved (for Debug)
15	P34	I/O	O	I	_PLC_GPID	L	H	PLC Group registration demand
16	P35	I/O	O	I	_PLC_CARR	L	H	PLC Carrier Rearrangement demand
17	P36	I/O	O	I	_PLC_WP	L	L	PLC ROM Write Protect
18	P37	I/O	O	I	I2C_SCL	-	H	I2C Clock for E2PROM
19	P52/_WKP2	I/O	I/O	I	GPIO2	H	L	reserved (for Debug)
20	P53/_WKP3	I/O	I/O	I	GPIO3	H	L	reserved (for Debug)
21	P54/_WKP4	I/O	I/O	I	GPIO4	H	L	reserved (for Debug)
22	P55/_WKP5	I/O	I/O	I	GPIO5	H	L	reserved (for Debug)
23	P10/TMOW	I/O	O	I	_FL_RESET	L	H	FL Reset
24	P11/PWM	I/O	O	I	_FL_CS	L	H	FL Chip Select
25	P12	I/O	O	I	FL_CP	-	H	FL Serial Clock
26	P56/SDA	I/O	I/O	I	GPIO6	H	L	reserved (for Debug)
27	P57/SCL	I/O	I/O	I	GPIO7	H	L	reserved (for Debug)
28	P74/TMRIV	I/O	O	I	_AMUTE	L	L	Audio Mute
29	P75/TMCIV	I/O	O	I	FL_DA	-	H	FL Serial Data
30	P76/TMOV	I/O	O	I	V_SCL	-	H	Volume I2C Clock
31	P24	I/O	I/O	I	V_SDA	-	H	Volume I2C Data
32	P63/FTIOD0	I/O	O	I	_PLC_OFF	L	H	PLC Power Off port

pin	port mode = 7	I/O	use	STBY	Name	Port Setting		Note
						Act.	init	
33	P62/FTIOC0	I/O	O	I	_LED_POWER	L	H	
34	P61/FTIOB0	I/O	O	I	_LED_IR	L	H	
35	_MNI	I	-	-	_FW_SW	L	-	Flash ROM Write Enable
36	P60/FTIOA0	I/O	FTI	I	RC-IN	H	-	RC Input
37	P64/FTIOA1	I/O	FTO	I	RC-5OUT	H	L	reserved
38	P65/FTIOB1	I/O	O	I	_LED_MZ1	L	H	Front LED2
39	P66/FTIOC1	I/O	O	I	_LED_MZ2	L	H	Front LED1
40	P67/FTIOD1	I/O	O	O	BEEP	-	L	BEEP OUTPUT
41	P85	I/O	-	-	JTAG	-	-	Need pull up for flash rom write!
42	P86	I/O	-	-	JTAG	-	-	
43	P87	I/O	-	-	JTAG	-	-	
44	P20/SCK3	I/O	O	I	PWR_OFF	L	H	Power Off control
45	P21/RXD	I/O	RxD	I	AUX_RxD	-	-	RS232C RxD
46	P22/TXD	I/O	TxD	I	AUX_TxD	-	-	RS232C TxD
47	P23	I/O	I/O	I	I2C_SDA	-	H	I2C SDA for E2PROM
48	P70/SCK3_2	I/O	O	I	_PLC_SCL	-	H	PLC Flash Write Serial Clock
49	P71/RXD_2	I/O	RxD	I	PLC_RxD_SDO	-	-	PLC Serial Data
50	P72/TXD_2	I/O	TxD	I	PLC_TxD_SDI	-	-	PLC Serial Data
51	P14/_IRQ0	I/O	IRQ0	I	_P_DOWN	L	-	Power Down Detect
52	P15/_IRQ1/TMIB1	I/O	IRQ1	I	WAUP_UP	H	-	Wake Up from sleep mode
53	P16/_IRQ2	I/O	O	I	_PLC_G	L	H	PLC Flash Write Bus Select
54	P17/_IRQ3/TRGV	I/O	IRQ3	I	_PLC_MUTE	L	-	PLC AMUTE Input.
55	P33	I/O	O	I	_PLC_CS	L	H	PLC Flash write CS
56	P32	I/O	O	I	_PLC_RESET	L	H	PLC Reset
57	P31	I/O	O	I	SPK_RELAY	H	L	Speaker Relay
58	P30	I/O	O	I	PWR_MUTE	H	H	Power Mute
59	PB3/AN3	I	AN3	I	Key3	-	-	Key input3
60	PB2/AN2	I	AN2	I	Key2	-	-	Key input2
61	PB1/AN1	I	AN1	I	Key1	-	-	Key input1
62	PB0/AN0	I	AN0	I	Key0	-	-	Key input0
63	PB4/AN4	I	I	I	reserved	-	-	(to GND)
64	PB5/AN5	I	I	I	reserved	-	-	(to GND)

IC22 : TC74VHCT08AFT

PIN ASSIGNMENT

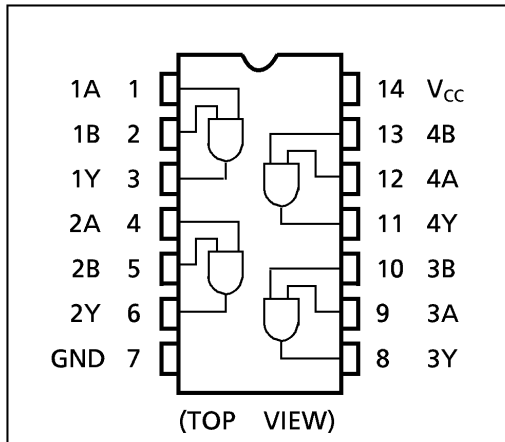


TRUTH TABLE

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

IC23 : TC74VHC08TTR

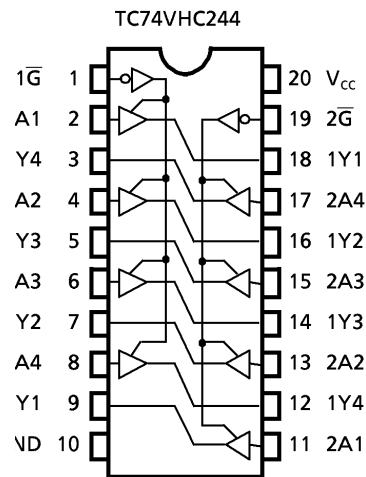
PIN ASSIGNMENT



TRUTH TABLE

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

IC24 : TC74VHC244F

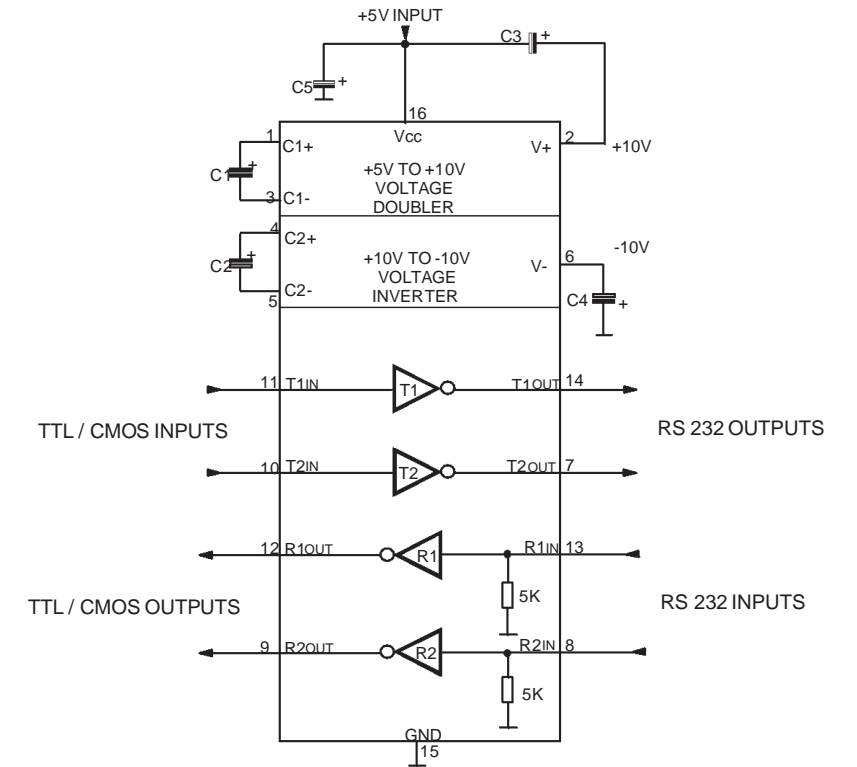
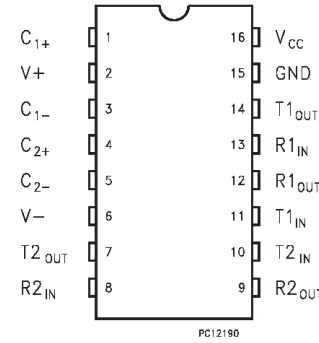


