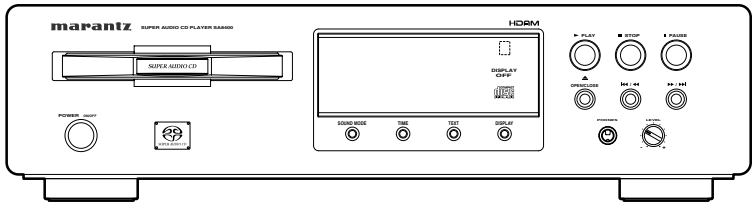
Service Manual

SA8400 /F1N/K1G/L1G/N1G/S1G /N1B

Super Audio CD Player

2nd EDITION

- The model no.SA8400/L1G/N1G/N1B was added in this service manual



SUPER AUDIO CD

COMPACT disc DIGITAL AUDIO

TABLE OF CONTENTS

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®

SA8400

Part no. 13AK855012
2nd Issue 2003.12
ecm

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

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

LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
CANADA
PHONE : 905 - 831 - 6333
FAX : 905 - 831 - 6936

PROFESSIONAL **AMERICAS**

SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
2640 WHITE OAK CIRCLE, SUITE A
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

PROFESSIONAL **AUSTRALIA**

TECHNICAL AUDIO GROUP PTY, LTD
43-53 Bridge Rd.,
STANMORE NSW 2048
AUSTRALIA
PHONE : +61 - (0)2 - 9519 - 0900
FAX : +61 - (0)2 - 9519 - 0600

PROFESSIONAL **HONG KONG**

Jolly ProAudio Broadcast Engineering Ltd.
UNIT 2, 10F, WAH HUNG CENTRE,
41 HUNG TO ROAD, KWUN TONG, KLN.,
HONG KONG
PHONE : 852 - 21913660
FAX : 852 - 21913990

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
130 JOO SENG ROAD
#03-02 OLIVINE BUILDING
SINGAPORE 368357
PHONE : +65 6858 5535 / +65 6381 8621
FAX : +65 6858 6078

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 *Technical*

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35- 1, 7- CHOME, SAGAMIONO
SAGAMIHARA - SHI, KANAGAWA
JAPAN 228-8505
PHONE : +81 42 748 1013
FAX : +81 42 741 9190

日本マランツ株式会社

本　社　〒228-8505
神奈川県相模原市相模大野7-35-1

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

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 AND UPDATE DISC

	Super Audio CD	CD
Audio Characteristics		
Analog output		
Channels	2channels	2channels
Frequency range	2Hz — 100kHz	2Hz — 20kHz
Frequency characteristics	2Hz — 50kHz (-3dB)	2Hz — 20kHz
Dynamic range	114dB	More than 100dB
THD (1kHz)	0.0009%	0.0020%
Wow & Flutter	Precision of quartz	Precision of quartz
Output level	2.2V	2.2V
Digital output		
Output level (Cinch JACK)	—	0.5Vp-p (75Ω)
Output level (Optical)	—	-19dBm
Headphone output level	0.5W / 32Ω (max, Vol.)	0.5W / 32Ω (max, Vol.)
Optical Readout System		
Laser	AlGaAs	AlGaAs
Wave length	650nm	780nm
Signal format	1-bit DSD	16-bit linear PCM
Sampling frequency	2.8224MHz	44.1kHz

Power Supply

Input Voltage, Frequency (/F)..... AC 100V 50/60Hz
(/K/L)..... AC 110/220V 50/60Hz
(/N)..... AC 230V 50Hz
(/S)..... AC 230V 50Hz
Power Consumption..... 20W

Cabinet, etc.

Dimensions .....440 × 113 × 335mm
Net weight 7.5kg
Operating temperatures ..... +5°C ~ +35°C
Operating humidity..... 5 ~ 90% (without dew)

Accessories

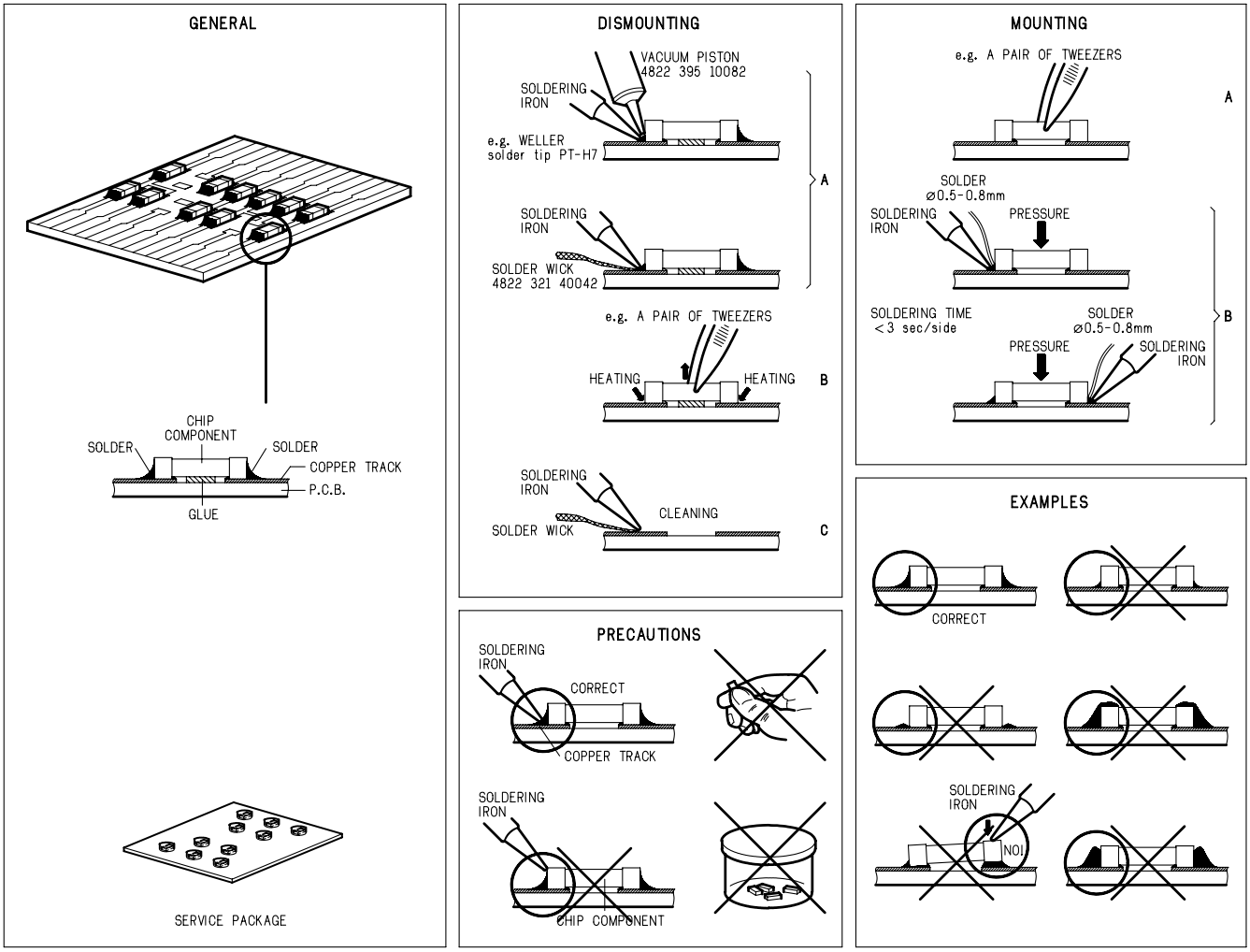
- Remote control unit (RC8400SA) 1
  Dimensions (Width × Height × Depth)..... 48.5 × 21.5 × 152.5mm
  Net weight (without Batteries) 60g
- AAA (R03) Batteries 2
- AC Power cord.....1
- Audio cable .....1 pairs
- Remote connection Cable 1
- User's Guide 1

UPDATE DISC

Update of the CPU (IC731).....*SA8400CDR

2. SERVICE HINTS AND TOOLS

SERVICE HINTS



SERVICE TOOLS

Audio signals disc	4822 397 30184
Disc without errors (SBC444)+	
Disc with DO errors, black spots and fingerprints (SBC444A)	4822 397 30245
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
DVD test disc (PAL)	4822 397 10131
DVD test disc (NTSC) ALMEDIO	TDV-540

3. WARNING AND LASER SAFETY INSTRUCTIONS

(GB) WARNING

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

(NL) WAARSCHUWING

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

(F) ATTENTION

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

(D) WARNUNG

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

(I) AVVERTIMENTO

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

(GB)

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

(NL)

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

(D)

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

(I)

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

(F)

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

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

LASER SAFETY

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

CLASS 1
LASER PRODUCT

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

AVOID DIRECT EXPOSURE TO BEAM

WARNING

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

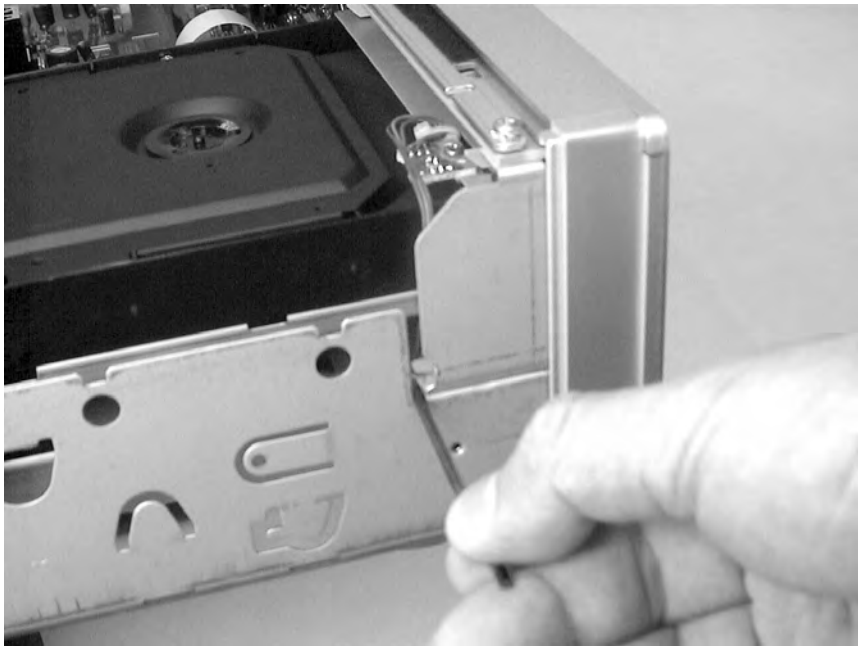
WARNING LOCATION: INSIDE ON LASER COVERSHIELD

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

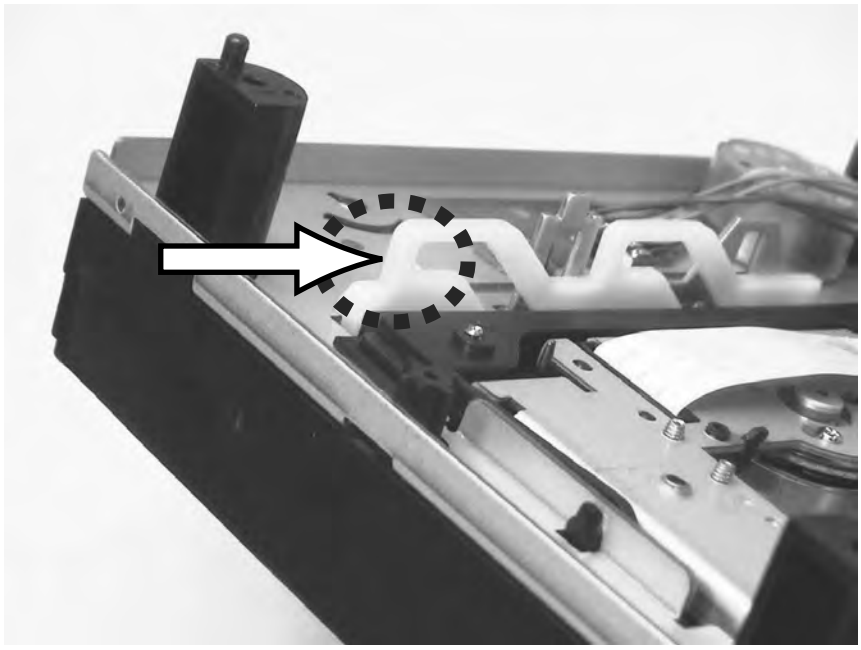
030804ecm

4. TAKING THE DISC OUT OF EMERGENCY

1. To open the stucked tray, insert a pin into the eject pinhole and push the eject lever.
2. Use a pin ϕ4mm or less.



This picture shows the unit upside down. The eject lever is pointed by the arrow.
The lever is thin so aim the narrow area carefully.



5. UPDATE FIRMWARE

Have UPDATE DISC. (*SA8400CDR)

Attention : Don't turn off the unit until disk tray opens automatically during the updating. When the turn off the unit halfway, The unit can't be operated any more.

1) Press the **POWER** button while pressing the **PLAY** and **OPEN/CLOSE** buttons.
2) Press the **OPEN/CLOSE** button to open the tray, Insert the update CD-ROM (part No.:*SA8400CDR).
3) Press the **SOUND MODE** and **STOP** buttons.
   The Display indicates " VERSION UP ".
4) Press the **OPEN/CLOSE** button to close the tray.
   The Display indicates " TOC Reading " >>> " FILE CHECK " >>> " ERASE " >>> " WRITING ".
5) Software updating will be done automatically.
   When the updating is finished, The disc tray opens automatically.
   (Updating takes about 1 minute.)
6) Remove the CD-ROM from the disc tray.

Update is completed, Press the **POWER** button to turn off the unit.

ファームウエアのアップデート方法

必要な物 : UPDATE DISC. (*SA8400CDR)

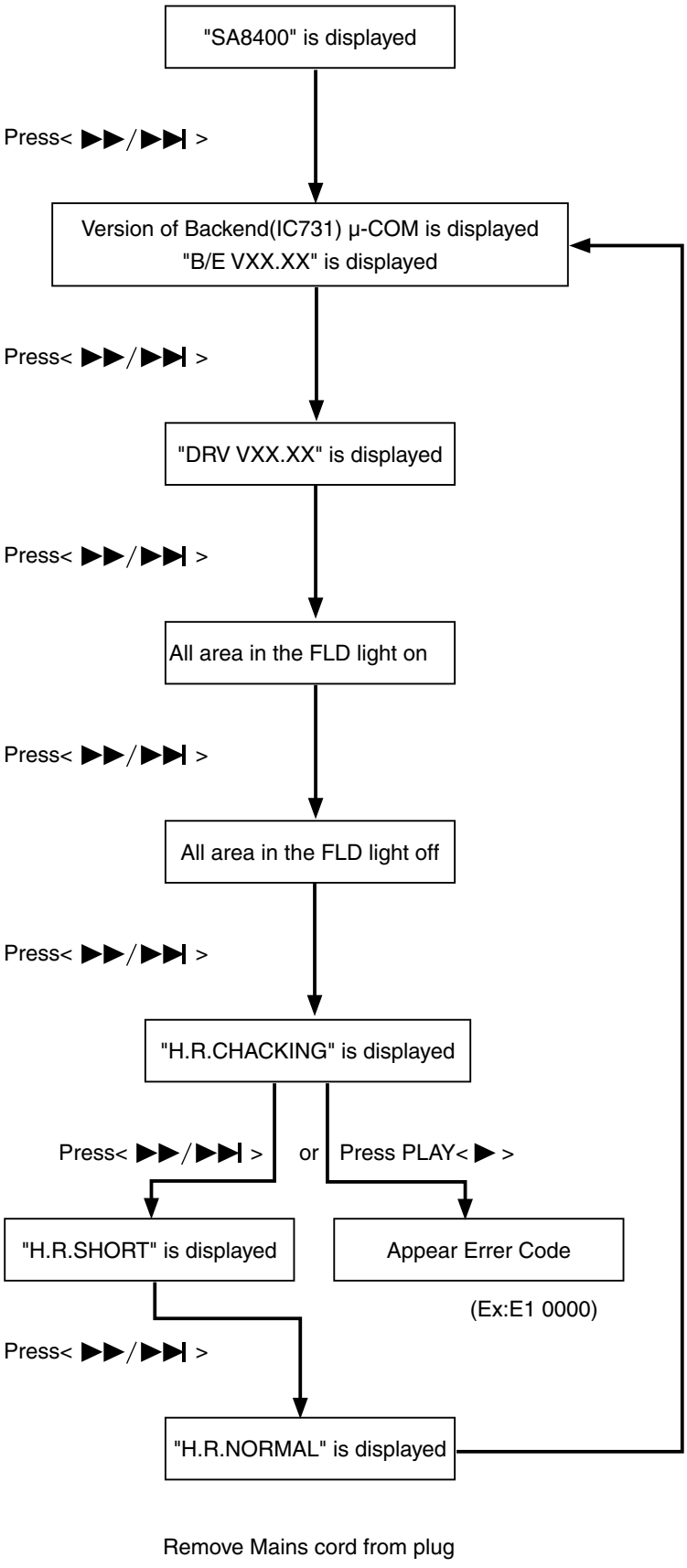
注意) 書き換え中は、ディスクトレーが自動的にオープンするまで絶対にセットの電源を切らないで下さい。途中で電源を切ると通常の動作も出来なくなります。

1) **PLAY** と **OPEN/CLOSE** ボタンを押しながら **POWER** ボタンを押します。
2) **OPEN/CLOSE** ボタンを押し、トレイをオープンします。アップデート CD-ROM (部品番号 *SA8400CDR) を挿入します。
3) **SOUND MODE** と **STOP** ボタンを同時に押します。
   表示部には " VERSION UP " と表示されます。
4) **OPEN/CLOSE** ボタンを押します。トレイが閉じます。
   表示部には " TOC Reading " >>> " FILE CHECK " >>> " ERASE " >>> " WRITING " の順に表示されます。.
5) ソフトの書き換えは自動的に行われます。書き換えが終了するとディスクトレーは自動的にオープンします。
   (アップデートには約 1 分かかります .)
6) ディスクトレーから CD-ROM を取り出します。

以上で、ソフトウエアのアップデートは完了です。**POWER** ボタンを押し電源を切ります。

6. SERVICE MODE

The error code is indicated when a problem DISC is inserted first.
Press the **POWER** button While pressing **PLAY** and **OPEN/CLOSE** Button



Errer Code

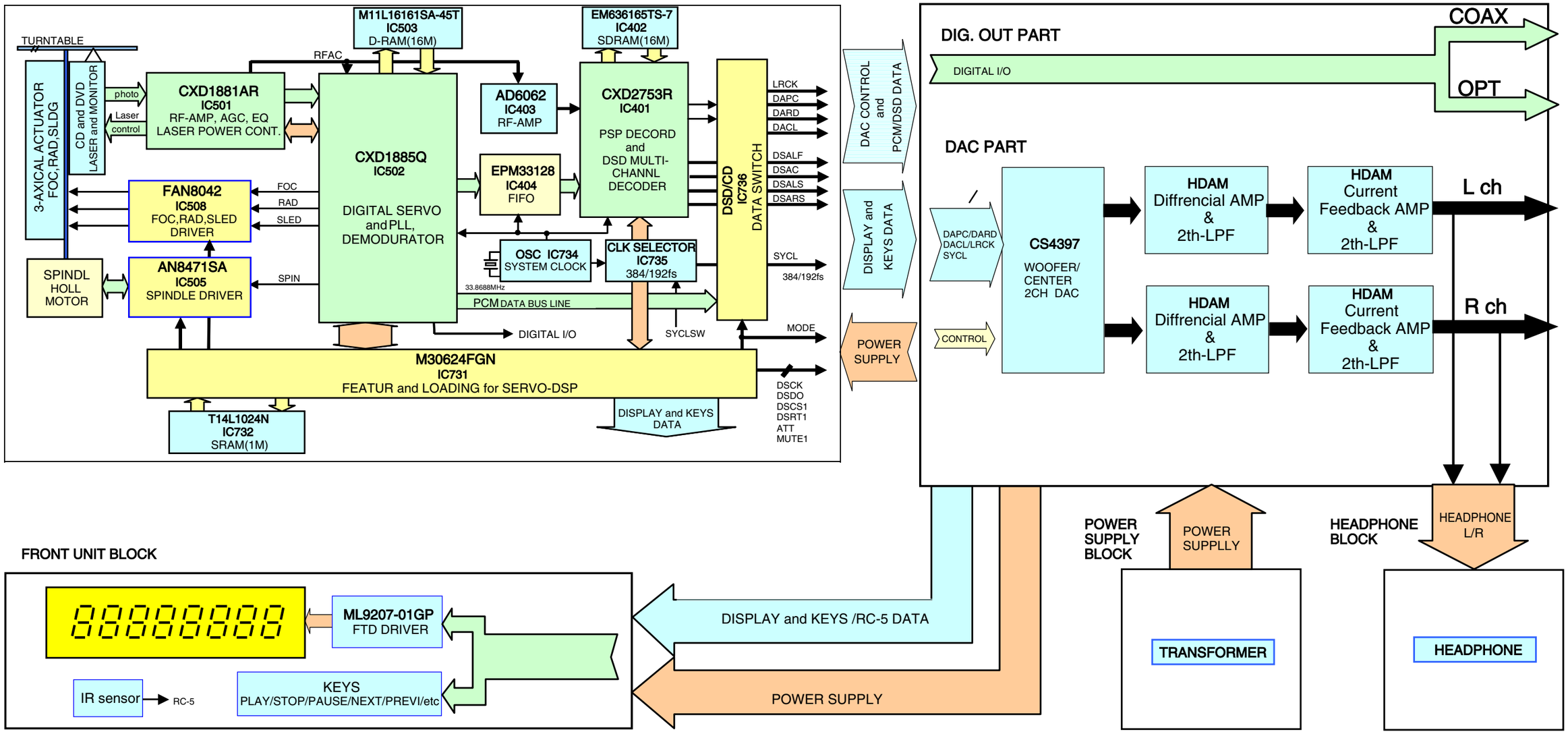
Error Code	Error
E1 XXXX	Operation time Error
E2 XXXX	T.O.C Error
E2 XXXX	Focus Error
E2 XXXX	Read Error
E4 XXXX	Tracking Error
E5 XXXX	Tray Error
E6 XXXX	Navigation Pack Read Error
E7 XXXX	Check Sum Eroor and NonAcknow l edgmen
NO DISC XXXX	NO disc

(XXXX: The Operation number of times to the error occurrence)

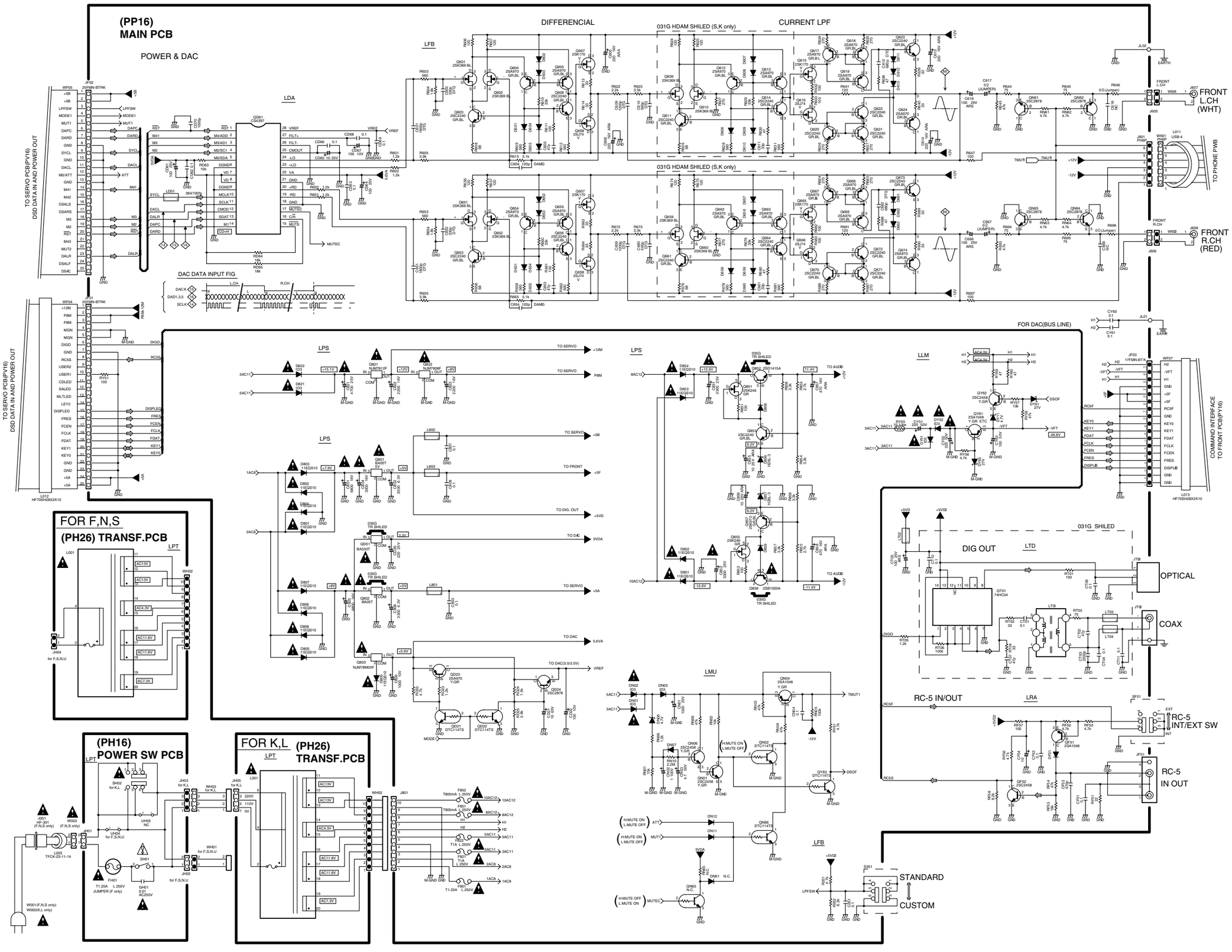
7. BLOCK DIAGRAM

SERVO BLOCK

MAIN BLOCK



8. SCHEMATIC DIAGRAM



(PY16)
DISPLAY PCB

LLM

VX01
FL DISPLAY
CH2099C

QY01
FL DRIVER
ML9207-01

JY01
17FMN-BTK

(PR16)
HEAD PHONE PCB

LHP

H.P JACK(BLACK)

