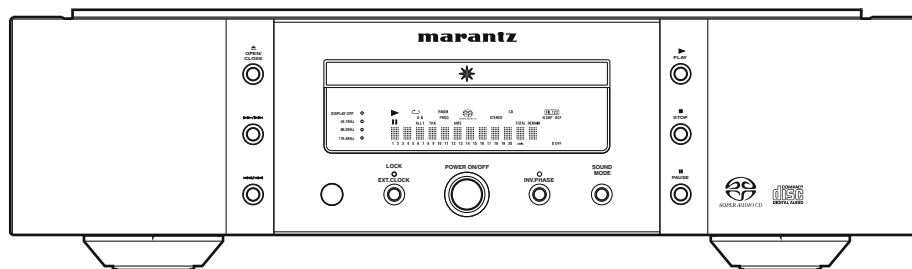


# Service Manual

SA-11S2 /F N/K1G/N1G/N1S/U1G

Super Audio CD Player

SA-11S2



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Please use this service manual with referring to the user guide ( D.F.U. ) without fail.

修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

# marantz®

## SA-11S2

## MARANTZ DESIGN AND SERVICE

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

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

### ORDERING PARTS :

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

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

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

#### USA

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

#### EUROPE / TRADING

**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

**D&M CANADA INC.**  
5-505 APPLE CREEK BLVD.  
MARKHAM, ONTARIO L3R 5B1  
CANADA

#### JAPAN

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

株式会社 ディーアンドエムホールディングス

本 社 〒210-8569  
神奈川県川崎市川崎区日進町2-1 D&Mビル

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FAX : +82 - 2 - 323 - 2154

#### CHINA

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

### NOTE ON SAFETY :

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

### 安全上の注意 :

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

### SHOCK, FIRE HAZARD SERVICE TEST :

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

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

Ref. UL Standard No. 6500.

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                            |
|-------------------------------|-------------------------------|-------------------------------|
| <b>Audio Characteristics</b>  |                               |                               |
| Analog output                 |                               |                               |
| Channels                      | 2 channels                    | 2 channels                    |
| Frequency range               | 2 Hz — 100 kHz                | 2 Hz — 20 kHz                 |
| Frequency characteristics     | 2 Hz — 50 kHz (-3 dB)         | 2 Hz — 20 kHz                 |
| Dynamic range                 | 114 dB (Filter 3)             | 100 dB (Filter 1)             |
| S/N Ratio (A-weighted)        | 112 dB (Filter 3)             | 115 dB (Filter 1)             |
| THD (1kHz)                    | 0.0009 % (Filter 3)           | 0.0020 % (Filter 1)           |
| Wow & Flutter                 | Precision of quartz           | Precision of quartz           |
| Output level                  |                               |                               |
| Unbalanced                    | 2.5 V RMS stereo (Filter 3)   | 2.3 V RMS stereo (Filter 1)   |
| Balanced                      | 5 V RMS stereo (Filter 3)     | 4.6 V RMS stereo (Filter 1)   |
| Digital output                |                               |                               |
| Output level (Cinch JACK)     | —                             | 0.5 Vp-p (75 Ω)               |
| Output level (Optical)        | —                             | -19 dBm                       |
| <b>Ext. Clock input</b>       |                               |                               |
| Clock frequency               | 44.1 kHz, 88.2 kHz, 176.4 kHz |                               |
| Input level (BNC terminal)    | 1 V — 5 Vp-p (75 Ω)           |                               |
| <b>Optical Readout System</b> |                               |                               |
| Laser                         | AlGaAs                        | AlGaAs                        |
| Wave length                   | 650 nm                        | 780 nm                        |
| <b>Signal format</b>          |                               |                               |
| Sampling frequency            | 1-bit DSD<br>2.8224 MHz       | 16-bit linear PCM<br>44.1 kHz |

### Power Supply

Input Voltage, Frequency

[F].....AC 100V 50/60 Hz

[K].....AC 220V 50 Hz

[N].....AC 230V 50 Hz

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

Power Consumption.....26 W

### Cabinet, etc.

Dimensions (Width × Height × Depth)

.....17-5/16 × 5 × 16-1/4 ins. (440 × 127 × 413 mm)

Net weight.....36.4 lbs (16.5 kg)

Operating temperatures.....+5 °C ~ +35 °C

Operating humidity.....5 ~ 90 % (without dew)

### Accessories

• Remote control unit (RC001SA).....1

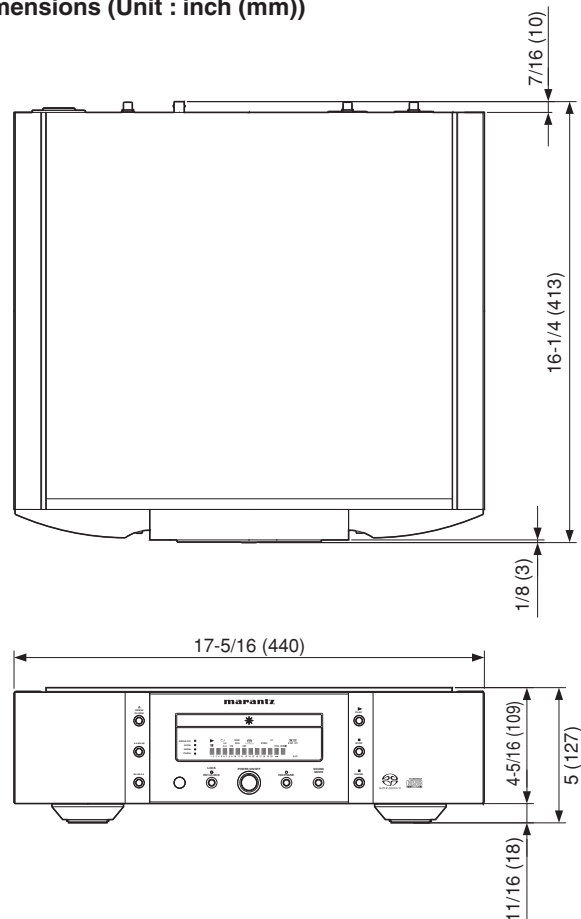
• AAA (R03) Batteries.....2

• AC Power cord.....1

• Audio cable.....1

• User's Guide.....1

### Dimensions (Unit : inch (mm))

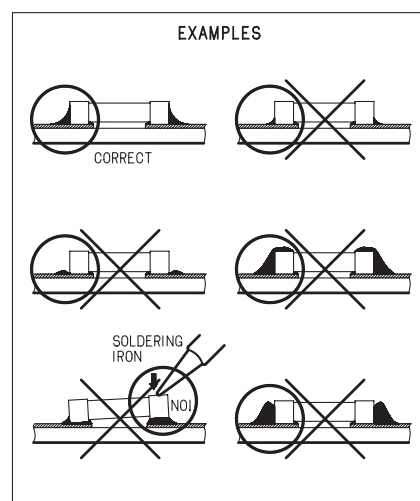
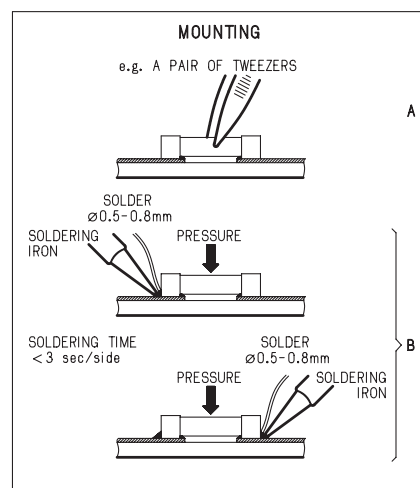
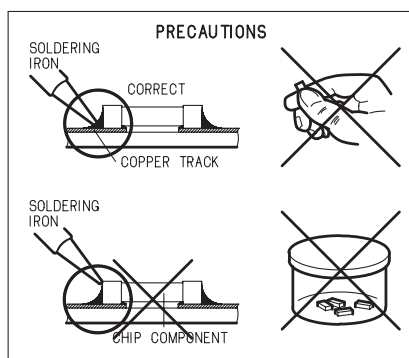
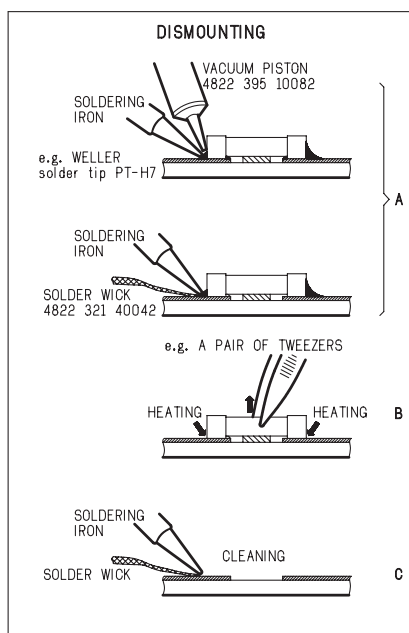
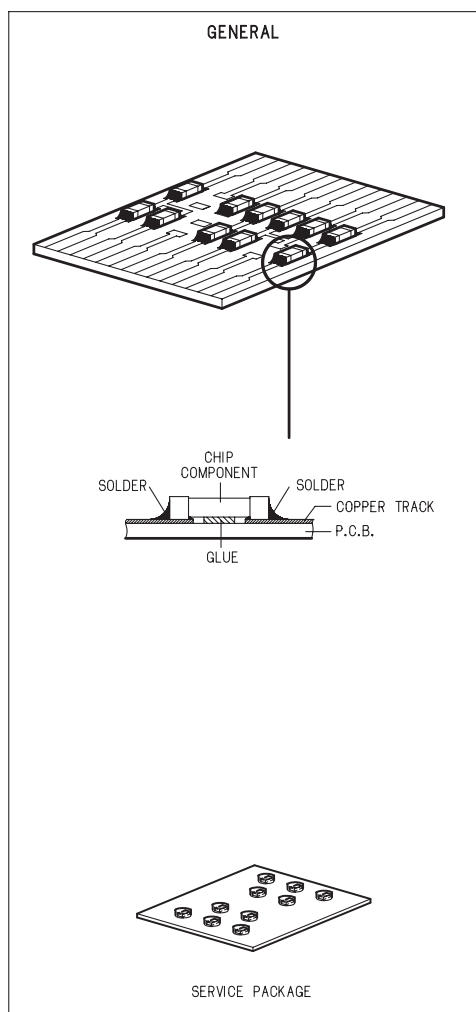