TRUTH TABLE

INPUTS		OUTPUTS	
\bar{G}	A_n	Y_n	\bar{Y}_n
L	L	L	H
L	H	H	L
H	X	Z	Z

X : Don't Care
 Z : High Impedance
 Y_n : TC74VHC244
 \bar{Y}_n : TC74VHC240

IC25 : ST202EBW

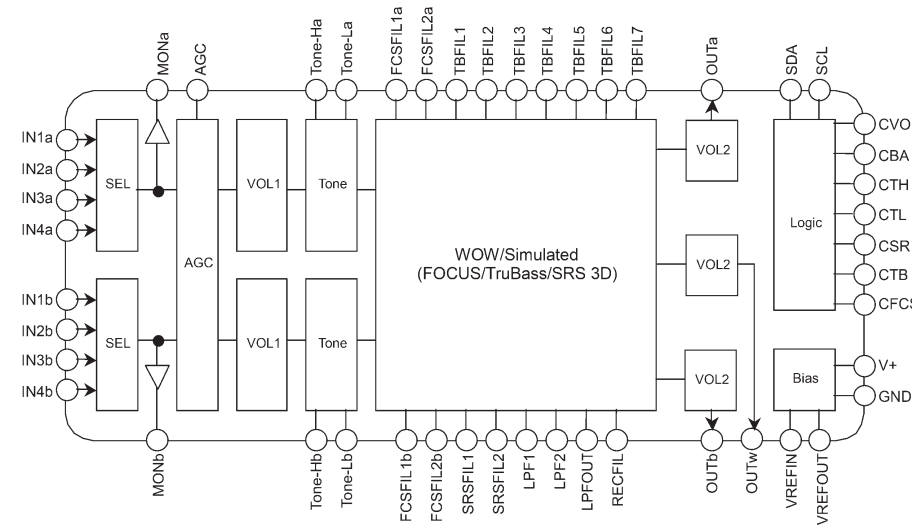


PIN DESCRIPTION

PIN No	SYMBOL	NAME AND FUNCTION
1	C ₁₊	Positive Terminal for the first Charge Pump Capacitor
2	V+	Doubled Voltage Terminal
3	C ₁₋	Negative Terminal for the first Charge Pump Capacitor
4	C ₂₊	Positive Terminal for the second Charge Pump Capacitor
5	C ₂₋	Negative Terminal for the second Charge Pump Capacitor
6	V-	Inverted Voltage Terminal
7	T ₂ OUT	Second Transmitter Output Voltage
8	R ₂ IN	Second Receiver Input Voltage
9	R ₂ OUT	Second Receiver Output Voltage
10	T ₂ IN	Second Transmitter Input Voltage
11	T ₁ IN	First Transmitter Input Voltage
12	R ₁ OUT	First Receiver Output Voltage
13	R ₁ IN	First Receiver Input Voltage
14	T ₁ OUT	First Transmitter Output Voltage
15	GND	Ground
16	V _{CC}	Supply Voltage

IC41 : NJW1180AFP1

No.	SYMBOL	FUNCTION
1	OUTw	Sub Woofer ch Output
2	SRSFIL1	Surround Filter
3	CSR	Pop Noise Reduction for Surround ON/OFF
4	FCSFIL1a	Ach Focus Filter
5	FCSFIL2a	Ach Focus Filter
6	CFCS	Pop Noise Reduction for Focus ON/OFF
7	IN1a	Ach Input 1
8	IN2a	Ach Input 2
9	IN3a	Ach Input 3
10	IN4a	Ach Input 4
11	MONa	Ach Monitor Output
12	TONE-Ha	Ach Treble Filter
13	TONE-La	Ach Bass Filter
14	OUTa	Ach Output
15	CTH	Pop Noise Reduction for Treble Control
16	CTL	Pop Noise Reduction for Bass Control
17	SDA	SDA Serial Data Input (I2C BUS)
18	SCL	SCL Serial Clock Input (I2C BUS)
19	GND	Ground
20	V+	Power Supply
21	VREFOUT	Reference Voltage Output
22	VREFIN	Reference Voltage Input
23	CVO	Pop Noise Reduction for Volume Control
24	CBA	Pop Noise Reduction for Balance Control



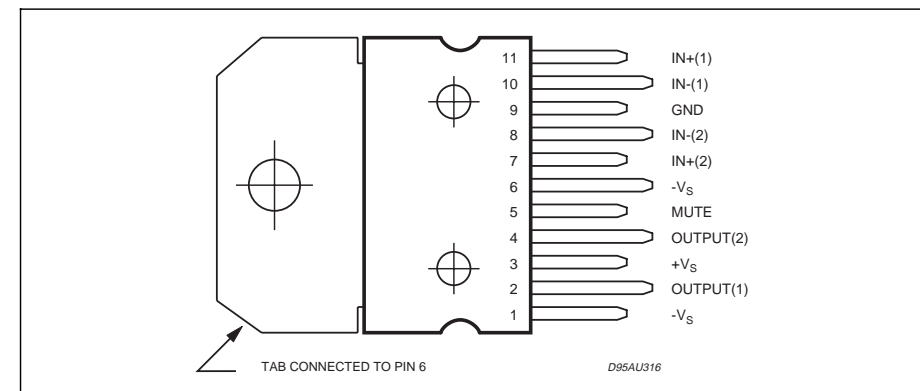
No.	SYMBOL	FUNCTION
25	OUTb	Bch Output
26	TONE-Lb	Bch Bass Filter
27	TONE-Hb	Bch Treble Filter
28	MONb	Bch Monitor Output
29	IN4b	Bch Input 4
30	IN3b	Bch Input 3
31	IN2b	Bch Input 2
32	IN1b	Bch Input 1
33	AGC	AGC Filter
34	FCSFIL2b	Bch Focus Filter
35	FCSFIL1b	Bch Focus Filter
36	CTB	Pop Noise Reduction for TruBass ON/OFF
37	SRSFIL2	Surround Filter
38	RECFIL	Rectifier Filter
39	TBFIL7	TruBass Filter
40	TBFIL6	TruBass Filter
41	TBFIL5	TruBass Filter
42	TBFIL4	TruBass Filter
43	TBFIL3	TruBass Filter
44	TBFIL2	TruBass Filter
45	TBFIL1	TruBass Filter
46	LPFOUT	LPF Output
47	LPF2	Low Pass Filter
48	LPF1	Low Pass Filter

IC51 : TDA7265

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _S	DC Supply Voltage	±25	V
I _O	Output Peak Current (internally limited)	4.5	A
P _{tot}	Power Dissipation T _{case} = 70°C	30	W
T _{op}	Operating Temperature	-20 to 85	°C
T _{stg} , T _J	Storage and Junction Temperature	-40 to +150	°C

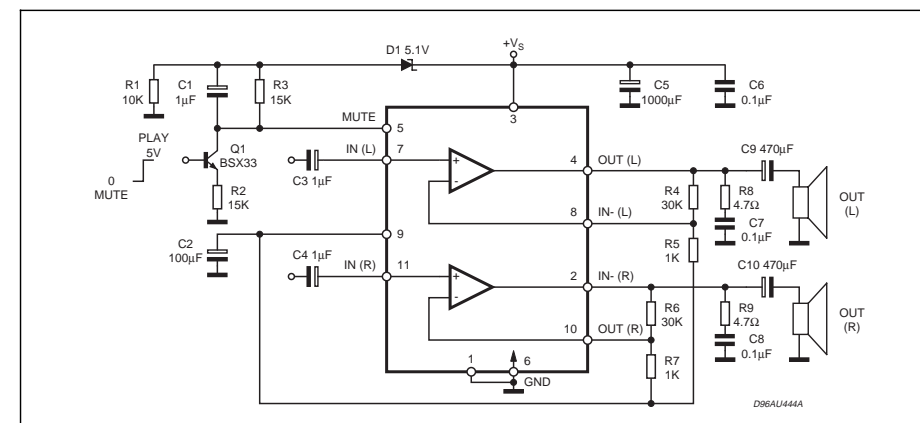
PIN CONNECTION (Top view)



THERMAL DATA

Symbol	Description	Value	Unit
R _{th j-case}	Thermal Resistance Junction-case	Max 2	°C/W

Fig 2: Typical Application Circuit in Single Supply



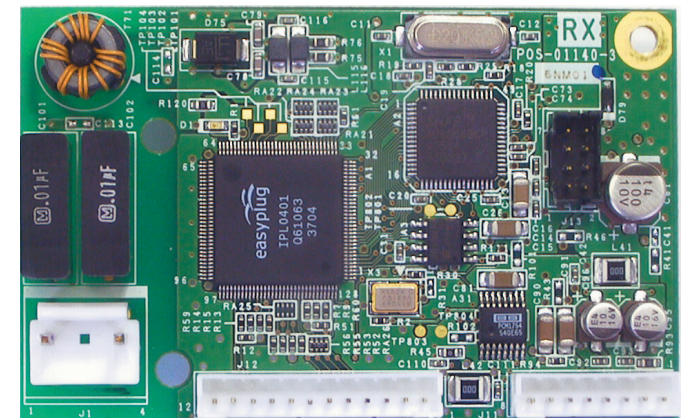
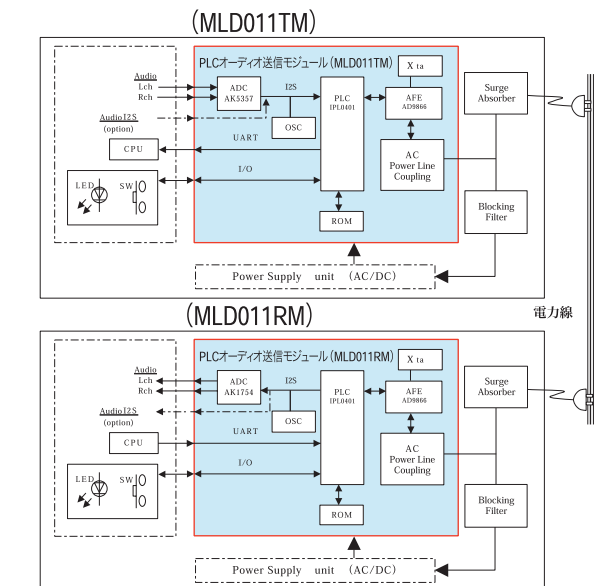
PLC (RX) MODULE : MLD 011RM