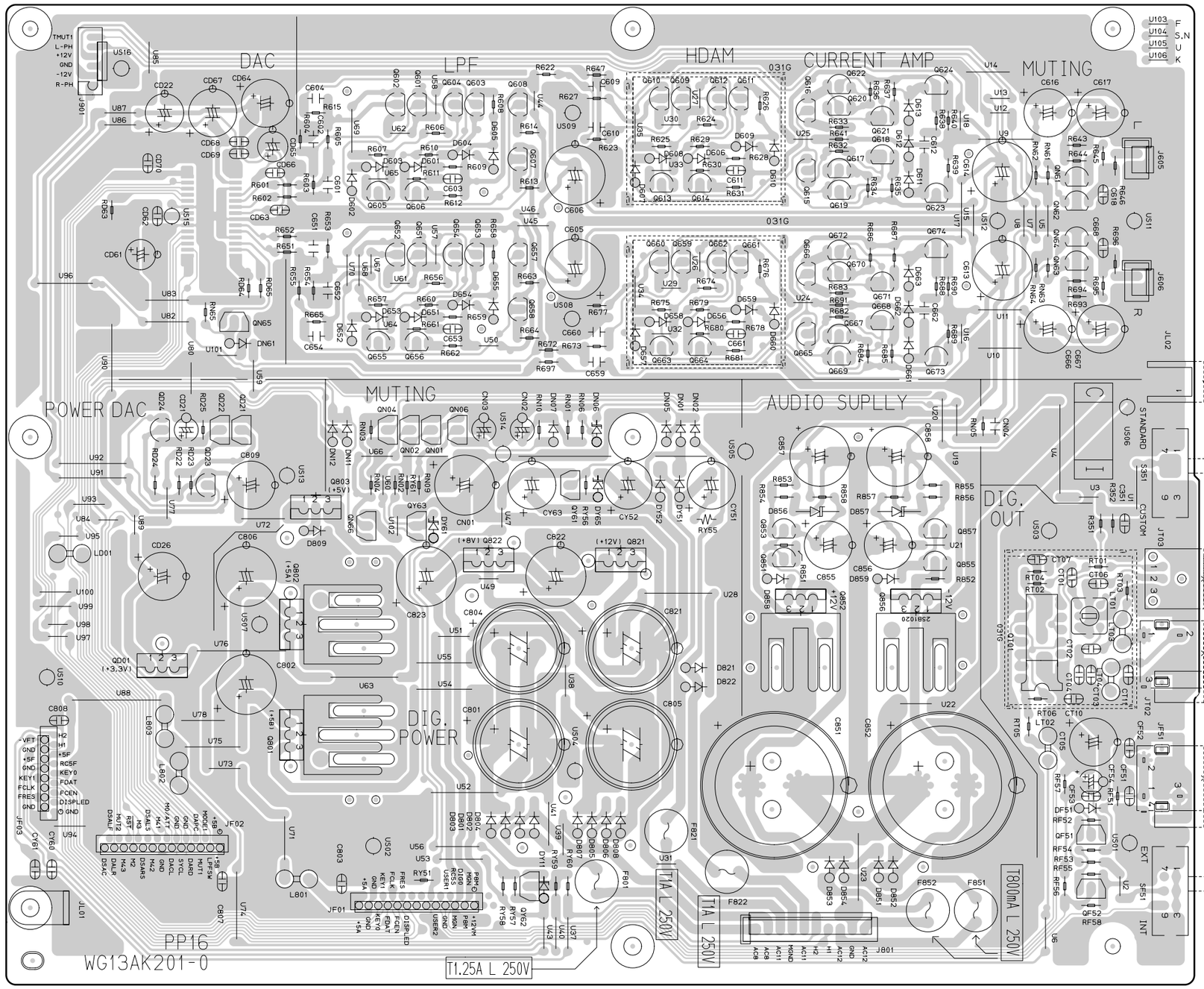
(PY26)
ILMINATION PCB

LLM

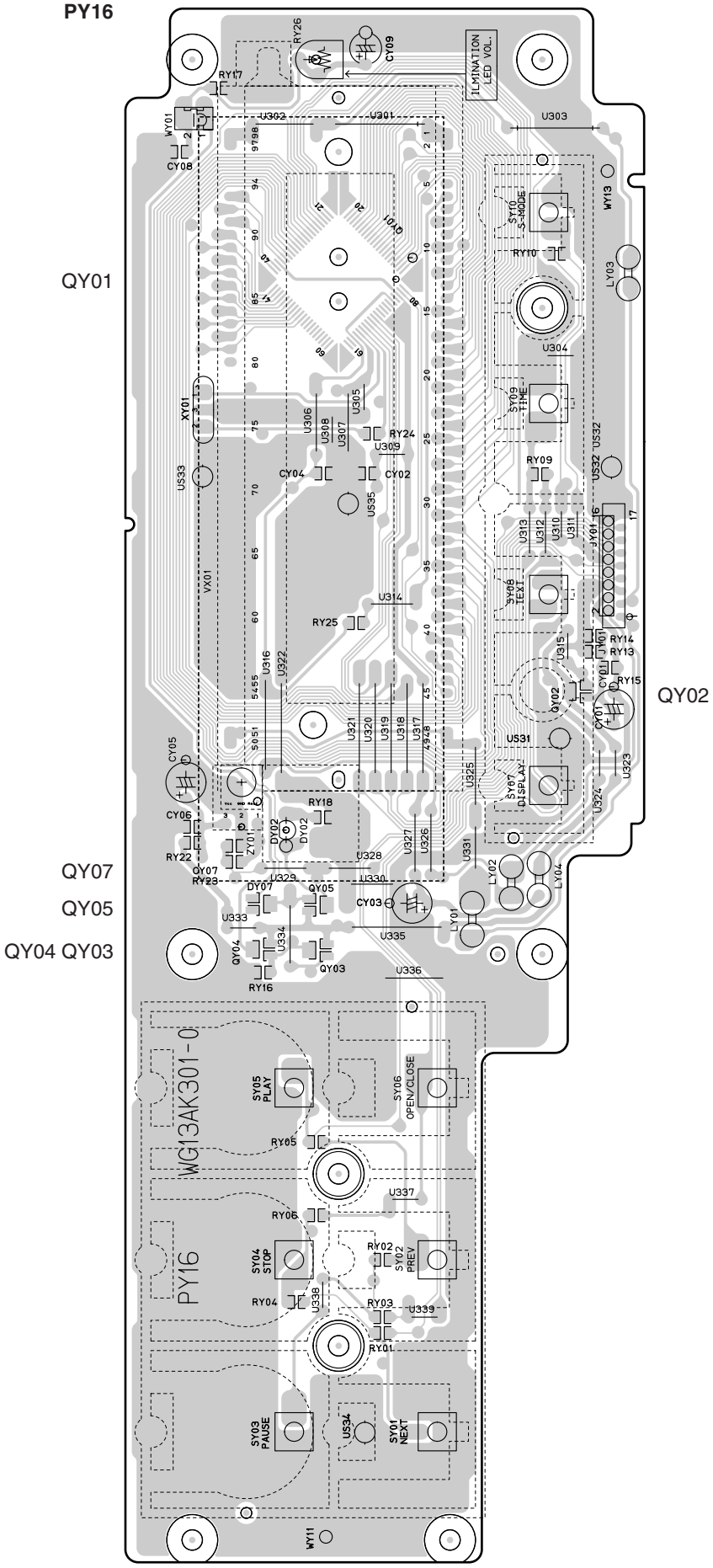
9. PARTS LOCATION

PP16

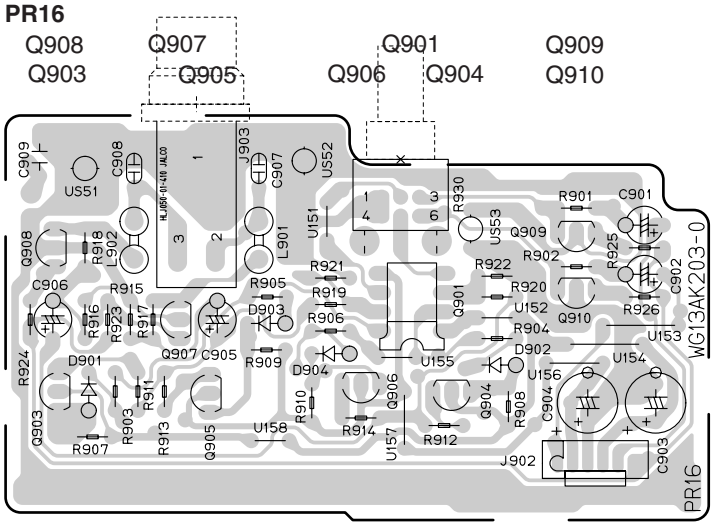
Q601 - Q608 Q609 - Q614 Q615 - Q622 Q623 Q624 QN61 QN62
QN65 Q651 - Q658 Q659 - Q664 Q665 - Q672 Q673 Q674 QN64 QN63
QD24- QD21 QN04 QN02 QN01 QN06
Q803 QN66 QY63 Q822 QY61 Q821 Q853 Q851 Q857 Q855
QD01 Q802 Q801 Q852 Q856 QT01
QY62 QF51 QF52



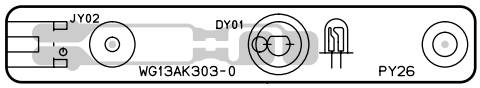
PY16


QY01
QY07
QY05
QY04 QY03
QY02
WG13AK301-0
PY16
ILMINATION
LED VOL.
SY05
PLAY
SY06
OPEN/CLOSE
SY04
STOP
SY02
PREV
SY03
PAUSE
SY01
NEXT
SY10
S-MODE
SY09
TIME
SY08
TEXT
SY07
DISPLAY

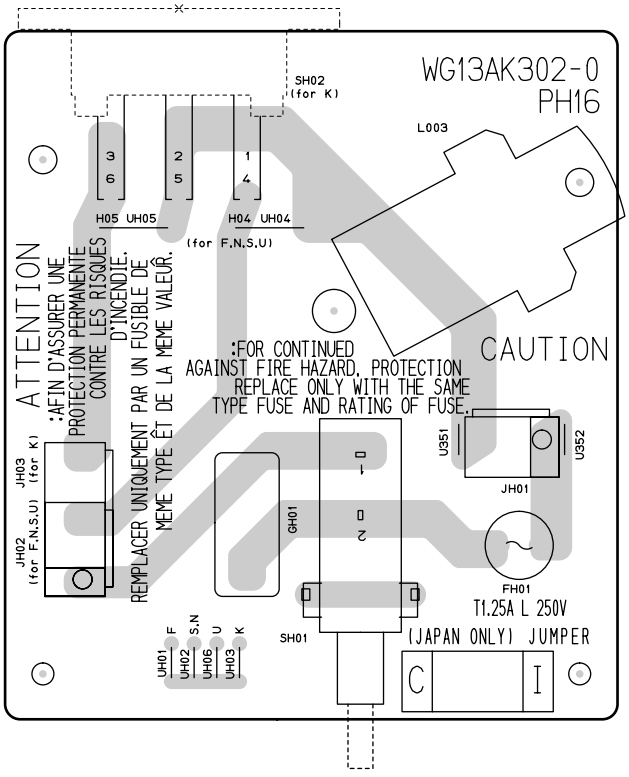
PR16



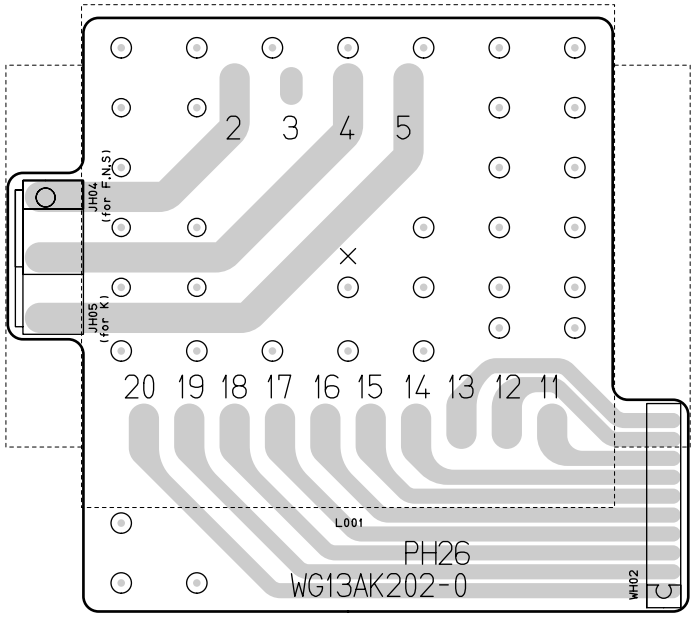
PY26



PH16

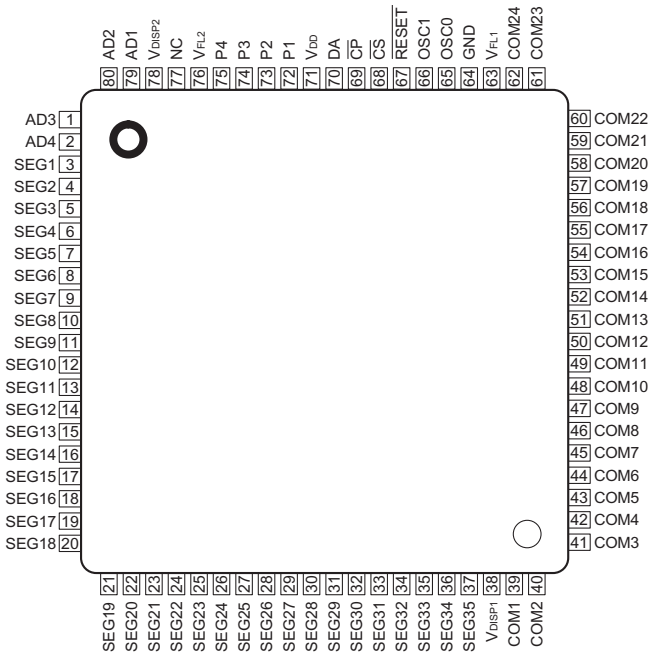


PH26



10. MICROPROCESSOR AND IC DATA

QY01 : ML9207-01



ML9207-01 Terminal Function

Pin No.	Pin Name	I/O	Function
3~37	SEG1~35	O	FL display anode drive output pin
39~62	COM1~24	O	FL display grid drive output pin
1,2, 79, 80	AD1~4	O	FL display anode drive output pin
72~75	P1~4	O	General port output pin
71	V_{DD}		V_{DD}-GND: Power supply for logic block V_{DISP}-V_{FL}: Power supply for FL display drive For V_{DD} and V_{DISP}, apply from same power source
38, 78	$V_{DISP1~2}$		
64	GND		
63, 76	$V_{FL1~2}$		
70	DA	I	Serial data input pin (positive logic)
69	$\overline{CP}$	I	Shift clock input pin
68	$\overline{CS}$	I	Chip select input pin
67	$\overline{RESET}$	I	Reset input pin
65	OSC0	I	Pin for self-oscillation
66	OSC1	O	

QD61 : CS4397

Reset - RST

Pin 1, Input

Function:

The device enters a low power mode and all internal state machines registers are reset when low. When high, the device will be in a normal operation mode .

RST	DESCRIPTION
0	Enabled
1	Normal operation mode

Digital Ground - DGND

Pins 6 and 9, Inputs

Function:

Digital ground reference.

Digital Power - VD

Pins 7 and 8, Input

Function:

Digital power supply. Typically 5.0 to 3.0 VDC.

Master Clock - MCLK

Pin 10, Input

Function:

The master clock frequency must be either 256x, 384x, 512x or 768x the input sample rate in Single Speed Mode; either 128x, 192x 256x or 384x the input sample rate in Double Speed Mode; or 64x, 96x 128x or 192x the input sample rate in Quad Speed Mode. Tables 4-6 illustrate the standard audio sample rates and the required master clock frequencies.

Sample Rate (kHz)	MCLK (MHz)			
	256x	384x	512x	768x
32	8.1920	12.2880	16.3840	24.5760
44.1	11.2896	16.9344	22.5792	33.8688
48	12.2880	18.4320	24.5760	36.8640

Table 4. Single Speed (16 to 50 kHz sample rates) Common Clock Frequencies

Serial Clock - SCLK

Pin 11, Input

Function:

Clocks individual bits of serial data into the SDATA pin. The required relationship between the Left/Right clock, serial clock and serial data is defined by either the Mode Control Byte in Control Port Mode or the M0 - M4 pins in Hardware Mode. The options are detailed in Figures 29-33

Left/Right Clock - LRCK

Pin 12, Input

Function:

The Left/Right clock determines which channel is currently being input on the serial audio data input, SDATA. The frequency of the Left/Right clock must be at the input sample rate. Audio samples in Left/Right sample pairs will be simultaneously output from the digital-to-analog converter whereas Right/Left pairs will exhibit a one sample period difference. The required relationship between the Left/Right clock, serial clock and serial data is defined by the Mode Control Byte and the options are detailed in Figures 29-33

Serial Audio Data - SDATA

Pin 13, Input

Function:

Serial audio data is input on this pin. The selection of the Digital Interface Format is determined by settings of the Mode select as detailed in Figures 29-33. The data is clocked into SDATA via the serial clock and the channel is determined by the Left/Right clock. The required relationship between the Left/Right clock, serial clock and serial data is defined by the Mode Control Byte and the options are detailed inin Figures 29-33

Soft Mute - MUTE

Pin 15, Input

Function:

The analog outputs will ramp to a muted state when enabled. The ramp requires 1152 left/right clock cycles in Single Speed, 2304 cycles in Double Speed and 4608 cycles in Quad Speed mode. The bias voltage on the outputs will be retained and MUTEC will go active at the completion of the ramp period.

The analog outputs will ramp to a normal state when this function transitions from the enabled to disabled state. The ramp requires 1152 left/right clock cycles in Single Speed, 2304 cycles in Double Speed and 4608 cycles in Quad Speed mode. The MUTEC will release immediately on setting MUTE = 1.

The converter analog outputs will mute when enabled. The bias voltage on the outputs will be retained and MUTEC will go active during the mute period.

Mute	DESCRIPTION
0	Enabled
1	Normal operation mode

Control Port / Hardware Mode Select - C/H

Pin 16, Input

Function:

Determines if the device will operate in either the Hardware Mode or Control Port Mode.

C/H	DESCRIPTION
0	Hardware Mode Enabled
1	Control Port Mode Enabled

Mute Control - MUTEC

Pin 17, Output

Function:

The Mute Control pin goes low during power-up initialization, reset, muting, master clock to left/right clock frequency ratio is incorrect or power-down. This pin is intended to be used as a control for an external mute circuit to prevent the clicks and pops that can occur in any single supply system. Use of Mute Control is not mandatory but recommended for designs requiring the absolute minimum in extraneous clicks and pops.

Analog Ground - AGND

Pins 18 and 21, Inputs

Function:

Analog ground reference.

Differential Analog Outpus - AOUTR- , AOUTR+ and AOUTL- , AOUTL+

Pins 19, 20, 23 and 24, Outputs

Function:

The full scale differential analog output level is specified in the Analog Characteristics specifications table.

Analog Power - VA

Pin 22, Input

Function:

Power for the analog and reference circuits. Typically 5VDC.

Common Mode Voltage - CMOUT

Pin 25, Output Function:

Filter connection for internal bias voltage, typically 50% of VREF. Capacitors must be connected from CMOUT to analog ground, as shown in Figure 6. CMOUT has a typical source impedence of 25 kΩ and any current drawn from this pin will alter device performance

Reference Ground - FILT-

Pin 26, Input Function:

Ground reference for the internal sampling circuits. Must be connected to analog ground.

Reference Filter - FILT+

Pin 27, Output Function:

Positive reference for internal sampling circuits. External capacitors are required from FILT+ to analog ground, as shown in Figure 6. FILT+ is not intended to supply external current.

Voltage Reference Input- VREF

Pin 28, Input Function:

Analog voltage reference. Typically 5VDC.

HARDWARE MODE

Mode Select - M0, M1, M2, M3, M4

Pins 2, 3, 4, 5 and 14, Inputs Function:

The Mode Select pins determine the operational mode of the device as detailed in Tables 9-14. The op-tions include; Selection of the Digital Interface Format which determines the required relationship between the Left/Right clock, serial clock and serial data as detailed in Figures 29-33 Selection of the standard 15 µs/50 µs digital de-emphasis filter response, Figure 28, which requires re-configuration of the digital filter to maintain the proper filter response for 32, 44.1 or 48 kHz sample rates. Selection of the appropriate clocking mode to match the input sample rates. Access to the Direct Stream Digital Mode Access to the 8x Interpolation Input Mode

CONTROL PORT MODE

Address Bit 0 / Chip Select - AD0 / CS

Pin 2, Input Function:

In I²C mode, AD0 is a chip address bit. CS is used to enable the control port interface in SPI mode. The device will enter the SPI mode at anytime a high to low transition is detected on this pin. Once the device has entered the SPI mode, it will remain until either the part is reset or undergoes a power-down cycle.

Address Bit 1 / Control Data Input - AD1/CDIN

Pin 3, Input Function:

In I²C mode, AD1 is a chip address bit. CDIN is the control data input line for the control port interface in SPI mode.

Serial Control Interface Clock - SCL/CCLK

Pin 4, Input Function:

In I²C mode, SCL clocks the serial control data into or from SDA/CDOUT.

In SPI mode, CCLK clocks the serial data into AD1/CDIN and out of SDA/CDOUT.

Serial Control Data I/O - SDA/CDOUT

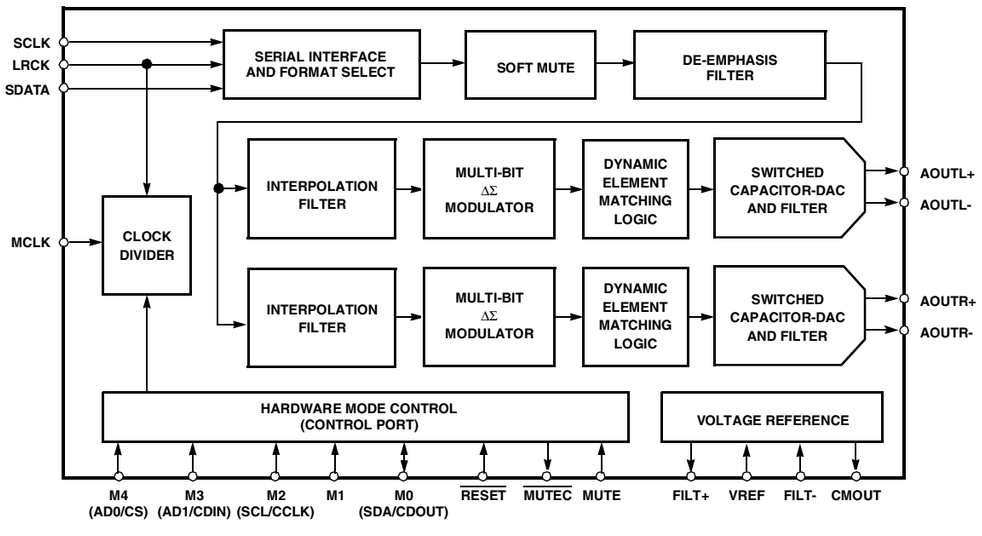
Pin 5, Input/Output Function:

In I²C mode, SDA is a data input/output. CDOUT is the control data output for the control port interface in SPI mode.

M1 - Mode Select

Pin 14, Input Function:

This pin is not used in Control Port Mode and must be terminated to ground.



11. EXPLODED VIEW AND PARTS LIST

SYMBOL	STYLE	PARTS NAME
5110		+B .H .M .SCREW
5126		+B .H .TAPTITE SCREW W/ WASHER
5127		+B .H .TAPTITE SCREW (W /)
5128		+B .H .TAPTITE SCREW (B TYPE)
5129		+B .H .TAPTITE SCREW (W /T.L.WASHER)
5150		+F .H .TAPTITE SCREW (B TY PE)
5192		+P .H .M .SCREW (MINUTE)
5404		SPRING LOCK WASHERS
5405		TOOTHED LOCK WASHERS

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

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
001B	GOLD	13AK248110	FRONT AL PANEL GOLD	13AK248110
001B	BLACK	13AK248010	FRONT AL PANEL BLACK	13AK248010
002B	GOLD	13AK105120	CHASSIS FRONT MOLD PANEL GOLD	13AK105120
002B	BLACK	13AK105020	CHASSIS FRONT MOLD PANEL BLACK	13AK105020
003B		13AK355010	LENS ESCUTCHEON	13AK355010
011B		01AK251010	BADGE SUPER AUDIO CD LOGO	01AK251010
012B		01AK158020	WINDOW	01AK158020
015B		382K355010	LENS	382K355010
017B		24AW251010	BADGE NEW MARANTZ LOGO	24AW251010
020B	GOLD	05AK270110	BUTTON POWER GOLD	05AK270110
020B	BLACK	05AK270010	BUTTON POWER BLACK	05AK270010
021B	GOLD	13AK270110	BUTTON 6 GOLD	13AK270110
021B	BLACK	13AK270010	BUTTON 6 BLACK	13AK270010
022B	GOLD	13AK270120	BUTTON 4 GOLD	13AK270120
022B	BLACK	13AK270020	BUTTON 4 BLACK	13AK270020
029B	GOLD	284T154250	KNOB PHONE VOLUME GOLD	284T154250
029B	BLACK	284T154310	KNOB PHONE VOLUME BLACK	284T154310
030B		376K121010	LINK FOR POWER BUTTON	376K121010
040B	GOLD	13AK063120	ESCUTCHEON GOLD	13AK063120
040B	BLACK	13AK063020	ESCUTCHEON BLACK	13AK063020
032G		183J057010	LEG FRONT	183J057010
033G		183J057110	LEG REAR	183J057110
908G	/K/L	nsp	BUSHING FOR MAINS CORD	450H259010
002M		13AK304010	MECHA LOADER AND MECHA TRAVERSE	13AK304010
006M		ZK13AK0020	SUPER AUDIO CD PCB MODULE	ZK13AK0020
007M	GOLD	13AK063110	ESCUTCHEON FOR CD TRAY GOLD	13AK063110
007M	BLACK	13AK063010	ESCUTCHEON FOR CD TRAY BLACK	13AK063010
008M		392K063160	ESCUTCHEON SUPER AUDIO CD LOGO	392K063160
⚠ J001	/F/N/S	YJ04002550	JACK MAINS INLET TYPE HF-301	YJ04002550
J607		YT02011290	TERMINAL EW-2560T-LH-W FOR L-CH	YT02011290
J608		YT02011280	TERMINAL EW-2560T-LH-R FOR R-CH	YT02011280
L003		FC50230010	FERRITE CORE TFCK-23-11-14 FOR W002, W003	FC50230010
L011		FC50270040	FERRITE CORE USB-4 FOR W901	FC50270040
L012		FC90280010	FERRITE CORE HF70SH28*2*10 FOR WF04	FC90280010
L013		FC90280010	FERRITE CORE HF70SH28*2*10 FOR WF07	FC90280010
⚠ W002	/K	nsp	MAINS CORD CCEE APP.AC250V 10A+ VAR2P	YC01800880
⚠ W002	/L	nsp	MAINS CORD CCEE APP.AC250V 10A+ VAR2P	YC01800950
WF04		YU25110520	JUMPER LEAD JF01-CY251 FFC 1MM-PITCH 25P	YU25110520
WF05		YU25110520	JUMPER LEAD JF01-CY252 FFC 1MM-PITCH 25P	YU25110520
WF07		YU17120520	JUMPER LEAD JF03-JY01 FFC 1MM-PITCH 17P	YU17120520

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
			PACKING	
001T	/F	nsp	USER GUIDE SA8400 /F	13AK851110
001T	/K/L/S	nsp	USER GUIDE SA8400 /K/L/S	13AK851350
001T	/N	13AK851310	USER GUIDE SA8400 /N	13AK851310
T100		ZK13AK0010	REMOTE CONTROLLER RC8400SA	ZK13AK0010
⚠ W001	/F	nsp	MAINS CORD AC 125V 12A FOR F OFC	ZC01802080
⚠ W001	/N	ZC01803080	MAINS CORD AC 250V 10A CLASS2	ZC01803080
⚠ W001	/S	nsp	MAINS CORD AC 250V 10A FOR UK	ZC01804100
			NOT STANDARD **SPARE PART**	
001S		nsp	PACKING CASE	13AK801010
002S		nsp	CUSHION L/R	02AJ809010
001D	GOLD	nsp	LID TOP COVER GOLD	02AJ257120
001D	BLACK	nsp	LID TOP COVER BLACK	02AJ257020

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

12. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R✻✻✻: 1) GD05×××140, Carbon film fixed resistor, ±5% 1/4W
R✻✻✻: 2) GD05×××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

C✻✻✻: CERAMIC CAP.
3) DD1××××370, Ceramic capacitor
② ③ Disc type
Temp.coeff.P350 ～N1000, 50V
③ ——— Capacity value
② ——— 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	

C✻✻✻ : CERAMIC CAP.
4) DK16×××300, High dielectric constant ceramic capacitor
④ 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	

C✻✻✻ : 5) ELECTROLY CAP. (⏚), 6) FILM CAP. (⫩)
5) EA××××××10, Electrolytic capacitor
⑤ ⑥ One-way lead type, Tolerance ±20%
⑥ ——— Working voltage
⑤ ——— Capacity value

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

6) DF15××× 350 → Plastic film capacitor
DF15××× 310 → One-way type, Mylar ±5% 50V
DF16××× 310 → Plastic film capacitor
⑦ 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 : 1) The above CODES (R✻✻✻ , R✻✻✻ , C✻✻✻ , C✻✻✻ and C ✻✻✻) are omitted on the schematic diagram in some case.
2) On the occasion, be confirmed the common parts on the parts list.
3) Refer to "Common Parts List" for the other common parts (**RI05**, **DD4**, **DK4**).