## UPDATE DISC

Update of the CPU (IC731).....90M-SA11S1DVD

## 2. SERVICE HINTS AND TOOLS

### SERVICE HINTS



### SERVICE TOOLS

Audio signals disc  
Disc without errors +  
Disc with DO errors, black spots and fingerprints  
Disc (65 min 1kHz) without no pause  
Max. diameter disc (58.0 mm)  
Torx screwdrivers  
Set (straight)  
Set (square)  
13th order filter  
DVD test disc (PAL)  
DVD test disc (NTSC) ALMEDIO

4822 397 30184 or TCD-784

4822 397 30245 (SBC444A) or TCD-726

4822 397 30155

4822 397 60141

4822 395 50145

4822 395 50132

4822 395 30204

4822 397 10131

TDV-540

070703MZ

### 3. WARNING AND LASER SAFETY INSTRUCTIONS

(GB)

#### WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.

Keep components and tools also at this potential.

ESD



(NL)

#### WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.

Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op hetzelfde 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 à 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 à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D)

#### WARNUNG

Alle IC und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).

Unvorsorgfältige 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 gespecificeerde worden toegepast.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerats darf nicht verändert 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 ricambiaggio idetici a quelli specificati.

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

(F)

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

### LASER SAFETY

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



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 COVERSIELD

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 NÅR DENNA DEL ÅR 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

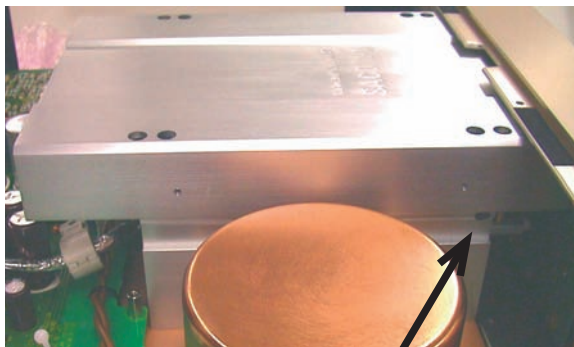
#### 4. TAKING THE DISC OUT OF EMERGENCY

Push the Eject Lever, Disc tray is opened and Disc is taken out.

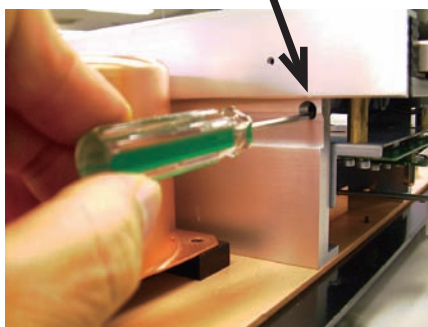
1. Push the eject lever by the pin ( $\phi 6\text{mm}$  or less).
2. The Disc tray opens, Now you can remove the disc

Discの取り出しは、イジェクトレバーを押すとトレイが開きディスクを取り出せます。

1. ピン（直径6mm以下）でイジェクトレバーを押します。
2. ディスクトレイが開きディスクを取り出せます。



This hole is used  
この穴にピンを差し込みます

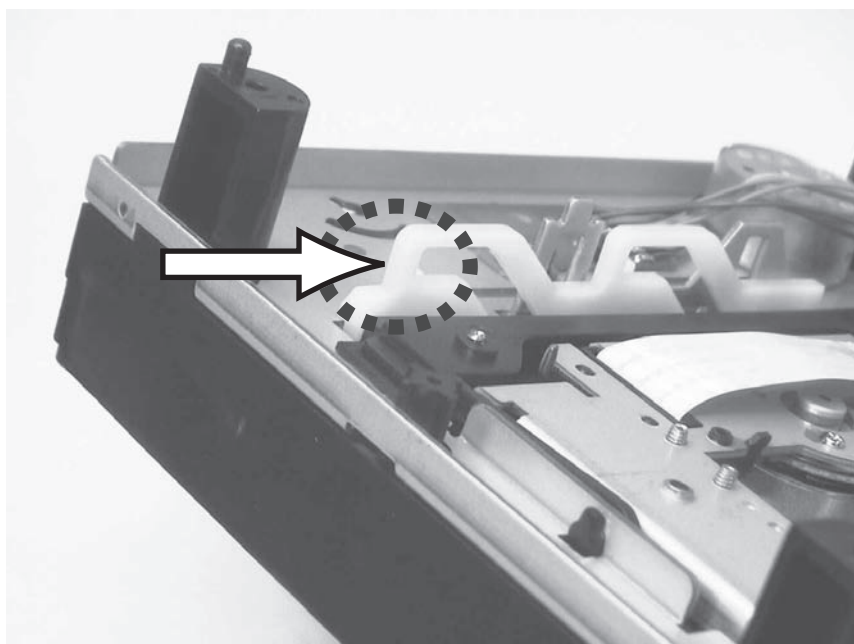


This picture shows the unit upside down. The eject lever is pointed by the arrow.

The lever is thin so aim the narrow area carefully.

この図はメカニズムの裏側です。矢印がイジェクトレバーです。

イジェクトレバーの押す部分の幅は狭いので、注意し押ししてください。



## 5. UPDATE FIRMWARE

### Necessary Equipment

- UPDATE DISC. (90M-SA11S1DVD)

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

### Writing Procedure

1. Press the **POWER** button while pressing the **PLAY** and **STOP** buttons.
2. Press the **OPEN/CLOSE** button to open the tray, Insert the update DVD-ROM (part No.:90M-SA11S1DVD).
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 DVD-ROM from the disc tray.

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

## ファームウェアのアップデート方法

### 必要機器

- UPDATE DISC. (90M-SA11S1DVD)

**注意 )** 書き換え中は、ディスクトレイ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。

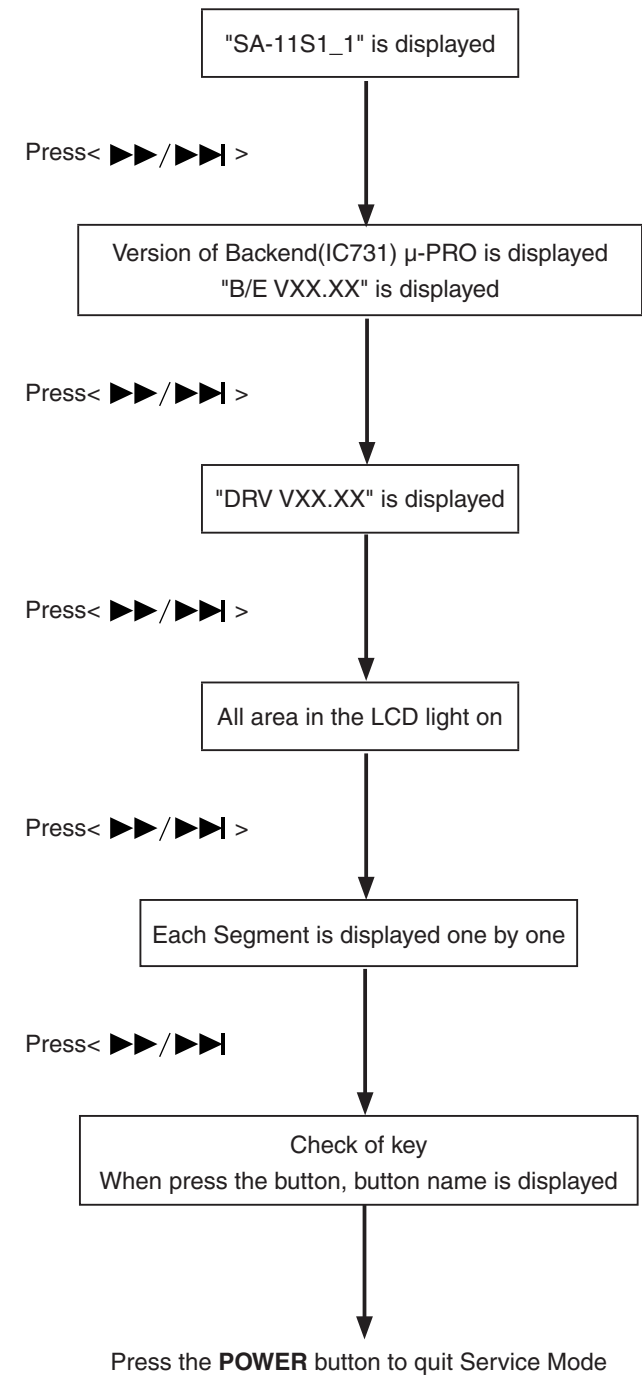
### 手順

1. **PLAY**と**STOP**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DVD-ROM (部品番号90M-SA11S1DVD)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イ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. ディスクトレイからDVD-ROMを取り出します。

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

6. SERVICE MODE

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



Error 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 I edgmen |
| NO DISC XXXX | NO disc                                |

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

## 7. L/R OUTPUT LEVEL ADJUSTMENT PROCEDURE

### Cases adjustment is needs

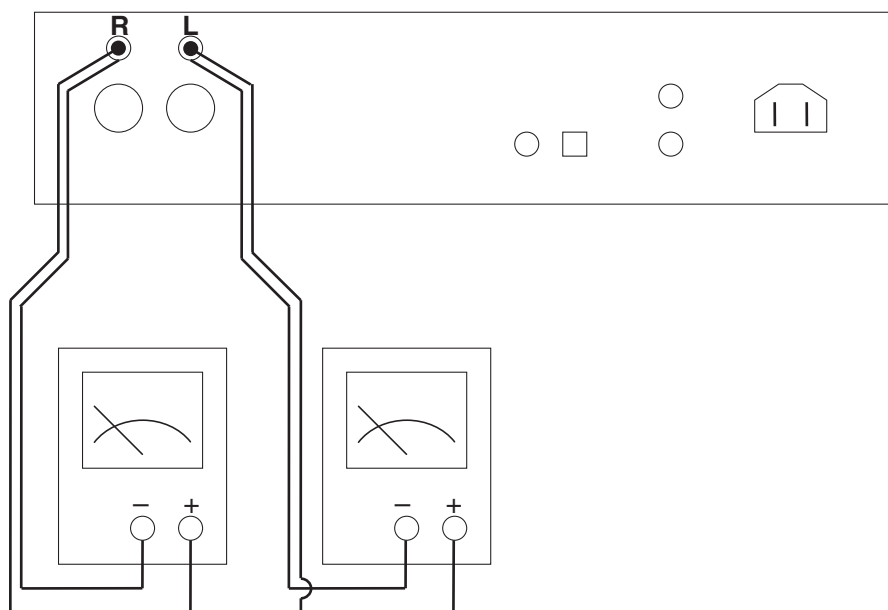
When a Q201 or Q251 is replaced.