<MLD 011TM/RM>

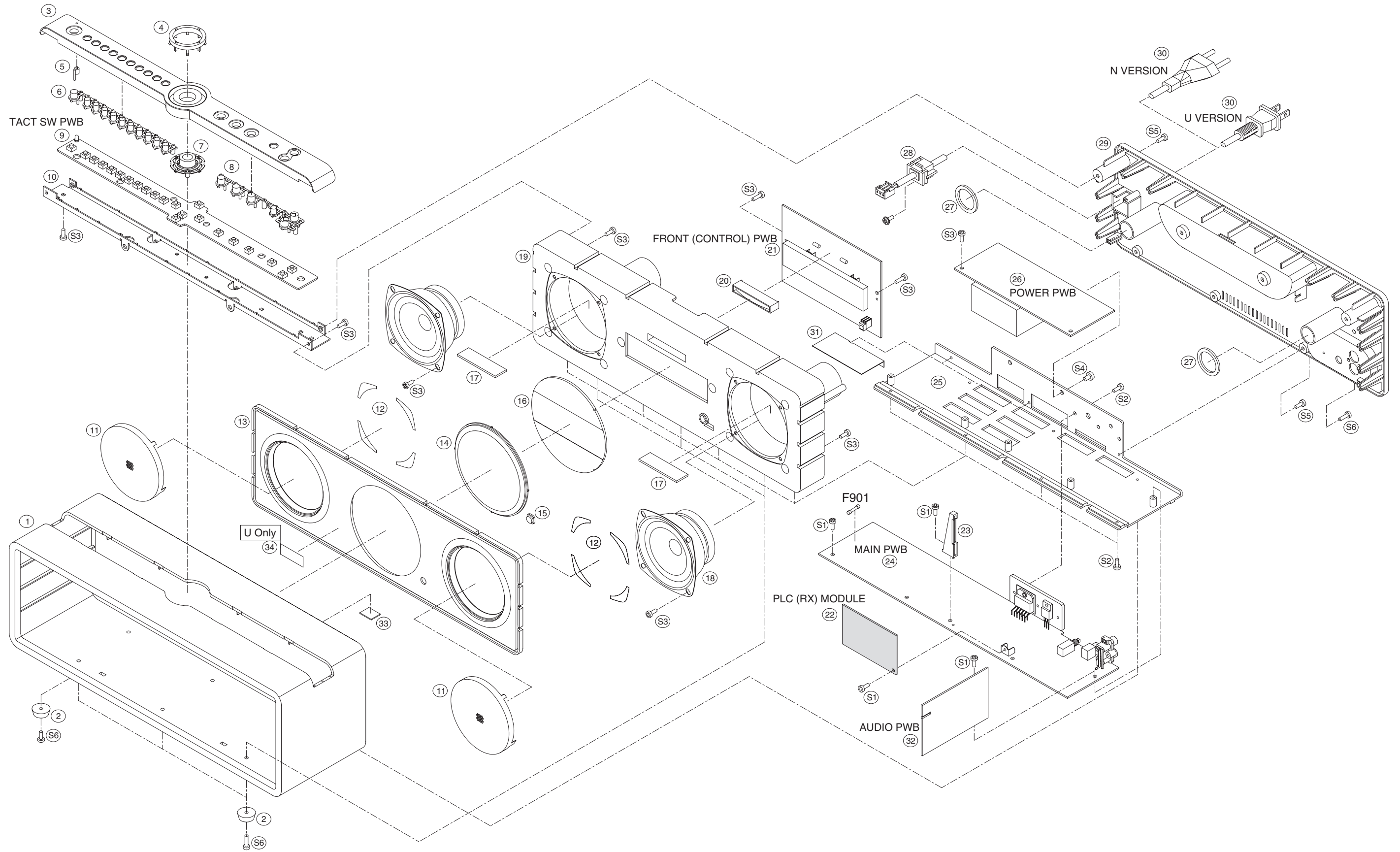
Features

Liner PCM audio transmission.
Standard analog audio interface. I2S digital audio interface is available as option.
Embedded AC coupling circuit enables easy installation.

No.	項目 Items	規格 Standard
1	音声品質 Sound Quality	16bit 44.1kHzサンプリング 16bit 44.1kHz Sampling 2チャンネル 2Channel
2	オーディオ信号 インターフェース Audio Signal Interface	アナログオーディオ Analog Audio I2Sデジタルオーディオ (オプション) I2S Digital Audio (Option)
3	コントロール信号インターフェース Control Signal Interface	UART
4	電源電圧 Supply Voltage 消費電流 Current Consumption	TX +5V 500mA以下 500mA or less RX +5V 500mA以下 500mA or less +9V 50mA以下 50mA or less
5	PLC AC電源 PLC AC Supply Voltage	AC240V以下 240V or less
6	動作環境条件 Operational Ambient Temperature	温度0°C~+50°C 湿度30%~80% Temperature Range 0°C~+50°C Humidity Renge 30%~80%
7	外形寸法 Size	71mm (W) × 45 (D)
8	重量 Weight	25 [g] 以下 Less than 25g
9	適合規制 (USA) Regulation FCC Part 15 Class B	USA FCC Part15 Class B



11. EXPLODED VIEW AND PARTS LIST



P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION		
	1	/N1M	00M10CW064110	00M10CW064110	CASE	CASE ZC4001 N (BROWN)	CKA1A174RCB10	
	1	/U1M	nsp	00M10CW064010	CASE	CASE ZC4001 U (BLUE)	CKA1A174R4B12	
	2		00M10CW057010	00M10CW057010	LEG	RUBBER LEG	CKL1A033	
	3		00M10CW259010	00M10CW259010	BUSHING	FUNCTION BUTTON BUSHING	CGW1A420R8ZG13	
	4		00M10CW270040	00M10CW270040	KNOB	CURSOR BUTTON	CBT1A1023M7G13	
	5		00M10CW355030	00M10CW355030	LENS	STANDBY LENS	CGL1A248	
	6		00M10CW270010	00M10CW270010	KNOB	FUNCTION BUTTON	CBT1A1022M7G13	
	7		00M10CW270030	00M10CW270030	KNOB	ENTER BUTTON	CBT1A1024M7ZG13	
	8		00M10CW270020	00M10CW270020	KNOB	PLAY BUTTON	CBT1A1021M7G13	
	9	/N1M	nsp	nsp	PWB ASSY	TACT SW PWB ASSY	COP11879B	
	9	/U1M	nsp	nsp	PWB ASSY	TACT SW PWB ASSY	COP11879C	
	10		nsp	nsp	BRACKET	CONTROL BRACKET	CMD1A592	
	11		00M10CW003010	00M10CW003010	PERFORATED	SPEAKER GRILL	CGG1A022G14	
	12		nsp	nsp	INSULATOR	INSULATOR GLILL	CMX1A182	
	13		00M10CW248010	00M10CW248010	PANEL	FRONT PANEL	CGW1A421R8G13	
	14		00M10CW158010	00M10CW158010	WINDOW	ORNAMENT WINDOW	CGR1A398	
	15		00M10CW355020	00M10CW355020	LENS	IR LENS	CGU1A392	
	16		00M10CW158020	00M10CW158020	WINDOW	WINDOW FILTER FIP	CGU1A391ZH52	
	17		nsp	nsp	BUFFER	SPEAKER RUBBER	CHG1A332	
	18		90M-QK000280R	90M-QK000280R	SPEAKER	FULL RANGE SPEAKER UNIT	CAS08FP266STZ	
	19		00M10CW064020	00M10CW064020	CASE	SPEAKER CASE	CKG1A050R8	
	20		nsp	nsp	LENS	REFLECTOR LENS	CGL1A252	
	21	/N1M	nsp	nsp	PWB ASSY	FRONT (CONTROL) PWB ASSY	COP11878B	
	21	/U1M	nsp	nsp	PWB ASSY	FRONT (CONTROL) PWB ASSY	COP11878C	
	22		00MZK10CW0010	00MZK10CW0010	UNIT KIT	PLC (RX) MODULE	-	
	23		nsp	nsp	SUPPORT	PWB SUPPORT	CMH1A255	
	24	/N1M	nsp	nsp	PWB ASSY	MAIN PWB ASSY	COP11879B	
	24	/U1M	nsp	nsp	PWB ASSY	MAIN PWB ASSY	COP11879C	
	25		nsp	nsp	CHASSIS	BOTTOM CHASSIS	CUA1A266	
	26	/N1M	nsp	nsp	PWB ASSY	POWER PWB ASSY	COP11879B	
	26	/U1M	nsp	nsp	PWB ASSY	POWER PWB ASSY	COP11879C	
	27		90M10CW056010	90M10CW056010	BUFFER	CUSHION BACK	CHG1A331	
	28		00M24AW259020	00M24AW259020	BUSHING	BUSHING AC CORD	KHR1A028	
	29	/N1M	00M10CW250110	00M10CW250110	PANEL	REAR PANEL N (BROWN)	CKF1A311RCZB10	
	29	/U1M	nsp	00M10CW250010	PANEL	REAR PANEL U (BLUE)	CKF1A311R4YB12	
	▲	30	/N1M	90M-YC000760R	90M-YC000760R	MAINS CORD	! MAINS CORD N QDR-7100CC	CJA2B043ZA
	▲	30	/U1M	nsp	90M-YC000780R	MAINS CORD	! MAINS CORD FOR U	CJA523FBYA
	31		nsp	nsp	INSULATOR	INSULATOR	CMX1A181	
	32	/N1M	nsp	nsp	PWB ASSY	AUDIO PWB ASSY	COP11878B	
	32	/U1M	nsp	nsp	PWB ASSY	AUDIO PWB ASSY	COP11878C	
	33		nsp	nsp	BUFFER	RUBBER	CHG1A316	
	34	/U1M	nsp	00M15CW861110	LABEL	DAVED LABEL	CQB1A756Z	
	▲	F901	/N1M	90M-FS001370R	90M-FS001370R	FUSE	! 250V T 0.63A	KBA2C0630TLEY
	▲	F901	/U1M	nsp	90M-FS001380R	FUSE	! 250V T 1.0A	KBA2C1000TLUZ
		JW51		nsp	nsp	CORD	WIRE ASSY	CWZZC4001JW51
		JW52		nsp	nsp	CORD	WIRE ASSY	CWZZC4001JW51
		WF21		nsp	90M-YU002180R	FPC	13P CARD CABLE	CWC1B2A13A100B
		WF41		nsp	90M-YU002180R	FPC	13P CARD CABLE	CWC1B2A13A100B
PACKING								
		/N1M	00M10CW851310	00M10CW851310	USER GUIDE	USER GUIDE N	CQX1A1082Z	
		/U1M	nsp	00M10CW851250	USER GUIDE	USER GUIDE U	CQX1A1083Z	
NOT STANDARD SPARE PART								
			nsp	00M10CW801010	PACKING CASE	PACKING CASE ZC4001	CPG1A810Z	
			nsp	00M10CW809010	CUSHION	CUSHION ZC4001	CPS1A728	