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
NH05×××140	→ RF25S××××ΩJ	(±5% 1/4W)
NH05×××120	→ RF50S××××ΩJ	(±5% 1/2W)
NH85×××110	→ RF73B2A××××ΩJ	(±5% 1/10W)
NH95×××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
NF05×××140	→ ERD-2FCJ×××	(±5% 1/4W)
RF05×××140		
NF02×××140	→ ERD-2FCG×××	(±2% 1/4W)
RF02×××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 parts code **FS20**xxx**2**xx, 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。

010728MIT

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
			PH16-POWER SWITCH CIRCUIT BOARD	
⚠ FH01	/K/L/N /S	FS20125200	FUSE T1.25A 250V VDE SEMKO	FS20125200
⚠ GH01		DF77103500	FILM 0.01µF M 250V AC	DF77103500
⚠ JH01		YP04000760	PLUG CONNECTOR B2P3-VH	YP04000760
⚠ JH02	/F/N/S	YP04000760	PLUG CONNECTOR B2P3-VH	YP04000760
⚠ JH03	/K/L	nsp	PLUG CONNECTOR B3P5-VH	YP04000920
⚠ SH01		SP01012480	PUSH SWITCH ESB92S94B TV-5 1.5MM	SP01012480
⚠ SH02	/K/L	nsp	VOLTAGE SELECTOR SDKGA4	SS02021510
			PH26-TRANSFORMER CIRCUIT BOARD	
⚠ JH04	/F/N/S	YP04000760	PLUG CONNECTOR B2P3-VH	YP04000760
⚠ JH05	/K/L	nsp	PLUG CONNECTOR B3P5-VH	YP04000920
⚠ L001	/F	nsp	TRANSF. EI66-30 AC100V F	TS16679010
⚠ L001	/K/L	nsp	TRANSF. EI66-30 AC110V/220 K	TS16679020
⚠ L001	/N/S	TS16679030	TRANSF. EI66-30 AC230V S	TS16679030
			PP16-POWER/AUDIO (L R) CIRCUIT BOARD	
			PP16-CAPACITORS	
C601		OF55182570	FILM DTG 1800pF 100V	OF55182570
C602		OF55331570	FILM DTG 330pF 100V	OF55331570
C604		OF55121560	FILM DAMG 120pF 630V	OF55121560
C605		nsp	ELECT. 220µF 16V ARA CERAFINE	OA22701650
C606		nsp	ELECT. 220µF 16V ARA CERAFINE	OA22701650
C609		OF55122570	FILM DTG 1200pF 100V	OF55122570
C610		OF55561570	FILM DTG 560pF 100V	OF55561570
C612		OF55681570	FILM DTG 680pF 100V	OF55681570
C613		nsp	ELECT. 220µF 16V ARA CERAFINE	OA22701650
C614		nsp	ELECT. 220µF 16V ARA CERAFINE	OA22701650
C616		nsp	ELECT. 100µF 25V ARS	OA10702540
C651		OF55182570	FILM DTG 1800pF 100V	OF55182570
C652		OF55331570	FILM DTG 330pF 100V	OF55331570
C654		OF55121560	FILM DAMG 120pF 630V	OF55121560
C659		OF55122570	FILM DTG 1200pF 100V	OF55122570
C660		OF55561570	FILM DTG 560pF 100V	OF55561570
C662		OF55681570	FILM DTG 680pF 100V	OF55681570
C666		nsp	ELECT. 100µF 25V ARS	OA10702540
⚠ C801		OA68801620	ELECT. 6800µF 16V ± 20% RA-2	OA68801620
C802		nsp	ELECT. 3300µF M 6.3V RA-2	OA33800620
C804		nsp	ELECT. 3300µF 16V RA2 TYPE	OA33801620
C805		nsp	ELECT. 6800 µF 16V RA2	OA68801620
C806		nsp	ELECT. 3300µF M 6.3V RA-2	OA33800620
C809		nsp	ELECT. 1000µF 10V M RA-2	OA10801020
⚠ C821		OA47802520	ELECT. 4700µF 25V RA-2	OA47802520
C822		nsp	ELECT. 2200µF 16V	OA22801620
C823		nsp	ELECT. 2200µF 16V	OA22801620
C851		OB33802510	ELECT. 3300µF 25V ±20% FOR HIFI	OB33802510
C852		OB33802510	ELECT. 3300µF 25V ±20% FOR HIFI	OB33802510
C855		nsp	ELECT. 10µF 25V ARA	OA10602550
C856		nsp	ELECT. 10µF 25V ARA	OA10602550
C857		nsp	ELECT. 470 µF M 16V ARA	OA47701650
C858		nsp	ELECT. 470 µF M 16V ARA	OA47701650
CD21		nsp	ELECT. 10 µF 63V RA-2	OA10606320
CD22		nsp	ELECT. 100 µF M 10V RA-2	OA10701020
CD26		nsp	ELECT. 220 µF M 25V RA-2	OA22702520
CD61		nsp	ELECT. 100 µF M 25V RA-2	OA10702520
CD64		nsp	ELECT. 100 µF M 25V RA-2	OA10702520
CD65		nsp	ELECT. 10µF 25V ARA	OA10602550
CD67		nsp	ELECT. 100µF 10V ARA	OA10701050
CF54		nsp	ELECT. 10 µF 63V RA-2	OA10606320
CN01		nsp	ELECT. 1000 µF M 25V RA-2	OA10802520
CN02		nsp	ELECT. 1 µF M100V RA-2	OA10510020
CN03		nsp	ELECT. 4.7 µF M 50V RA-2	OA47505020
CN04		DF15104350	FILM 0.1µF J N 50V	DF15104350
CT05		nsp	ELECT. 100µF 25V ARS	OA10702540
⚠ CY51		OA22705020	ELECT. 220 µF M 50V RA-2	OA22705020
⚠ CY52		OA22705020	ELECT. 220 µF M 50V RA-2	OA22705020
CY63		nsp	ELECT. 100 µF M 50V RA-2	OA10705020
			PP16-RESISTORS	
R615		nsp	5.1kΩ ±5% 1/6W	GD05512160
R644		nsp	75Ω ±5% 1/6W	GD05750160
R645		nsp	75Ω ±5% 1/6W	GD05750160
R665		nsp	5.1kΩ ±5% 1/6W	GD05512160
R694		nsp	75Ω ±5% 1/6W	GD05750160
R695		nsp	75Ω ±5% 1/6W	GD05750160
RT03		nsp	75Ω ±5% 1/6W	GD05750160
RY55		NH05100140	FUSIBLE 10Ω J 1/4W	NH05100140
			PP16-RESISTORS (COMMON) CARBON FILM FIXED RES.	
R***			**±5% 1/6W :** R351 R352 R601-R614 R622-R641 R643 R647 R651-R664 R672-R691 R693 R697 R851-R858 R901-R926 RD22-RD25 RD63-RD65 RF51-RF58 RN01-RN06 RN09 RN10 RN61-RN64 RT01 RT02 RT04-RT06 RY51 RY56-RY61	
			PP16-SEMICONDUCTORS	
D601 ⚠		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D613				
D651 ⚠		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D663				
⚠ D801 ⚠		HD20055100	DIODE SHOTTKY 11EQS10 1A 100V	HD20055100
⚠ D809				
⚠ D821		HD20002710	DIODE 1D3 1A 200V	HD20002710
⚠ D822		HD20002710	DIODE 1D3 1A 200V	HD20002710
⚠ D851 ⚠		HD20055100	DIODE SHOTTKY 11EQS10 1A 100V	HD20055100
⚠ D854				
D856		HD30021010	ZENER DIODE HZ6L 3 6.2V	HD30021010
D857		HD30021010	ZENER DIODE HZ6L 3 6.2V	HD30021010
D858		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D859		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF51		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
⚠ DN01		HD20002710	DIODE 1D3 1A 200V	HD20002710
⚠ DN02		HD20002710	DIODE 1D3 1A 200V	HD20002710
DN05		nsp	DIODE 1D3 1A 200V	HD20002710
DN06		HD30471000	ZENER DIODE 4.7V	HD30471000
DN07		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DN11		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DN12		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DY11		HD30471000	ZENER DIODE 4.7V	HD30471000
⚠ DY51		HD20002710	DIODE 1D3 1A/200V	HD20002710
⚠ DY52		HD20002710	DIODE 1D3 1A/200V	HD20002710
DY61		HD32701000	ZENER DIODE 27V	HD32701000
DY65		HD32701000	ZENER DIODE 27V	HD32701000
Q601		HF203691B0	F.E.T. 2SK369 BL VGDS-40V PD0.4W	HF203691B0
Q602		HF203691B0	F.E.T. 2SK369 BL VGDS-40V PD0.4W	HF203691B0
Q603		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q604		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q605		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0

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

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
Q606		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q607		HF201701H0	F.E.T. 2SK170 V RANK	HF201701H0
Q608		HF100741H0	F.E.T. 2SJ74 V RANK	HF100741H0
Q609		HF203691B0	F.E.T. 2SK369 BL VGDS-40V PD0.4W	HF203691B0
Q610		HF203691B0	F.E.T. 2SK369 BL VGDS-40V PD0.4W	HF203691B0
Q611		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q612		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q613		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q614		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q615		HF201701H0	F.E.T. 2SK170 V RANK	HF201701H0
Q616		HF100741H0	F.E.T. 2SJ74 V RANK	HF100741H0
Q617		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q618		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q619		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q620		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q621		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q622		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q623		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q624		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q651		HF203691B0	F.E.T. 2SK369 BL VGDS-40V PD0.4W	HF203691B0
Q652		HF203691B0	F.E.T. 2SK369 BL VGDS-40V PD0.4W	HF203691B0
Q653		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q654		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q655		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q656		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q657		HF201701H0	F.E.T. 2SK170 V RANK	HF201701H0
Q658		HF100741H0	F.E.T. 2SJ74 V RANK	HF100741H0
Q659		HF203691B0	F.E.T. 2SK369 BL VGDS-40V PD0.4W	HF203691B0
Q660		HF203691B0	F.E.T. 2SK369 BL VGDS-40V PD0.4W	HF203691B0
Q661		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q662		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q663		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q664		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q665		HF201701H0	F.E.T. 2SK170 V RANK	HF201701H0
Q666		HF100741H0	F.E.T. 2SJ74 V RANK	HF100741H0
Q667		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q668		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q669		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
Q670		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q671		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q672		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q673		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q674		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
⚠ Q801		HC3690521F	IC REG. BA05T 5V/1A TO220	HC3690521F
⚠ Q802		HC3690521F	IC REG. BA05T 5V/1A TO220	HC3690521F
⚠ Q803		HC3850509F	IC REG. NJM78M05F	HC3850509F
⚠ Q821		HC3891209F	IC REG. NJM7812FA +12V	HC3891209F
⚠ Q822		HC3890809F	IC REG. NJM7808F	HC3890809F
Q851		HF202461C0	F.E.T. 2SK246 GR	HF202461C0
⚠ Q852		HT41415100	TRS. 2SD1415A	HT41415100
Q853		HT322402A0	TRS. 2SC2240 GR OR BL	HT322402A0
Q855		HF202461C0	F.E.T. 2SK246 GR	HF202461C0
⚠ Q856		HT21020100	TRS. 2SB1020A	HT21020100
Q857		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
⚠ QD01		HC36J3321F	IC REG. BA033T 3.3V FOR DMAINS POWER	HC36J3321F
QD21		BA20004000	DIG. TRS. DTC114TS/UN4215 10K	BA20004000
QD22		BA20004000	DIG. TRS. DTC114TS/UN4215 10K	BA20004000
QD23		HT109702A0	TRS. 2SA970 GR OR BL	HT109702A0
QD24		HT328782A0	TRS. 2SC2878 A OR B	HT328782A0
QD61		HC10008880	IC CS4397 DSD/PCD DAC 24BIT 192K	HC10008880
QF51		HT10001000	TRS. 2SA1048 2SA933S 2SA1267 ETC.	HT10001000
QF52		HT30001000	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QN01		HT30001000	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QN02		BA20004000	DIG. TRS. DTC114TS/UN4215 10K	BA20004000
QN04		HT10001000	TRS. 2SA1048 2SA933S 2SA1267 ETC.	HT10001000
QN06		HT30001000	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QN61		HT328782A0	TRS. 2SC2878 A OR B	HT328782A0
QN62		HT328782A0	TRS. 2SC2878 A OR B	HT328782A0
QN63		HT328782A0	TRS. 2SC2878 A OR B	HT328782A0
QN64		HT328782A0	TRS. 2SC2878 A OR B	HT328782A0
QN66		BA20004000	DIG. TRS. DTC114TS/UN4215 10K	BA20004000
QT01		HC700400D0	IC 74HC04 HI-SPEED C-MOS	HC700400D0
QY61		HT10001000	TRS. 2SA1048 2SA933S 2SA1267 ETC.	HT10001000
QY62		HT30001000	TRS. 2SC2458 2SC1740S 2SC3199 ETC.	HT30001000
QY63		BA20004000	DIG. TRS. DTC114TS/UN4215 10K	BA20004000
			PP16-MISCELLANEOUS	
⚠ F801		FS20125200	FUSE T1.25A 250V VDE SEMKO	FS20125200
⚠ F821		FS20100200	FUSE FUSE 1A 250V SEMKO VDE	FS20100200
⚠ F822		FS20100200	FUSE FUSE 1A 250V SEMKO VDE	FS20100200
⚠ F851		FS20080200	FUSE T800MA 250V VDE SEMCO	FS20080200
⚠ F852		FS20080200	FUSE T800MA 250V VDE SEMCO	FS20080200
JF51		YT02020890	TERMINAL 2P CINCH PIN JACK	YT02020890
JT02		YT02010790	TERMINAL 14x14 RA 1L1P BLK AU FLM-GND	YT02010790
JT03		YJ15000210	OPT. CONNECTOR JFJ300 OUTPUT	YJ15000210
L801		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
L802		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
L803		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
LD01		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
LT01		TP41042030	PULSE TRNSF. TPS247MN-0386AN	TP41042030
LT02		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
LT03		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
LT04		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
S351		SS02021150	SLIDE SWITCH FILTER SWITCH STANDARD/CUSTOM	SS02021150
SF51		SS02021150	SLIDE SWITCH RC-5 INT/EΩ T	SS02021150
			PR16-HEADPHONE CIRCUIT BOARD	
			PR16-CAPACITORS	
C901		OA47602520	ELECT. 47 µF M 25V RA-2	OA47602520
C902		OA47602520	ELECT. 47 µF M 25V RA-2	OA47602520
C903		OA22702520	ELECT. 220 µF M 25V RA-2	OA22702520
C904		OA22702520	ELECT. 220 µF M 25V RA-2	OA22702520
C905		OA47602520	ELECT. 47 µF M 25V RA-2	OA47602520
C906		OA47602520	ELECT. 47 µF M 25V RA-2	OA47602520
			PR16-RESISTORS	
R901		nsp	1.2kΩ ±5% 1/6W	GD05122160
R902		nsp	1.2kΩ ±5% 1/6W	GD05122160
R903		nsp	33Ω ±5% 1/6W	GD05330160
R904		nsp	33Ω ±5% 1/6W	GD05330160
R905		nsp	33Ω ±5% 1/6W	GD05330160
R906		nsp	33Ω ±5% 1/6W	GD05330160
R907		nsp	1.5kΩ ±5% 1/6W	GD05152160
R908		nsp	1.5kΩ ±5% 1/6W	GD05152160
R909		nsp	1.5kΩ ±5% 1/6W	GD05152160
R910		nsp	1.5kΩ ±5% 1/6W	GD05152160

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

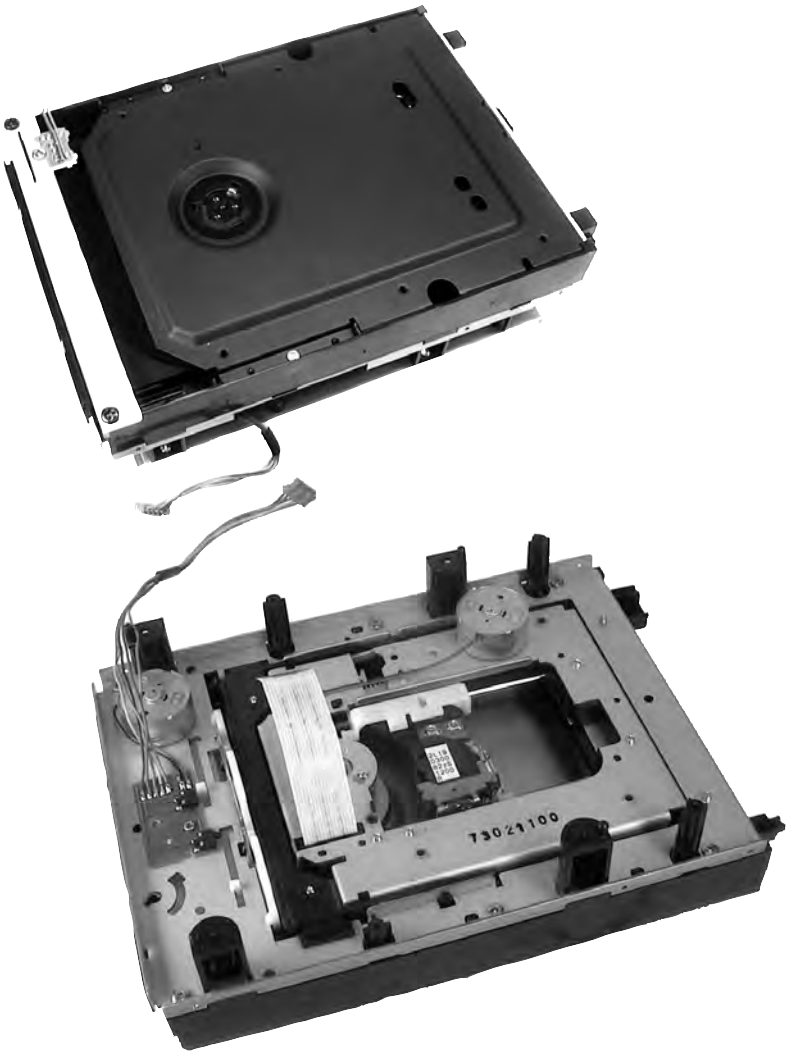
POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
R911		nsp	33Ω ±5% 1/6W	GD05330160
R912		nsp	33Ω ±5% 1/6W	GD05330160
R913		nsp	33Ω ±5% 1/6W	GD05330160
R914		nsp	33Ω ±5% 1/6W	GD05330160
R915		nsp	100kΩ ±5% 1/6W	GD05104160
R916		nsp	100kΩ ±5% 1/6W	GD05104160
R917		nsp	100Ω ±5% 1/6W	GD05101160
R918		nsp	100Ω ±5% 1/6W	GD05101160
R919		nsp	8.2kΩ ±5% 1/6W	GD05822160
R920		nsp	8.2kΩ ±5% 1/6W	GD05822160
R921		nsp	4.7kΩ ±5% 1/6W	GD05472160
R922		nsp	4.7kΩ ±5% 1/6W	GD05472160
R923		nsp	4.7kΩ ±5% 1/6W	GD05472160
R924		nsp	4.7kΩ ±5% 1/6W	GD05472160
R925		nsp	4.7kΩ ±5% 1/6W	GD05472160
R926		nsp	4.7kΩ ±5% 1/6W	GD05472160
R930		RM01031220	VARIABLE RK09L12B0 10K B D-CUT NORMAL	RM01031220
			PR16-SEMICONDUCTORS	
D901 ∫ D904		nsp	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
Q901		HC10111090	IC NJM2114D DUAL LOW NOISE OP-AMP	HC10111090
Q903		HT321201B0	TRS. 2SC2120 Y	HT321201B0
Q904		HT321201B0	TRS. 2SC2120 Y	HT321201B0
Q905		HT109501A0	TRS. 2SA950 GR OR R	HT109501A0
Q906		HT109501A0	TRS. 2SA950 GR OR R	HT109501A0
Q907		HT328782A0	TRS. 2SC2878 A OR B	HT328782A0
Q908		HT328782A0	TRS. 2SC2878 A OR B	HT328782A0
Q909		HT328782A0	TRS. 2SC2878 A OR B	HT328782A0
Q910		HT328782A0	TRS. 2SC2878 A OR B	HT328782A0
			PR16-MISCELLANEOUS	
J903		YJ01003870	H.P JACK HLJ0540-01-410 BLK	YJ01003870
L901		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
L902		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
			PY16-DISPLAY SW CIRCUIT BOARD	
			PY16-CAPACITORS	
CY01		nsp	ELECT. 47 µF M 25V RA-2	OA47602520
CY02		nsp	CER. 0.1 µF Z 50V F	DK98104200
CY03		nsp	ELECT. 47 µF M 25V RA-2	OA47602520
CY04		nsp	CER. 0.047µF Z 50V F	DK98473300
CY05		nsp	ELECT. 220 µF M 10V RA-2	OA22701020
CY06		nsp	CER. 0.1 µF Z 25V F	DK98104200
CY07		nsp	CER. 330 pF K 50V B	DK96331300
			PY16-RESISTORS	
RY01		NI05271110	CHIP 270Ω ±5% 1/10W	NI05271110
RY02		NI05271110	CHIP 270Ω ±5% 1/10W	NI05271110
RY03		NI05391110	CHIP 390Ω ±5% 1/10W	NI05391110
RY04		NI05181110	CHIP 180Ω ±5% 1/10W	NI05181110
RY05		NI05181110	CHIP 180Ω ±5% 1/10W	NI05181110
RY06		NI05151110	CHIP 150Ω ±5% 1/10W	NI05151110
RY09		NI05391110	CHIP 390Ω ±5% 1/10W	NI05391110
RY10		NI05151110	CHIP 150Ω ±5% 1/10W	NI05151110
RY13		NI05102110	CHIP 1kΩ ±5% 1/10W	NI05102110
RY14		NI05103110	CHIP 10kΩ ±5% 1/10W	NI05103110
RY15		NI05332110	CHIP 3.3kΩ ±5% 1/10W	NI05332110
RY16		NI05333110	CHIP 33kΩ ±5% 1/10W	NI05333110
RY17		NI05271110	CHIP 270Ω ±5% 1/10W	NI05271110
RY18		NI05471110	CHIP 470Ω ±5% 1/10W	NI05471110
RY22		NI05101110	CHIP 100Ω ±5% 1/10W	NI05101110
RY23		NI05102110	CHIP 1kΩ ±5% 1/10W	NI05102110
RY24		NI05681110	CHIP 680Ω ±5% 1/10W	NI05681110
RY25		NI05154110	CHIP 150kΩ ±5% 1/10W	NI05154110

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	DESCRIPTION	PART NO. (MJI)
			PY16-SEMICONDUCTORS	
DY02		HI10062320	L.E.D. LT3D8B RED 3O	HI10062320
DY07		HZ30024050	CHIP DIODE ZENER 02CZ3.9Ω	HZ30024050
QY01		HC10471260	IC FL DRIVER ML9207-01	HC10471260
QY02		HX327121A0	CHIP TR. 2SC2712 G PKG TE85L	HX327121A0
QY03		BA10006050	DIG. TRS. RN2402 CHIP	BA10006050
QY04		BA10006050	DIG. TRS. RN2402 CHIP	BA10006050
QY05		BA10006050	DIG. TRS. RN2402 CHIP	BA10006050
			PY16-MISCELLANEOUS	
LY01		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
LY02		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
LY03		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
LY04		FC90050130	FERRITE BEAD BL02RN2-R62T2	FC90050130
SY01 ∫ SY10		SP01013310	PUSH SWITCH SKQNAE H/5MM 160GF	SP01013310
VX01		HQ31302920	DISPLAY UNIT VFD CH2099C NORITAKE	HQ31302920
XY01		FQ04004030	CERAMIC VIB. CERALOCK CST4.00MGW	FQ04004030
ZY01		HW10004210	PHOTO UNIT RPM6936-V4 IR SENSOR	HW10004210
			PY26-ILMINATION CIRCUIT BOARD	
CY10		nsp	CER. 0.1µF GRM39F104Z16	DK98104200
DY01		HI10162320	L.E.D. GL3BC802B0SC B-TAPING	HI10162320
RY27		NI05103110	CHIP 10kΩ ±5% 1/10W	NI05103110

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

Mecha Loader and Mecha Traverse

Super Audio CD Player : SA8400



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2.1 EXPLODED VIEW AND PARTS LIST

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
1		nsp	nsp	CHASSIS	MAIN CHASSIS ASSY	9KC 1A01 7
2		13AK160210	13AK160210	BRAKET	CLAMPER BRACKET	9KA 7P08 5
3		nsp	nsp	BRAKET	GUIDE CLAMP BRACKET	9KA 2P84 1
4		*MM001290R	*MM001290R	MOTOR	LOADING MOTOR ASSY	9KC 2A00 3
5		13AK058230	13AK058230	GEAR	LOADING GEAR	9KC 2G02 9
6		13AK058210	13AK058210	GEAR	LOADING GEAR 2ND	9KB 9G03 0
7		13AK058220	13AK058220	GEAR	LOADING GEAR 3RD	9KB 9G03 1
8		13AK105210	13AK105210	CHASSIS	SUB CHASSIS-L	9KA 2G41 7
9		13AK105220	13AK105220	CHASSIS	SUB CHASSIS-R	9KA 2G41 8
10		13AK163210	13AK163210	TRAY	TRAY-D4	9KA 2G778
11		13AK054210	13AK054210	CAM	SLIDE-CAM	9KC 1G00 3
12		13AK002210	13AK002210	ARM	TRAVERSE ARM	9KC 1G00 4
14		13AK005210	13AK005210	CLAMPER	CLAMPER H	9KA 7G20 2
15		13AK005220	13AK005220	CLAMPER	CLAMPER L	9KA 7G20 3
16		13AK264210	13AK264210	BELT	LOADING BELT	9KB 9G01 5
17		nsp	nsp	PCB ASSY	SWITCH P.W.B.	9KC 1P01 4
18		nsp	nsp	CORD	5P PH WIRE	9KC 2G04 3
19		*SP001260R	*SP001260R	SWITCH	SWITCH ESE22MH21	9KS 01W2 04
20		*SP001270R	*SP001270R	SWITCH	SWITCH ESE22MH23	9KS 01W2 05
21		13AK012210	13AK012210	WASHER	POLY.SLIT WASHER 2.6X6X0.25C	9KP 26C6 25
22		nsp	nsp	CLAMPER	WIRE CLAMPER	445 8004 007
23		nsp	nsp	SCREW	PRECISION SCREW 1.7X2.2 TYPE3	9KS 17N0 22
24		nsp	nsp	SCREW	SCREW 2.6X6 CBTS(B)-Z	9KB 26BK 06
25		nsp	nsp	SCREW	PRECISION SCREW 2X3(S) TYPE3	9KS 20TK 33
26		nsp	nsp	SCREW	SCREW 2X6 CBTS(P)-Z	9KB 20PK 06
27A		13AK304210	13AK304210	MECHA TRAVERSE	TRAVERSE MECHA (FEED) ASSY	9KC 2A06 3A
27		nsp	nsp	CHASSIS	PU CHASSIS ASSY	-
28		nsp	nsp	HOLDER	SHAFT HOLDER L	-
29		nsp	nsp	HOLDER	SHAFT HOLDER R	-
30		nsp	nsp	BRAKET	SHAFT TILT BASE	-
31		nsp	nsp	RETAINER	SHAFT TILT PLATE	-
32		nsp	nsp	SPRING	TILT SPRING	-
33		nsp	nsp	SHAFT	MAIN SHAFT	-
34		nsp	nsp	SHAFT	SUB SHAFT	-
35		nsp	nsp	GEAR	PU RACK GEAR	-
36		nsp	nsp	GEAR	FEED GEAR 2ND ASSY	-
37		nsp	nsp	MECHANISM	PICK UP HOP-1200R	-
38		nsp	nsp	SPRING	PU SPRING	-
39		nsp	nsp	SPRING	SHAFT SPRING	-
40		nsp	nsp	SPRING	RACK GEAR SPRING	-
41		nsp	nsp	MOTOR	FEED MOTOR ASSY	-
42		nsp	nsp	MOTOR	T/T MOTOR ASSY	-
43		nsp	nsp	SCREW	SCREW 2.6X6 CBTS(S)-Z	-
44		nsp	nsp	SCREW	SCREW 2.6X4 CBTS(S)-Z	-
46		nsp	nsp	SCREW	SCREW 2.6X15 CFTS(S)-Z	-
47		nsp	nsp	SCREW	SCREW 3X4 BSS	-
48		nsp	nsp	SCREW	SCREW 3X8 BSS (A)	-
49		13AK130210	13AK130210	DAMPER	DAMPER-SI25-LB	9KA 2G643
50		nsp	nsp	WASHER	POLY.SLIT WASHER 2.1X4X0.25C	-
51		nsp	nsp	SCREW	SPECIAL SCREW (FRONT)	-
52		nsp	nsp	SCREW	SPECIAL SCREW (REAR)	-
54		13AK116210	13AK116210	LEAF SPRING	TRAY-SPRING-VXF	9KB 7P02 4
53		nsp	nsp	GEAR	FEED GEAR 3RD	-
60		13AK104210	13AK104210	RETAINER	PLATE-RE-2HPC	9KC 2P03 1
61		13AK104220	13AK104220	RETAINER	WF-PLATE-RE-2HPC	9KC 2P03 2
62		nsp	nsp	SCREW	PRECISION SCREW 2X4(P) TYPE1	9KS 20P1 04

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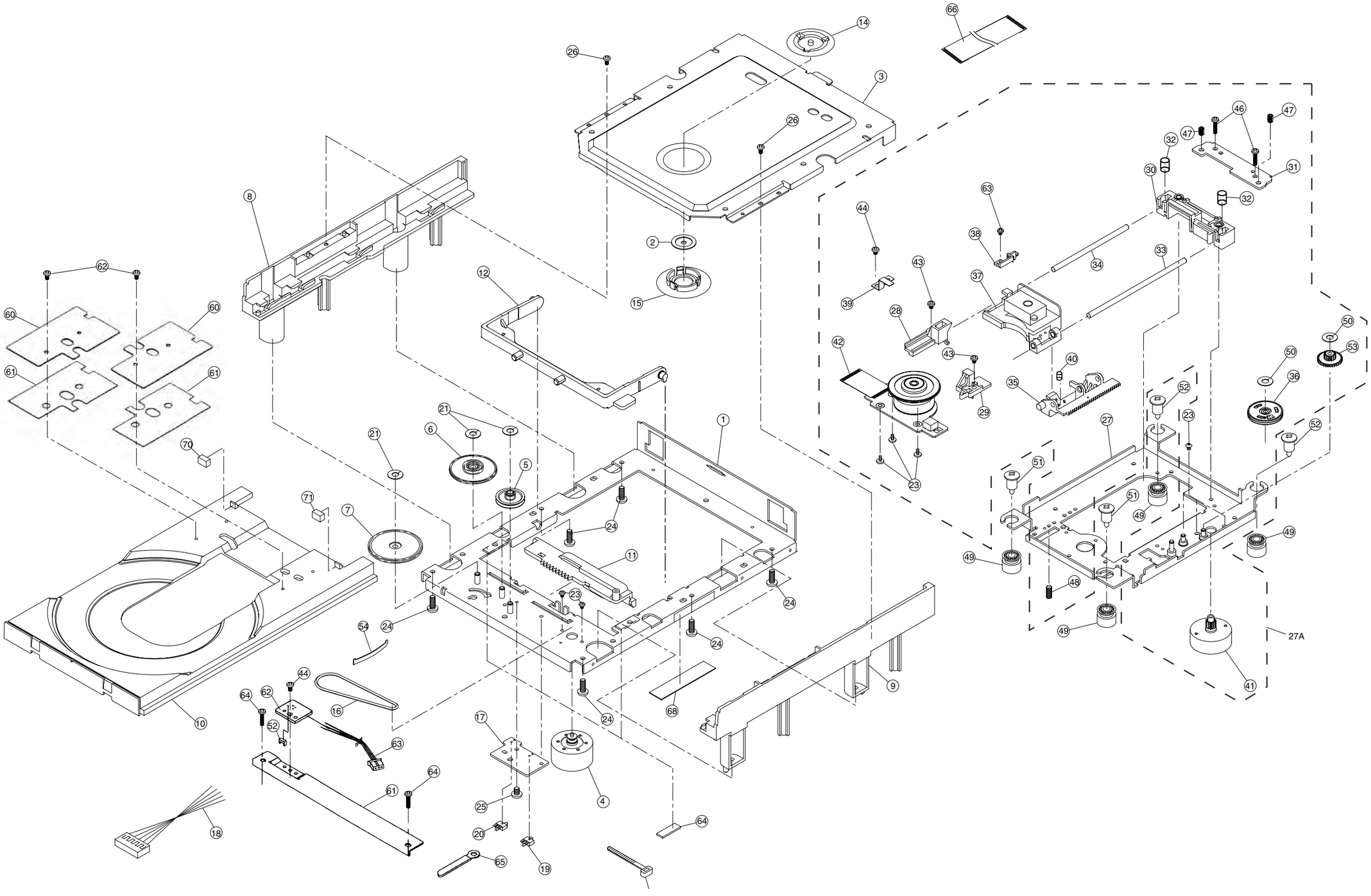
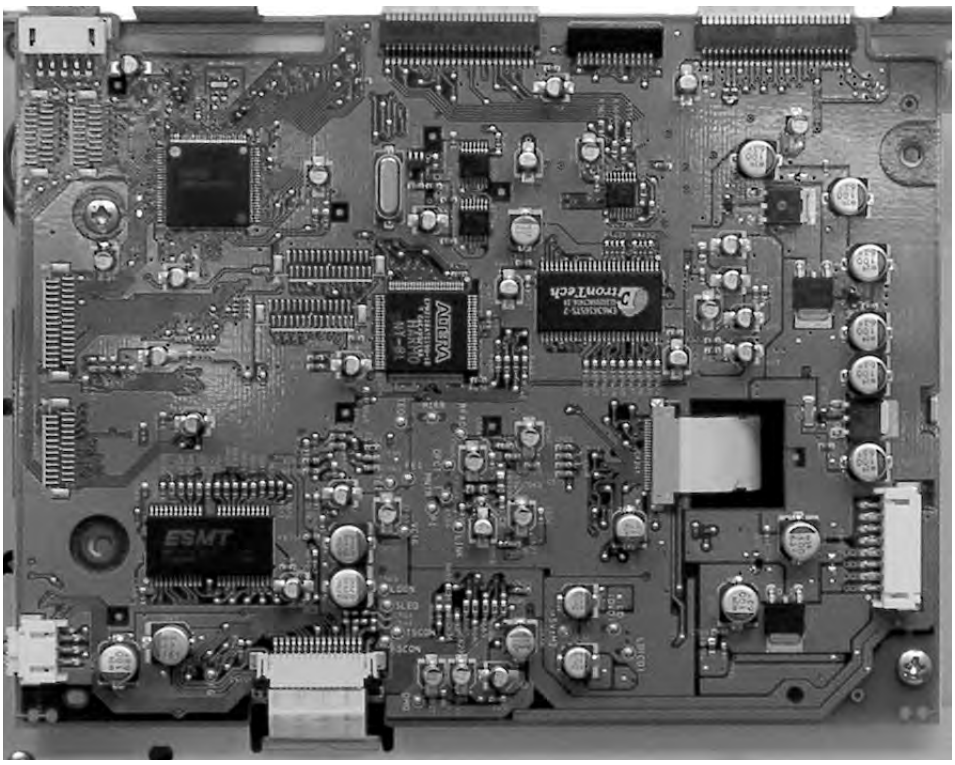
POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION		
63		nsp	nsp	SCREW	PRECISION SCREW 1.7X5 TYPE3	-
64		nsp	nsp	CUSHION	RUBBER CUSHION	9KC 1G04 2
66		*YU001350R	*YU001350R	FFC	FFC-0.5-24 L=80	9KA 2P70 6
68		nsp	nsp	TAPE	TAPE W10X45 (NITTO NO.156)	-
70		nsp	nsp	CUSHION	CUSHION L 6X3Xt4	9KC 2G07 6
71		nsp	nsp	CUSHION	CUSHION R 6X3Xt2	9KC 2G07 7