### Necessary equipments

- AC voltmeter 2 sets (or Oscilloscope)
- CD TEST DISC: CBC429 Audio signal disc1 (4822-397-30155)

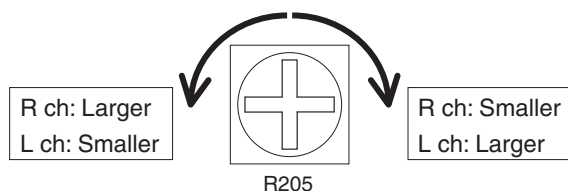
### Connection procedure

- Connect the ANALOG OUTPUTS terminal (L/R) on the rear panel and AC voltmeter with cable as follow.



### Adjustment procedure

1. Play back the Track 1 (1 kHz 0dB L+R) of the TEST DISC (SBC429).
2. Adjust trimming resistor (R205) according to AC voltmeter readings of L ch output level and R ch output level.
3. The output level difference of the L ch and R ch is adjusted to less than 50mV.  
If R205 is turned clockwise, the level of L ch will become large, and if it turns to anticlockwise rotation, the level of R ch will become large.



## 7. L/R出力レベル調整手順

### 調整が必要な場合

Q201またはQ251を交換した時に調整が必要になります。

### 必要機器

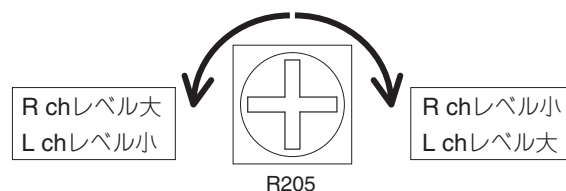
- 交流電圧計 2台 (またはオシロスコープ)
- CDテストディスク CBC429 Audio signal disc1 (4822-397-30155)

### 接続図

- リアパネルにあるANALOG OUTPUTS端子L、Rをそれぞれ交流電圧計に接続します。

### 調整方法

1. テストディスク(SBC429)のTr.1 (1kHz 0dB L+R)を再生します。
2. 交流電圧計でL ch、R chの出力レベル差50mV未満になるようにR205で調整します。  
R205を時計方向に回すとL chのレベルが大きくなり、反時計方向に回すとR chのレベルが大きくなります。



# 8. TROUBLESHOOTING AND HINT

## VSTEM ERROR

[A] VSTEM ERRORS can be broadly divided into the following three cases:

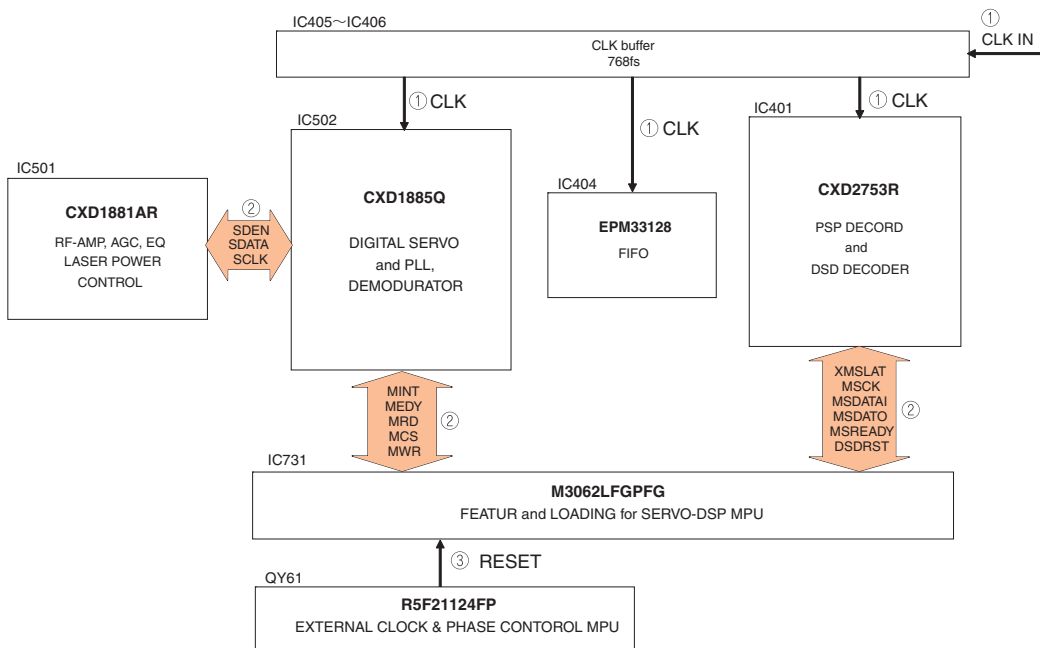
- Case I: Inside SACD Engine PWB - when the IC and MPU cannot communicate (always occur)
- Case II: Outside SACD Engine PWB - when the MASTER CLOCK is not supplied to the ENGINE or each IC (always occur)
- Case III: When the power is ON and the RESET signal is not distributed (seldom occur)

### Case I

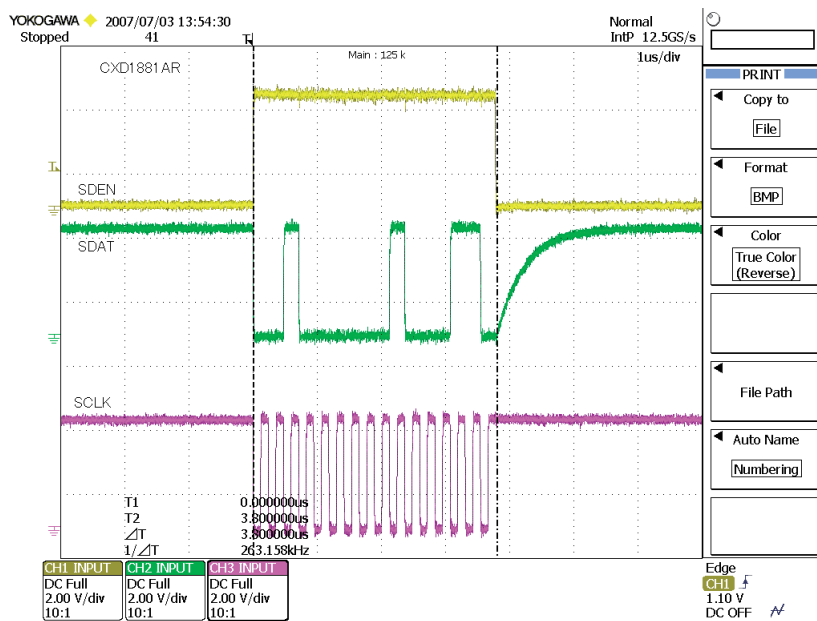
Check ① (CLK LINE) and ② (MPU communication interface) on the PWB.

The block diagram below shows how each block relates to others. Check that there is no problem with communication and clock supply between ICs.

Inside SACD Engine PWB : Check the signal at each of ① - ③ on the PWB.