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

12. ELECTRICAL PARTS LIST

PARTS INFORMATION

RESISTORS

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

① Resistance value

Examples ;

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

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

CAPACITORS

CERAMIC CAP.

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

Examples ;

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

* Tolerance of COMMON PARTS handled here are as follows :

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

③ Capacity value

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

CERAMIC CAP.

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

Examples ;

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

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

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

Examples ;

⑤ Capacity value
 0.1 μF 104 4.7 μF 475 100 μF 107
 0.33 μF 334 10 μF 106 330 μF 337
 1 μF 105 22 μF 226 1100 μF 118
 2200 μF 228

⑥ Working voltage
 6.3V 006 25V 025
 10V 010 35V 035
 16V 016 50V 050

FILM CAP. ($\frac{\text{Z}}{\text{Z}}$)

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

Examples ;

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

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

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

1. KOA Corporation

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

* Resistance value Resistance value (0.1 Ω – 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

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

* Resistance value * Resistance value

Examples ;

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



ABBREVIATION AND MARKS

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


NOTE ON FUSE :

Regarding to all parts of 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.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
					AUDIO PWB (CUP11878Z-2)	
AUDIO	C402		nsp	nsp	CER. CAP.	6800PF 16V HCBS1C682MXT
AUDIO	C403		00MEJ10601640	00MEJ10601640	ELECT CAP.	10UF 16V KS CCEA1CK5100T
AUDIO	C404		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C405		00MEJ10601640	00MEJ10601640	ELECT CAP.	10UF 16V KS CCEA1CK5100T
AUDIO	C406		nsp	nsp	CER. CAP.	2200PF 16V HCBS1C222MXT
AUDIO	C408		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C409		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C410		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C411		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C412		nsp	nsp	CER. CAP.	1500PF 16V HCBS1C152MXT
AUDIO	C413		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C414		90M-DF100340R	90M-DF100340R	FILM CAP.	0.33UF 63V J KCFE1J334JBT
AUDIO	C415		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C416		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C417		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C418		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C419		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C420		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C421		nsp	nsp	CER. CAP.	0.01UF 50V Z HCBS1H103ZFT
AUDIO	C422		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C423		nsp	nsp	CER. CAP.	0.022UF 50V Z HCBS1H223ZFT
AUDIO	C424		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C425		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C426		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C427		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C429		nsp	nsp	CER. CAP.	2200PF 16V HCBS1C222MXT
AUDIO	C430		90M-DF100410R	90M-DF100410R	FILM CAP.	0.1UF 63V JB KCFE1J104JBT
AUDIO	C431		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C432		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C433		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C434		00MEJ10601610	00MEJ10601610	ELECT CAP.	100UF 16V KS CCEA1CK5101T
AUDIO	C435		90M-EJ000020R	90M-EJ000020R	ELECT CAP.	22UF 16V CCEA1CK5220T
AUDIO	C436		nsp	00MDD95181300	CER. CAP.	180PF 50V J HCUS1H181JA
AUDIO	C438		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C439		00MEJ10505010	00MEJ10505010	ELECT CAP.	1UF 50V CCEA1HKS1R0T
AUDIO	C440		00MEJ10601640	00MEJ10601640	ELECT CAP.	10UF 16V KS CCEA1CK5100T
AUDIO	C441		00MEJ10601640	00MEJ10601640	ELECT CAP.	10UF 16V KS CCEA1CK5100T
AUDIO	C442		00MEJ10601640	00MEJ10601640	ELECT CAP.	10UF 16V KS CCEA1CK5100T
AUDIO	C443		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC HCUS1H103KC
AUDIO	C444		00MEJ10601640	00MEJ10601640	ELECT CAP.	10UF 16V KS CCEA1CK5100T
AUDIO	C454		nsp	nsp	CER. CAP.	330PF 50V KB CCBS1H331KBT
AUDIO	C455		nsp	nsp	CER. CAP.	330PF 50V KB CCBS1H331KBT
AUDIO	CN27		nsp	nsp	CONN.	2PIN CJP02GA19ZY CJP02GA19ZY
AUDIO	D204		nsp	90M-HD201800R	DIODE	1SS355 CVD1SS355T
AUDIO	IC41		HC109660R	HC109660R	IC	NJW1180AFP1 CVINJW1180AFP1
AUDIO	R405		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J CRJ10DJ103T
AUDIO	R406		nsp	00MNN05101610	CHIP RES.	100 OHM 1/10W J CRJ10DJ101T
AUDIO	R408		nsp	00MNN05101610	CHIP RES.	100 OHM 1/10W J CRJ10DJ101T
AUDIO	R409		nsp	00MNN05222610	CHIP RES.	2.2K OHM 1/10W J CRJ10DJ222T
AUDIO	R410		nsp	00MNN05332610	CHIP RES.	3.3K OHM 1/10W J CRJ10DJ332T
AUDIO	R411		nsp	00MNN05333610	CHIP RES.	33K OHM 1/10W J CRJ10DJ333T
AUDIO	R412		nsp	00MNN05393610	CHIP RES.	39 KOHM 1/10W J CRJ10DJ393T
AUDIO	R413		nsp	00MNN05223610	CHIP RES.	22K OHM 1/10W J CRJ10DJ223T
AUDIO	R414		nsp	00MNN05223610	CHIP RES.	22K OHM 1/10W J CRJ10DJ223T
AUDIO	R415		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J CRJ10DJ473T
AUDIO	R416		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J CRJ10DJ103T
AUDIO	R436		nsp	00MNN05562610	CHIP RES.	5.6K OHM 1/10W J CRJ10DJ562T
AUDIO	R440		nsp	00MNN05333610	CHIP RES.	33K OHM 1/10W J CRJ10DJ333T
AUDIO	R441		nsp	00MNN05104610	CHIP RES.	100K OHM 1/10W J CRJ10DJ104T
AUDIO	R442		nsp	00MNN05104610	CHIP RES.	100K OHM 1/10W J CRJ10DJ104T
AUDIO	R443		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J CRJ10DJ103T
AUDIO	R444		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J CRJ10DJ103T
AUDIO	WF21		nsp	nsp	CONN.	13P WAFER CARD CABLE CJP13GB113ZY
					FRONT (CONTROL) PWB (CUP11878Z-1)	
FRONT			nsp	nsp	BRACKET	BRACKET FLT CMD1A468
FRONT	BK41		nsp	nsp	BRACKET	BRACKET PWB CMD1A387