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



Super Audio CD PCB Module

Super Audio CD Player : SA8400



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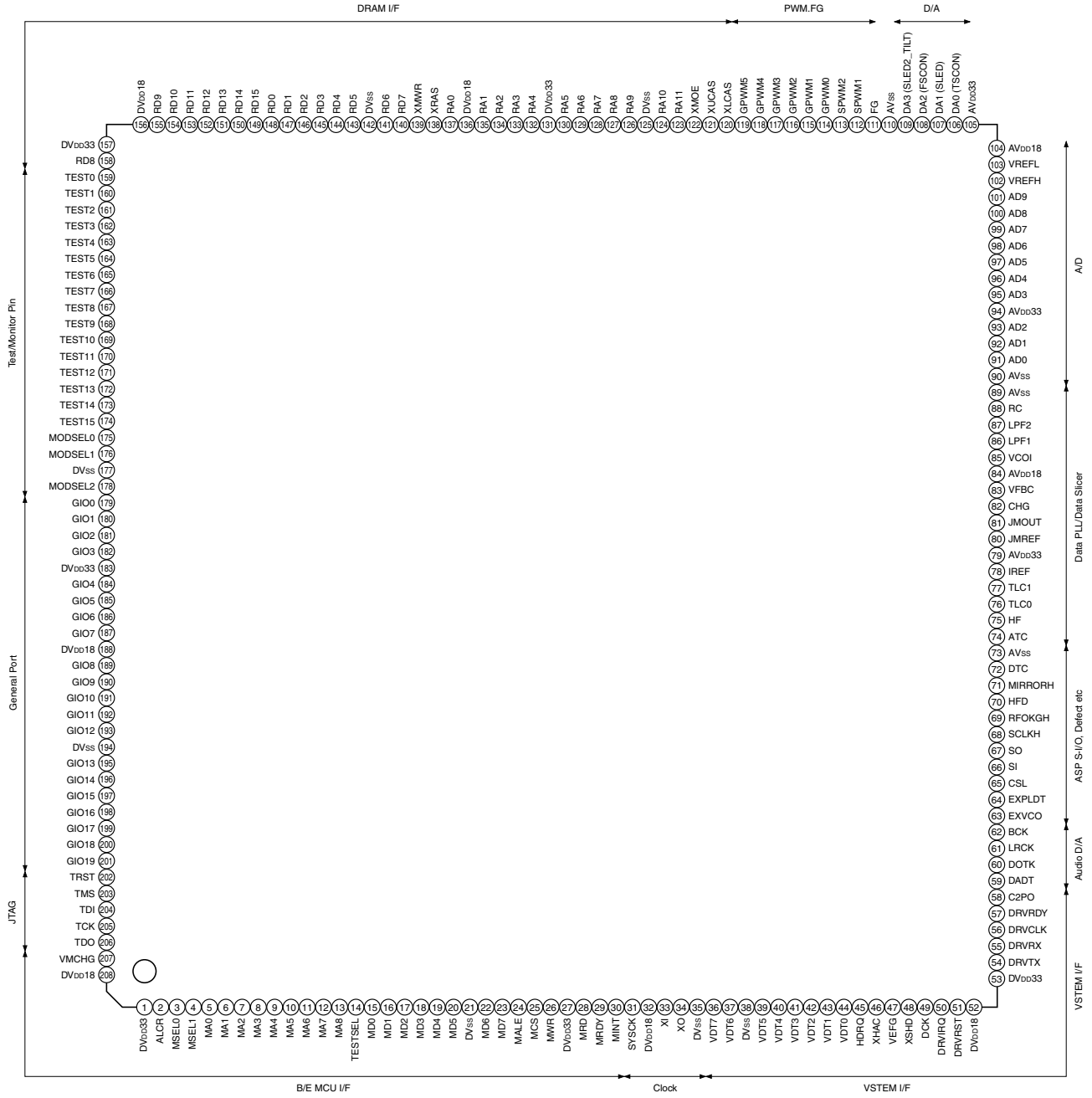
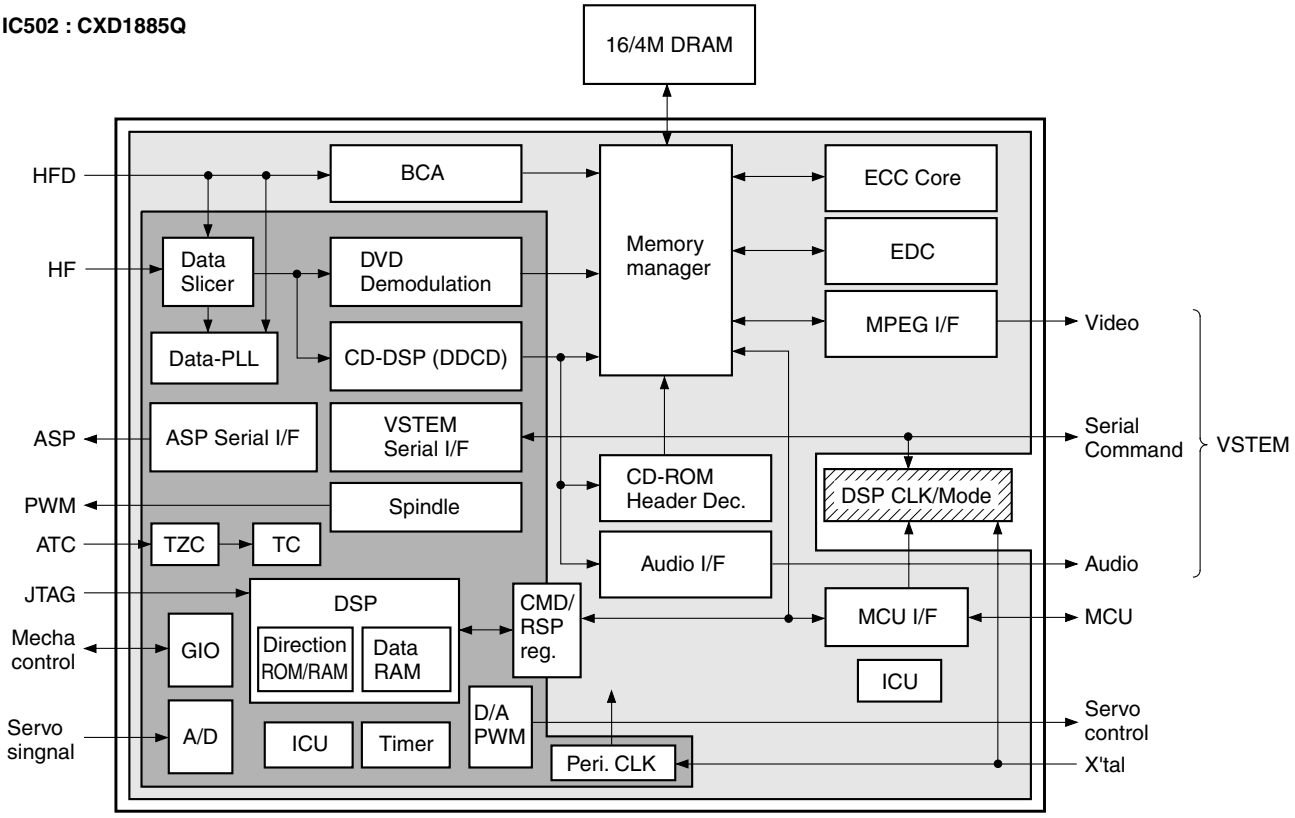
3.1 IC DATDA

IC502 : CXD1885Q



IC502 : CXD1885Q



(A/D : Analog/Digital, PU : Pull-up, PD : Pull-down, SMT=Schumitt)

No.	Terminal Name	I/O	A/D	Classification	Function	PU	PD	SMT
1	DVDD33	P		VDD & GND	Digital 3.3V Power for I/O.			
2	ALCR	I	D	MCU I/F	Chip select input. (L: Reset)	*		*
3	MSEL0	I	D	MCU I/F	MCU I/F mode select 0.			*
4	MSEL1	I	D	MCU I/F	MCU I/F mode select 1.			*
5	MA0	I/O	D	MCU I/F	MCU Address input 0 / data I/O 0 <LSB>.			*
6	MA1	I/O	D	MCU I/F	MCU Address input 1 / data I/O 1.			*
7	MA2	I/O	D	MCU I/F	MCU Address input 2 / data I/O 2.			*
8	MA3	I/O	D	MCU I/F	MCU Address input 3 / data I/O 3.			*
9	MA4	I/O	D	MCU I/F	MCU Address input 4 / data I/O 4.			*
10	MA5	I/O	D	MCU I/F	MCU Address input 5 / data I/O 5.			*
11	MA6	I/O	D	MCU I/F	MCU Address input 6 / data I/O 6.			*
12	MA7	I/O	D	MCU I/F	MCU Address input 7 / data I/O 7.			*
13	MA8	I	D	MCU I/F	MCU Address input 8 <MSB>.			*
14	TESTSEL	I	D	MCU I/F	TEST Select input.			*
15	MD0	I/O	D	MCU I/F	MCU data I/O 0 <LSB>.			*
16	MD1	I/O	D	MCU I/F	MCU data I/O 1.			*
17	MD2	I/O	D	MCU I/F	MCU data I/O 2.			*
18	MD3	I/O	D	MCU I/F	MCU data I/O 3.			*
19	MD4	I/O	D	MCU I/F	MCU data I/O 4.			*
20	MD5	I/O	D	MCU I/F	MCU data I/O 5.			*
21	DVSS	P		VDD & GND	Digital Ground.			
22	MD6	I/O	D	MCU I/F	MCU data I/O 6.			*
23	MD7	I/O	D	MCU I/F	MCU data I/O 7 <MSB>.			*
24	MALE	I	D	MCU I/F	MCU Address latch signal input.			*
25	MCS	I	D	MCU I/F	MCU Chip Select signal input.			*
26	MWR	I	D	MCU I/F	MCU Write strobe signal.			*
27	DVDD33	P		VDD & GND	digital 3.3V Power. (for I/O)			
28	MRD	I	D	MCU I/F	MCU Read Strobe signal.			*
29	MRDY	O	D	MCU I/F	MCU Ready signal. (L: Wait)			
30	MINT	O	D	MCU I/F	MCU Interrupt signal. (L: Interrupt request)			
31	SYSCK	O	D	Clock	Clock Monitor output.			
32	DVDD18	P		VDD & GND	Digital 1.8V Power. (Internal logic system power)			
33	XI	I	D	Clock	Crystal oscillation input.			
34	XO	O	D	Clock	Crystal oscillation output.			
35	DVSS	P		VDD & GND	Digital Ground.			
36	VDT7	O	D	VSTEM A/V	MPEG data output 7.			
37	VTD6	O	D	VSTEM A/V	MPEG data output 6.			

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No.	Terminal Name	I/O	A/D	Classification	Function	PU	PD	SMT
38	DVSS	P		VDD & GND	Digital Ground.			
39	VDT5	O	D	VSTEM A/V	MPEG data output 5.			
40	VDT4	O	D	VSTEM A/V	MPEG data output 4.			
41	VDT3	O	D	VSTEM A/V	MPEG data output 3.			
42	VDT2	O	D	VSTEM A/V	MPEG data output 2.			
43	VDT1	O	D	VSTEM A/V	MPEG data output 1.			
44	VDT0	O	D	VSTEM A/V	MPEG data output 0.			
45	HDRQ	I	D	VSTEM A/V	MPEG data Request input.	*		
46	XHAC	O	D	VSTEM A/V	Data Valid output.			
47	VEFG	O	D	VSTEM A/V	ECC Error-sector Flag output. (L: error sector)			
48	XSHD	O	D	VSTEM A/V	DVD Sector Head Flag output.			
49	DCK	O	D	VSTEM A/V	Data Strobe output.			
50	DRVIRQ	O	D	VSTEM Command	Interrupt Request output for Host. (L: interruption is demanded)			
51	DRVRST	I	D	VSTEM Command	Drive H/W Reset input. (L: reset)	*		*
52	DVDD18	P		VDD & GND	Digital 1.8V power for Internal logic system.			
53	DVDD33	P		VDD & GND	Digital 3.3V Power for I/O.			
54	DRVTX	O	D	VSTEM Command	Transmitting serial data output to Host.			
55	DRVRX	I	D	VSTEM Command	Reception serial data input from Host.			
56	DRVCLK	I	D	VSTEM Command	Clock input from Host.			*
57	DRVRDY	O	D	VSTEM Command	Drive Ready signal output. (L: ready)			
58	C2PO	O	D	Audio I/F	CD-DSP C2 Pointer output.			
59	DADT	O	D	Audio I/F	Audio serial data output.			
60	DOTX	O	D	Audio I/F	Digital audio output.			
61	LRCK	O	D	Audio I/F	L/R Clock output.			
62	BCK	O	D	Audio I/F	Audio Bit Clock output.			
63	EXVCO	I	D	TEST/Monitor	External Channel clock input.			
64	EXPLDT	I	D	TEST/Monitor	External RF data input. (Logic level)			
65	CSL	O	D	ASP I/F	SIO for RF signal processing LSI control. Latch signal output.			
66	SI	I	D	ASP I/F	SIO for RF signal processing LSI control. Serial data input.			
67	SO	O	D	ASP I/F	SIO for RF signal processing LSI control. Serial data output.			
68	SCLKH	O	D	ASP I/F	SIO for RF signal processing LSI control. Serial clock output.			
69	RFOKGH	I	D	ASP I/F	RF O.K. Signal input.			*
70	HFD	I	D	ASP I/F	RF lack Signal input.			*
71	MIRRORH	I	D	ASP I/F	Mirror detected signal input.(H: Mirror detected)			*
72	DTC	I	D	ASP I/F	Track cross signal input. (Logic level input)			*
73	AVSS	P		VDD & GND	Analog Ground.			
74	ATC	I	A	Data PLL	Track Cross signal input. (Analog level input)			
75	HF	I	A	Data PLL	RF signal input.			
76	TLC0	O	A	Data PLL	Asymmetry Charge-pump output 0.			
77	TLC1	O	A	Data PLL	Asymmetry Charge-pump output 1			
78	IREF	I	A	Data PLL	Reference current setting terminal for Asymmetry Circuit.			
79	AVDD33	P		VDD & GND	Analog 3.3V Power.			
80	JMREF	I	A	Data PLL	Reference current setting terminal for Jitter Monitor			
81	JMOUT	O	A	Data PLL	Jitter Monitor output.			
82	CHG	I	A	Data PLL	Reference current setting terminal for data PLL.			
83	VFBC	I	A	Data PLL	VCO offset frequency setting terminal for data PLL.			
84	AVDD18	P		VDD & GND	Analog 1.8V Power.			
85	VCOI	I	A	Data PLL	VCO Control voltage input terminal for data PLL.			
86	LPF1	O	A	Data PLL	VCO Loop-filter connection terminal 1 for data PLL.			
87	LPF2	O	A	Data PLL	VCO Loop-filter connection terminal 2 for data PLL			
88	RC	I	A	Data PLL	VCO gain setting terminal for data PLL.			
89	AVSS	P		VDD & GND	Analog Ground.			
90	AVSS	P		VDD & GND	Analog Ground.			
91	AD0	I	A	ADC	AD0 Input.			
92	AD1	I	A	ADC	AD1 Input.			
93	AD2	I	A	ADC	AD2 Input.			
94	AVDD33	P		VDD & GND	Analog 3.3V Power.			
95	AD3	I	A	ADC	AD3 Input.			
96	AD4	I	A	ADC	AD4 Input.			
97	AD5	I	A	ADC	AD5 Input.			
98	AD6	I	A	ADC	AD6 Input.			
99	AD7	I	A	ADC	AD7 Input.			
100	AD8	I	A	ADC	AD8 Input.			
101	AD9	I	A	ADC	AD9 Input.			

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No.	Terminal Name	I/O	A/D	Classification	Function	PU	PD	SMT
102	VREFH	I/O	A	ADC	Max Reference Voltage input for ADC. (Internal Reference Voltage mode, it will be an output state)			
103	VREFL	I/O	A	ADC	Min Reference Voltage input for ADC. (Internal Reference Voltage mode, it will be an output state)			
104	AVDD18	P		VDD & GND	Analog 1.8V Power.			
105	AVDD33	P		VDD & GND	Analog 3.3V Power.			
106	DA0 (TSCON)	O	A	DAC	DA0 output. (Track Servo output)			
107	DA1 (SLED)	O	A	DAC	DA1 output. (Sled Servo output)			
108	DA2 (FSCON)	O	A	DAC	DA2 output. (Focus Servo output)			
109	DA3 (SLED2_TILT	O	A	DAC	DA3 output. (Sled Servo / Tilt Servo output)			
110	AVSS	P		VDD & GND	Analog Ground			
111	FG	I	D	SPM	FG signal input.			*
112	SPWM1	O	D	SPM	Spindle motor PWM output 1.			
113	SPWM2	O	D	SPM	Spindle motor PWM output 2.			
114	GPWM0	O	D	General PWM	Multi-purpose PWM output 0.			
115	GPWM1	O	D	General PWM	Multi-purpose PWM output 1.			
116	GPWM2	O	D	General PWM	Multi-purpose PWM output 2.			
117	GPWM3	O	D	General PWM	Multi-purpose PWM output 3.			
118	GPWM4	O	D	General PWM	Multi-purpose PWM output 4.			
119	GPWM5	O	D	General PWM	Multi-purpose PWM output 5.			
120	XLCAS	O	D	DRAM I/F	DRAM LCAS output. (Low-Byte row address strobe output)			
121	XUCAS	O	D	DRAM I/F	DRAM UCAS output. (Upper-Byte row address strobe output)			
122	XMOE	O	D	DRAM I/F	DRAM output enable.			
123	RA11	O	D	DRAM I/F	DRAM address output terminal 11.			
124	RA10	O	D	DRAM I/F	DRAM address output terminal 10.			
125	DVSS	P		VDD & GND	Digital Ground.			
126	RA9	O	D	DRAM I/F	DRAM address output terminal 9.			
127	RA8	O	D	DRAM I/F	DRAM address output terminal 8.			
128	RA7	O	D	DRAM I/F	DRAM address output terminal 7.			
129	RA6	O	D	DRAM I/F	DRAM address output terminal 6.			
130	RA5	O	D	DRAM I/F	DRAM address output terminal 5.			
131	DVDD33	P		VDD & GND	Digital 3.3V Power. (for I/O)			
132	RA4	O	D	DRAM I/F	DRAM address output terminal 4.			
133	RA3	O	D	DRAM I/F	DRAM address output terminal 3.			
134	RA2	O	D	DRAM I/F	DRAM address output terminal 2.			
135	RA1	O	D	DRAM I/F	DRAM address output terminal 1.			
136	DVDD18	P		VDD & GND	Digital 1.8V Power. (for Internal Logic power)			
137	RA0	O	D	DRAM I/F	DRAM address output terminal 0.			
138	XRAS	O	D	DRAM I/F	DRAM RAS output. (Column address strobe output)			
139	XMWR	O	D	DRAM I/F	DRAM Write enable.			
140	RD7	I/O	D	DRAM I/F	DRAM data input/output terminal 7.	*		
141	RD6	I/O	D	DRAM I/F	DRAM data input/output terminal 6.	*		
142	DVSS	P		VDD & GND	Digital Ground.			
143	RD5	I/O	D	DRAM I/F	DRAM data input/output terminal 5.	*		
144	RD4	I/O	D	DRAM I/F	DRAM data input/output terminal 4.	*		
145	RD3	I/O	D	DRAM I/F	DRAM data input/output terminal 3.	*		
146	RD2	I/O	D	DRAM I/F	DRAM data input/output terminal 2.	*		
147	RD1	I/O	D	DRAM I/F	DRAM data input/output terminal 1.	*		
148	RD0	I/O	D	DRAM I/F	DRAM data input/output terminal 0.	*		
149	RD15	I/O	D	DRAM I/F	DRAM data input/output terminal 15.	*		
150	RD14	I/O	D	DRAM I/F	DRAM data input/output terminal 14.	*		
151	RD13	I/O	D	DRAM I/F	DRAM data input/output terminal 13.	*		
152	RD12	I/O	D	DRAM I/F	DRAM data input/output terminal 12.	*		
153	RD11	I/O	D	DRAM I/F	DRAM data input/output terminal 11.	*		
154	RD10	I/O	D	DRAM I/F	DRAM data input/output terminal 10.	*		
155	RD9	I/O	D	DRAM I/F	DRAM data input/output terminal 9.	*		
156	DVDD18	P		VDD & GND	Digital 1.8V Power. (for internal Logic system)			
157	DVDD33	P		VDD & GND	Digital 3.3V power for I/O.			
158	RD8	I/O	D	DRAM I/F	DRAM data input/output terminal 8.	*		
159	TEST0	O	D	TEST/Monitor	TEST I/O 0.			
160	TEST1	O	D	TEST/Monitor	TEST I/O 1.			
161	TEST2	O	D	TEST/Monitor	TEST I/O 2.			
162	TEST3	O	D	TEST/Monitor	TEST I/O 3.			
163	TEST4	O	D	TEST/Monitor	TEST I/O 4.			

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No.	Terminal Name	I/O	A/D	Classification	Function	PU	PD	SMT
164	TEST5	O	D	TEST/Monitor	TEST I/O 5.			
165	TEST6	O	D	TEST/Monitor	TEST I/O 6.			
166	TEST7	O	D	TEST/Monitor	TEST I/O 7.			
167	TEST8	O	D	TEST/Monitor	TEST I/O 8.			
168	TEST9	O	D	TEST/Monitor	TEST I/O 9.			
169	TEST10	O	D	TEST/Monitor	TEST I/O 10.			
170	TEST11	O	D	TEST/Monitor	TEST I/O 11.			
171	TEST12	O	D	TEST/Monitor	TEST I/O 12.			
172	TEST13	O	D	TEST/Monitor	TEST I/O 13.			
173	TEST14	O	D	TEST/Monitor	TEST I/O 14.			
174	TEST15	O	D	TEST/Monitor	TEST I/O 15.			
175	MODSEL0	I	D	TEST/Monitor	TEST mode select 0. (GND, under normal conditions)			
176	MODSEL1	I	D	TEST/Monitor	TEST mode select 1. (GND, under normal conditions)			
177	DVSS	P		VDD & GND	Digital Ground.			
178	MODSEL2	I	D	TEST/Monitor	TEST mode select 2. (GND, under normal conditions)			
179	GIO0	I/O	D	Multi-purpose	Multi-purpose port 0.		*	*
180	GIO1	I/O	D	Multi-purpose	Multi-purpose port 1.		*	*
181	GIO2	I/O	D	Multi-purpose	Multi-purpose port 2.		*	*
182	GIO3	I/O	D	Multi-purpose	Multi-purpose port 3.		*	*
183	DVDD33	P		VDD & GND	Digital 3.3V Power for I/O.			
184	GIO4	I/O	D	General Port	Multi-purpose port 4.		*	*
185	GIO5	I/O	D	General Port	Multi-purpose port 5.		*	*
186	GIO6	I/O	D	General Port	Multi-purpose port 6.		*	*
187	GIO7	I/O	D	General Port	Multi-purpose port 7.		*	*
188	DVDD18	P		VDD & GND	Digital 1.8V Power for I/O. (for internal Logic system)			
189	GIO8	I/O	D	General Port	Multi-purpose port 8.		*	*
190	GIO9	I/O	D	General Port	Multi-purpose port 9.	*	*	*
191	GIO10	I/O	D	General Port	Multi-purpose port 10.		*	*
192	GIO11	I/O	D	General Port	Multi-purpose port 11.		*	*
193	GIO12	I/O	D	General Port	Multi-purpose port 12.	*	*	*
194	DVSS	P		VDD & GND	Digital Ground.			
195	GIO13	I/O	D	Multi-purpose	Multi-purpose port 13.	*	*	*
196	GIO14	I/O	D	General Port	Multi-purpose port 14.	*	*	*
197	GIO15	I/O	D	General Port	Multi-purpose port 15.	*	*	*
198	GIO16	I/O	D	General Port	Multi-purpose port 16.		*	*
199	GIO17	I/O	D	General Port	Multi-purpose port 17.		*	*
200	GIO18	I/O	D	General Port	Multi-purpose port 18.		*	*
201	GIO19	I/O	D	General Port	Multi-purpose port 19.		*	*
202	TRST	I	D	JTAG I/F	JTAG Reset input.		*	*
203	TMS	I	D	JTAG I/F	JTAG Mode Select input.	*		*
204	TDI	I	D	JTAG I/F	JTAG Data Input.	*		*
205	TCK	I	D	JTAG I/F	JTAG Clock input.	*		
206	TDO	O	D	JTAG I/F	JTAG Data output.			
207	VMCHG	I	D	MCU I/F	VSTEM / external MCU access selection terminal of system setting register for DSP. (L: VSTEM, H: external MCU)			
208	DVDD18	P		VDD & GND	Digital 1.8V power for internal Logic system.			