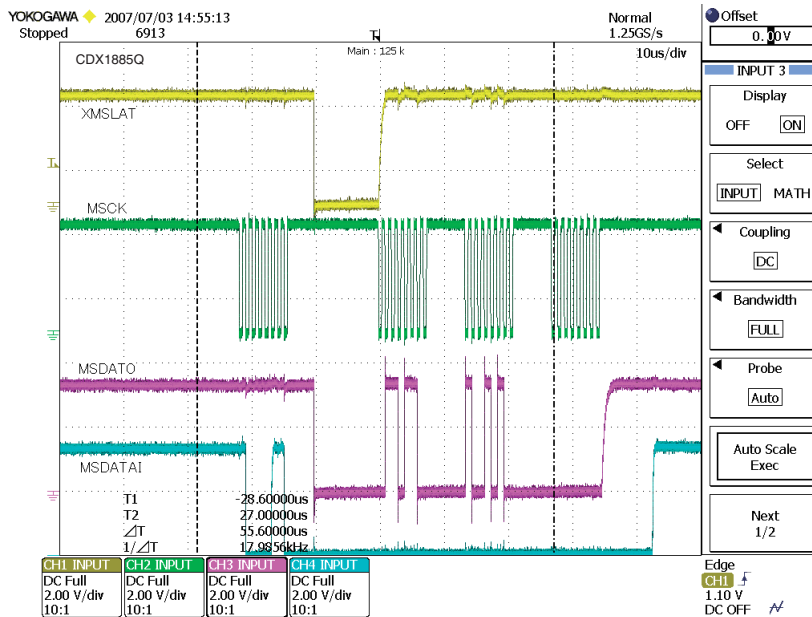
### CXD1881AR Communication



## CXD2753AR Communication



## CDX1885Q Communication



### Case II

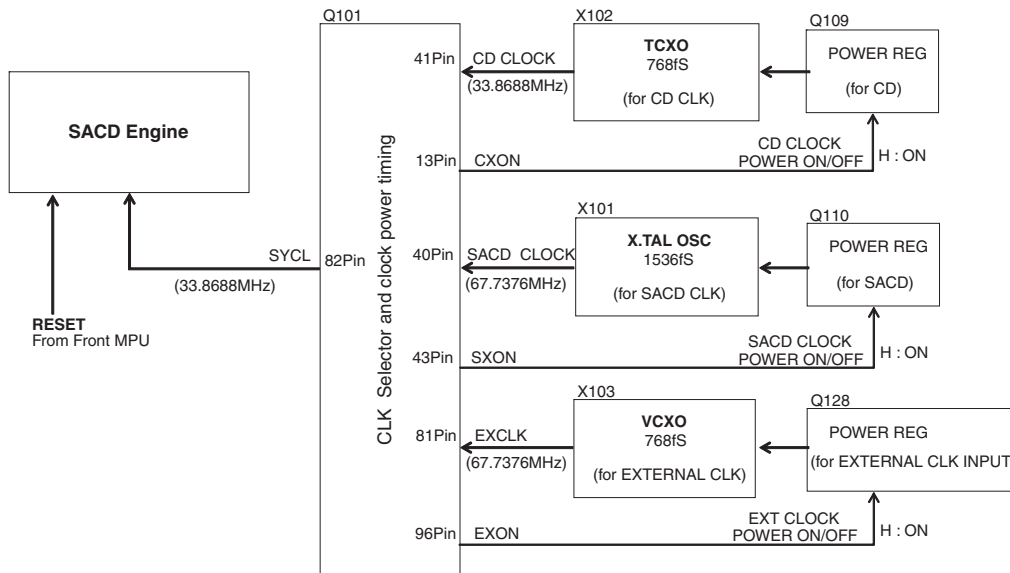
#### 1. The CLOCK flows as next page on the Block Flow diagram below. Check each point.

The Q101 controls the switch and power supply of each CLOCK. Just as the main power is turned on, it switches on Q109, Q110 and Q128 at once. It determines the timing of turning off unnecessary clocks when the three power supplies are stabilized.

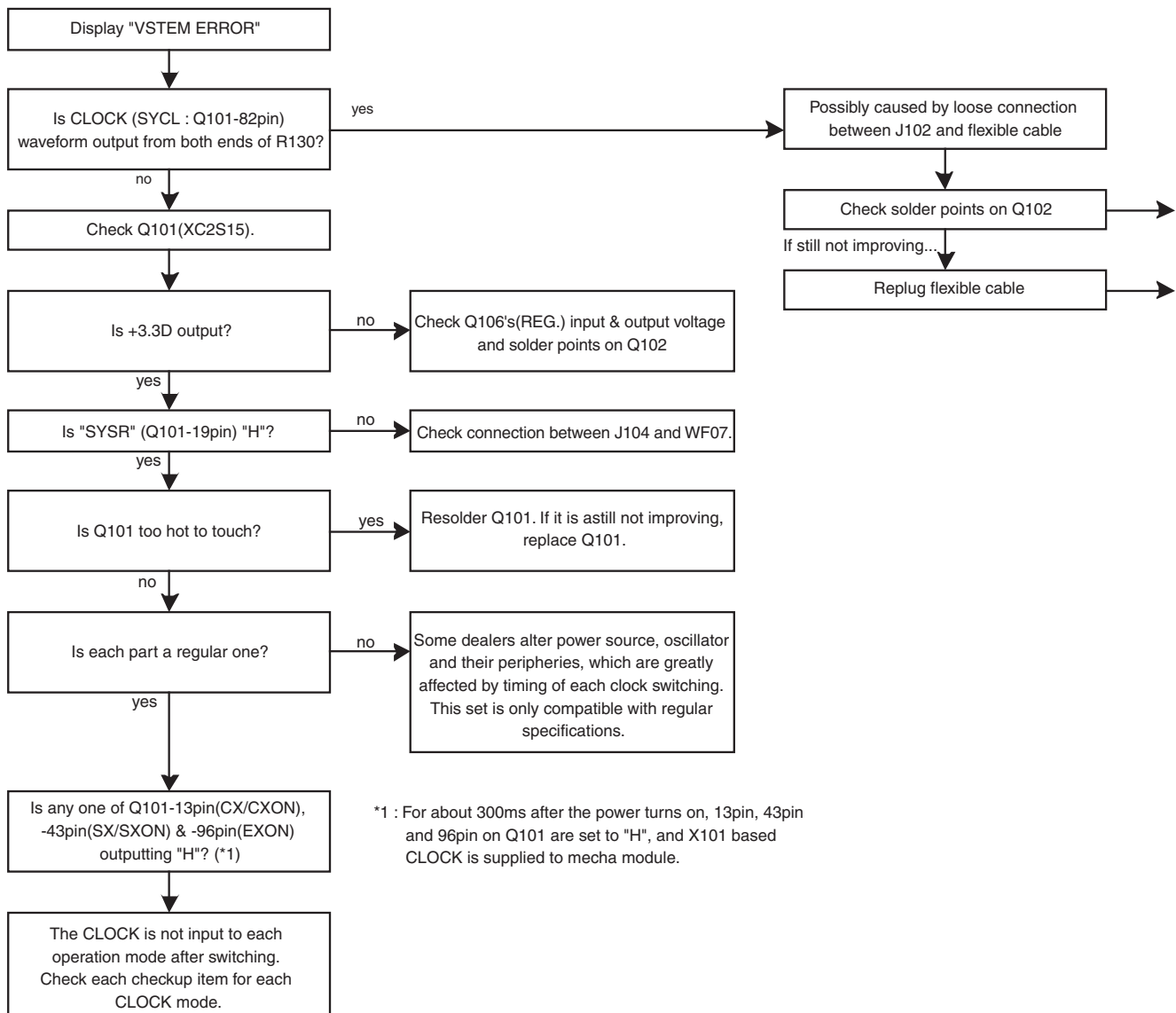
Here is an outline of how the VSTEM ERRORS are caused:

- 1) The capacitance of the chemical condensers (C122, C152 and C139) in the power section of Q109, Q110 and Q128 each cannot be changed, with the power timing thrown off. Sets with a modified clock have the timing misaligned for the above reasons. These errors are caused by the MASTER CLOCK momentarily functioning abnormally from Q101 (SYCL). After that, the CLOCK returns to normal, so it is prone to undergo an unexplained VSTEM ERROR.
- 2) When Q101 will not supply CLOCK to the ENGINE, it inevitably has a VSTEM ERROR.
- 3) The error is attributed to the fact that the RESET signal is not distributed to the ENGINE when the power is ON or misaligned timing (as shown on the Block Diagram). Check the flexible wire that connects CX131 and JM03.