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

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
FRONT	BN21		nsp	nsp	CORD	WIRE ASSY	CWB2B912120GN
FRONT	BN22		nsp	nsp	CORD	WIRE ASSY	CWZZC4001BN22
FRONT	BN23		nsp	nsp	CORD	WIRE ASSY	CWZZC4001BN23
FRONT	BN24		nsp	nsp	CORD	WIRE ASSY	CWB2B906150EN
FRONT	BN25		nsp	nsp	CORD	WIRE ASSY	CWB2B904100EN
FRONT	BN26		nsp	nsp	CORD	WIRE ASSY	CWB2B905150EN
FRONT	BN27		nsp	nsp	CORD	WIRE ASSY	CWB2B902200EN
FRONT	BN81		nsp	nsp	CORD	WIRE ASSY	CWB2B907120EN
FRONT	C201		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C202		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C203		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C204		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C205		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C207		00MEJ10601640	00MEJ10601640	ELECT CAP.	10UF 16V KS	CCEA1CKS100T
FRONT	C208		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C209		90M-EJ000020R	90M-EJ000020R	ELECT CAP.	22UF 16V	CCEA1CKS220T
FRONT	C210		nsp	00MDD95180300	CER. CAP.	18PF 50V JA	HCUS1H180JA
FRONT	C211		nsp	00MDD95180300	CER. CAP.	18PF 50V JA	HCUS1H180JA
FRONT	C212		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C213		00MEJ10601640	00MEJ10601640	ELECT CAP.	10UF 16V KS	CCEA1CKS100T
FRONT	C214		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C215		nsp	00MDD95220300	CER. CAP.	22PF 50V JA	HCUS1H220JA
FRONT	C216		nsp	00MDD95220300	CER. CAP.	22PF 50V JA	HCUS1H220JA
FRONT	C217		90M-EX000210R	90M-EX000210R	BIG ELECT CAP.	DYNACAP 0.33F	CCESDX5R5V334U
FRONT	C218		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C219		90M-EJ000090R	90M-EJ000090R	ELECT CAP.	330UF 10V	CCEA1AKS331T
FRONT	C220		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C221		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C222		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C223		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C224		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C225		00MEJ10601610	00MEJ10601610	ELECT CAP.	100UF 16V KS	CCEA1CKS101T
FRONT	C226		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C228		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C231		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	HCUS1H103KC
FRONT	C232		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	HCUS1H103KC
FRONT	C233		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	HCUS1H103KC
FRONT	C234		00MEJ10601610	00MEJ10601610	ELECT CAP.	100UF 16V KS	CCEA1CKS101T
FRONT	C235		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	HCUS1H103KC
FRONT	C236		nsp	00MDD95390300	CER. CAP.	39PF 50V JA	HCUS1H390JA
FRONT	C237		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	HCUS1H103KC
FRONT	C251		nsp	00MDD95180300	CER. CAP.	18PF 50V JA	HCUS1H180JA
FRONT	C253		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C254		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	HCUS1H104ZF
FRONT	C255		nsp	00MDD95101300	CER. CAP.	100PF 50V JA	CCUS1H101JA
FRONT	C256		nsp	00MDD95101300	CER. CAP.	100PF 50V JA	CCUS1H101JA
FRONT	C257		nsp	00MDD95101300	CER. CAP.	100PF 50V JA	CCUS1H101JA
FRONT	C258		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
FRONT	C259		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
FRONT	C262		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	CCUS1H103KC
FRONT	C263		nsp	00MDD95101300	CER. CAP.	100PF 50V JA	CCUS1H101JA
FRONT	C264		nsp	00MDD95101300	CER. CAP.	100PF 50V JA	CCUS1H101JA
FRONT	C265		nsp	00MDD95101300	CER. CAP.	100PF 50V JA	CCUS1H101JA
FRONT	C266		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	CCUS1H104ZF
FRONT	C267		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	CCUS1H104ZF
FRONT	C268		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	CCUS1H104ZF
FRONT	C269		nsp	00MDK96104300	CER. CAP.	0.1UF 50V ZF	CCUS1H104ZF
FRONT	C923		00MEJ10601610	00MEJ10601610	ELECT CAP.	100UF 16V KS	CCEA1CKS101T
FRONT	C924		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	HCUS1H103KC
FRONT	C925		00MEJ10601610	00MEJ10601610	ELECT CAP.	100UF 16V KS	CCEA1CKS101T
FRONT	C926		00MEJ10601610	00MEJ10601610	ELECT CAP.	100UF 16V KS	CCEA1CKS101T
FRONT	C927		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	HCUS1H103KC
FRONT	C928		nsp	00MDK96103300	CER. CAP.	0.01UF 50V KC	HCUS1H103KC
FRONT	D201		nsp	90M-HD201800R	DIODE	1SS355	HVD1SS355T
FRONT	D202		nsp	90M-HD201800R	DIODE	1SS355	HVD1SS355T
FRONT	D203		nsp	90M-HD201800R	DIODE	1SS355	CVD1SS355T
FRONT	D205		nsp	90M-HD201800R	DIODE	1SS355	HVD1SS355T