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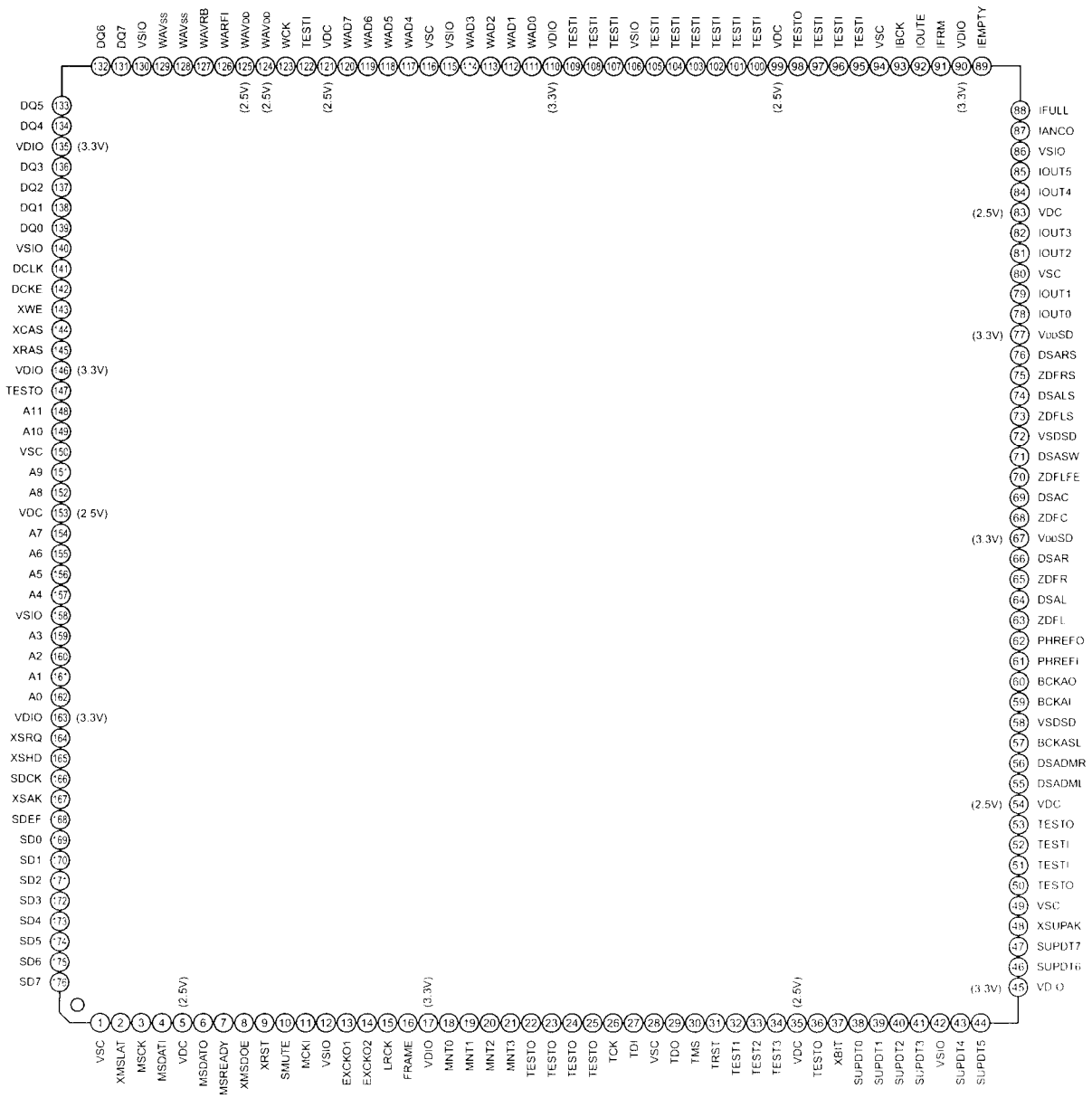
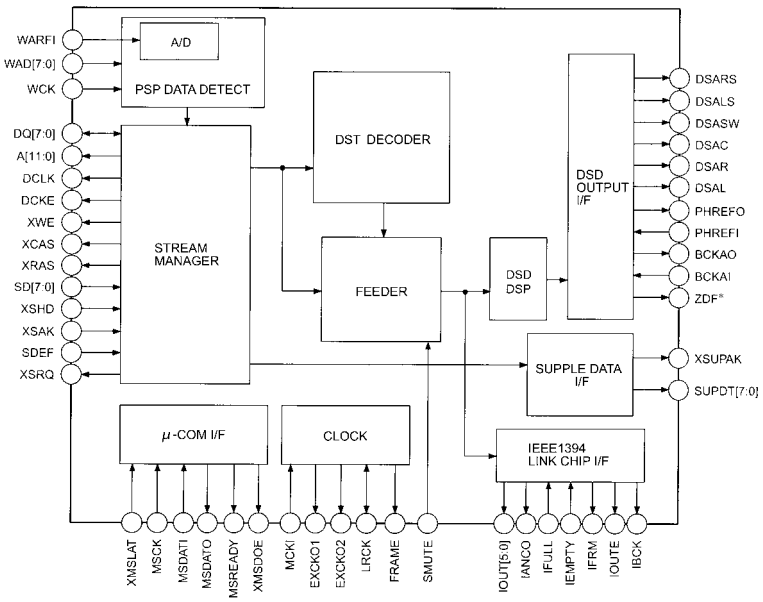




IC401 : CXD2753R

No.	Pin Name	I/O	Functions
1	VSC	-	It fixed to ground.(for Core)
2	XMSLAT	I	Latch input for mCOM serial communication.
3	MSCK	I	Shift clock input for mCOM serial communication.
4	MSDATI	I	Data input for mCOM serial communication.
5	VDC	-	+2.5V Power for Core.
6	MSDATO	O	Data output for mCOM serial communication. "Hi-Z" potential except the output mode.
7	MSREADY	O	Completion flag of output preparation for mCOM serial communication. "L" is outputted at the time of completion.
8	XMSDOE	O	Output enable pin for mCOM serial communication. "L" is outputted at the time of MSDATO mode.
9	XRST	I	Reset pin. The whole IC is reset by at the time of "L" potential.
10	SMUTE	Ipd	Soft Mute. Soft mute of the audio output is carried out at the time of "H" potential.It releases at the time of "L" potential.
11	MCKI	I	Master Clock input.
12	VSIO	-	It fixed to Ground. Ground for I/O.
13	EXCKO1	O	External output Clock 1.
14	EXCKO2	O	External output Clock 2.
15	LRCK	O	44.1kHz, 1Fs Clock output.
16	FRAME	O	Frame signal output.
17	VDIO	-	+3.3V Power for I/O.
18	MNT0	O	Monitor output.
19	MNT1	O	Monitor output.
20	MNT2	O	Monitor output.
21	MNT3	O	Monitor output.
22	TESTO	O	Output terminal for a Test. (open)
23	TESTO	O	Output terminal for a Test.(open)
24	TESTO	O	Output terminal for a Test.(open)
25	TESTO	O	Output terminal for a Test.(open)
26	TCK	I	Clock input for a Test. It fixed to "L" potential.
27	TDI	Ipu	Input pin(pull-up) for a Test.(open)
28	VSC	-	It fixed to Ground. Ground for CORE.
29	TDO	O	Output for a Test.(open).
30	TMS	Ipu	Input pin(pull-up) for a Test.(open)
31	TRST	Ipu	Reset pin(pull-up) for a Test. Input the Power-on reset signal or fixed to "L" potential.
32	TEST1	I	Test input pin. It fixed to "L" potential.
33	TEST2	I	Test input pin. It fixed to "L" potential.
34	TEST3	I	Test input pin. It fixed to "L" potential.
35	VDC	-	+2.5V Power for CORE.
36	TESTO	O	Out put for TEST. It fixed to open.
37	XBIT	O	DST monitor.
38	SUPDT0	O	Supplementary data output. (LSB)
39	SUPDT1	O	Supplementary data output.
40	SUPDT2	O	Supplementary data output.
41	SUPDT3	O	Supplementary data output.
42	VSIO	-	Ground for I/O.
43	SUPDT4	O	Supplementary data output.
44	SUPDT5	O	Supplementary data output.
45	VDIO	-	+3.3V Power for I/O.
46	SUPDT6	O	Supplementary data output.
47	SUPDT7	O	Supplementary data output. (MSB)
48	XSUPAK	O	Supplementary data Acknowledge output terminal.
49	VSC	-	Ground for CORE.
50	TESTO	O	Output for TEST. (open)
51	TESTI	I	Input for TEST. It fixed to "L" potential.
52	TESTI	I	Input for TEST. It fixed to "L" potential.
53	TESTO	O	Output for TEST. (open)
54	VDC	-	+2.5V Power for CORE.
55	DSADML	O	DSD Data output terminal for Lch Down Mix.
56	DSADMR	O	DSD Data output terminal for Rch Down Mix.
57	BCKASL	I	I/O selection terminal of the Bit clock for DSD data output. L=input (Slave), H=output (Master)
58	VSDSD	-	Ground terminal for DSD data output.
59	BCKAI	I	Bit clock input terminal for DSD data output. Input a Bit clock into this terminal at the time of BCKASL="L" potential.
60	BCKAO	O	Bit clock output terminal for DSD data output. Bit clock output from this terminal at the time of BCKASL="H" potential.
61	PHREFI	I	Reference phase signal input terminal for DSD output phase modulation.
62	PHREFO	O	Reference phase signal output terminal for DSD output phase modulation.

IC401 : CXD2753R

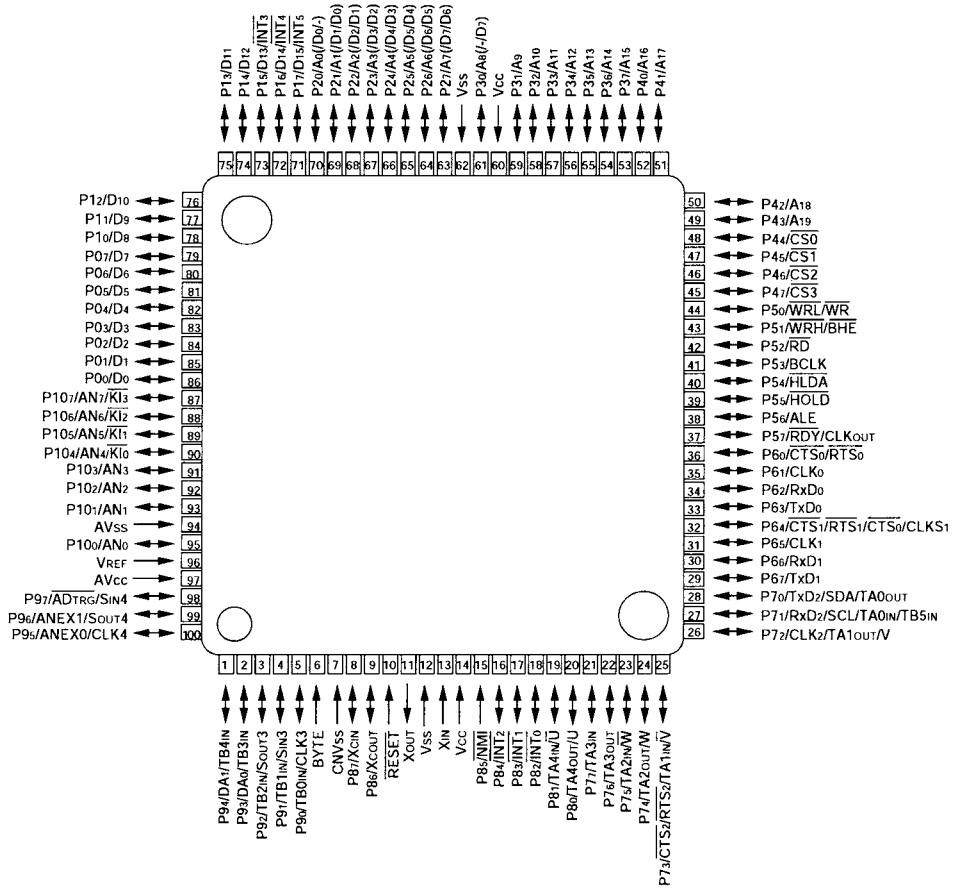
No.	Pin Name	I/O	Functions
63	ZDFL	O	Lch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.
64	DSAL	O	DSD data output terminal for Lch speaker.
65	ZDFR	O	Rch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.
66	DSAR	O	DSD data output terminal for Rch speaker.
67	VDDSD	-	+3.3V Power for DSD data output.
68	ZDFC	O	Cch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.
69	DSAC	O	DSD data output terminal for Cch speaker.
70	ZDFLFE	O	LFEch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.
71	DSASW	O	DSD data output terminal for SWch speaker.
72	VSDSD	-	Ground for DSD data output.
73	ZDFLS	O	LSch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.
74	DSALS	O	DSD data output terminal for LSch speaker.
75	ZDFRS	O	RSch zero-data detection flag (at the time of mcom setup). It will be set to "H" if non-sound data continues 300 msecs.
76	DSARS	O	DSD data output terminal for RSch speaker.
77	VDDSD	O	+3.3V Power for DSD data output.
78	IOUT0	O	Data output terminal 0 for IEEE1394 link chip I/F.
79	IOUT1	O	Data output terminal 1 for IEEE1394 link chip I/F.
80	VSC	-	Ground for CORE.
81	IOUT2	O	Data output terminal 2 for IEEE1394 link chip I/F.
82	IOUT3	O	Data output terminal 3 for IEEE1394 link chip I/F.
83	VDC	-	+2.5V Power for CORE.
84	IOUT4	O	Data output terminal 4 for IEEE1394 link chip I/F.
85	IOUT5	O	Data output terminal 5 for IEEE1394 link chip I/F.
86	VSIO	-	Ground for I/O.
87	IANCO	O	Transmission information data output terminal for IEEE1394 link chip I/F.
88	IFULL	I	Data transmission hold request signal input terminal for IEEE1394 link chip I/F.
89	IEMPTY	I	High speed transmission request signal input terminal for IEEE1394 link chip I/F.
90	VDIO	-	+3.3V Power for I/O.
91	IFRM	O	Frame reference signal output terminal for IEEE1394 link chip I/F.
92	IOUTE	O	Enable signal output terminal for IEEE1394 link chip I/F.
93	IBCK	O	Data transmission clock output terminal for IEEE1394 link chip I/F.
94	VSC	-	Ground for CORE.
95	TESTI	I	TEST input terminal. It fixed to "H" potential.
96	TESTI	I	TEST input terminal. It fixed to "L" potential.
97	TESTI	Ipu	TEST input terminal. It fixed to "H" potential.
98	TESTO	O	TEST output terminal. (open)
99	VDC	-	+2.5V Power for CORE.
100	TESTI	I	TEST input terminal. It fixed to "L" potential.
101	TESTI	I	TEST input terminal. It fixed to "L" potential.
102	TESTI	I	TEST input terminal. It fixed to "L" potential.
103	TESTI	I	TEST input terminal. It fixed to "L" potential.
104	TESTI	I	TEST input terminal. It fixed to "L" potential.
105	TESTI	I	TEST input terminal. It fixed to "L" potential.
106	VSIO	-	Ground for I/O.
107	TESTI	I	TEST input terminal. It fixed to "L" potential.
108	TESTI	I	TEST input terminal. It fixed to "L" potential.
109	TESTI	I	TEST input terminal. It fixed to "L" potential.
110	VDIO	-	+3.3V Power for I/O.
111	WAD0	I	External A/D data input terminal(LSB) for PSP physical disc mark detection.
112	WAD1	I	External A/D data input terminal for PSP physical disc mark detection.
113	WAD2	I	External A/D data input terminal for PSP physical disc mark detection.
114	WAD3	I	External A/D data input terminal for PSP physical disc mark detection.
115	VSIO	-	Ground for I/O.
116	VSC	-	Ground for CORE.
117	WAD4	I	External A/D data input terminal for PSP physical disc mark detection.
118	WAD5	I	External A/D data input terminal for PSP physical disc mark detection.
119	WAD6	I	External A/D data input terminal for PSP physical disc mark detection.
120	WAD7	I	External A/D data input terminal(MSB) for PSP physical disc mark detection.
121	VDC	-	+2.5V Power for CORE.
122	TESTI	I	TEST input terminal. It fixed to "L" potential.

IC401 : CXD2753R

No.	Pin Name	I/O	Functions
123	WCK	I	Operation clock for PSP physical disc mark detection.
124	WAVDD	-	+2.5V Power. A/D Power supply for PSP physical disc mark detection.
125	WAVDD	-	+2.5V Power. A/D Power supply for PSP physical disc mark detection.
126	WARFI	Ai	Analog RF signal input terminal for PSP physical disc mark detection.
127	WAVRB	Ai	A/D bottom reference terminal for PSP physical disc mark detection.
128	WAVSS	-	A/D Ground terminal for PSP physical disc mark detection.
129	WAVSS	-	A/D Ground terminal for PSP physical disc mark detection.
130	VSIO	-	Ground for I/O.
131	DQ7	I/O	SDRAM data input/output terminal. (MSB)
132	DQ6	I/O	SDRAM data input/output terminal.
133	DQ5	I/O	SDRAM data input/output terminal.
134	DQ4	I/O	SDRAM data input/output terminal.
135	VDIO	-	+3.3V Power for I/O.
136	DQ3	I/O	SDRAM data input/output terminal.
137	DQ2	I/O	SDRAM data input/output terminal.
138	DQ1	I/O	SDRAM data input/output terminal.
139	DQ0	I/O	SDRAM data input/output terminal. (LSB)
140	VSIO	-	Ground for I/O.
141	DCLK	O	Clock output terminal for SDRAM.
142	DCKE	O	Clock enable output terminal for SDRAM.
143	XWE	O	Write enable output terminal for SDRAM.
144	XCAS	O	Column address strobe output terminal for SDRAM.
145	XRAS	O	Row address strobe output terminal for SDRAM.
146	VDIO	-	+3.3V Power for I/O.
147	TESTO	O	Output terminal for TEST. (open)
148	A11	O	Address output terminal for SDRAM. (MSB)
149	A10	O	Address output terminal for SDRAM.
150	VSC	-	Ground for CORE.
151	A9	O	Address output terminal for SDRAM.
152	A8	O	Address output terminal for SDRAM.
153	VDC	-	+2.5V Power for CORE.
154	A7	O	Address output terminal for SDRAM.
155	A6	O	Address output terminal for SDRAM.
156	A5	O	Address output terminal for SDRAM.
157	A4	O	Address output terminal for SDRAM.
158	VSIO	-	Ground for I/O.
159	A3	O	Address output terminal for SDRAM.
160	A2	O	Address output terminal for SDRAM.
161	A1	O	Address output terminal for SDRAM.
162	A0	O	Address output terminal for SDRAM. (LSB)
163	VDIO	-	+3.3V Power for I/O.
164	XSRQ	O	Output terminal of the Data Request signal inputted a front-end processor.
165	XSHD	I	Input terminal of the header Flag outputted from a front-end processor.
166	SDCK	I	Input terminal of the data conveyance Clock outputted from a front-end processor.
167	XASK	I	Input terminal of the data valid Flag outputted from a front-end processor.
168	SDEF	I	Input terminal of the error Flag outputted from a front-end processor.
169	SD0	I	Input terminal of the stream Data outputted from a front-end processor.
170	SD1	I	Input terminal of the stream Data outputted from a front-end processor.
171	SD2	I	Input terminal of the stream Data outputted from a front-end processor.
172	SD3	I	Input terminal of the stream Data outputted from a front-end processor.
173	SD4	I	Input terminal of the stream Data outputted from a front-end processor.
174	SD5	I	Input terminal of the stream Data outputted from a front-end processor.
175	SD6	I	Input terminal of the stream Data outputted from a front-end processor.
176	SD7	I	Input terminal of the stream Data outputted from a front-end processor.

Ipu: Pull-up input Ipd: Pull-down input Ai: Analog input

IC731 : M30624FGNGP



No.	Pin Port	Function	I/O	Initial	Mode	Action	Note	Description (USER1:H/USER2:H)
1	P94/DA1/TB4IN	P94	O	H	MULT_LED	MULTI SURROUND(LED L=ON)		
2	P93/DA0/TB3IN	P93	O	H	DSCS1	CHIP SELECT for FRONT DAC		
3	P92/TB2IN/SOUT3	SOUT3	O	H	DSDO	CONTOROL SERIAL DATA for ALL DAC		CS4379 control data
4	P91/TB1IN/SIN3	P91	I		USER1	MODEL SELECT 1		H
5	P90/TB0IN/CLK3	CLK3	O	H	DSCLK	DATA CLOCK for ALL DAC		CS4379 control data clock
6	BYTE	BYTE	I		BYTE	PULL UP(8bit)		
7	CNVss	CNVss	I		CNVSS	PULL DOWN 5.6k ohm)		
8	P87/XCIN	P87	O	H	DSCS2	CHIP SELECT for SURROUND DAC		CS4379 SURROUND ch chip select
9	P86/XCOUT	P86	O	H	DSCS3	CHIP SELECT for DXP7001 DAC or DISPLAY OFF		DISPLAY OFF=LOW
10	RESET~	RESET~	I		RESET	RESET INPUT		
11	XOUT	XOUT	O		X.TAL	OSC OUT		
12	VSS	VSS	-		VSS	GND		
13	XIN	XIN	I		X.TAL	OSC IN		
14	VCC	VCC	-		3.3V	POWER INPUT		
15	P85/NMI~	P85	I		P_UP1	10K PULL UP(NON CONECT)	NOT USE	
16	P84/INT2~	INT2~	I/O		IR_IN	IR INPUT SIGNAL(Ma:RC-5/ De:SHARP FORMAT)		IR remote control input
17	P83/INT1~	INT1~	I		MINT	INT from CXD1885Q		
18	P82/INT0~	INT0~	I		DRVIRQ	CXD1885Q DATA REQUEST		

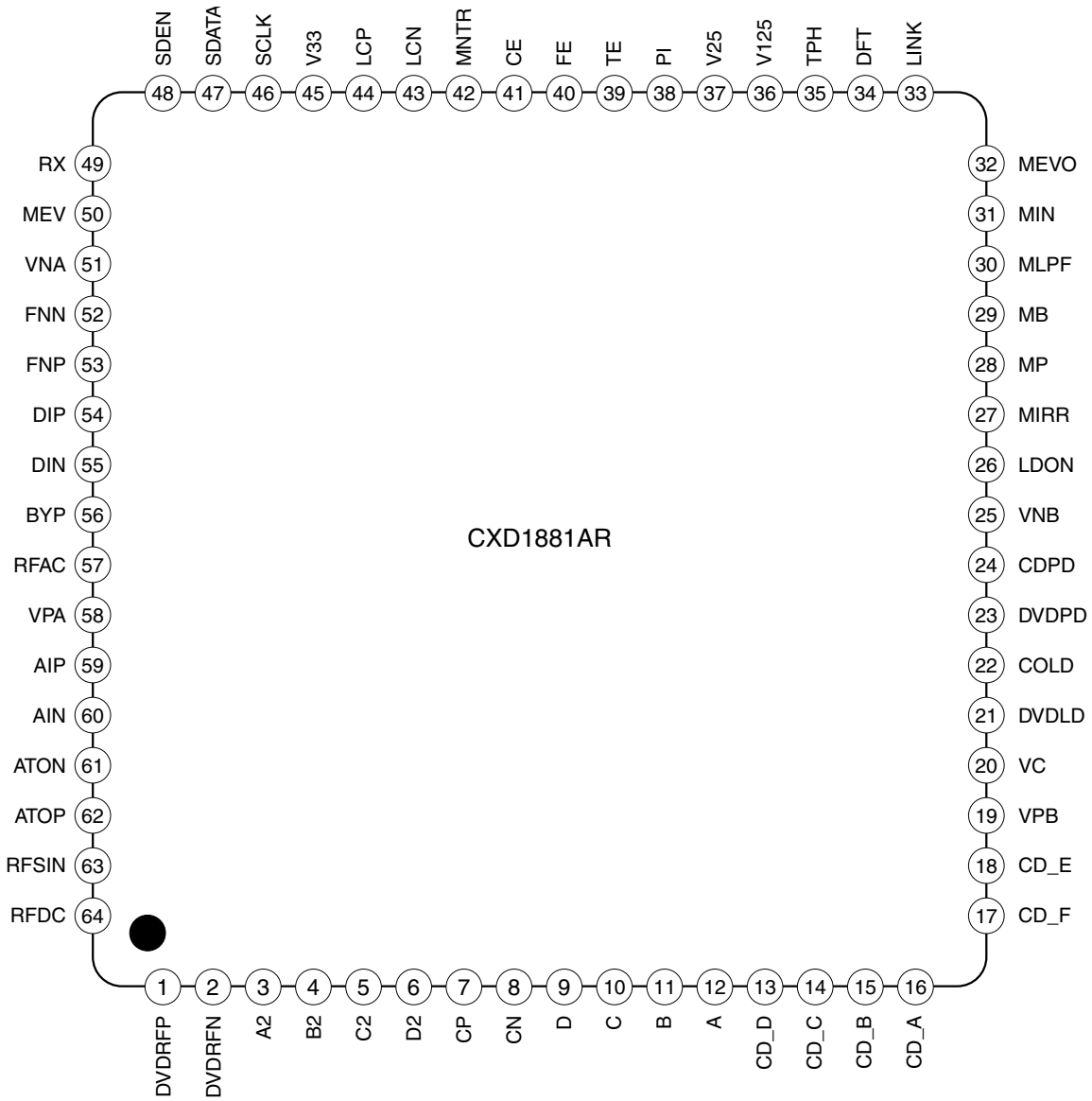
IC731 : M30624FGNGP

No.	Pin Port	Function	I/O	Initial	Mode	Action	Note	Description (USER1:H/USER2:H)
19	P81/TA4IN/U~	P81	O	L	FS_SW	DAC SYSTEM F78CLK SWITCH SIGNAL(384fs/192fs)		CD:Fix to Low SACD:Fix to High
20	P80/TA4OUT/U	TA4OUT	O	L	PWM	TRAY CONTROL PWM SIGNAL		
21	P77/TA3IN	P77	O	H	SELDSD	SELECT for DSD SIGNAL(PLD)		
22	P76/TA3OUT	P76	O	H	SMUTE	MUTING for CXD2753R		
23	P75/TA2IN/W~	P75	O	H	DSDRST	RESET for CXD2753R		
24	P74/TA2OUT/W	P74	I		MSREADY	SERIAL DATA READY from CXD2753R		
25	P73/CTS2~/RTS2~/ TA1IN/V~	P73	O	H	XMSLAT	SERIAL DATA LATCH for CXD2753R		
26	P72/CLK2/ TA1OUT/V	CLK2	O	H	MSCK	SERIAL DATA CLK for CXD2753R		
27	P71/RXD2/SCL/ TA0IN/TB5IN	RXD2	I		MSDATAO	SERIAL DATA INPUT from CXD2753R	PULL UP	
28	P70/TXD2/SDA/ TA0OUT	TXD2	O	H	MSDATI	SERIAL DATA OUTPUT for CXD2753R	PULL UP	
29	P67/TXD1	P67	O	H	CD_LED	FOR CD SELECT (LED L:ON)	Flash(w:pull up)	
30	P66/RXD1	P66	O	H	SA_LED	FOR SACD SELECT (LED L:ON)	Flash(w:pull up)	
31	P65/CLK1	P65	O	H	PULL_DWN	5.1K PULL DOWN(NON CONECT)	Flash(w:pull down)	
32	P64/CTS1~/RTS1~/ CTS0~/CLKS1	P64	O	H	DRVRST	RESET for CXD1885Q(RESET=L)	Flash(w:pull up)	
33	P63/TXD0	TXD0	O	H	DRVRX	SERIAL DATA for CXD1885Q		
34	P62/RXD0	RXD0	I		DRVTX	SERIAL DATA from CXD1885Q		
35	P61/CLK0	CLK0	O	H	DRVCLK	DATA CLOCK for CXD1885Q		
36	P60/CTS0~/RTS0~	CTS0~	I		DRVRDY	DATA READY SIGNAL from CXD1885Q		
37	P57/RDY~/CLKOUT	RDY~	I		MRDY	READY from CXD1885Q		
38	P56/ALE	P56	I		OPEN1	OPEN(anytime)	Flash (w:pull up)	OPEN (anytime)
39	P55/HOLD~	P55	I		P_UP2	10K PULL UP(NON CONECT)	Flash (w:GND)	
40	P54/HLDA~	P54	-		OPEN2	OPEN		
41	P53/BCLK	P53	-		OPEN3	OPEN		
42	P52/RD~	RD~	O		MRD	READ STROBE for XD1885Q		
43	P51/WRH~/BHE~	P51	-		OPEN4	OPEN		
44	P50/WRL~/WR~	WR~	O		MWR	WRITE STROBE for XD1885Q	Flash(w:pull up)	
45	P47/CS3~	CS3~	O	H	MCS	CHIP SELECT for CXD1885Q		
46	P46/CS2~	CS2~	O	H	MCS2	CHIP SELECT for 1M-SRAM		
47	P45/CS1~	P45	O	H	OPN_DRV	TRAY OPEN DRIVE CONTROL		
48	P44/CS0~	P44	O	H	CLS_DRV	TRAY CLOSE DRIVE CONTROL		
49	P43/A19	P43	O		OPEN4	OPEN		
50	P42/A18	P42	O		OPEN5	OPEN		
51	P41/A17	P41	O		OPEN5	OPEN		
52	P40/A16	A16	O		A16	ADRRES LINE		
53	P37/A15	A15	O		A15	ADRRES LINE		
54	P36/A14	A14	O		A14	ADRRES LINE		
55	P35/A13	A13	O		A13	ADRRES LINE		
56	P34/A12	A12	O		A12	ADRRES LINE		
57	P33/A11	A11	O		A11	ADRRES LINE		
58	P32/A10	A10	O		A10	ADRRES LINE		
59	P31/A9	A9	O		A9	ADRRES LINE		
60	VCC	VCC	-		---	3.3V		
61	P30/A8(/?/D7)	A8	O		A8	ADRRES LINE		
62	VSS	VSS	-		---	GND		
63	P27/A7(/D7/D6)	A7	O		A7	ADRRES LINE		
64	P26/A6(/D6/D5)	A6	O		A6	ADRRES LINE		
65	P25/A5(/D5/D4)	A5	O		A5	ADRRES LINE		
66	P24/A4(/D4/D3)	A4	O		A4	ADRRES LINE		
67	P23/A3(/D3/D2)	A3	O		A3	ADRRES LINE		
68	P22/A2(/D2/D1)	A2	O		A2	ADRRES LINE		
69	P21/A1(/D1/D0)	A1	O		A1	ADRRES LINE		