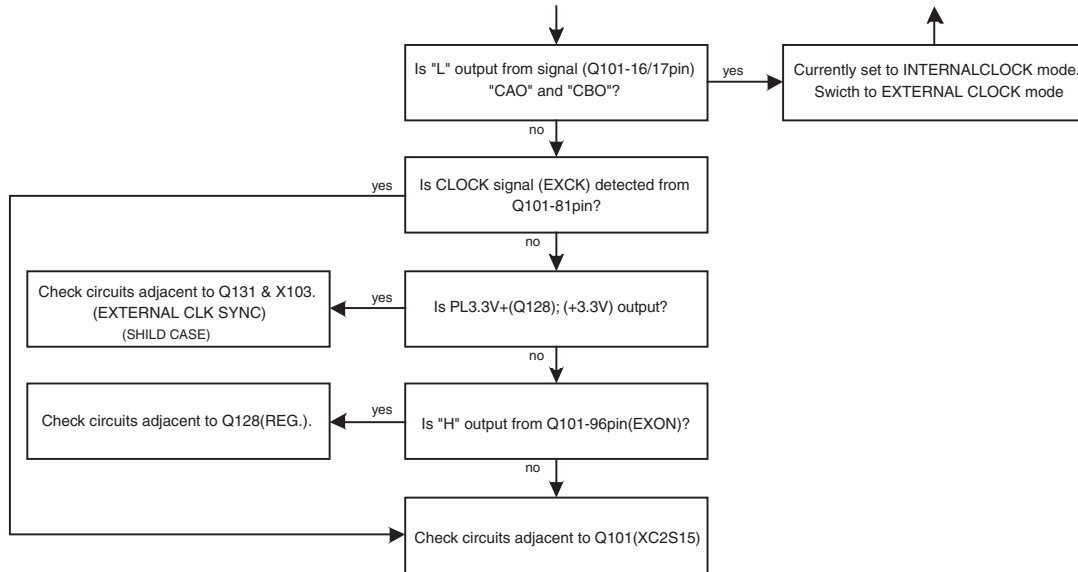
MASTER CLK SUPPLY FOR SACD ENGINE FIG



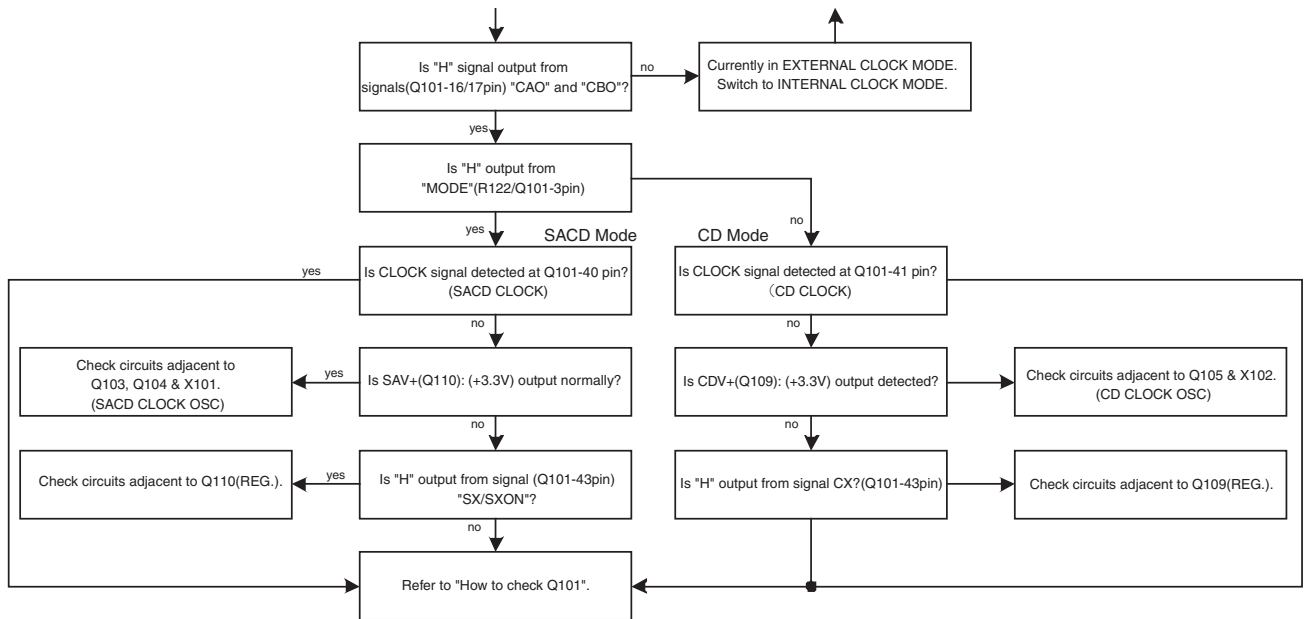
## 2. Check circuits adjacent to Q101 (PA16)



## EXTERNAL CLOCK MODE



## INTERNAL CLOCK MODE

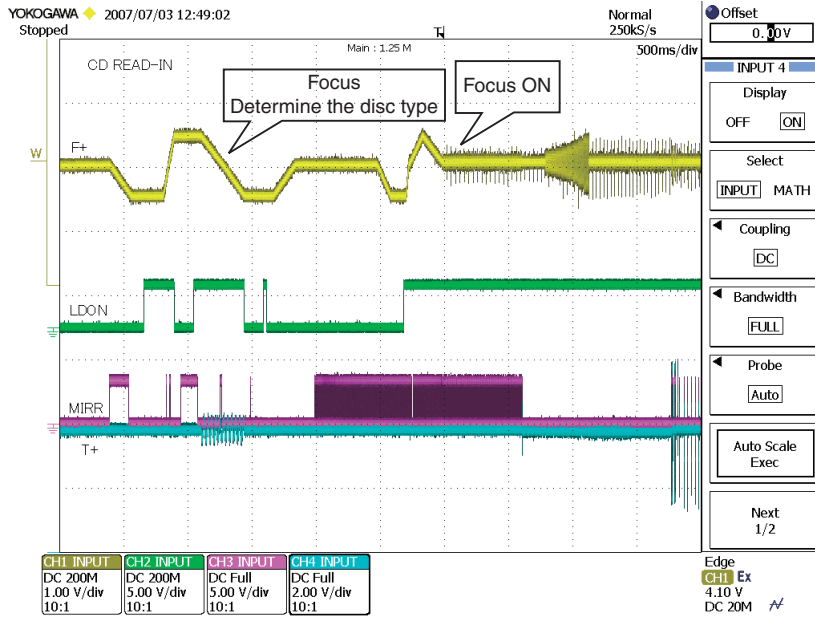


### [B] SACD Engine OPU Block

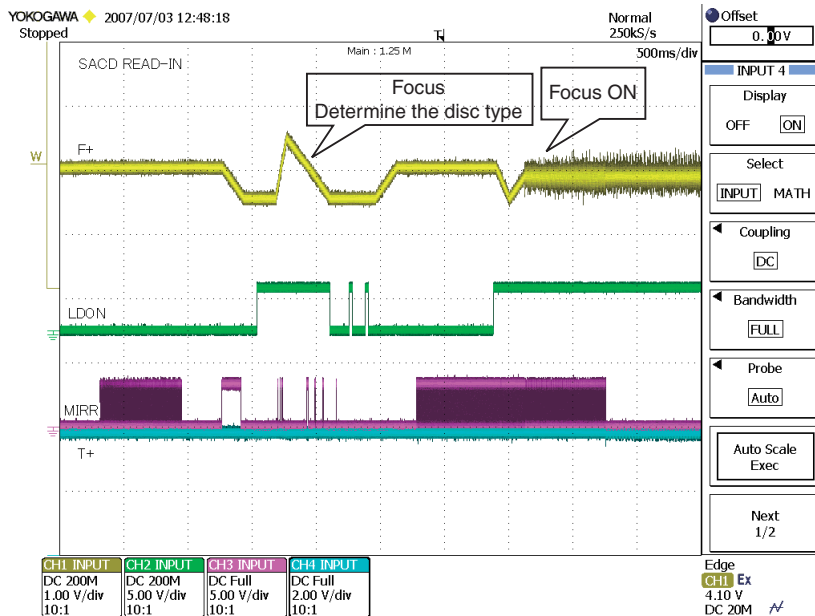
#### 1. OPU MOTION SEQUENCE

- 1) Start the SLEDG MOTOR and move the OPU to the TOC area.
- 2) Light the laser and move the FOCUS MOTOR up and down.
- 3) Determine the disc type and the reflectance when the FOCUS MOTOR is moving up and down.  
 F+: FOCUS MOTOR  
 T+: TRACKING MOTOR  
 LDON: LASER ON  
 MIRR: REFLECT DISC MIRROR
- 4) Display "CAN'T PLAY" when the disc type and the reflectance cannot be determined correctly. (This action is performed only once if the unit has a normal OPU. If the OPU is worn out or a substandard disc is loaded, the same message is repeatedly displayed 3 to 5 times. This is the most typical problem caused by OPU abnormalities.)
- 5) Start the SPIN MOTOR and TRACKING MOTOR and then PLAY subsequent to the TOC motion. (Any subsequent functional problem is attributed to an error in determining the disc type in Process 3).

## CD TOC



## SACD TOC



## 2. SIMPLE METHODS OF DETERMINING MALFUNCTIONS OF THE OPU AND CIRCUITRY

- 1) If a malfunction occurs to only one of the DISC and CD/SACD, it is mostly caused by an OPU abnormality.
- 2) Most OPU abnormalities are caused by laser degradation. In this case, the HF (VRF) OUT terminal output measures low.
- 3) If the laser current is high, the HF (VRF) OUT terminal also outputs a high current. High jitters, signals of the adjacent tracks and loud noise... These can be erased by upping the R502 (100~820Ω).
- 4) If the laser current is low, the HF (VRF) OUT terminal outputs a low current. The HF signal cannot be detected and the PLL and SPIN MOTOR get out of control and stop. These can be rectified by lowering the R502 (100~820Ω).

## 3. OBSERVATION OF THE HF

HF output voltage while playing CDs/SACDs

- 1) VRF: The HF from the OPU is first to be measured by the connector (CX241-10 pin) VRF. The VRF output level is not constant, depending on wear variations of the OPU.

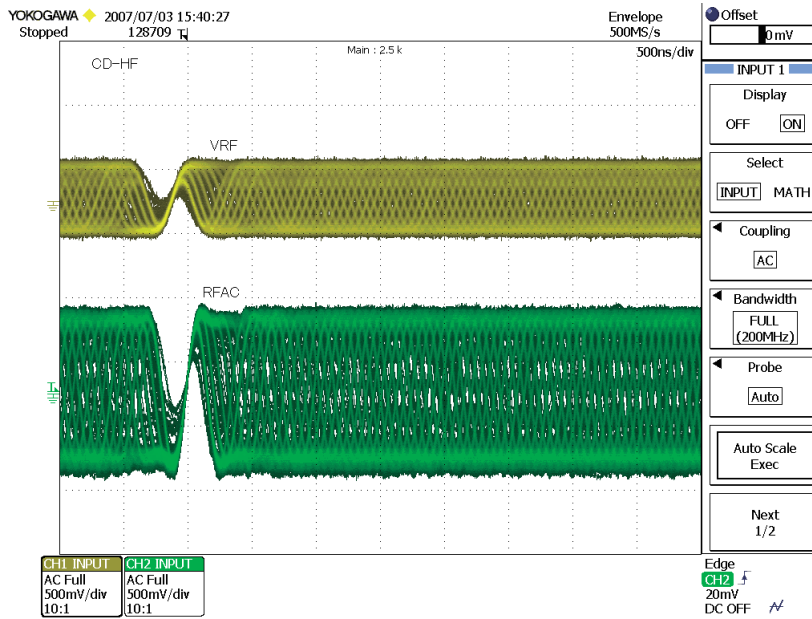
Referential figures

CD/CDR/CDRW: 120~650mv

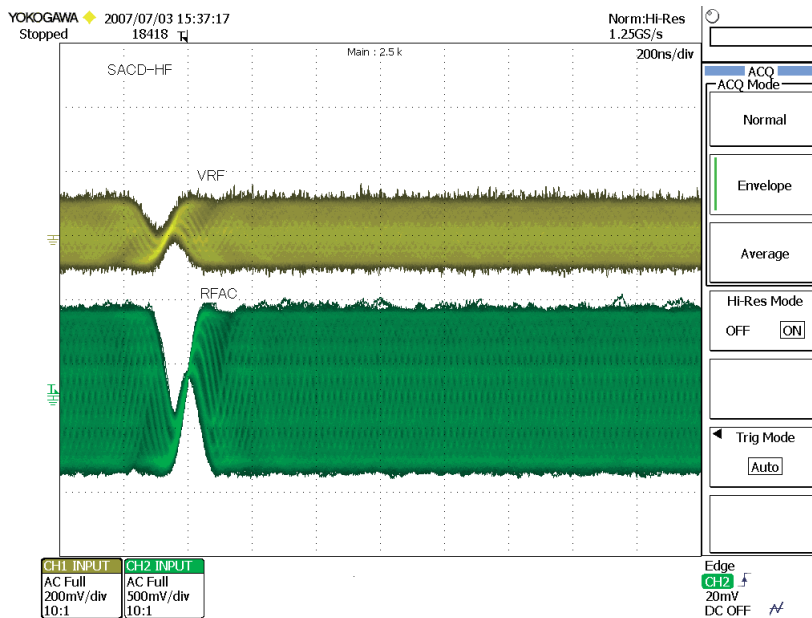
SACD: 180~800mv

- 2) RFAC: IC501 (CDX1881AR) output is regulated at approximately 1.3V by the auto-gain control.
- 3) WM: SACD watermark is analyzed by the HF, which is regulated at approximately 1.4V.