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

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
FRONT	D207		nsp	90M-HD201800R	DIODE	1SS355	HVD1SS355T
FRONT	D210		90M-HI101070R	90M-HI101070R	L.E.D.	52CSBBCEAB3	CVD52CSBBCEAB3
FRONT	D211		90M-HI101070R	90M-HI101070R	L.E.D.	52CSBBCEAB3	CVD52CSBBCEAB3
FRONT	D212		90M-HI101070R	90M-HI101070R	L.E.D.	52CSBBCEAB3	CVD52CSBBCEAB3
FRONT	D213		90M-HI101070R	90M-HI101070R	L.E.D.	52CSBBCEAB3	CVD52CSBBCEAB3
FRONT	FL21		90M-HQ300710R	90M-HQ300710R	DISPLAY	V.F.D	CFLHC16SM14T
FRONT	IC21		90M-HS10CWX0R	90M-HS10CWX0R	U-PRO	MAIN CPU, ZC4001	HVIHD64F3687GH
FRONT	IC22		00MHC007505K0	00MHC007505K0	IC	TC74VHCT08FT	HVITC74VHCT08FT
FRONT	IC23		90M-HC108910R	90M-HC108910R	IC	74VHC08	HVI74VHC08TTR
FRONT	IC24		90M-HC700610R	90M-HC700610R	IC	TC74VHC244F	HVITC74VHC244F
FRONT	IC27		90M-HC109650R	90M-HC109650R	IC	RH5VT30C	HVIRH5VT30C
FRONT	IC28		90M-HC300810R	90M-HC300810R	IC	LM1117S-3V3	HVILM1117S-3V3
FRONT	IC43		90M-HC900110R	90M-HC900110R	IC	LM1117S-5.0	HVILM1117S-5.0
FRONT	IC44		90M-HC900110R	90M-HC900110R	IC	LM1117S-5.0	HVILM1117S-5.0
FRONT	JW21		nsp	nsp	CORD	WIRE ASSY	CWZAMC660JW52
FRONT	JW22		nsp	nsp	CORD	WIRE ASSY	CWZAMC660JW52
FRONT	L201		90M-FC900440R	90M-FC900440R	EMI FILTER	FERRITE BEAD	HLZ9J003Z
FRONT	L202		90M-LU000250R	90M-LU000250R	INDUCTOR	22UH	HLQ08E220KRZ
FRONT	L904		90M-FC900340R	90M-FC900340R	FERRITE CORE	HU-1H4516-600JT	HLZ9Z014Z
FRONT	L905		90M-FC900340R	90M-FC900340R	FERRITE CORE	HU-1H4516-600JT	HLZ9Z014Z
FRONT	Q201		90M-HX800010R	90M-HX800010R	CHIP TRS.	KRC102S	HVTKRC102S
FRONT	Q202		90M-HX800010R	90M-HX800010R	CHIP TRS.	KRC102S	HVTKRC102S
FRONT	Q203		90M-HX600010R	90M-HX600010R	CHIP TRS.	KRA102S	HVTKRA102S
FRONT	Q204		90M-BA001600R	90M-BA001600R	CHIP TRS.	KRA107S	HVTKRA107S
FRONT	Q205		90M-BA001600R	90M-BA001600R	CHIP TRS.	KRA107S	HVTKRA107S
FRONT	Q405		90M-BA001600R	90M-BA001600R	CHIP TRS.	KRA107S	HVTKRA107S
FRONT	R203		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R204		nsp	00MNN05472610	CHIP RES.	4.7K OHM 1/10W J	CRJ10DJ472T
FRONT	R205		nsp	00MNN05472610	CHIP RES.	4.7K OHM 1/10W J	CRJ10DJ472T
FRONT	R206		nsp	00MNN05472610	CHIP RES.	4.7K OHM 1/10W J	CRJ10DJ472T
FRONT	R207		nsp	00MNN05472610	CHIP RES.	4.7K OHM 1/10W J	CRJ10DJ472T
FRONT	R211		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
FRONT	R212		nsp	00MNN05101610	CHIP RES.	100 OHM 1/10W J	CRJ10DJ101T
FRONT	R213		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R214		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R216		nsp	00MNN05105610	CHIP RES.	1M OHM 1/10W J	CRJ10DJ105T
FRONT	R217		nsp	00MNN05471610	CHIP RES.	470 OHM 1/10W J	CRJ10DJ471T
FRONT	R218		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
FRONT	R219		nsp	00MNN05123610	CHIP RES.	12K OHM 1/10W J	CRJ10DJ123T
FRONT	R220		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
FRONT	R221		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T
FRONT	R222		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R223		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R224		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R225		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R226		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R227		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R228		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R229		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R230		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R231		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R232		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R233		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R235		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R236		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R237		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R238		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T
FRONT	R239		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R240		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
FRONT	R241		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R242		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R244		nsp	00MNN05101610	CHIP RES.	100 OHM 1/10W J	CRJ10DJ101T
FRONT	R245		nsp	00MNN05822610	CHIP RES.	8.2K OHM 1/10W J	CRJ10DJ822T
FRONT	R250		nsp	00MNN05121610	CHIP RES.	120 OHM 1/10W J	CRJ10DJ121T
FRONT	R251		nsp	00MNN05121610	CHIP RES.	120 OHM 1/10W J	CRJ10DJ121T
FRONT	R253		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R255		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
FRONT	R256		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R257		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R258		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R259		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R260		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R262		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R263		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R264		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
FRONT	R265		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
FRONT	R266		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
FRONT	R267		nsp	00MNN05000610	CHIP RES.	0 OHM 1/10W J	CRJ10DJ0R0T
FRONT	R268		nsp	00MNN05101610	CHIP RES.	100 OHM 1/10W J	CRJ10DJ101T
FRONT	R269		nsp	00MNN05101610	CHIP RES.	100 OHM 1/10W J	CRJ10DJ101T
FRONT	R270		nsp	00MNN05101610	CHIP RES.	100 OHM 1/10W J	CRJ10DJ101T
FRONT	R271		nsp	00MNN05102610	CHIP RES.	1K OHM 1/10W J	CRJ10DJ102T
FRONT	R272		nsp	00MNN05121610	CHIP RES.	120 OHM 1/10W J	CRJ10DJ121T
FRONT	R273		nsp	00MNN05121610	CHIP RES.	120 OHM 1/10W J	CRJ10DJ121T
FRONT	R274		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R275		nsp	00MNN05103610	CHIP RES.	10K OHM 1/10W J	CRJ10DJ103T
FRONT	R407		nsp	00MNN05473610	CHIP RES.	47K OHM 1/10W J	CRJ10DJ473T
FRONT	RC21		00MHW10004210	00MHW10004210	PHOTO UNIT	RPM6936-V4	BRVRPM6936V4
FRONT	WF41		nsp	nsp	CONN.	13P WAFER CARD CABLE	CJP13GB113ZY
FRONT	X101		90M-JX001270R	90M-JX001270R	X'TAL	16.000MHZ	HOX16000E160T
FRONT	X102		90M-JX001280R	90M-JX001280R	X'TAL	32.768KHZ	HOX00032K120I
MAIN PWB (CUP11879-1)							
MAIN	BK91		nsp	nsp	BRACKET	BRACKET FOR PWB	CMD1A569
MAIN	BN30		nsp	nsp	CORD	WIRE ASSY	CWB2B905100EN
MAIN	BN50		nsp	nsp	CORD	WIRE ASSY	CWB2B904100EN
MAIN	C401		nsp	nsp	CER. CAP.	470PF 50V KB	CCKT1H471KB
MAIN	C447		90M-EJ000040R	90M-EJ000040R	ELECT CAP.	10UF 50V KS	CCEA1HKS100T
MAIN	C448		90M-EJ000040R	90M-EJ000040R	ELECT CAP.	10UF 50V KS	CCEA1HKS100T
MAIN	C449		nsp	00MOA47505020	ELECT CAP.	4.7UF 50V	CCEA1HH4R7T
MAIN	C450		nsp	00MOA47505020	ELECT CAP.	4.7UF 50V	CCEA1HH4R7T
MAIN	C451		90M-EJ000050R	90M-EJ000050R	ELECT CAP.	4.7UF 50V	CCEA1HKS4R7T
MAIN	C452		nsp	nsp	CER. CAP.	470PF 50V KB	CCKT1H471KB
MAIN	C501		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
MAIN	C502		nsp	00MOA10505020	ELECT CAP.	1UF 50V	CCEA1HH1R0T
MAIN	C503		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C504		nsp	00MOA47602520	ELECT CAP.	47UF 25V	CCEA1EH470T
MAIN	C505		nsp	nsp	FILM CAP.	0.047UF 50V J	HCQI1H473JZT
MAIN	C506		nsp	nsp	FILM CAP.	0.047UF 50V J	HCQI1H473JZT
MAIN	C507		90M-OF100350R	90M-OF100350R	FILM CAP.	2200PF 50V J	HCQI1H222JZT
MAIN	C508		90M-OF100350R	90M-OF100350R	FILM CAP.	2200PF 50V J	HCQI1H222JZT
MAIN	C901		nsp	00MOA22802520	ELECT CAP.	2200UF 25V	CCEA1EH222E
MAIN	C902		nsp	00MOA10802520	ELECT CAP.	1000UF 25V	CCEA1EH102E
MAIN	C903		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
MAIN	C904		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
MAIN	C905		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C906		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C907		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
MAIN	C908		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
MAIN	C931		nsp	nsp	CER. CAP.	0.022UF 50V Z	CCFT1H223ZF
MAIN	C932		nsp	nsp	CER. CAP.	0.01UF 50V Z	CCFT1H103ZF
MAIN	C933		nsp	nsp	CER. CAP.	0.01UF 50V Z	CCFT1H103ZF
MAIN	C934		nsp	00MOA33802520	ELECT CAP.	3300UF 25V	CCEA1EH332E
MAIN	C935		nsp	00MOA33802520	ELECT CAP.	3300UF 25V	CCEA1EH332E
MAIN	C936		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
MAIN	C937		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
MAIN	C943		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C944		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
MAIN	C945		nsp	nsp	CER. CAP.	0.1UF 50V Z	HCBS1H104ZFT
MAIN	C946		nsp	nsp	CER. CAP.	0.1UF 50V Z	HCBS1H104ZFT
MAIN	CN26		nsp	nsp	CONN.	5P STRAIGHT	CJP05GA19ZY
MAIN	CN91		nsp	nsp	CONN.	7.92MM(YUNHO)	CJP02KA060ZY
MAIN	CN93		nsp	nsp	CONN.	6P WAFER	CJP06GA01ZY
MAIN	CN95		nsp	nsp	CONN.	2P WAFER	CJP02GA89ZY
MAIN	D501		00MHD30511000	00MHD30511000	ZENER DIODE	5.1V 1/2W	HVDMTZJ5.1BT

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
MAIN	D502		nsp	00MHD20015210	DIODE	1SS133T-77	HVD1SS133MT
MAIN	▲ D901		90M-HD201730R	90M-HD201730R	DIODE	! 1N4003	KVD1N4003ST
MAIN	▲ D902		90M-HD201730R	90M-HD201730R	DIODE	! 1N4003	KVD1N4003ST
MAIN	▲ D903		90M-HD201730R	90M-HD201730R	DIODE	! 1N4003	KVD1N4003ST
MAIN	▲ D904		90M-HD201730R	90M-HD201730R	DIODE	! 1N4003	KVD1N4003ST
MAIN	D905		nsp	90M-HD201750R	DIODE	1N4003	KVD1N4003SRT
MAIN	D906		nsp	90M-HD201750R	DIODE	1N4003	KVD1N4003SRT
MAIN	D922		nsp	90M-HD201750R	DIODE	1N4003	KVD1N4003SRT
MAIN	▲ D924		90M-HE200390R	90M-HE200390R	DIODE	! GBJ1006	HVDGBJ1006
MAIN	D925		nsp	90M-HD201850R	DIODE	1N5819	HVD1N5819T
MAIN	D926		nsp	90M-HD201750R	DIODE	1N4003	CVD1N4003SRT
MAIN	F901		nsp	nsp	CONN.	HOLDER, FUSE	KJCFCS5
MAIN	GD1		nsp	nsp	TERMINAL	MET37-0002	HJT1A025
MAIN	GD2		nsp	nsp	TERMINAL	MET37-0002	HJT1A025
MAIN	GD3	/U1M	nsp	nsp	TERMINAL	MET37-0002	HJT1A025
MAIN	GD4		nsp	nsp	TERMINAL	MET37-0002	HJT1A025
MAIN	IC42		00MHC10102090	00MHC10102090	IC	NJM2068MD-TE1	HVINJM2068MDTE1
MAIN	IC51		90M-HC109640R	90M-HC109640R	IC	TDA7265	HVITDA7265
MAIN	▲ IC91		90M-HC300890R	90M-HC300890R	IC	! KA78R09	HVIKA78R09API
MAIN	▲ IC92		00MHC3991209F	00MHC3991209F	IC	! NJM7912FA REGULATOR	HVINJM7912FA
MAIN	IC93		00MHC39108090	00MHC39108090	IC	KA79LXXAZTA	HVIKA79L08AZT
MAIN	J101		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J102		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J104		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J105		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J106		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J108		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J109		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J110		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J112		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J201		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J202		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J203		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J204		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J205		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J206		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J207		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J208		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J209		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J210		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J211		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J212		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J501		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J502		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J503		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J504		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J505		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J506		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J507		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J508		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J509		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J510		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J511		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J602		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J603		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J604		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J605		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J609		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J610		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J612		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J613		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J614		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J615		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J616		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J701		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J702		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J704		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206