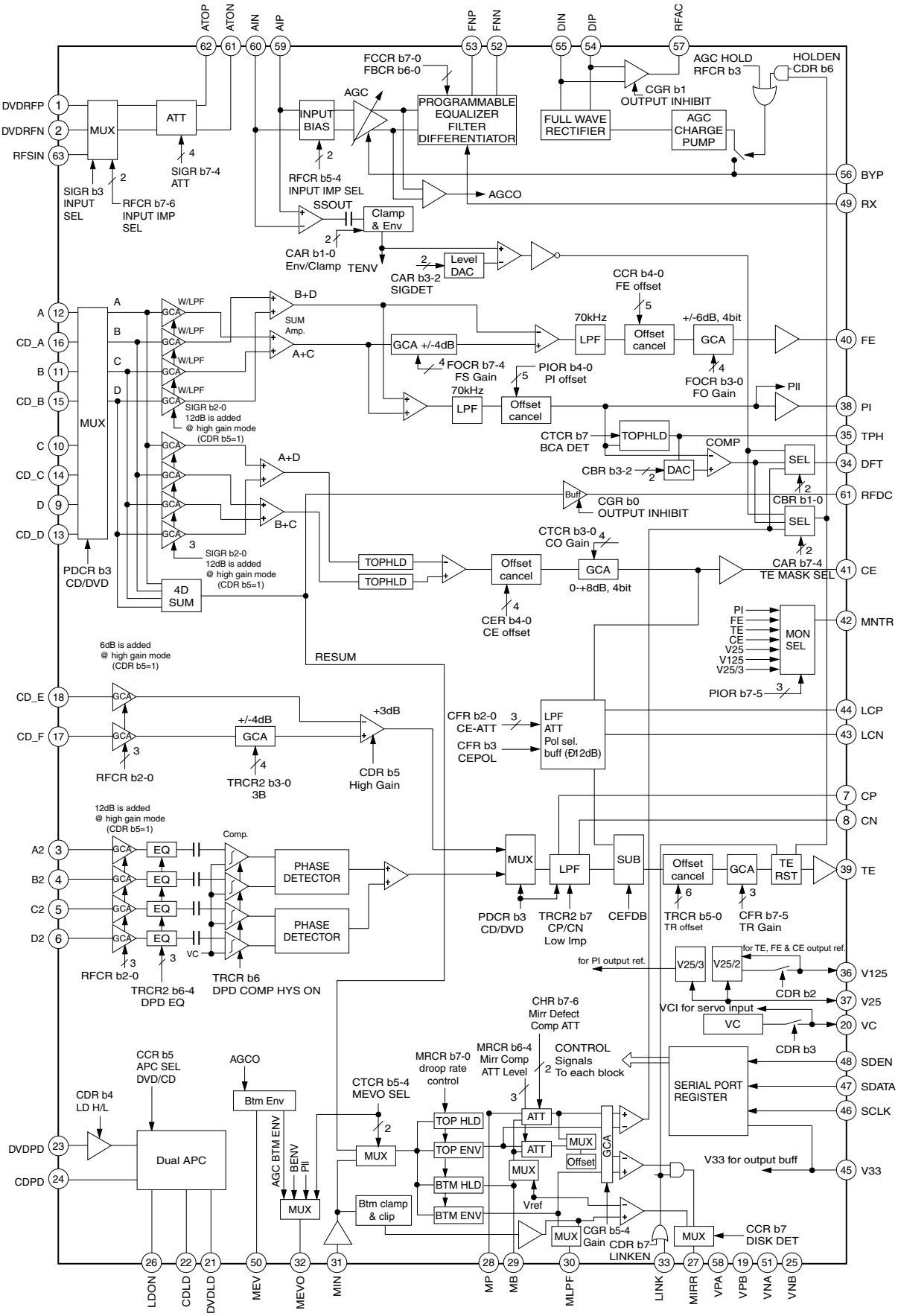
IC731 : M30624FGNGP

No.	Pin Port	Function	I/O	Initial	Mode	Action	Note	Description (USER1:H/USER2:H)
70	P20/A0(/D0/?)	A0	O		A0	ADRRES LINE		
71	P17/D15/INT5~	P17	O	H	ICLK	IIC CLK FOR EE_ROM(AT24C04N)		
72	P16/D14/INT4~	P16	I/O	H	IDAT	IIC DATA FOR EE_ROM(AT24C04N)		
73	P15/D13/INT3~	P15	I		OPN_SW	TRAY OPEN DETECT SW		
74	P14/D12	P14	I		CLS_SW	TRAY CLOSE DETECT SW		
75	P13/D11	P13	O	H	PCMRST	DE:RESET for DXP7001 or Ma:DISPLAY LED(L:ON)	Flash(w:pull up)	RESET for DXP7001(reset=L)
76	P12/D10	P12	I		FILTI	SACD: DAC SYSTEM CLK SWITCHING CONTOROL IN	(Low:384fs/ Hi:192fs)	for FILTER-SW
77	P11/D9	P11	O	H	MUT2	MUTING for MULTI CHANNEL(H:MUTE)	RELAY/TR	
78	P10/D8	P10	O	H	MUT1	MUTING for STEREO CHANNEL(H:MUTE)	RELAY/TR	
79	P07/D7	D7	I/O		D7	8bit DATA LINE		
80	P06/D6	D6	I/O		D6	8bit DATA LINE		
81	P05/D5	D5	I/O		D5	8bit DATA LINE		
82	P04/D4	D4	I/O		D4	8bit DATA LINE		
83	P03/D3	D3	I/O		D3	8bit DATA LINE		
84	P02/D2	D2	I/O		D2	8bit DATA LINE		
85	P01/D1	D1	I/O		D1	8bit DATA LINE		
86	P00/D0	D0	I/O		D0	8bit DATA LINE		
87	P107/AN7/KI3~	P107	O	H	MODE	CD/SACD SWITCHING SIGNAL(L:CD,SACD:H)		Switching of digital audio data for SACD and CD(L=CD, H=SACD) Data transwission hold to recognition of the next DISC
88	P106/AN6/KI2~	P106	O	L	FCS	DISPLAY CHIP SERECT for FL DRIVER		ML9207-01GP chip select
89	P105/AN5/KI1~	P105	O	H	DSRST2	DSP RESET2 for SURROUND CHANNEL or ATT		Mute signal fo Search
90	P104/AN4/KI0~	P104	O	H	DSRST1	DSP RESET1 for FRONT CHANNEL		RESET for DAC (reset=L)
91	P103/AN3	P103	O	L	FRRST	DISPLAY DRIVER RESET		ML9207-01GP reset
92	P102/AN2	AN2	I		KEY2	KEYS SENS		
93	P101/AN1	AN1	I		KEY1	KEYS SENS		
94	AVSS	AVSS	-		GND	AD GND		
95	P100/AN0	AN0	I		KEY0	KEYS SENS		
96	VRef	Vref	I		3.3V	AD reference		
97	AVcc	AVcc	-		3.3V	AD Vcc		
98	P97/ADTRG~/SIN4	P97	I		USER2	MODEL SELECT 2		H
99	P96/ANEX1/SOUT4	SOUT4	O	L	FDAT	DISPLAY DATA for FL DRIVER		ML9207-01GP control data
100	P95/ANEX0/CLK4	CLK4	O	L	FCLK	DISPLAY CLOCK for FL DRIVER		ML9207-01GP control clock

IC501 : CDX1881AR



IC501 : CDX1881AR



IC501 : CDX1881AR

Power Supply Pins

Name	I/O	Function
VPA	-	Power for RF and serial port
VPB	-	Power for servo
VNA	-	GND for RF and serial port
VNB	-	GND for servo
V33	-	Power for output buffer
V25	-	Reference Power for servo output

Input Pins

Name	I/O	Function
DVDRFP, DVDRFN	I	RF signal input
RFSIN	I	RF signal input
AIP,AIN	I	AGC amp. input
DIP,DIN	I	Analog input for RF single buffer
A,B,C,D	I	Photo detector interface input
A2, B2, C2, D2	I	Photo detector interface input
CD_A, B, C, D	I	CD photo detector interface input
CD_E, F	I	CD photo detector interface input
MIN	I	RF signal input for mirror
DVDPD	I	APC input
CDPD	I	APC input
LDON	I	APC input ON/OFF (L:Open)
	I	Link signal input (L:Open)
	O	Mirror monitor output

Output Pins

Name	I/O	Function
ATOP,ATON	O	Differential attenuator output
FNP,FNN	O	Differential normal output
RFAC	O	Single end normal output
RFDC	O	RF signal output
FE	O	Focus error signal output
TE	O	Tracking error signal output
CE	O	Center error signal output
MEVO	O	RFDDC bottom envelope output
DFT	O	Defect output
MIRR	O	Mirror detected output
PI	O	Pull-in signal output
DVDLD	O	APC output
CDLD	O	APC output
MNTR	O	Monitor output

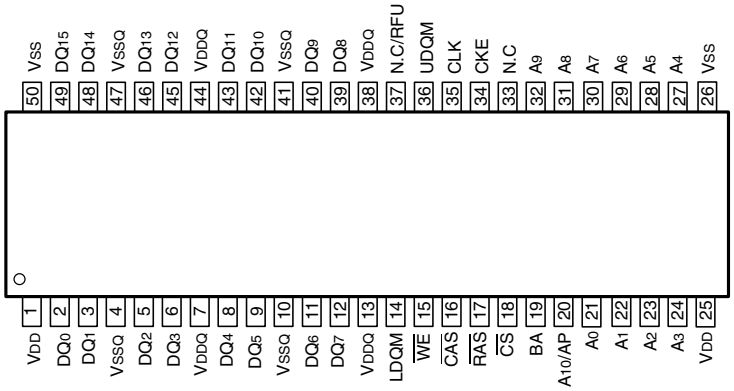
Analog Pins

Name	I/O	Function
BYP	-	RF AGC integration capacitor connecting terminal
CP	-	Differential phase tracking LPF terminal
CN	-	Differential phase tracking LPF terminal
LCP	-	Lens shift offset cancel LPF terminal
LCN	-	Lens shift offset cancel LPF terminal
MP	-	MIRR top hold terminal
MB	-	MIRR bottom hold terminal
MEV	-	RFDC bottom envelope terminal
MLPF	-	Mirror LPF terminal
TPH	-	PI top hold terminal
VC	-	Reference voltage output
V125	-	Reference voltage output
RX	-	Reference resistor input

Serial Port Pins

Name	I/O	Function
SDEN	I	Serial data enable
SDATA	I/O	Serial data
SCLK	I	Serial clock

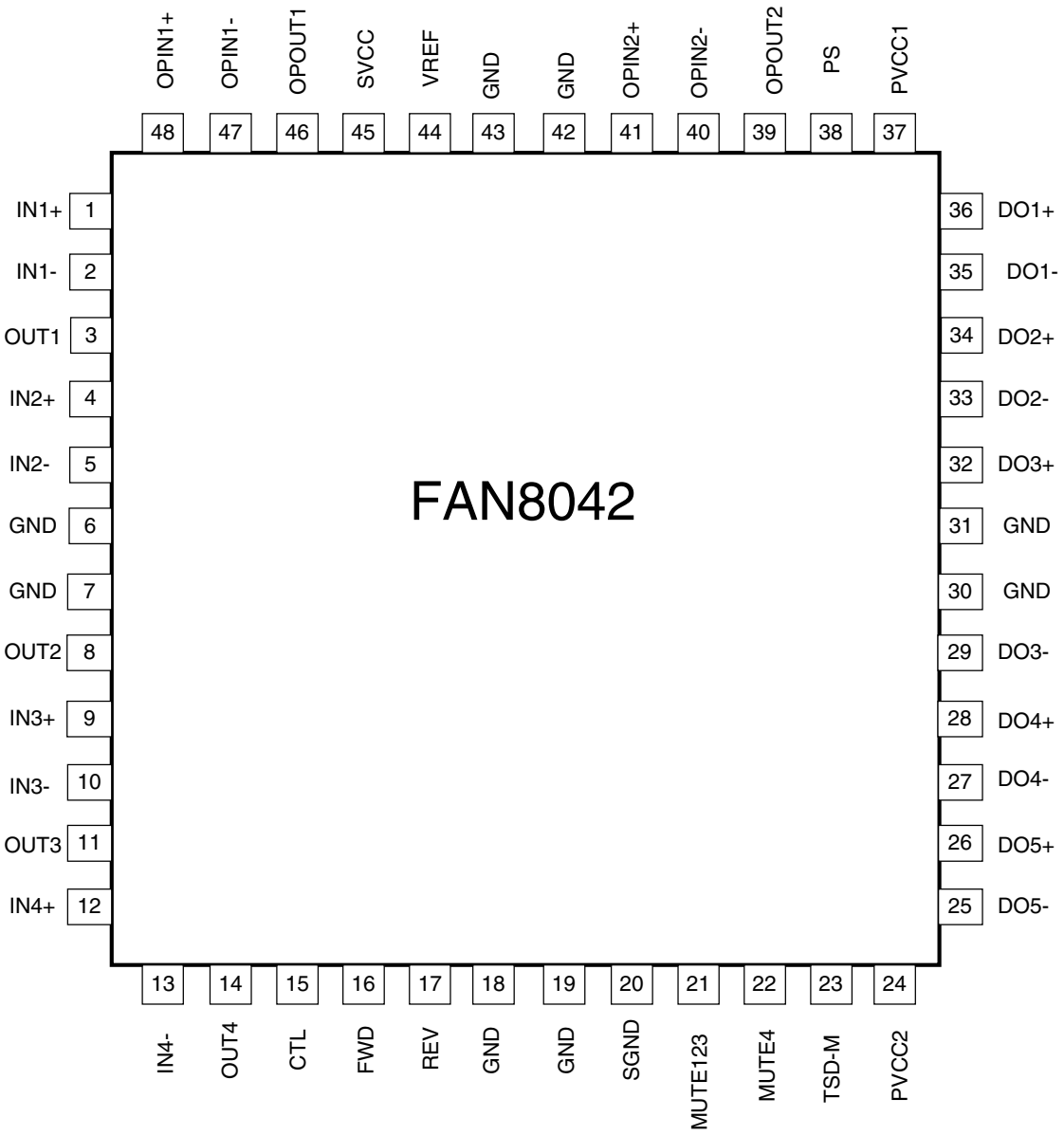
IC402 : 16M SDRAM (EM636165TS-7 etc)



Terminal Function

Pin No.	Pin Name	Symbol	Function
1	V_{DD}	Power Supply/Ground	Power and ground for the input buffer and the core logic
2	DQ_0	Data Input/Output	Data input/output are mutiplexed on the same pin
3	DQ_1	Data Input/Output	Data input/output are mutiplexed on the same pin
4	V_{SSQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
5	DQ_2	Data Input/Output	Data input/output are mutiplexed on the same pin
6	DQ_3	Data Input/Output	Data input/output are mutiplexed on the same pin
7	V_{DDQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
8	DQ_4	Data Input/Output	Data input/output are mutiplexed on the same pin
9	DQ_5	Data Input/Output	Data input/output are mutiplexed on the same pin
10	V_{SSQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
11	DQ_6	Data Input/Output	Data input/output are multiplexed on the same pin
12	DQ_7	Data Input/Output	Data input/output are multiplexed on the same pin
13	V_{DDQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
14	L DQM	Data Input/Output Mask	Blocks data input when active
15	$\overline{WE}$	Write Enable	Enables write operation and row precharge
16	$\overline{CAS}$	Column Address Strobe	Latches column address on the positive going edge of the CLK at low
17	$\overline{RAS}$	Row Address Strobe	Latches row address on the positive going edge of the CLK at low
18	$\overline{CS}$	Chip Select	Disables or enables device operation by masking or enabling all inputs except CLK, CKE, and LDQM
19	BA	Bank Select Address	Selects bank to be activated during row address latch time
20	A_{10}/AP	Address	Row/column addresses are multiplexed on the same pin
21	A_0	Address	Row/column addresses are multiplexed on the same pin
22	A_1	Address	Row/column addresses are multiplexed on the same pin
23	A_2	Address	Row/column addresses are multiplexed on the same pin
24	A_3	Address	Row/column addresses are multiplexed on the same pin
25	V_{DD}	Power Supply/Ground	Power and ground for the input buffer and the core logic
26	V_{SS}	Power Supply/Ground	Power and ground for the input buffer and the core logic
27	A_4	Address	Row/column addresses are multiplexed on the same pin
28	A_5	Address	Row/column addresses are multiplexed on the same pin
29	A_6	Address	Row/column addresses are multiplexed on the same pin
30	A_7	Address	Row/column addresses are multiplexed on the same pin
31	A_8	Address	Row/column addresses are multiplexed on the same pin
32	A_9	Address	Row/column addresses are multiplexed on the same pin
33	N. C	No Connection	No connect pin
34	CKE	Clock Enable	Masks system clock to freeze operation from the next clock cycle
35	CLK	System Clock	Active on the positive going edge to sample all inputs
36	U DQM	Data Input/Output Mask	Blocks data input when active
37	N. C/RFU	NC/Reserved	No connect pin
38	V_{DDQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
39	DQ_8	Data Input/Output	Data input/output are multiplexed on the same pin
40	DQ_9	Data Input/Output	Data input/output are multiplexed on the same pin
41	V_{SSQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
42	DQ_{10}	Data Input/Output	Data input/output are multiplexed on the same pin
43	DQ_{11}	Data Input/Output	Data input/output are multiplexed on the same pin
44	V_{DDQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
45	DQ_{12}	Data Input/Output	Data input/output are multiplexed on the same pin
46	DQ_{13}	Data Input/Output	Data input/output are multiplexed on the same pin
47	V_{SSQ}	Data Output Power/Ground	Isolated power supply and ground for the output buffer
48	DQ_{14}	Data Input/Output	Data input/output are multiplexed on the same pin
49	DQ_{15}	Data Input/Output	Data input/output are multiplexed on the same pin
50	V_{SS}	Power Supply/Ground	Power and ground for the input buffer and the core logic

IC508 : FAN8042

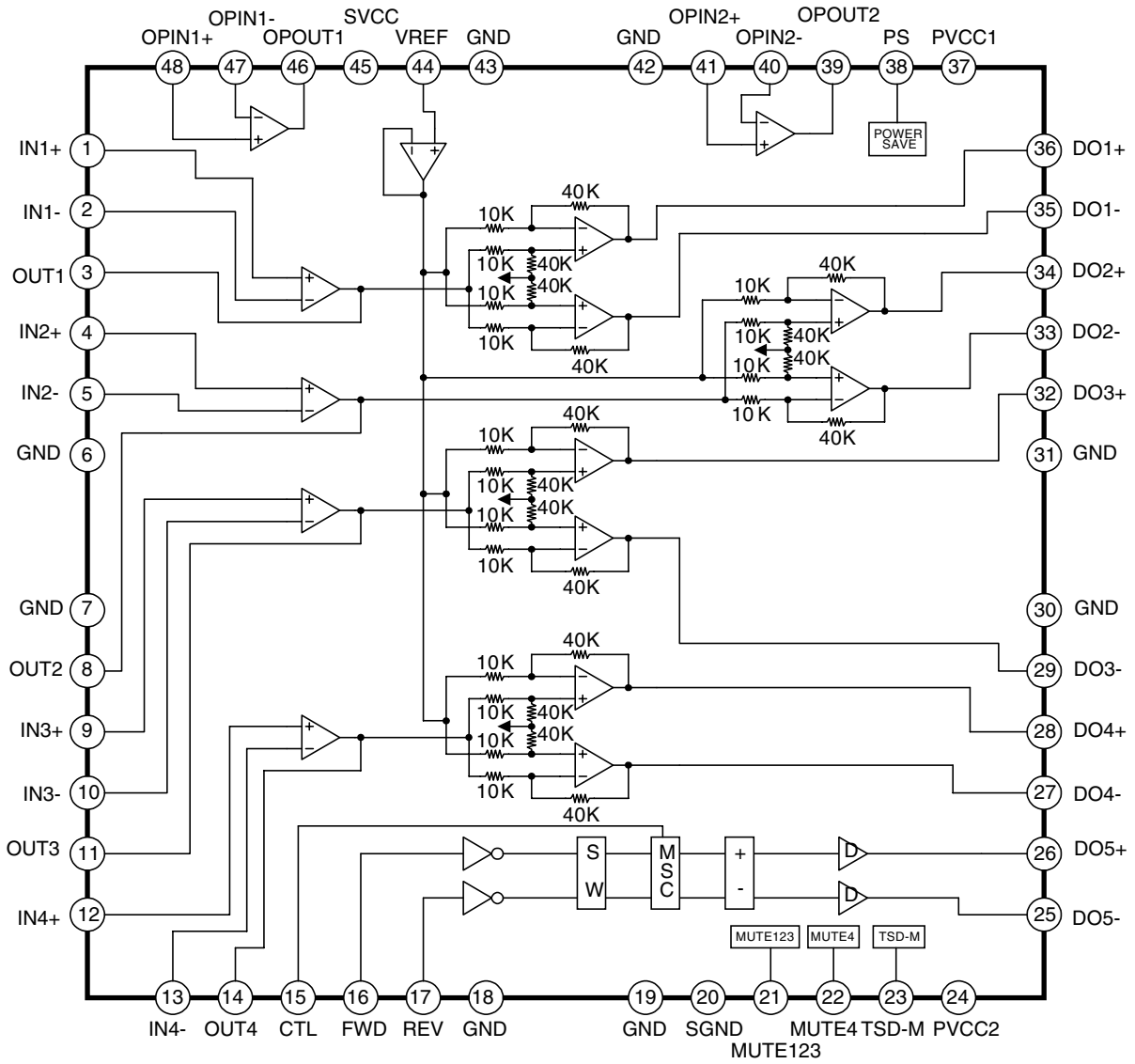


IC508 : FAN8042

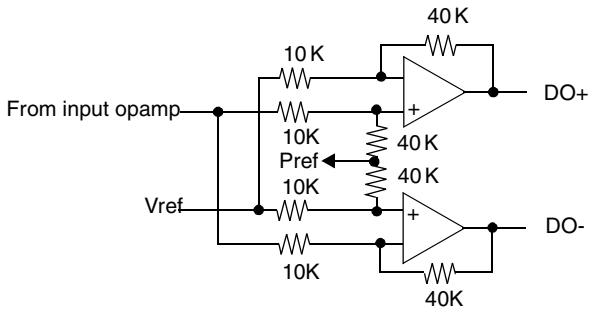
No.	Pin Name	I/O	Pin Function Description
1	IN1+	I	CH1 op-amp input (+)
2	IN1-	I	CH1 op-amp input (-)
3	OUT1	O	CH1 op-amp output
4	IN2+	I	CH2 op-amp input (+)
5	IN2-	I	CH2 op-amp input (-)
6	GND	-	Ground
7	GND	-	Ground
8	OUT2	O	CH2 op-amp output
9	IN3+	I	CH3 op-amp input (+)
10	IN3-	I	CH3 op-amp input (-)
11	OUT3	O	CH3 op-amp output
12	IN4+	I	CH4 op-amp input (+)
13	IN4-	I	CH4 op-amp input (-)
14	OUT4	O	CH4 op-amp output
15	CTL	I	CH5 motor speed control
16	FWD	I	CH5 forward input
17	REV	I	CH5 reverse input
18	GND	-	Ground
19	GND	-	Ground
20	SGND	-	Signal Ground
21	MUTE123	I	Mute for CH1,2,3
22	MUTE4	I	Mute for CH4
23	TSD-M	O	TSD monitor
24	PVCC2	-	Power supply voltage 2 (For CH4,CH5)
25	DO5-	O	CH5 drive output (-)
26	DO5+	O	CH5 drive output (+)
27	DO4-	O	CH4 drive output (-)
28	DO4+	O	CH4 drive output (+)
29	DO3-	O	CH3 drive output (-)
30	GND	-	Ground
31	GND	-	Ground
32	DO3+	O	CH3 drive output (+)
33	DO2-	O	CH2 drive output (-)
34	DO2+	O	CH2 drive output (+)
35	DO1-	O	CH1 drive output (-)
36	DO1+	O	CH1 drive output (+)
37	PVCC1	-	Power supply voltage 1 (FOR CH1 CH2,CH3)
38	PS	I	Power save
39	OPOUT2	O	Normal op-amp2 output
40	OPIN2-	I	Normal op-amp2 input (-)
41	OPIN2+	I	Normal op-amp2 input (+)
42	GND	-	Ground
43	GND	-	Ground
44	VREF	I	Bias voltage input
45	SVCC	-	Signal & OPAMPs supply voltage
46	OPOUT1	O	Normal op-amp1 output
47	OPIN1-	I	Normal op-amp1 input (-)
48	OPIN1+	I	Normal op-amp1 input (+)

IC508 : FAN8042

Internal Block Diagram

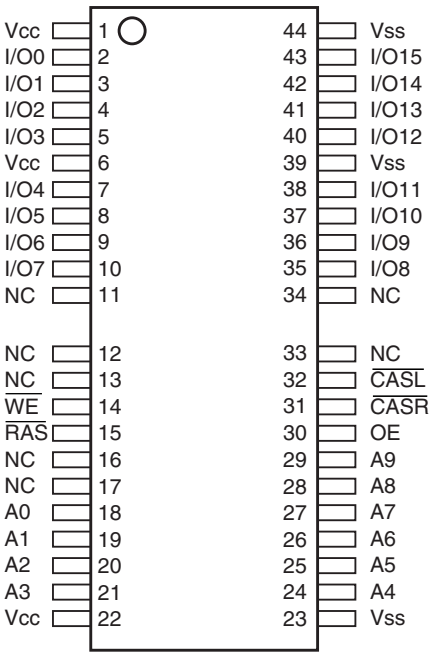


Note. Detailed circuit of the output power amp



Pref1 is almost PVCC1 / 2
Pref2 is almost PVCC2 / 2

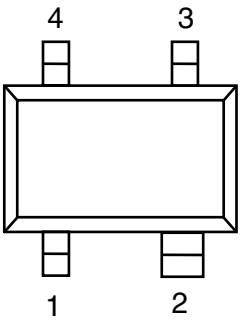
IC503 : M11L16161SA-45T



PIN DESCRIPTIONS

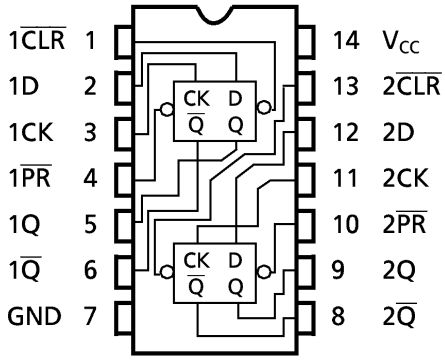
PIN NO. (SOJ Package)	PIN NAME	TYPE	DESCRIPTION
17~20,23~28	A0~A9	Input	Address Input Row Address:A0~A9 Column Address:A0~A9
14	$\overline{RAS}$	Input	Row Address Strobe
30	$\overline{CASH}$	Input	Column Address Strobe/Upper Byte Control
31	$\overline{CASL}$	Input	Column Address Strobe/Lower Byte Control
13	$\overline{WE}$	Input	Write Enable
29	$\overline{OE}$	Input	Output Enable
2~5,7~10, 33~36,38~41	I/O0~I/O15	Input/Output	Data Input/Output
1,6,21	Vcc	Supply	Power,(5V or 3.3V)
22,37,42	Vss	Ground	Ground
11,12,15,16,32	NC	-	No Connect

IC733 : S-80843C

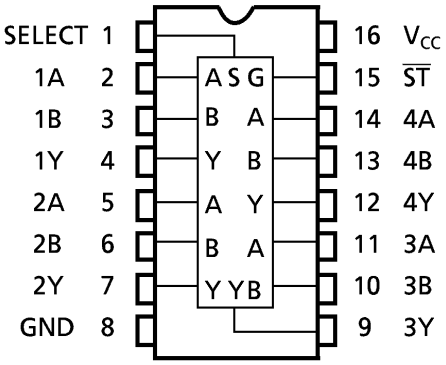


1	OUT
2	VDD
3	N.C.
4	VSS

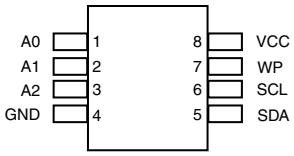
IC734 : TC74VHC74FT



IC736 : TC74VHC157FT



IC737 : AT24C04

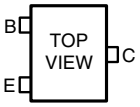


Pin Configurations

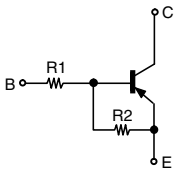
Pin Name	Function
A0 - A2	Address Inputs
SDA	Sedrial Data
SCL	Sedrial Clock Input
WP	Write Protect
NC	No Connect