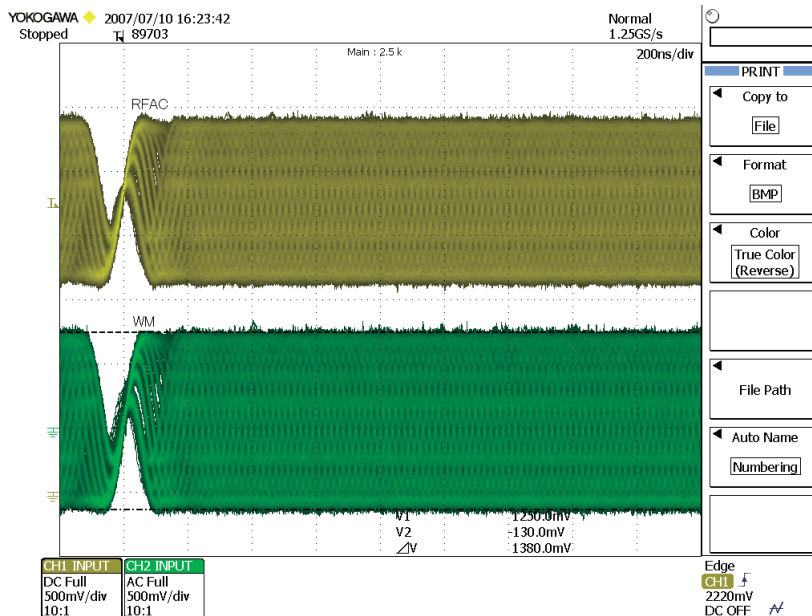
## CD HF



## SACD HF



## FRAC & WM



## 8. TROUBLESHOOTING AND HINT

## VSTEM ERROR

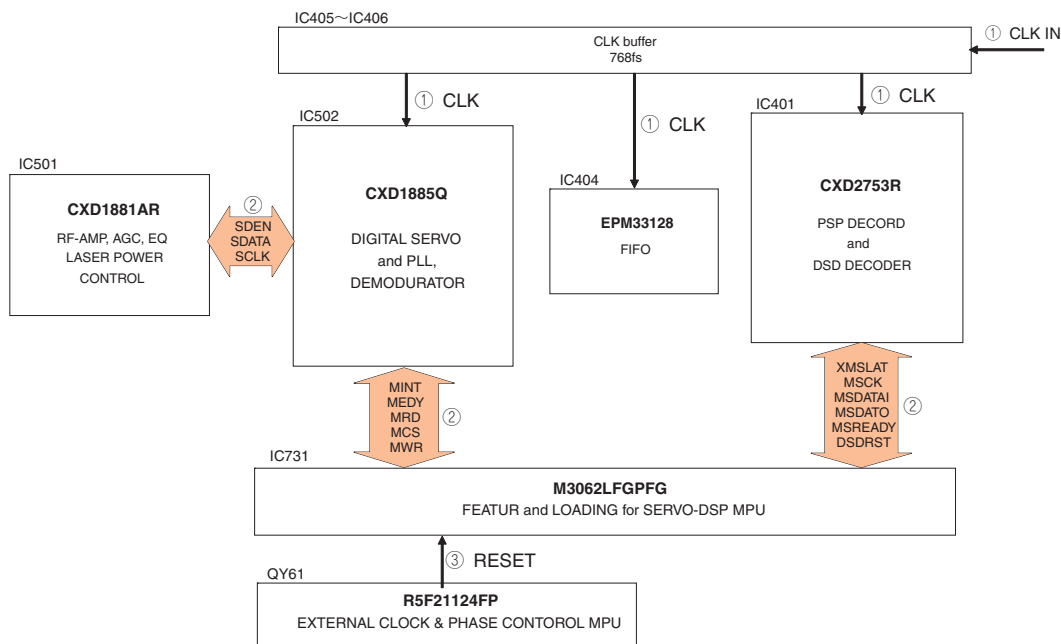
**[A] VSTEM ERRORは大別し以下3通り。**

- Engineブロック内部：ICとMPUの通信が不能となった時。(必ず発生)
- Engineブロック外部：MASTER CLOCKがEngineに供給されない、各ICに供給されない時。(必ず発生)
- Engineに電源ON時RESET信号が伝わらない時(ERROR現象発生しにくい)

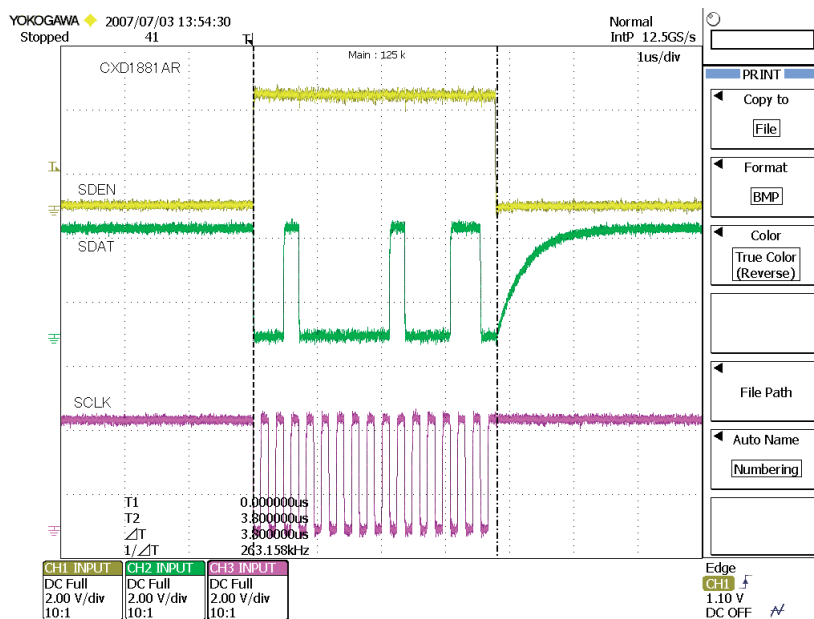
### SACD Engineブロック内部：

Engine基板の、①(CLK LINE)と②(MPUの通信インターフェイス)をチェック。下の概略block図のようになっており通信回路とclockの供給が各IC間で問題ないかをチェック。

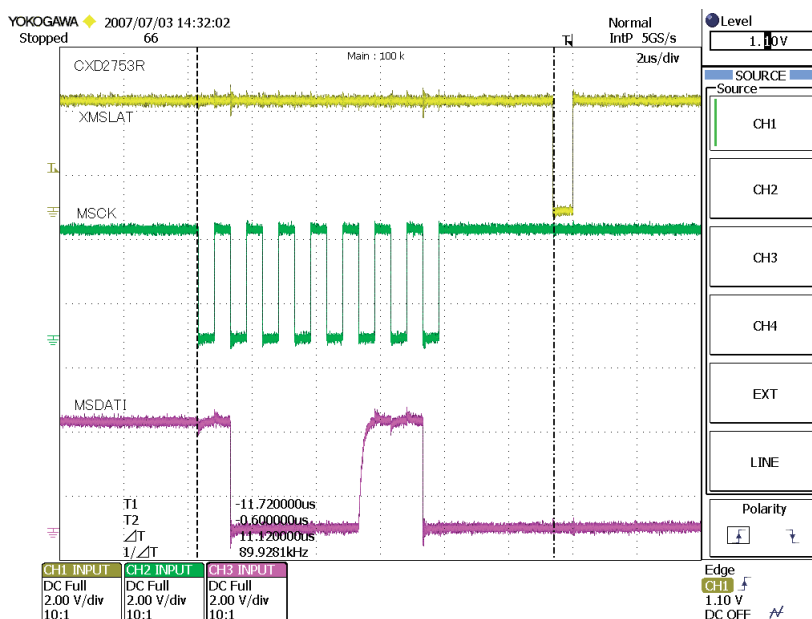
**SACD Engineブロック内部の時**：Engine基板の、①～③の信号をチェックする。