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

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
MAIN	J705		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J708		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J709		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J901		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	J902		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	JK41		90M-YT001650R	90M-YT001650R	TERMINAL	2P CINCH AUDIO	CJJ4N040Z
MAIN	JK42		90M-YT004860R	90M-YT004860R	TERMINAL	3.5MM JACK STEREO	CJJ2D008Z
MAIN	JW92		nsp	nsp	CORD	WIRE ASSY	CWZZC4001JW92
MAIN	L501		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
MAIN	L502		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
MAIN	L901		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
MAIN	L902		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
MAIN	L906		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
MAIN	L907		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
MAIN	L908		90M-FN000280R	90M-FN000280R	FILTER	LINE FILTER	CLZ9Z069Z
MAIN	Q401		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
MAIN	Q402		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
MAIN	Q403		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
MAIN	Q404		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
MAIN	Q502		00MBA10001000	00MBA10001000	TRS.	KRA102M	HVTKRA102MT
MAIN	Q503		90M-BA001460R	90M-BA001460R	TRS.	KRC107M	HVTKRC107MT
MAIN	Q504		90M-BA001460R	90M-BA001460R	TRS.	KRC107M	HVTKRC107MT
MAIN	Q505		00MBA20001000	00MBA20001000	TRS.	KRC102M	HVTKRC102MT
MAIN	Q506		00MHT805501B0	00MHT805501B0	TRS.	KTC2874B	HVTKTC2874BT
MAIN	Q507		90M-BA001460R	90M-BA001460R	TRS.	KRC107M	HVTKRC107MT
MAIN	R401		nsp	nsp	RES.	100 OHM 1/5W J	CRD20TJ101T
MAIN	R402		nsp	nsp	RES.	100 OHM 1/5W J	CRD20TJ101T
MAIN	R403		nsp	nsp	RES.	100K OHM 1/5W J	CRD20TJ104T
MAIN	R404		nsp	nsp	RES.	100K OHM 1/5W J	CRD20TJ104T
MAIN	R417		nsp	nsp	RES.	1K OHM 1/5W J	CRD20TJ102T
MAIN	R418		nsp	nsp	RES.	1K OHM 1/5W J	CRD20TJ102T
MAIN	R419		nsp	nsp	RES.	47K OHM 1/5W J	CRD20TJ473T
MAIN	R420		nsp	nsp	RES.	47K OHM 1/5W J	CRD20TJ473T
MAIN	R423		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	R424		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
MAIN	R425		nsp	nsp	RES.	470 OHM 1/5W J	CRD20TJ471T
MAIN	R426		nsp	nsp	RES.	470 OHM 1/5W J	CRD20TJ471T
MAIN	R427		nsp	nsp	RES.	4.7K OHM 1/5W J	CRD20TJ472T
MAIN	R428		nsp	nsp	RES.	4.7K OHM 1/5W J	CRD20TJ472T
MAIN	R429		nsp	nsp	RES.	470 OHM 1/5W J	CRD20TJ471T
MAIN	R430		nsp	nsp	RES.	470 OHM 1/5W J	CRD20TJ471T
MAIN	R431		nsp	nsp	RES.	4.7K OHM 1/5W J	CRD20TJ472T
MAIN	R432		nsp	nsp	RES.	4.7K OHM 1/5W J	CRD20TJ472T
MAIN	R433		nsp	nsp	RES.	47K OHM 1/5W J	CRD20TJ473T
MAIN	R434		nsp	nsp	RES.	47K OHM 1/5W J	CRD20TJ473T
MAIN	R435		nsp	nsp	RES.	270K OHM 1/6W J	CRD20TJ274T
MAIN	R437		nsp	nsp	RES.	22K OHM 1/5W J	CRD20TJ223T
MAIN	R501		nsp	nsp	RES.	15K OHM 1/5W J	CRD20TJ153T
MAIN	R502		nsp	nsp	RES.	18K OHM 1/5W J	CRD20TJ183T
MAIN	R503		nsp	nsp	RES.	10K OHM 1/5W J	CRD20TJ103T
MAIN	R504		nsp	nsp	RES.	15K OHM 1/5W J	CRD20TJ153T
MAIN	R505		nsp	nsp	RES.	15K OHM 1/5W J	CRD20TJ153T
MAIN	R506		nsp	nsp	RES.	22K OHM 1/5W J	CRD20TJ223T
MAIN	R507		nsp	nsp	RES.	22K OHM 1/5W J	CRD20TJ223T
MAIN	R508		nsp	nsp	RES.	1K OHM 1/5W J	CRD20TJ102T
MAIN	R509		nsp	nsp	RES.	1K OHM 1/5W J	CRD20TJ102T
MAIN	R510		nsp	nsp	RES.	10 OHM 1W J	KRG1SANJ100RT
MAIN	R511		nsp	nsp	RES.	10 OHM 1W J	KRG1SANJ100RT
MAIN	R901		nsp	nsp	RES.	22K OHM 1/5W J	CRD20TJ223T
MAIN	R902		nsp	nsp	RES.	22K OHM 1/5W J	CRD20TJ223T
MAIN	R904		nsp	nsp	RES.	10 OHM 1/5W J	CRD20TJ100T
MAIN	R907		nsp	nsp	RES.	1M OHM 1W	CRO1TJ105V
MAIN	R908		nsp	nsp	RES.	1M OHM 1W	CRO1TJ105V
MAIN	R910		nsp	nsp	RES.	15K OHM 1/4W J	CRD25TJ153T
MAIN	R911		nsp	nsp	RES.	15K OHM 1/4W J	CRD25TJ153T
MAIN	▲ R912	/U1M	nsp	90M-GG000010R	RES.	! 3.3M OHM 1/10W J	HRDERC12UGK335T
MAIN	RY51		90M-LY000400R	90M-LY000400R	RELAY	REALY (TYCO)	HSL3A016ZE