TRANSISTORS

DTA114EK — PNP
DTC114EK — NPN

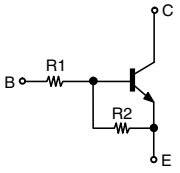


DTA Series



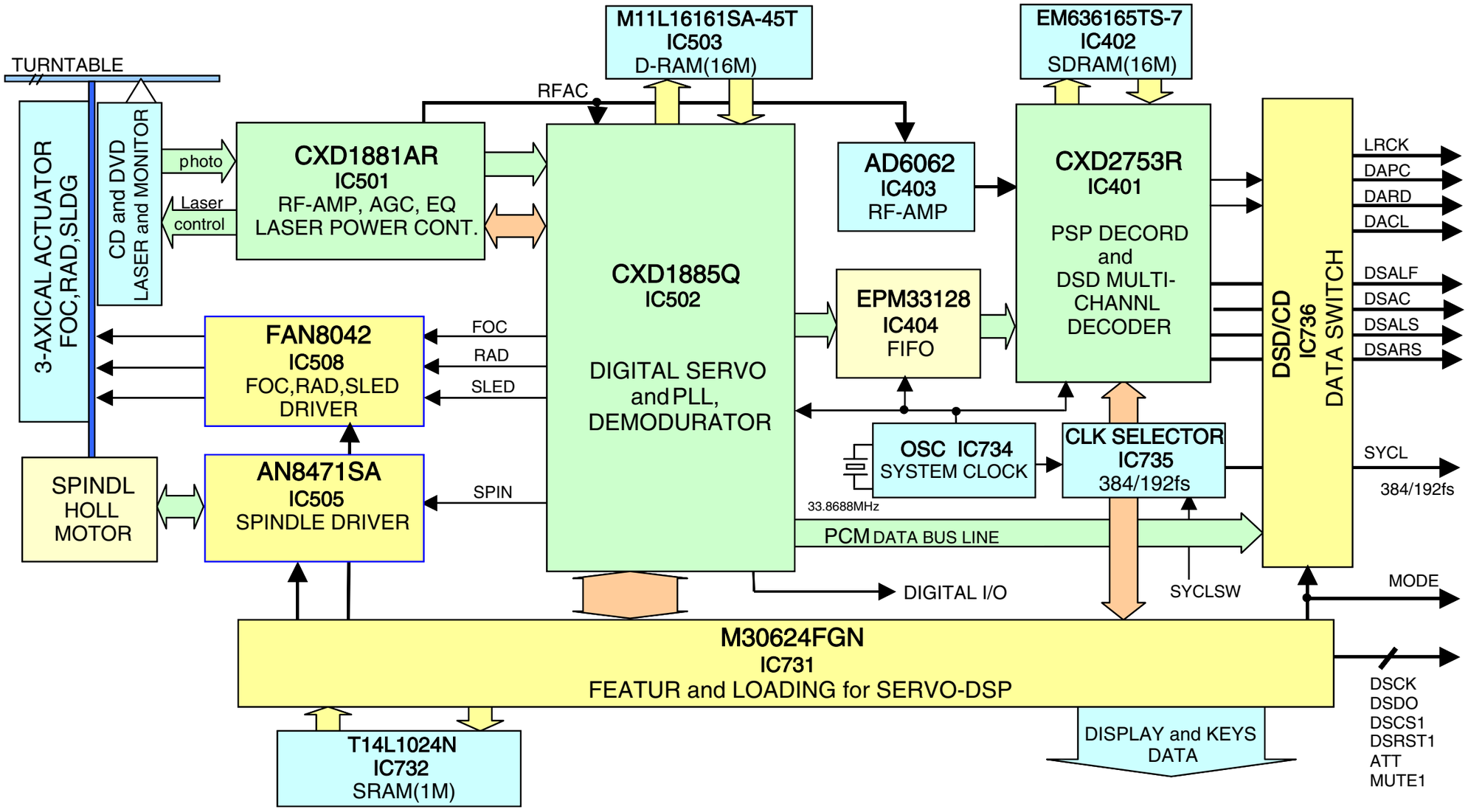
	R1	R2
DTA114EK	10kohm	10kohm

DTC Series



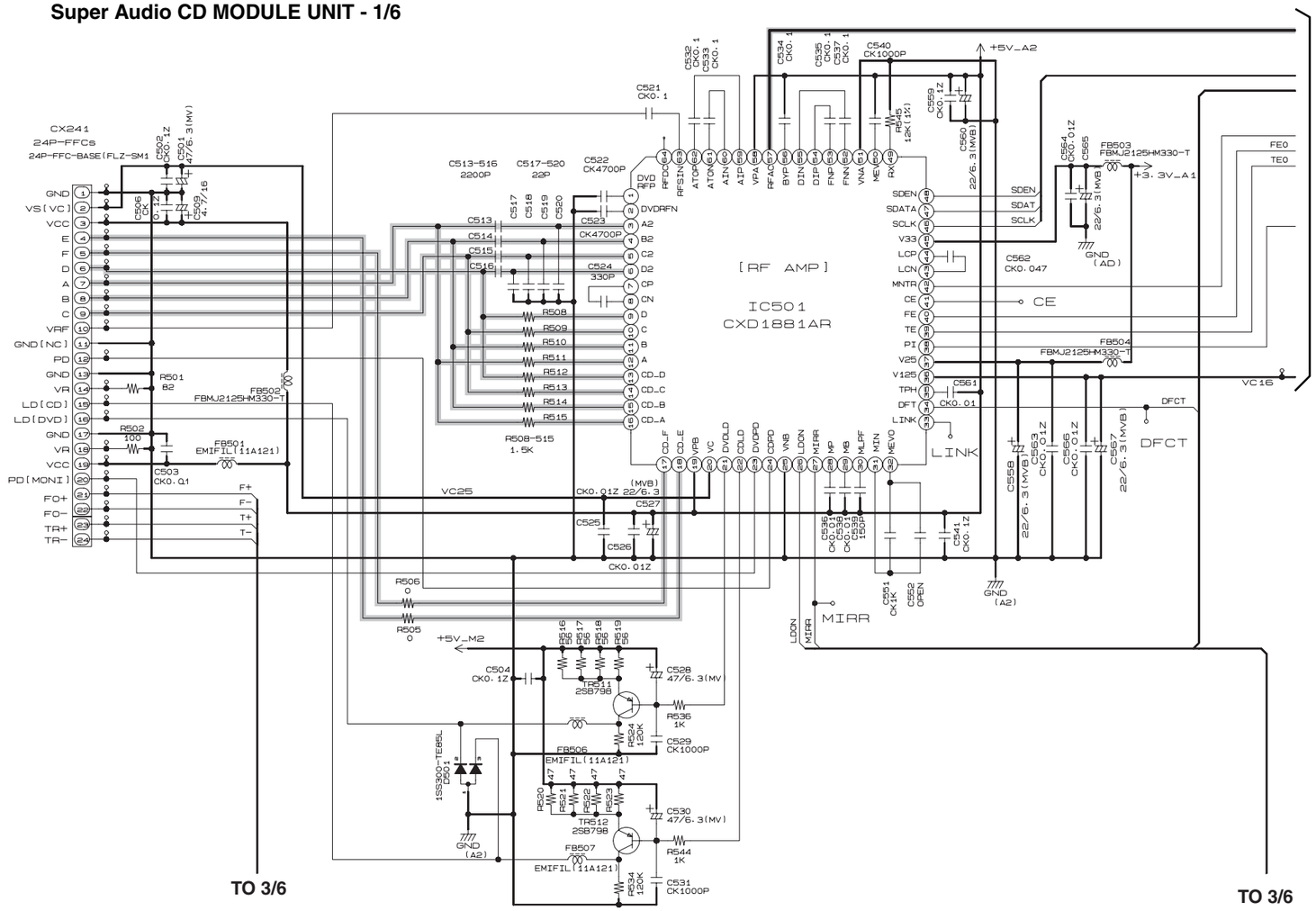
	R1	R2
DTC114EK	10kohm	10kohm

3.2 BLOCK DIAGRAM



3.3 SCHEMATIC DIAGRAM

Super Audio CD MODULE UNIT - 1/6

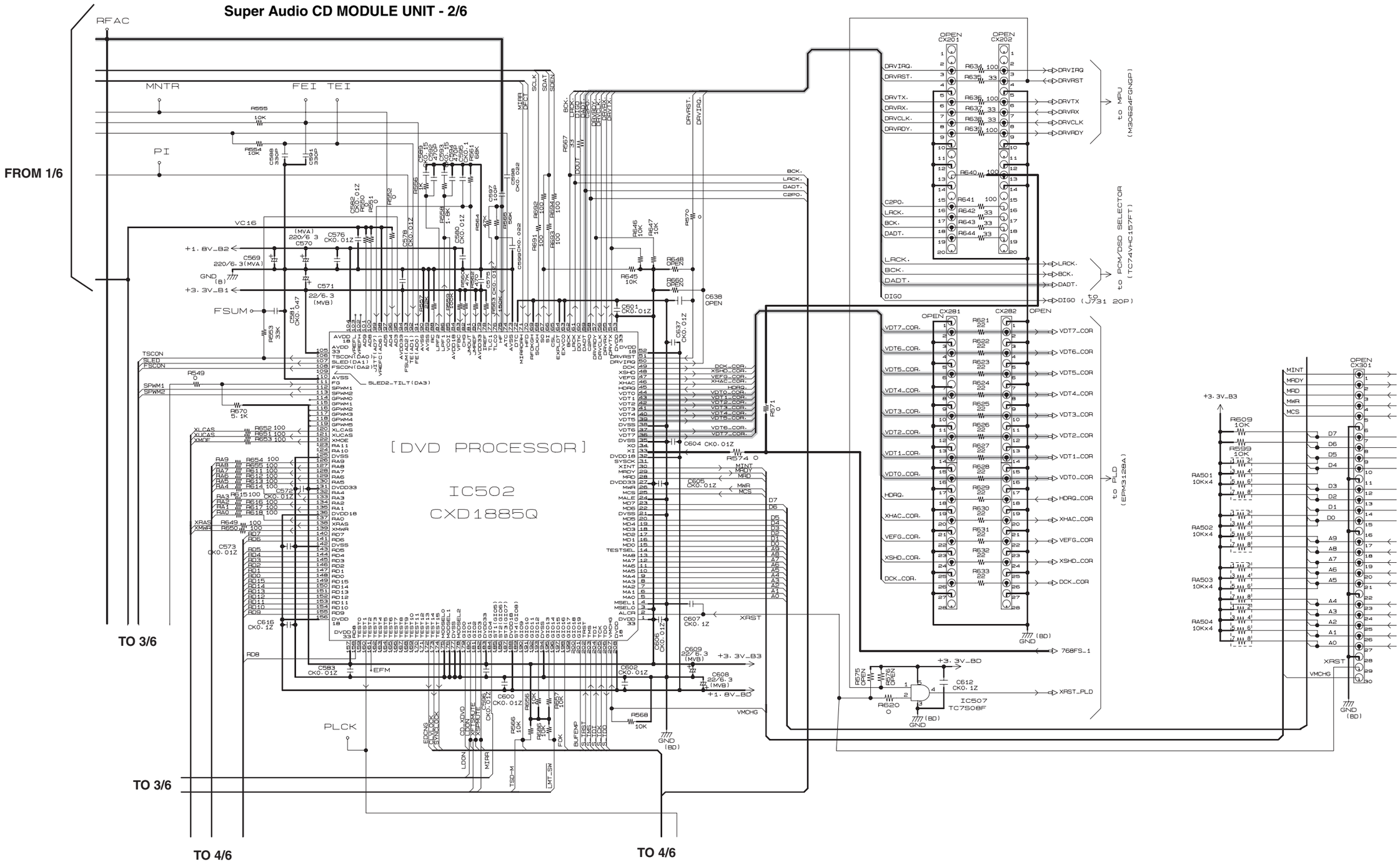


TO 2/6

TO 3/6

TO 3/6

Super Audio CD MODULE UNIT - 2/6



Super Audio CD MODULE UNIT - 3/6

FROM 1/6

FROM 1/6

FROM 2/6

FROM 2/6

FROM 2/6

FROM 2/6

[MOTOR DRIVER]
IC508
FAN8042

[SPINDLE DRIVER]
IC505
AN8471SA

[16M DRAM]
IC503
M11L16161SA-45T

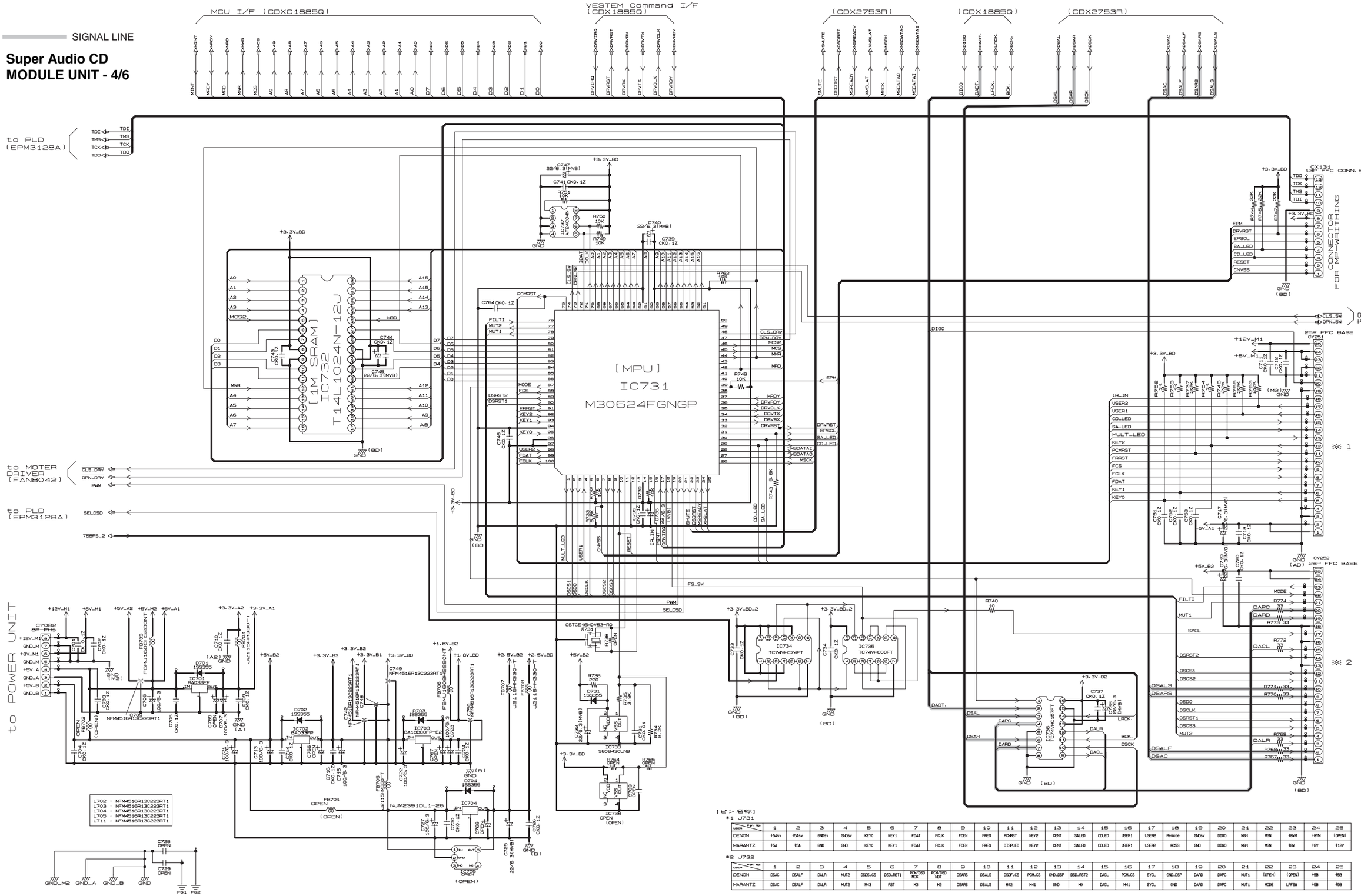
LED I/F

to DSD DECODER (CXD2753R)

to MPU (M30624FGNGP)

SIGNAL LINE

Super Audio CD
MODULE UNIT - 4/6



[ピン名称]

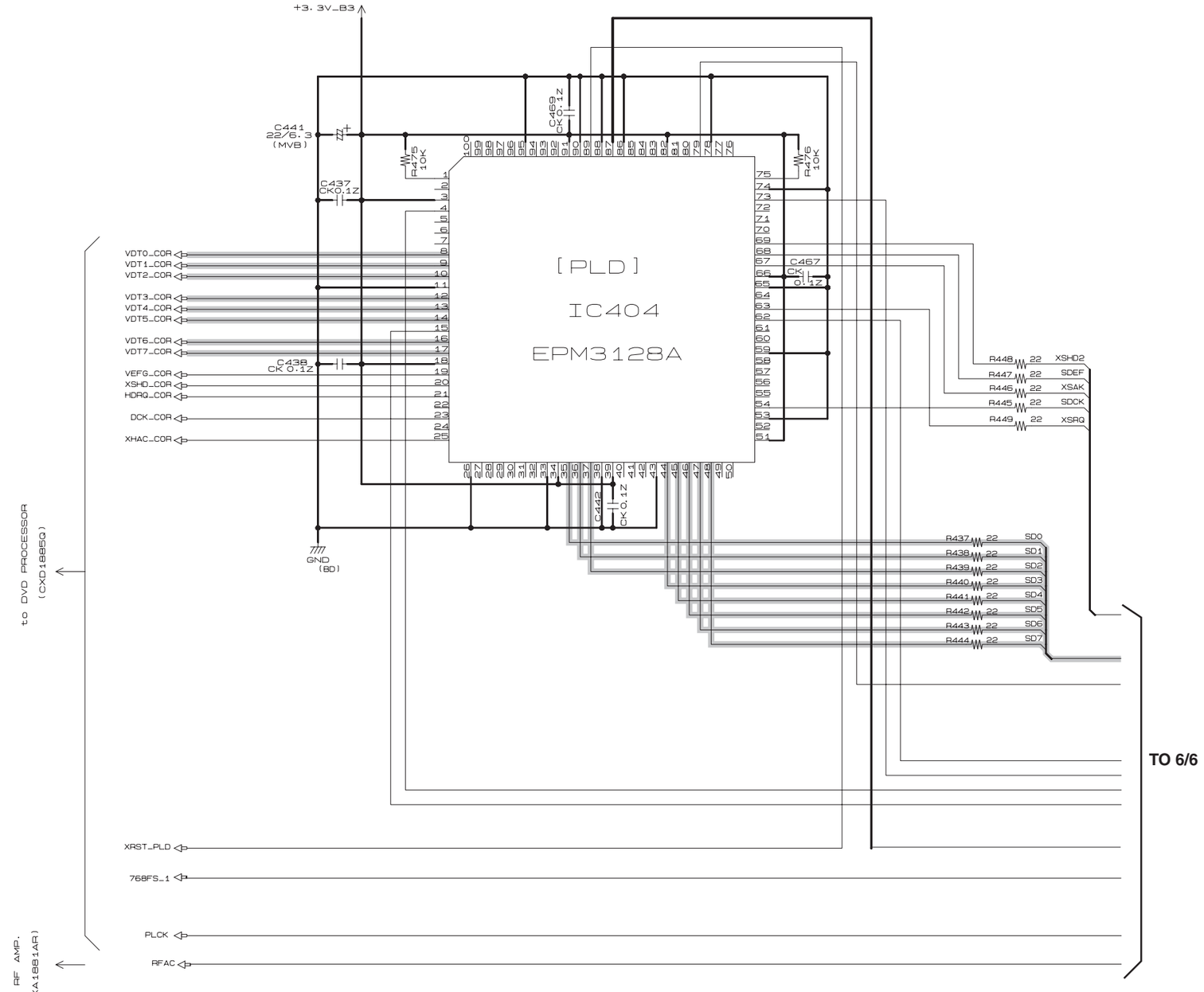
*1 J731

USER / PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
DENON	+5Asv	+5Asv	GNDsv	GNDsv	KEY0	KEY1	FDAT	FCLK	FCEN	FRES	PCMRST	KEY2	CENT	SALED	CDLED	USER1	USER2	Remote	GNDsv	DIGO	MGN	MGN	+8VM	+8VM	(OPEN)
MARANTZ	+5A	+5A	GND	GND	KEY0	KEY1	FDAT	FCLK	FCEN	FRES	DISPLED	KEY2	CENT	SALED	CDLED	USER1	USER2	ROSS	GND	DIGO	MGN	MGN	+8V	+8V	+12V

*2 J732

USER / PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
DENON	DSAC	DSALF	DALR	MUT2	DSDS_CS	DSD_RST1	PCM/DSD MCK	PCM/DSD MDT	DSARS	DSALS	DSDF_CS	PCM_CS	GND_DSP	DSD_RST2	DACL	PCM_CS	SYCL	GND_DSP	DARD	DAPC	MUT1	(OPEN)	(OPEN)	+5B	+5B
MARANTZ	DSAC	DSALF	DALR	MUT2	M43	RST	M3	M2	DSARS	DSALS	M42	M41	GND	M0	DACL	M41	SYCL	GND	DARD	DAPC	MUT1	MODE	LPFSW	+5B	+5B

Super Audio CD MODULE UNIT - 5/6



Super Audio CD
MODULE UNIT - 6/6

FROM 5/6

[DSD DECODER]
IC401
CXD2753R

[16M SDRAM]
IC402
EM636165TS-7

to PCM/DSD SELECTOR
(TC74VHC157FT)

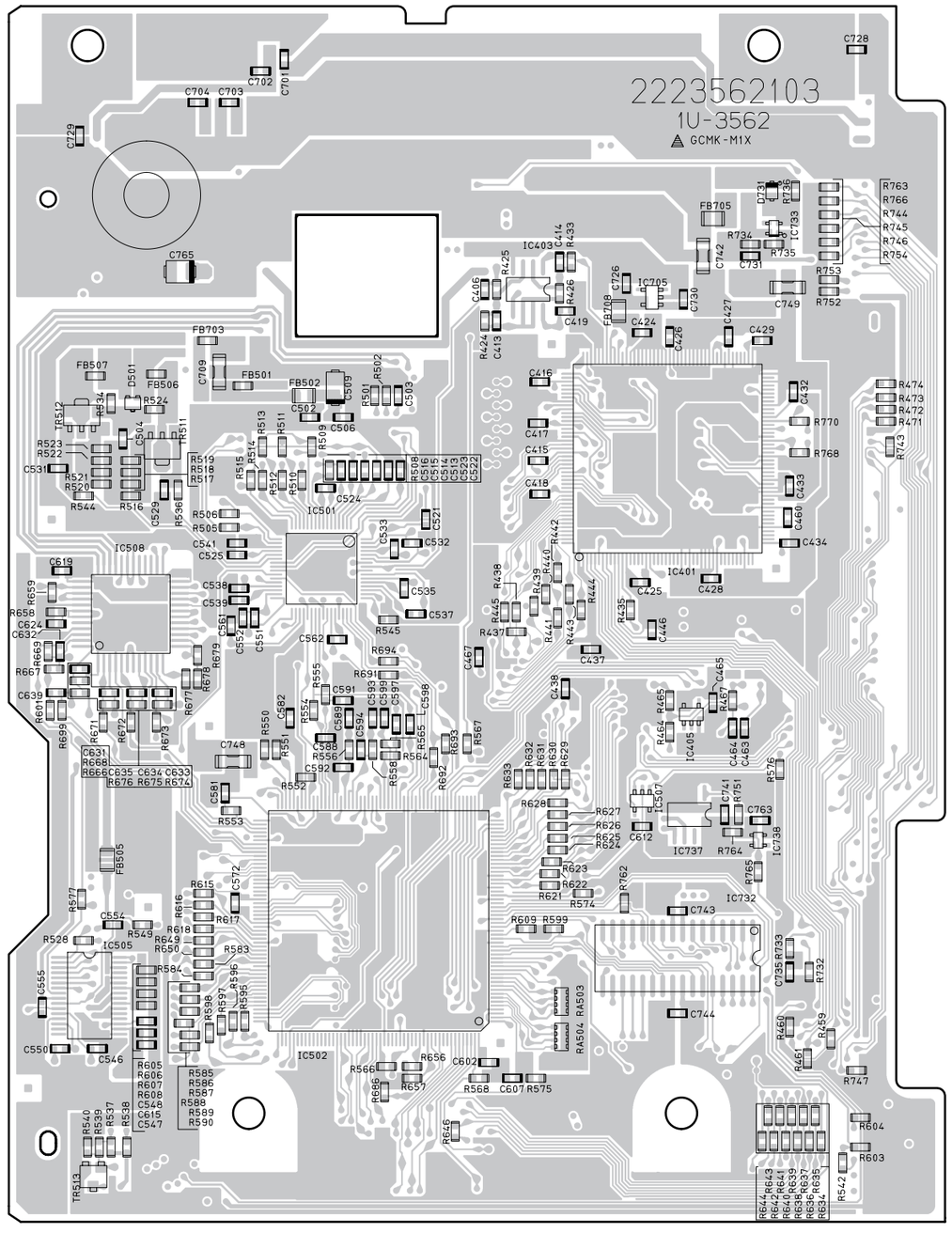
to 25pin
(J252)

to MPU (M30624FGNGP)

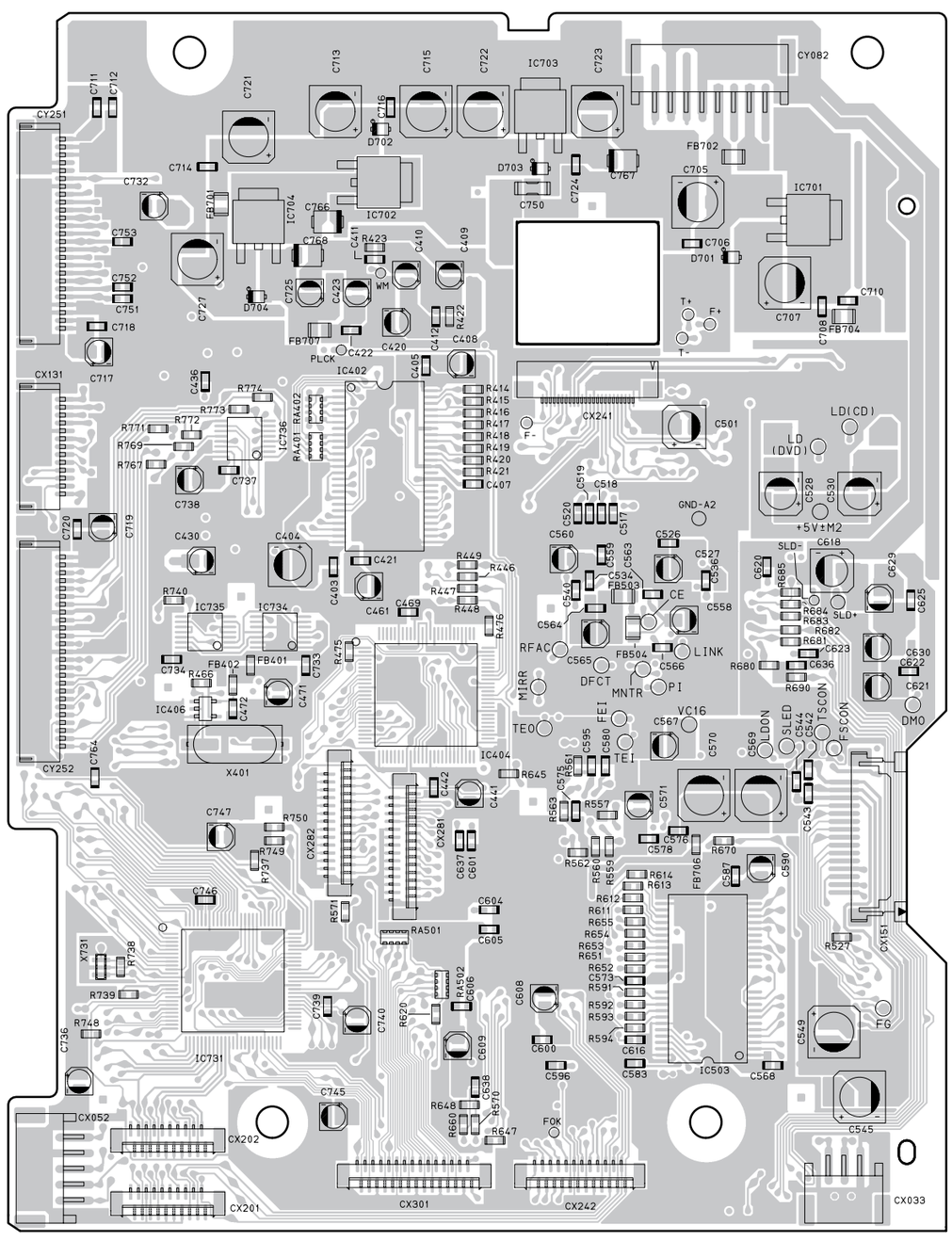
to
13PIN
(J131)

3.4 PARTS LOCATION

Super Audio CD MODULE UNIT



COMPONENT SIDE



FOIL SIDE

3.5 ELECTRICAL PARTS LIST

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
C403		nsp	DK98104200	CK73F1E104ZT	2570512903
C404		EY47600620	EY47600620	CE67C0J470MT(MV)	2544464964
C405		nsp	DK98104200	CK73F1E104ZT	2570512903
C406		nsp	DK96103300	CK73B1H103KT (1608)	2570501901
C407		nsp	DK98104200	CK73F1E104ZT	2570512903
C408		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C409		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C410		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C411		nsp	DK98104200	CK73F1E104ZT	2570512903
C412		nsp	DK98104200	CK73F1E104ZT	2570512903
C413		nsp	DD90020300	CC73CH1H2R0CT	2570502942
C414		nsp	DD90020300	CC73CH1H2R0CT	2570502942
C415		nsp	DK98104200	CK73F1E104ZT	2570512903
C416		nsp	DK98104200	CK73F1E104ZT	2570512903
C417		nsp	DK98104200	CK73F1E104ZT	2570512903
C418		nsp	DK98104200	CK73F1E104ZT	2570512903
C419		nsp	DK98104200	CK73F1E104ZT	2570512903
C420		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C421		nsp	DK98104200	CK73F1E104ZT	2570512903
C422		nsp	DK98104200	CK73F1E104ZT	2570512903
C423		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C424		nsp	DK98104200	CK73F1E104ZT	2570512903
C425		nsp	DK98104200	CK73F1E104ZT	2570512903
C426		nsp	DK98104200	CK73F1E104ZT	2570512903
C427		nsp	DK98104200	CK73F1E104ZT	2570512903
C428		nsp	DK98104200	CK73F1E104ZT	2570512903
C429		nsp	DK98104200	CK73F1E104ZT	2570512903
C430		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C432		nsp	DK98104200	CK73F1E104ZT	2570512903
C433		nsp	DK98104200	CK73F1E104ZT	2570512903
C434		nsp	DK98104200	CK73F1E104ZT	2570512903
C436		nsp	DK98104200	CK73F1E104ZT	2570512903
C437		nsp	DK98104200	CK73F1E104ZT	2570512903
C438		nsp	DK98104200	CK73F1E104ZT	2570512903
C441		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C442		nsp	DK98104200	CK73F1E104ZT	2570512903
C446		nsp	DK96102300	CK73B1H102KT	2570509929
C460		nsp	DK98104200	CK73F1E104ZT	2570512903
C461		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C463		nsp	DD90060300	CC73CH1H6R0DT	2570502984
C464		nsp	DD90060300	CC73CH1H6R0DT	2570502984
C465		nsp	DK98104200	CK73F1E104ZT	2570512903
C467		nsp	DK98104200	CK73F1E104ZT	2570512903
C469		nsp	DK98104200	CK73F1E104ZT	2570512903
C471		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C472		nsp	DK98104200	CK73F1E104ZT	2570512903
C501		EY47600620	EY47600620	CE67C0J470MT(MV)	2544464964
C502		nsp	DK98104200	CK73F1E104ZT	2570512903
C503		nsp	DK96103300	CK73B1H103KT (1608)	2570501901
C504		nsp	DK98104200	CK73F1E104ZT	2570512903
C506		nsp	DK98104200	CK73F1E104ZT	2570512903
C509		EY47501050	EY47501050	CS77B1A475MT	2572012906
C513		nsp	DK96222300	CK73B1H222KT	2570509990
C514		nsp	DK96222300	CK73B1H222KT	2570509990
C515		nsp	DK96222300	CK73B1H222KT	2570509990
C516		nsp	DK96222300	CK73B1H222KT	2570509990
C517		nsp	DD95220300	CC73CH1H220JT	2570504908
C518		nsp	DD95220300	CC73CH1H220JT	2570504908
C519		nsp	DD95220300	CC73CH1H220JT	2570504908
C520		nsp	DD95220300	CC73CH1H220JT	2570504908