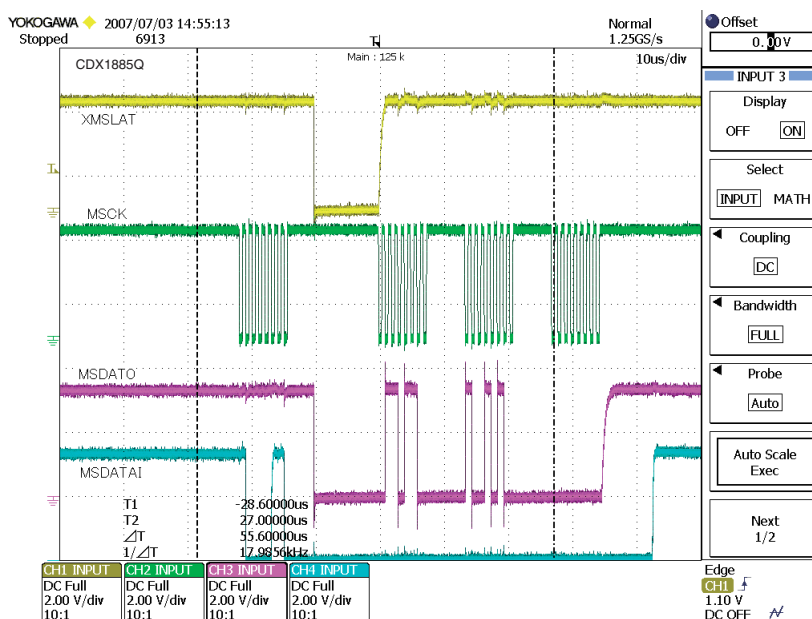
## CXD1881AR Communication



## CXD2753AR Communication



## CDX1885Q Communication



### SACD Engineブロック外部：

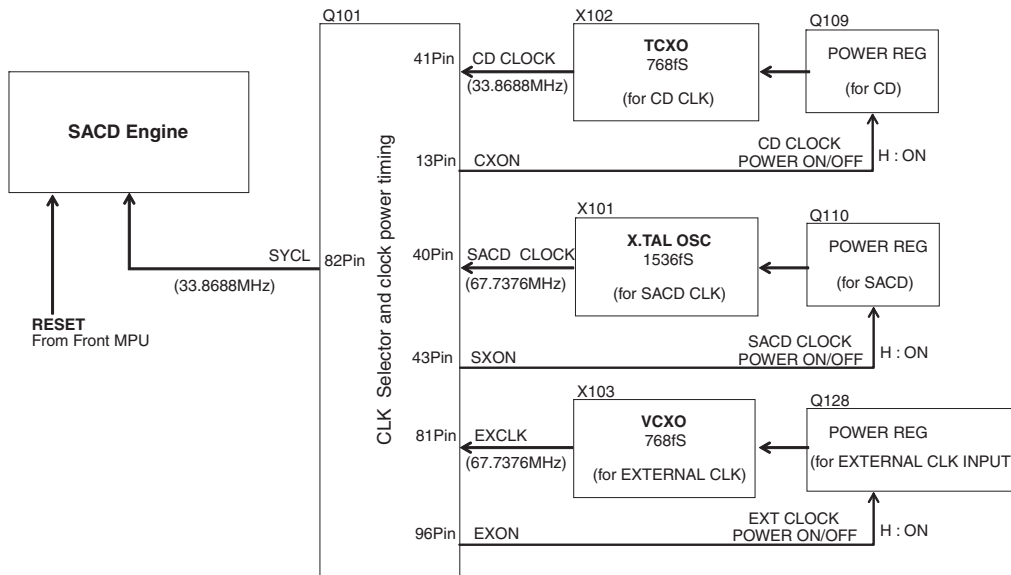
#### 1. 次頁、Block Flowの様にCLOCKが流れるので各ポイントをチェック。

Q101は、各CLOCKのSwitchと電源をコントロールしている。セットのメイン電源ON直後、Q109, Q110, Q128を同時にONとする。3つの電源が安定になった時間(timing)に於いて必要なCLOCKの電源以外をOFFとする。

概略の"VSTEM ERROR"の発生する要点を以下に示す。

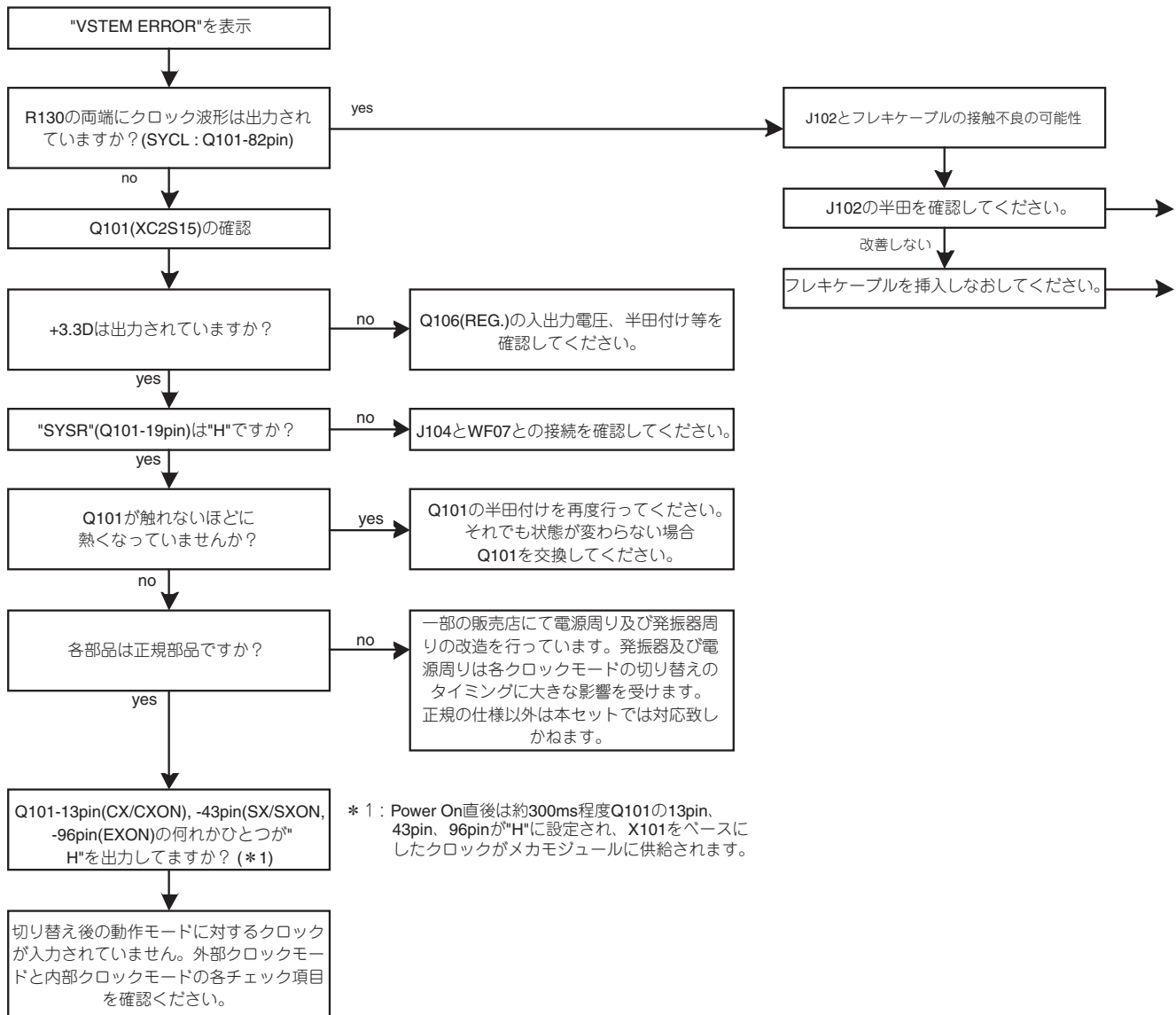
- ① Q109, Q110, Q128の電源にあるケミコン、C122, C152, C139の容量変更不可、電源Timingが狂う。改造クロックを施したセット等は上記理由によりタイミングが合わなくなり "VSTEM ERROR"になる。これらは、Q101(SYCL)からMASTER CLOCKが瞬間異常になるので発生する。その後正常CLOCKになるので原因不明の"VSTEM ERROR"に陥り易い。
- ② Q101(SYCL)からEngineに供給するCLOCKが発生しない場合確実に"VSTEM ERROR"になる。
- ③ Engineに電源ON時RESET信号が伝わらない時やtimingずれ("上記BLOCK図")等が考えられる。CX131からJM03に接続される"flexible wire"をCHECKする。