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

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
MAIN	SW41		90M-SP001290R	90M-SP001290R	SW	SPUJ19XSM011	HSB2B018Z
MAIN	WN21		nsp	nsp	CONN.	13P WAFER CARD CABLE	CJP13GA117ZY
MAIN	WN41		nsp	nsp	CONN.	13P WAFER CARD CABLE	CJP13GA117ZY
					POWER PWB (CUP11879-3)		
POWER	BN93		nsp	nsp	CORD	WIRE ASSY	CWB1E906120BM
POWER	C909		nsp	00MOA10705020	ELECT CAP.	100UF 50V	CCEA1HH101T
POWER	C910		nsp	00MOA10705020	ELECT CAP.	100UF 50V	CCEA1HH101T
POWER	C911		90M-EJ000040R	90M-EJ000040R	ELECT CAP.	10UF 50V KS	CCEA1HKS100T
POWER	C912		90M-EJ000040R	90M-EJ000040R	ELECT CAP.	10UF 50V KS	CCEA1HKS100T
POWER	C913		90M-EJ000050R	90M-EJ000050R	ELECT CAP.	4.7UF 50V KS	CCEA1HKS4R7T
POWER	▲ C914		90M-DK100770R	90M-DK100770R	CER. CAP.	! 0.0047UF 2.5KV	KCKDKS472ME
POWER	C915		nsp	nsp	CER. CAP.	0.022UF 50V Z	CCFT1H223ZF
POWER	C916		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
POWER	C917		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
POWER	C918		nsp	00MOA10505020	ELECT CAP.	1UF 50V	CCEA1HH1R0T
POWER	C919		nsp	00MOA10801620	ELECT CAP.	1000UF 16V	CCEA1CH102E
POWER	C920		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
POWER	C921		nsp	00MOA10701620	ELECT CAP.	100UF 16V	CCEA1CH101T
POWER	C922		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
POWER	▲ C930		90M-OF100550R	90M-OF100550R	FILM CAP.	! 0.1UF 250V	CCQF2E104KZC
POWER	C940		nsp	00MOA22701620	ELECT CAP.	220UF 16V	CCEA1CH221T
POWER	C941		nsp	nsp	CER. CAP.	0.01UF 50V Z	HCBS1H103ZFT
POWER	C942		nsp	nsp	CER. CAP.	0.1UF 50V Z	HCBS1H104ZFT
POWER	C947		nsp	00MOA22702520	ELECT CAP.	220UF 25V	CCEA1EH221T
POWER	C948		00MEJ10601640	00MEJ10601640	ELECT CAP.	10UF 16V KS	CCEA1CKS100T
POWER	C949		nsp	nsp	CER. CAP.	0.1UF 50V Z	HCBS1H104ZFT
POWER	CN24		nsp	nsp	CONN.	6P STRAIGHT	CJP06GA19ZY
POWER	CN25		nsp	nsp	CONN.	00906-0027 4P STRAIGHT	CJP04GA19ZY
POWER	CN30		nsp	nsp	CONN.	5P STRAIGHT	CJP05GA19ZY
POWER	CN50		nsp	nsp	CONN.	00906-0027 4P STRAIGHT	CJP04GA19ZY
POWER	CN51		nsp	nsp	CONN.	2PIN CJP02GA19ZY	CJP02GA19ZY
POWER	CN52		nsp	nsp	CONN.	2PIN CJP02GA19ZY	CJP02GA19ZY
POWER	D907		90M-HD301750R	90M-HD301750R	ZENER DIODE	5.6V 1/2W	HVDMTZJ5.6BT
POWER	D908		90M-HD301740R	90M-HD301740R	ZENER DIODE	33V 1/2W	HVDMTZJ33BT
POWER	D909		nsp	90M-HD201750R	DIODE	1N4003	KVD1N4003SRT
POWER	D910		nsp	90M-HD201750R	DIODE	1N4003	KVD1N4003SRT
POWER	D911		nsp	00MHD20015210	DIODE	1SS133T-77	HVD1SS133MT
POWER	D912		nsp	00MHD20015210	DIODE	1SS133T-77	HVD1SS133MT
POWER	D913		nsp	00MHD20015210	DIODE	1SS133T-77	HVD1SS133MT
POWER	▲ D914		90M-HD201730R	90M-HD201730R	DIODE	! 1N4003	KVD1N4003ST
POWER	▲ D915		90M-HD201730R	90M-HD201730R	DIODE	! 1N4003	KVD1N4003ST
POWER	▲ D916		90M-HD201730R	90M-HD201730R	DIODE	! 1N4003	KVD1N4003ST
POWER	▲ D917		90M-HD201730R	90M-HD201730R	DIODE	! 1N4003	KVD1N4003ST
POWER	D918		nsp	00MHD20015210	DIODE	1SS133T-77	HVD1SS133MT
POWER	D919		nsp	00MHD20015210	DIODE	1SS133T-77	HVD1SS133MT
POWER	D920		90M-HD302330R	90M-HD302330R	ZENER DIODE	MTZJ4.7BT	HVDMTZJ4.7BT
POWER	D921		nsp	00MHD20015210	DIODE	1SS133T-77	HVD1SS133MT
POWER	D923		00MHD30621000	00MHD30621000	ZENER DIODE	6.2V 1/2W	HVDMTZJ6.2BT
POWER	D927		nsp	90M-HD201750R	DIODE	1N4003	CVD1N4003SRT
POWER	D928		nsp	90M-HD201750R	DIODE	1N4003	CVD1N4003SRT
POWER	D929		90M-HD301750R	90M-HD301750R	ZENER DIODE	5.6V 1/2W	CVDMTZJ5.6BT
POWER	J103		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
POWER	J107		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
POWER	J111		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
POWER	J601		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
POWER	J606		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
POWER	J611		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
POWER	J617		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
POWER	J706		nsp	nsp	CORD	SN95/PB5, 0.6	C3A206
POWER	JW95		nsp	nsp	CORD	WIRE ASSY	CWZZC4001JW95
POWER	L903		90M-FN000090R	90M-FN000090R	EMI FILTER	BEAD	KLZ9H001Z
POWER	Q901		90M-HT800040R	90M-HT800040R	TRS.	KSC2316Y	HVTKSC2316YT
POWER	Q902		90M-BA001450R	90M-BA001450R	TRS.	KRA107M	HVTKRA107MT
POWER	Q903		00MBA20001000	00MBA20001000	TRS.	KRC102M	HVTKRC102MT
POWER	Q904		90M-HT800040R	90M-HT800040R	TRS.	KSC2316Y	HVTKSC2316YT
POWER	Q905		00MBA20001000	00MBA20001000	TRS.	KRC102M	HVTKRC102MT
POWER	Q906		00MBA20001000	00MBA20001000	TRS.	KRC102M	HVTKRC102MT

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P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
POWER	Q907		90M-HT800040R	90M-HT800040R	TRS.	KSC2316Y HVTKSC2316YT
POWER	R903		nsp	nsp	RES.	330 OHM 1/5W J CRD20TJ331T
POWER	R905		nsp	nsp	RES.	56 OHM 1/4W J CRD25TJ560T
POWER	R906		nsp	nsp	RES.	56 OHM 1/4W J CRD25TJ560T
POWER	R909		nsp	nsp	RES.	470 OHM 1/5W J CRD20TJ471T
POWER	R913		nsp	nsp	RES.	10K OHM 1/5W J CRD20TJ103T
POWER	R914		nsp	nsp	RES.	3.3K OHM 1/5W J CRD20TJ332T
POWER	R915		nsp	nsp	RES.	47K OHM 1/5W J CRD20TJ473T
POWER	R916		nsp	nsp	RES.	15K OHM 1/5W J CRD20TJ153T
POWER	R917		nsp	nsp	RES.	1K OHM 1/5W J CRD20TJ102T
POWER	▲ RY91		90M-LY000410R	90M-LY000410R	RELAY	! REALY (TYCO) HSL1D017ZE
POWER	▲ T901	/N1M	90M-TS002680R	90M-TS002680R	TRANSF.	# SUB TRANSF. ZC4001 N CLT5I005ZE
POWER	▲ T901	/U1M	nsp	90M-TS002690R	TRANSF.	# SUB TRANSF. ZC4001 U CLT5I005ZU
POWER	▲ T902	/N1M	90M-TS002700R	90M-TS002700R	TRANSF.	# POWER TRANSF. ZC4001 N CLT5N032ZE
POWER	▲ T902	/U1M	nsp	90M-TS002710R	TRANSF.	# POWER TRANSF. ZC4001 U CLT5N032ZU
TACT SW PWB (CUP11879-2)						
TACT	C801		nsp	nsp	CER. CAP.	0.01UF 50V Z HCBS1H103ZFT
TACT	C802		nsp	nsp	CER. CAP.	0.01UF 50V Z CCBS1H103ZFT
TACT	C803		nsp	nsp	CER. CAP.	0.01UF 50V Z CCBS1H103ZFT
TACT	C804		nsp	nsp	CER. CAP.	0.01UF 50V Z CCBS1H103ZFT
TACT	C805		nsp	nsp	CER. CAP.	0.1UF 50V Z CCBS1H104ZFT
TACT	C826		nsp	nsp	CER. CAP.	0.01UF 50V Z CCBS1H103ZFT
TACT	CN81		nsp	nsp	CONN.	ANGLE 7PIN CJP07GB46ZY
TACT	D801		nsp	00MHD20015210	DIODE	1SS133T-77 HVD1SS133MT
TACT	D802		90M-HI101040R	90M-HI101040R	L.E.D.	SLR342VCTB7T089 HVD342VCTB7T089
TACT	J703		nsp	nsp	CORD	SN95/PB5, 0.6 C3A206
TACT	J707		nsp	nsp	CORD	SN95/PB5, 0.6 C3A206
TACT	R802		nsp	nsp	RES.	2.7K OHM 1/5W J CRD20TJ272T
TACT	R803		nsp	nsp	RES.	2.2K OHM 1/5W J CRD20TJ222T
TACT	R804		nsp	nsp	RES.	1.5K OHM 1/5W J CRD20TJ152T
TACT	R805		nsp	nsp	RES.	1K OHM 1/5W J CRD20TJ102T
TACT	R806		nsp	nsp	RES.	820 OHM 1/5W J CRD20TJ821T
TACT	R807		nsp	nsp	RES.	560 OHM 1/5W J CRD20TJ561T
TACT	R808		nsp	nsp	RES.	680 OHM 1/5W J CRD20TJ681T
TACT	R811		nsp	nsp	RES.	2.2K OHM 1/5W J CRD20TJ222T
TACT	R812		nsp	nsp	RES.	1.5K OHM 1/5W J CRD20TJ152T
TACT	R813		nsp	nsp	RES.	1K OHM 1/5W J CRD20TJ102T
TACT	R814		nsp	nsp	RES.	820 OHM 1/5W J CRD20TJ821T
TACT	R815		nsp	nsp	RES.	560 OHM 1/5W J CRD20TJ561T
TACT	R816		nsp	nsp	RES.	680 OHM 1/5W J CRD20TJ681T
TACT	R820		nsp	nsp	RES.	1.5K OHM 1/5W J CRD20TJ152T
TACT	R821		nsp	nsp	RES.	1K OHM 1/5W J CRD20TJ102T
TACT	R822		nsp	nsp	RES.	820 OHM 1/5W J CRD20TJ821T
TACT	R823		nsp	nsp	RES.	560 OHM 1/5W J CRD20TJ561T
TACT	R824		nsp	nsp	RES.	680 OHM 1/5W J CRD20TJ681T
TACT	R829		nsp	nsp	RES.	330 OHM 1/5W J CRD20TJ331T
TACT	R830		nsp	nsp	RES.	47K OHM 1/5W J CRD20TJ473T
TACT	S801		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S802		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S803		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S804		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S805		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S806		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S807		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S808		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S809		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S810		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S811		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S812		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S813		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S814		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S815		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S816		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S817		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S818		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S819		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S820		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT

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

P.C.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION
TACT	S821		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT
TACT	S822		90M-SP001210R	90M-SP001210R	SW	SKHV10910G TACT CST1A012ZT

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