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

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
C521		nsp	DK96104300	CK73B1E104KT	2570516954
C522		nsp	DK96472300	CK73B1H472KT	2570510934
C523		nsp	DK96472300	CK73B1H472KT	2570510934
C524		nsp	DK96331300	CC73CH1H331JT	2570507976
C525		nsp	DK98103300	CK73F1H103ZT	2570511904
C526		nsp	DK98103300	CK73F1H103ZT	2570511904
C527		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C528		EY47600620	EY47600620	CE67C0J470MT(MV)	2544464964
C529		nsp	DK96102300	CK73B1H102KT	2570509929
C530		EY47600620	EY47600620	CE67C0J470MT(MV)	2544464964
C531		nsp	DK96102300	CK73B1H102KT	2570509929
C532		nsp	DK96104300	CK73B1E104KT	2570516954
C533		nsp	DK96104300	CK73B1E104KT	2570516954
C534		nsp	DK96104300	CK73B1E104KT	2570516954
C535		nsp	DK96104300	CK73B1E104KT	2570516954
C536		nsp	DK96103300	CK73B1H103KT (1608)	2570501901
C537		nsp	DK96104300	CK73B1E104KT	2570516954
C538		nsp	DK96103300	CK73B1H103KT (1608)	2570501901
C539		nsp	DD95151300	CC73CH1H151JT	2570506993
C540		nsp	DK96102300	CK73B1H102KT	2570509929
C541		nsp	DK98104200	CK73F1E104ZT	2570512903
C545		EY10700620	EY10700620	CE67C0J101MT	2544464906
C546		nsp	DK98104200	CK73F1E104ZT	2570512903
C547		nsp	DK98104200	CK73F1E104ZT	2570512903
C548		nsp	DK98103300	CK73F1H103ZT	2570511904
C549		EY47601620	EY47601620	CE67C1C470MT	2544465918
C550		nsp	DK98104200	CK73F1E104ZT	2570512903
C551		nsp	DK96105200	CK73B1A105KT	2570521907
C554		nsp	DK96104300	CK73B1E104KT	2570516954
C555		nsp	DK98104200	CK73F1E104ZT	2570512903
C558		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C559		nsp	DK98104200	CK73F1E104ZT	2570512903
C560		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C561		nsp	DK96104300	CK73B1E104KT	2570516954
C562		nsp	DK96473200	CK73B1E473KT	2570516941
C563		nsp	DK98103300	CK73F1H103ZT	2570511904
C564		nsp	DK98103300	CK73F1H103ZT	2570511904
C565		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C566		nsp	DK98103300	CK73F1H103ZT	2570511904
C567		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C568		nsp	DK98104200	CK73F1E104ZT	2570512903
C569		EY22700690	EY22700690	CE67C0J221MT(MVA)	2544645903
C570		EY22700690	EY22700690	CE67C0J221MT(MVA)	2544645903
C571		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C572		nsp	DK98103300	CK73F1H103ZT	2570511904
C573		nsp	DK98103300	CK73F1H103ZT	2570511904
C575		nsp	DK98103300	CK73F1H103ZT	2570511904
C576		nsp	DK98103300	CK73F1H103ZT	2570511904
C578		nsp	DK98103300	CK73F1H103ZT	2570511904
C580		nsp	DK98103300	CK73F1H103ZT	2570511904
C581		nsp	DK96473200	CK73B1E473KT	2570516941
C582		nsp	DK98103300	CK73F1H103ZT	2570511904
C583		nsp	DK98103300	CK73F1H103ZT	2570511904
C587		nsp	DK98104200	CK73F1E104ZT	2570512903
C588		nsp	DK96331300	CC73CH1H331JT	2570507976
C589		nsp	DK96154200	CK73B1A154KT	2570520908
C590		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C591		nsp	DK96331300	CC73CH1H331JT	2570507976
C592		nsp	DK96471300	CC73CH1H471JT	2570508917
C593		nsp	DK96154200	CK73B1A154KT	2570520908

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

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
C594		nsp	DK96471300	CC73CH1H471JT	2570508917
C595		nsp	DK96104300	CK73B1E104KT	2570516954
C596		nsp	DK98103300	CK73F1H103ZT	2570511904
C597		nsp	DD95101300	CC73CH1H101JT	2570506951
C598		nsp	DK96223200	CK73B1E223KT	2570516909
C599		nsp	DK96223200	CK73B1E223KT	2570516909
C600		nsp	DK98103300	CK73F1H103ZT	2570511904
C601		nsp	DK98103300	CK73F1H103ZT	2570511904
C602		nsp	DK98103300	CK73F1H103ZT	2570511904
C604		nsp	DK98103300	CK73F1H103ZT	2570511904
C605		nsp	DK98103300	CK73F1H103ZT	2570511904
C606		nsp	DK98103300	CK73F1H103ZT	2570511904
C607		nsp	DK98104200	CK73F1E104ZT	2570512903
C608		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C609		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C612		nsp	DK98104200	CK73F1E104ZT	2570512903
C615		nsp	DK96102300	CK73B1H102KT	2570509929
C616		nsp	DK98104200	CK73F1E104ZT	2570512903
C618		EY33601020	EY33601020	CE67C1A330MT	2544575905
C619		nsp	DK98103300	CK73F1H103ZT	2570511904
C620		nsp	DK98103300	CK73F1H103ZT	2570511904
C621		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C622		nsp	DK98103300	CK73F1H103ZT	2570511904
C623		nsp	DK98103300	CK73F1H103ZT	2570511904
C624		nsp	DK98103300	CK73F1H103ZT	2570511904
C625		nsp	DK98103300	CK73F1H103ZT	2570511904
C629		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C630		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C631		nsp	DK96682300	CK73B1H682KT	2570510950
C632		nsp	DK96682300	CK73B1H682KT	2570510950
C633		nsp	DK96102300	CK73B1H102KT	2570509929
C634		nsp	DD95101300	CC73CH1H101JT	2570506951
C635		nsp	DD95101300	CC73CH1H101JT	2570506951
C636		nsp	DK96104300	CK73B1E104KT	2570516954
C637		nsp	DK98103300	CK73F1H103ZT	2570511904
C639		nsp	DK96682300	CK73B1H682KT	2570510950
C701		nsp	DK98104200	CK73F1E104ZT	2570512903
C702		nsp	DK98104200	CK73F1E104ZT	2570512903
C703		nsp	DK98104200	CK73F1E104ZT	2570512903
C704		nsp	DK98104200	CK73F1E104ZT	2570512903
C705		EY10700620	EY10700620	CE67C0J101MT	2544464906
C706		nsp	DK98104200	CK73F1E104ZT	2570512903
C707		EY10700620	EY10700620	CE67C0J101MT	2544464906
C708		nsp	DK98104200	CK73F1E104ZT	2570512903
C709		FM12223030	FM12223030	NFM41CC223R2A3L	2590015901
C710		nsp	DK98104200	CK73F1E104ZT	2570512903
C711		nsp	DK98104200	CK73F1E104ZT	2570512903
C712		nsp	DK98104200	CK73F1E104ZT	2570512903
C713		EY10700620	EY10700620	CE67C0J101MT	2544464906
C714		nsp	DK98104200	CK73F1E104ZT	2570512903
C715		EY10700620	EY10700620	CE67C0J101MT	2544464906
C716		nsp	DK98104200	CK73F1E104ZT	2570512903
C717		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C718		nsp	DK98104200	CK73F1E104ZT	2570512903
C719		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C720		nsp	DK98104200	CK73F1E104ZT	2570512903
C721		EY10700620	EY10700620	CE67C0J101MT	2544464906
C722		EY10700620	EY10700620	CE67C0J101MT	2544464906
C723		EY10700620	EY10700620	CE67C0J101MT	2544464906
C724		nsp	DK98104200	CK73F1E104ZT	2570512903

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

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
C725		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C726		nsp	DK98104200	CK73F1E104ZT	2570512903
C727		EY10700620	EY10700620	CE67C0J101MT	2544464906
C730		nsp	DK98104200	CK73F1E104ZT	2570512903
C731		nsp	DK96104300	CK73B1E104KT	2570516954
C732		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C733		nsp	DK98104200	CK73F1E104ZT	2570512903
C734		nsp	DK98104200	CK73F1E104ZT	2570512903
C735		nsp	DK98104200	CK73F1E104ZT	2570512903
C736		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C737		nsp	DK98104200	CK73F1E104ZT	2570512903
C738		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C739		nsp	DK98104200	CK73F1E104ZT	2570512903
C740		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C741		nsp	DK98104200	CK73F1E104ZT	2570512903
C742		FM12223030	FM12223030	NFM41CC223R2A3L	2590015901
C743		nsp	DK98104200	CK73F1E104ZT	2570512903
C744		nsp	DK98104200	CK73F1E104ZT	2570512903
C745		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C746		nsp	DK98104200	CK73F1E104ZT	2570512903
C747		EY22600620	EY22600620	CE67C0J220MT(MV-B)	2544464951
C748		FM12223030	FM12223030	NFM41CC223R2A3L	2590015901
C749		FM12223030	FM12223030	NFM41CC223R2A3L	2590015901
C750		FM12223030	FM12223030	NFM41CC223R2A3L	2590015901
C751		nsp	DK98104200	CK73F1E104ZT	2570512903
C752		nsp	DK98104200	CK73F1E104ZT	2570512903
C753		nsp	DK98104200	CK73F1E104ZT	2570512903
C764		nsp	DK98104200	CK73F1E104ZT	2570512903
CX033		nsp	nsp	3P PH CON.BASE(L)	2050863936
CX052		nsp	nsp	5P PH CON.BASE(L)	2050863952
CX131		nsp	nsp	13P FFC BASE(FMNSMT)	2051174954
CX151		nsp	nsp	15P FFC BASE(P=1.0)L	2051224901
CX241		nsp	nsp	24P FFC BASE(FLZ-SM1	2051152905
CY082		nsp	nsp	8P PH CON.BASE(L)	2050863981
CY251		nsp	nsp	25P FFC BASE(FMNSMT)	2051174983
CY252		nsp	nsp	25P FFC BASE(FMNSMT)	2051174983
D501		HZ21006000	HZ21006000	1SS300-TE85L	2760778900
D701		HZ21303210	HZ21303210	1SS355 TE-17	2760717903
D702		HZ21303210	HZ21303210	1SS355 TE-17	2760717903
D703		HZ21303210	HZ21303210	1SS355 TE-17	2760717903
D704		HZ21303210	HZ21303210	1SS355 TE-17	2760717903
D731		HZ21303210	HZ21303210	1SS355 TE-17	2760717903
FB401		*FC900330R	*FC900330R	FBMJ1608HS280NT	2350136907
FB402		*FC900330R	*FC900330R	FBMJ1608HS280NT	2350136907
FB501		*FC900320R	*FC900320R	CHIP EMIFIL(11A121)	2350130903
FB502		FC90020100	FC90020100	FB M J2125HM330-T	2350160902
FB503		FC90020100	FC90020100	FB M J2125HM330-T	2350160902
FB504		FC90020100	FC90020100	FB M J2125HM330-T	2350160902
FB505		FC90020100	FC90020100	FB M J2125HM330-T	2350160902
FB506		*FC900320R	*FC900320R	CHIP EMIFIL(11A121)	2350130903
FB507		*FC900320R	*FC900320R	CHIP EMIFIL(11A121)	2350130903
FB703		*FC900330R	*FC900330R	FBMJ1608HS280NT	2350136907
FB704		FC90020100	FC90020100	FB M J2125HM330-T	2350160902
FB705		FC90020100	FC90020100	FB M J2125HM330-T	2350160902
FB706		*FC900330R	*FC900330R	FBMJ1608HS280NT	2350136907
FB707		FC90020100	FC90020100	FB M J2125HM330-T	2350160902
FB708		FC90020100	FC90020100	FB M J2125HM330-T	2350160902
IC401		HC10081250	HC10081250	CXD2753R	2623217003
IC402		HC10156990	HC10156990	16M SDRAM(TSOP)-7/8	2622875006
IC403		HC10209990	HC10209990	AD8062-SO8	2623195905

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
IC404		*HC108610R	*HC108610R	EPM3128ATC100-10	2623282009
IC405		HC007705K0	HC007705K0	TC7SHU04F-TE85L	2623203907
IC406		HC007705K0	HC007705K0	TC7SHU04F-TE85L	2623203907
IC501		*HC108630R	*HC108630R	CXD1881AR	2623219001
IC502		*HC108640R	*HC108640R	CXD1885Q	2623218002
IC503		HC10210990	HC10210990	M11L16161SA-45T	2623210000
IC505		*HC108650R	*HC108650R	AN8471SA	2631109909
IC507		HC700805S0	HC700805S0	TC7S08FTE85L	2621782909
IC508		*HC108660R	*HC108660R	FAN8042	2623221002
IC701		HC96J33210	HC96J33210	BA033FP	2631079903
IC702		HC96J33210	HC96J33210	BA033FP	2631079903
IC703		HC98J18210	HC98J18210	BA18BC0FP-E2	2622977904
IC704		HC98A26090	HC98A26090	NJM2391DL1-26-TE1	2631182900
IC731		*HS13AKM0R	*HS13AKM0R	M30624FGNGP-MZ0614	2623280111
IC732		*HC108620R	*HC108620R	T14L1024N-12J(TAPE)	2623310900
IC733		HC10098530	HC10098530	S-80843CLNB-B64-T2	2623206904
IC734		HC005605K0	HC005605K0	TC74VHC74FT-EL	2623197903
IC735		HC005105K0	HC005105K0	TC74VHC00FT-EL	2623200900
IC736		HC005805K0	HC005805K0	TC74VHC157FT-EL	2623198902
IC737		HC10033990	HC10033990	AT24C04-10SC-1.8	2623211902
R414		nsp	NN05103610	RM73B--103JT	2472009983
R415		nsp	NN05103610	RM73B--103JT	2472009983
R416		nsp	NN05103610	RM73B--103JT	2472009983
R417		nsp	NN05103610	RM73B--103JT	2472009983
R418		nsp	NN05103610	RM73B--103JT	2472009983
R419		nsp	NN05103610	RM73B--103JT	2472009983
R420		nsp	NN05103610	RM73B--103JT	2472009983
R421		nsp	NN05103610	RM73B--103JT	2472009983
R422		nsp	NN05103610	RM73B--103JT	2472009983
R423		nsp	NN05332610	RM73B--332JT	2472008968
R424		nsp	NN05222610	RM73B--222JT	2472008926
R425		nsp	NN05202610	RM73B--202JT	2472008913
R426		nsp	NN05202610	RM73B--202JT	2472008913
R433		nsp	NN05222610	RM73B--222JT	2472008926
R435		nsp	NN05000610	RM73B--0R0KT	2472018903
R437		nsp	NN05220610	RM73B--220JT	2472003947
R438		nsp	NN05220610	RM73B--220JT	2472003947
R439		nsp	NN05220610	RM73B--220JT	2472003947
R440		nsp	NN05220610	RM73B--220JT	2472003947
R441		nsp	NN05220610	RM73B--220JT	2472003947
R442		nsp	NN05220610	RM73B--220JT	2472003947
R443		nsp	NN05220610	RM73B--220JT	2472003947
R444		nsp	NN05220610	RM73B--220JT	2472003947
R445		nsp	NN05220610	RM73B--220JT	2472003947
R446		nsp	NN05220610	RM73B--220JT	2472003947
R447		nsp	NN05220610	RM73B--220JT	2472003947
R448		nsp	NN05220610	RM73B--220JT	2472003947
R449		nsp	NN05220610	RM73B--220JT	2472003947
R459		nsp	NN05103610	RM73B--103JT	2472009983
R460		nsp	NN05103610	RM73B--103JT	2472009983
R461		nsp	NN05272610	RM73B--272JT	2472008942
R464		nsp	NN05330610	RM73B--330JT	2472003989
R465		nsp	NN05330610	RM73B--330JT	2472003989
R466		nsp	NN05105610	RM73B--105JT	2472014965
R467		nsp	NN05391610	RM73B--391JT	2472006944
R471		nsp	NN05222610	RM73B--222JT	2472008926
R472		nsp	NN05222610	RM73B--222JT	2472008926
R473		nsp	NN05222610	RM73B--222JT	2472008926
R474		nsp	NN05222610	RM73B--222JT	2472008926
R475		nsp	NN05103610	RM73B--103JT	2472009983

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

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
R476		nsp	NN05103610	RM73B--103JT	2472009983
R501		nsp	NN05820610	RM73B--820JT	2472004988
R502		nsp	NN05101610	RM73B--101JT	2472005903
R505		nsp	NN05000610	RM73B--0R0KT	2472018903
R506		nsp	NN05000610	RM73B--0R0KT	2472018903
R508		nsp	NN05152610	RM73B--152JT	2472007985
R509		nsp	NN05152610	RM73B--152JT	2472007985
R510		nsp	NN05152610	RM73B--152JT	2472007985
R511		nsp	NN05152610	RM73B--152JT	2472007985
R512		nsp	NN05152610	RM73B--152JT	2472007985
R513		nsp	NN05152610	RM73B--152JT	2472007985
R514		nsp	NN05152610	RM73B--152JT	2472007985
R515		nsp	NN05152610	RM73B--152JT	2472007985
R516		nsp	NN05560610	RM73B--560JT	2472004946
R517		nsp	NN05560610	RM73B--560JT	2472004946
R518		nsp	NN05560610	RM73B--560JT	2472004946
R519		nsp	NN05560610	RM73B--560JT	2472004946
R520		nsp	NN05470610	RM73B--470JT	2472004920
R521		nsp	NN05470610	RM73B--470JT	2472004920
R522		nsp	NN05470610	RM73B--470JT	2472004920
R523		nsp	NN05470610	RM73B--470JT	2472004920
R524		nsp	NN05124610	RM73B--124JT	2472012941
R527		nsp	NN05101610	RM73B--101JT	2472005903
R528		nsp	NN05101610	RM73B--101JT	2472005903
R534		nsp	NN05124610	RM73B--124JT	2472012941
R536		nsp	NN05102610	RM73B--102JT	2472007943
R537		nsp	NN05104610	RM73B--104JT	2472012925
R538		nsp	NN05181610	RM73B--181JT	2472005961
R539		nsp	NN05473610	RM73B--473JT	2472011942
R540		nsp	NN05104610	RM73B--104JT	2472012925
R542		nsp	NN05000610	RM73B--0R0KT	2472018903
R544		nsp	NN05102610	RM73B--102JT	2472007943
R545		NM11202020	NM11202020	RM73B--123FT	2472019960
R549		nsp	NN05000610	RM73B--0R0KT	2472018903
R550		nsp	NN05000610	RM73B--0R0KT	2472018903
R551		nsp	NN05000610	RM73B--0R0KT	2472018903
R552		nsp	NN05000610	RM73B--0R0KT	2472018903
R553		nsp	NN05333610	RM73B--333JT	2472011900
R554		nsp	NN05103610	RM73B--103JT	2472009983
R555		nsp	NN05103610	RM73B--103JT	2472009983
R556		nsp	NN05102610	RM73B--102JT	2472007943
R557		nsp	NN05223610	RM73B--223JT	2472010969
R558		nsp	NN05182610	RM73B--182JT	2472008900
R559		nsp	NN05104610	RM73B--104JT	2472012925
R560		nsp	NN05473610	RM73B--473JT	2472011942
R561		nsp	NN05683610	RM73B--683JT	2472011984
R562		nsp	NN05471610	RM73B--471JT	2472006960
R563		nsp	NN05154610	RM73B--154JT	2472012967
R564		nsp	NN05473610	RM73B--473JT	2472011942
R565		nsp	NN05563610	RM73B--563JT	2472011968
R566		nsp	NN05103610	RM73B--103JT	2472009983
R567		nsp	NN05330610	RM73B--330JT	2472003989
R568		nsp	NN05103610	RM73B--103JT	2472009983
R570		nsp	NN05000610	RM73B--0R0KT	2472018903
R571		nsp	NN05000610	RM73B--0R0KT	2472018903
R574		nsp	NN05000610	RM73B--0R0KT	2472018903
R577		nsp	NN05000610	RM73B--0R0KT	2472018903
R583		nsp	NN05000610	RM73B--0R0KT	2472018903
R584		nsp	NN05000610	RM73B--0R0KT	2472018903
R585		nsp	NN05000610	RM73B--0R0KT	2472018903

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

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
R586		nsp	NN05000610	RM73B--0R0KT	2472018903
R587		nsp	NN05000610	RM73B--0R0KT	2472018903
R588		nsp	NN05000610	RM73B--0R0KT	2472018903
R589		nsp	NN05000610	RM73B--0R0KT	2472018903
R590		nsp	NN05000610	RM73B--0R0KT	2472018903
R591		nsp	NN05000610	RM73B--0R0KT	2472018903
R592		nsp	NN05000610	RM73B--0R0KT	2472018903
R593		nsp	NN05000610	RM73B--0R0KT	2472018903
R594		nsp	NN05000610	RM73B--0R0KT	2472018903
R595		nsp	NN05000610	RM73B--0R0KT	2472018903
R596		nsp	NN05000610	RM73B--0R0KT	2472018903
R597		nsp	NN05000610	RM73B--0R0KT	2472018903
R598		nsp	NN05000610	RM73B--0R0KT	2472018903
R599		nsp	NN05103610	RM73B--103JT	2472009983
R601		nsp	NN05223610	RM73B--223JT	2472010969
R603		nsp	NN05103610	RM73B--103JT	2472009983
R604		nsp	NN05103610	RM73B--103JT	2472009983
R605		nsp	NN05010610	RM73B--010KT	2472018916
R606		nsp	NN05010610	RM73B--010KT	2472018916
R607		nsp	NN05010610	RM73B--010KT	2472018916
R608		nsp	NN05010610	RM73B--010KT	2472018916
R609		nsp	NN05103610	RM73B--103JT	2472009983
R611		nsp	NN05101610	RM73B--101JT	2472005903
R612		nsp	NN05101610	RM73B--101JT	2472005903
R613		nsp	NN05101610	RM73B--101JT	2472005903
R614		nsp	NN05101610	RM73B--101JT	2472005903
R615		nsp	NN05101610	RM73B--101JT	2472005903
R616		nsp	NN05101610	RM73B--101JT	2472005903
R617		nsp	NN05101610	RM73B--101JT	2472005903
R618		nsp	NN05101610	RM73B--101JT	2472005903
R620		nsp	NN05000610	RM73B--0R0KT	2472018903
R621		nsp	NN05220610	RM73B--220JT	2472003947
R622		nsp	NN05220610	RM73B--220JT	2472003947
R623		nsp	NN05220610	RM73B--220JT	2472003947
R624		nsp	NN05220610	RM73B--220JT	2472003947
R625		nsp	NN05220610	RM73B--220JT	2472003947
R626		nsp	NN05220610	RM73B--220JT	2472003947
R627		nsp	NN05220610	RM73B--220JT	2472003947
R628		nsp	NN05220610	RM73B--220JT	2472003947
R629		nsp	NN05220610	RM73B--220JT	2472003947
R630		nsp	NN05220610	RM73B--220JT	2472003947
R631		nsp	NN05220610	RM73B--220JT	2472003947
R632		nsp	NN05220610	RM73B--220JT	2472003947
R633		nsp	NN05220610	RM73B--220JT	2472003947
R634		nsp	NN05101610	RM73B--101JT	2472005903
R635		nsp	NN05330610	RM73B--330JT	2472003989
R636		nsp	NN05101610	RM73B--101JT	2472005903
R637		nsp	NN05330610	RM73B--330JT	2472003989
R638		nsp	NN05330610	RM73B--330JT	2472003989
R639		nsp	NN05101610	RM73B--101JT	2472005903
R640		nsp	NN05101610	RM73B--101JT	2472005903
R641		nsp	NN05101610	RM73B--101JT	2472005903
R642		nsp	NN05330610	RM73B--330JT	2472003989
R643		nsp	NN05330610	RM73B--330JT	2472003989
R644		nsp	NN05330610	RM73B--330JT	2472003989
R645		nsp	NN05103610	RM73B--103JT	2472009983
R646		nsp	NN05103610	RM73B--103JT	2472009983
R647		nsp	NN05103610	RM73B--103JT	2472009983
R649		nsp	NN05101610	RM73B--101JT	2472005903
R650		nsp	NN05101610	RM73B--101JT	2472005903

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

POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
R651		nsp	NN05101610	RM73B--101JT	2472005903
R652		nsp	NN05101610	RM73B--101JT	2472005903
R653		nsp	NN05101610	RM73B--101JT	2472005903
R654		nsp	NN05101610	RM73B--101JT	2472005903
R655		nsp	NN05101610	RM73B--101JT	2472005903
R656		nsp	NN05103610	RM73B--103JT	2472009983
R657		nsp	NN05103610	RM73B--103JT	2472009983
R658		nsp	NN05103610	RM73B--103JT	2472009983
R659		nsp	NN05103610	RM73B--103JT	2472009983
R666		nsp	NN05223610	RM73B--223JT	2472010969
R667		nsp	NN05223610	RM73B--223JT	2472010969
R668		nsp	NN05223610	RM73B--223JT	2472010969
R669		nsp	NN05223610	RM73B--223JT	2472010969
R670		nsp	NN05512610	RM73B--512JT	2472009912
R671		nsp	NN05563610	RM73B--563JT	2472011968
R672		nsp	NN05563610	RM73B--563JT	2472011968
R673		nsp	NN05563610	RM73B--563JT	2472011968
R674		nsp	NN05333610	RM73B--333JT	2472011900
R675		nsp	NN05333610	RM73B--333JT	2472011900
R676		nsp	NN05333610	RM73B--333JT	2472011900
R677		nsp	NN05103610	RM73B--103JT	2472009983
R678		nsp	NN05103610	RM73B--103JT	2472009983
R678		nsp	NN05103610	RM73B--103JT	2472009983
R679		nsp	NN05103610	RM73B--103JT	2472009983
R679		nsp	NN05103610	RM73B--103JT	2472009983
R680		nsp	NN05000610	RM73B--0R0KT	2472018903
R681		nsp	NN05000610	RM73B--0R0KT	2472018903
R682		nsp	NN05000610	RM73B--0R0KT	2472018903
R683		nsp	NN05000610	RM73B--0R0KT	2472018903
R684		nsp	NN05000610	RM73B--0R0KT	2472018903
R685		nsp	NN05000610	RM73B--0R0KT	2472018903
R686		nsp	NN05103610	RM73B--103JT	2472009983
R686		nsp	NN05103610	RM73B--103JT	2472009983
R690		nsp	NN05103610	RM73B--103JT	2472009983
R691		nsp	NN05101610	RM73B--101JT	2472005903
R692		nsp	NN05101610	RM73B--101JT	2472005903
R693		nsp	NN05101610	RM73B--101JT	2472005903
R694		nsp	NN05101610	RM73B--101JT	2472005903
R699		nsp	NN05223610	RM73B--223JT	2472010969
R732		nsp	NN05103610	RM73B--103JT	2472009983
R733		nsp	NN05682610	RM73B--682JT	2472009941
R734		nsp	NN05822610	RM73B--822JT	2472009967
R735		nsp	NN05392610	RM73B--392JT	2472008984
R736		nsp	NN05221610	RM73B--221JT	2472005987
R737		nsp	NN05223610	RM73B--223JT	2472010969
R739		nsp	NN05103610	RM73B--103JT	2472009983
R740		nsp	NN05100610	RM73B--100JT	2472002964
R743		nsp	NN05562610	RM73B--562JT	2472009925
R744		nsp	NN05223610	RM73B--223JT	2472010969
R745		nsp	NN05223610	RM73B--223JT	2472010969
R746		nsp	NN05223610	RM73B--223JT	2472010969
R747		nsp	NN05223610	RM73B--223JT	2472010969
R748		nsp	NN05103610	RM73B--103JT	2472009983
R749		nsp	NN05103610	RM73B--103JT	2472009983
R750		nsp	NN05103610	RM73B--103JT	2472009983
R751		nsp	NN05103610	RM73B--103JT	2472009983
R752		nsp	NN05102610	RM73B--102JT	2472007943
R753		nsp	NN05102610	RM73B--102JT	2472007943
R754		nsp	NN05102610	RM73B--102JT	2472007943
R762		nsp	NN05103610	RM73B--103JT	2472009983

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POS. NO	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MJI)	DESCRIPTION	
R763		nsp	NN05223610	RM73B--223JT	2472010969
R766		nsp	NN05223610	RM73B--223JT	2472010969
R767		nsp	NN05330610	RM73B--330JT	2472003989
R768		nsp	NN05330610	RM73B--330JT	2472003989
R769		nsp	NN05330610	RM73B--330JT	2472003989
R770		nsp	NN05330610	RM73B--330JT	2472003989
R771		nsp	NN05330610	RM73B--330JT	2472003989
R772		nsp	NN05330610	RM73B--330JT	2472003989
R773		nsp	NN05330610	RM73B--330JT	2472003989
R774		nsp	NN05330610	RM73B--330JT	2472003989
RA401		*BW000350R	*BW000350R	MNR14=220JE0AB	2479003908
RA402		*BW000350R	*BW000350R	MNR14=220JE0AB	2479003908
RA501		BW05103320	BW05103320	MNR14=103JE0	2479007917
RA502		BW05103320	BW05103320	MNR14=103JE0	2479007917
RA503		BW05103320	BW05103320	MNR14=103JE0	2479007917
RA504		BW05103320	BW05103320	MNR14=103JE0	2479007917
TR511		HX207982A0	HX207982A0	2SB798(DL/DK)-T1	2720166905
TR512		HX207982A0	HX207982A0	2SB798(DL/DK)-T1	2720166905
TR513		*HX300090R	*HX300090R	2SC2412KT96(S)	2730384900
X401		JX33001470	JX33001470	XTAL(33.8688/HC-49)	3990901902
X731		FQ01605120	FQ01605120	CSTCE16MOV53-R0	3990887903

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