## SACDモジュールとマスタークロックモード

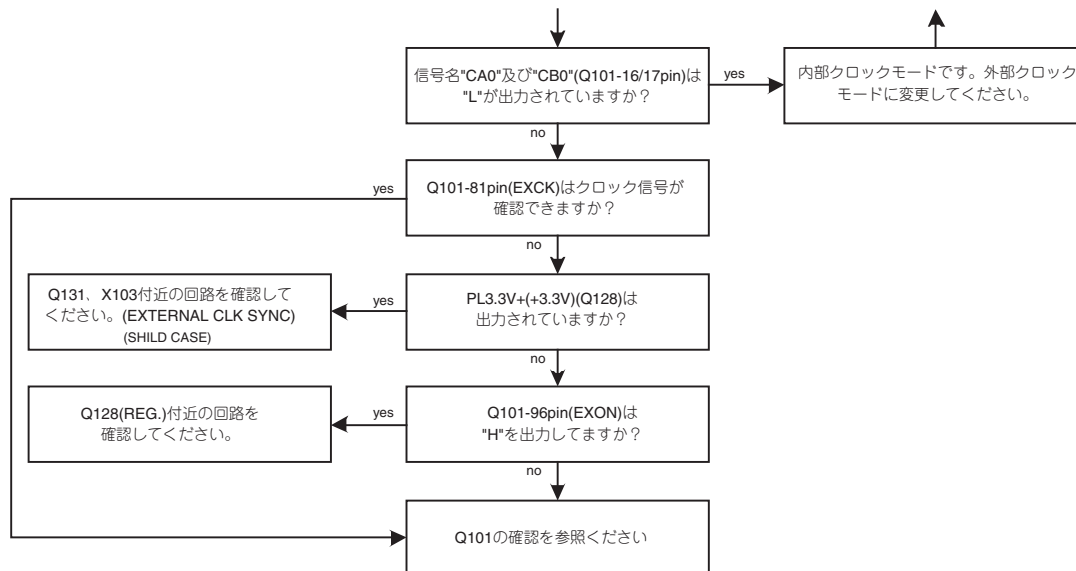


### 2. Q101(XC2S15)周辺の確認

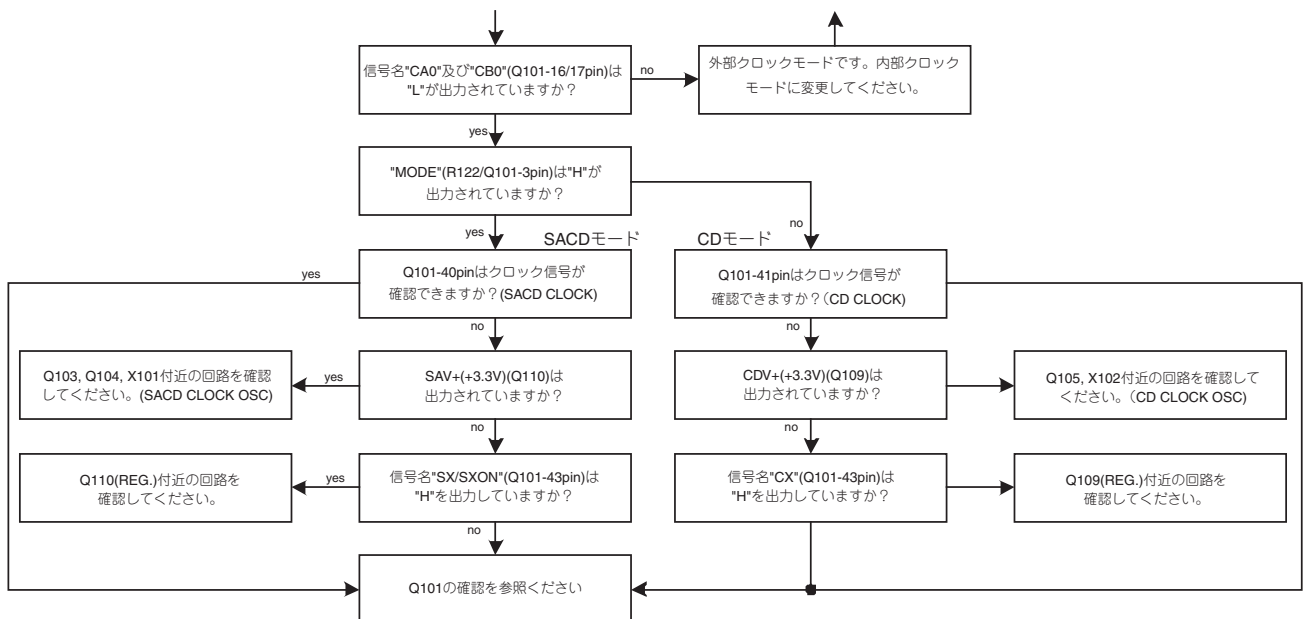
回路図上では、PA16-1/4を参照してください。



## 外部クロックモード



## 内部クロックモード



## [B] SACD Engineメカ部 OPU

### 1. OPUの動作シケンス。

- ① SLEDG MOTORを動作させOPUを内周(TOCエリア)に移動。
- ② レザーを点灯しFOCUS MOTOR(レンズ)を上下。
- ③ FOCUS上下する時DISCの種類、反射率等を判別。(右図参照)

F+ : FOCUS MOTOR

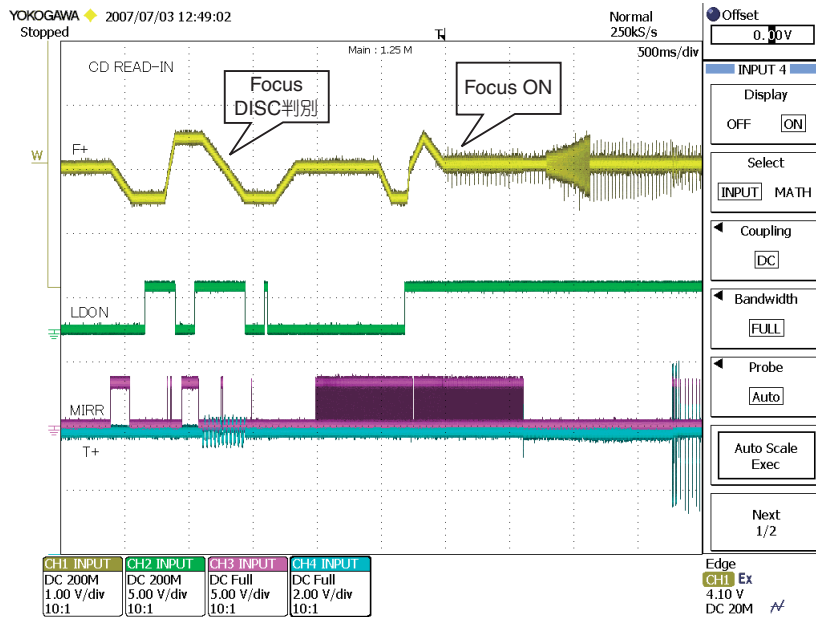
T+ : TRACKING MOTOR

LDON : LASER ON

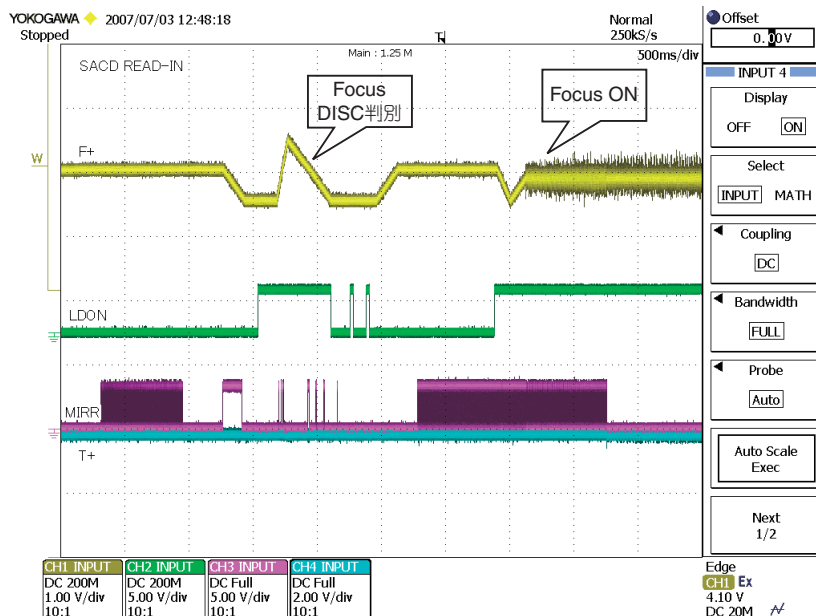
MIRR : REFLECT DISC MIRROR

- ④ 正しくDISCの種類、反射率が計測できない時は"CAN'T PLAY"を表示。(この動作は正常なOPUであれば、一度で終わる、OPUが劣化したりDISCが規格外等であれば3~5度繰り返し同表示する) OPUに起因する不良はこの問題が多い)
- ⑤ SPIN MOTORとRADIAL TRACKING MOTORを動かし、TOC動作よりPLAY。(その後の動作不良になるのは、③の過程でDISC判別を誤っている)

## CD TOC



## SACD TOC



## 2. 簡易的にOPUと回路の不良を判別する

- ① DISC "CD/SACD"のどちら一方のみ悪い場合、OPUの不良が大半である。
- ② OPUの場合、レーザー劣化が一番多い。この場合HF(VRF) OUT端子にて測定が小さい。
- ③ レザー電流が大きい場合HF(VRF) OUT端子電圧が大きい。ジッターや隣接トラックの信号、ノイズ等が大きく、R502(100~820Ω)を大きくする。
- ④ レザー電流が少ない場合HF(VRF) OUT端子電圧が小さい。HF信号が読み取れず、PLLやSPIN MOTORがコントロール出来なくSTOPする。R502(100~820Ω)を小さくする。

## 3. HFの観測

CD/SACDに於けるHF出力電圧。

- ① VRF : OPUからのHFは、第一にコネクタ(CX241-10pin)にて、VRFを観測する。

VRFの出力はOPUのパラツキで変化するのでLEVELは一定ではない。

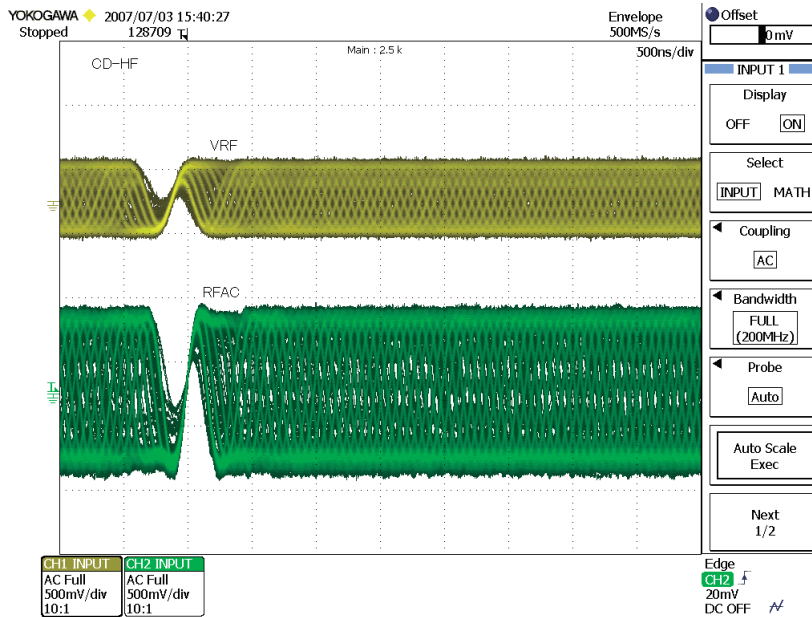
参考値

CD/CDR/CDRW : 120~650mv

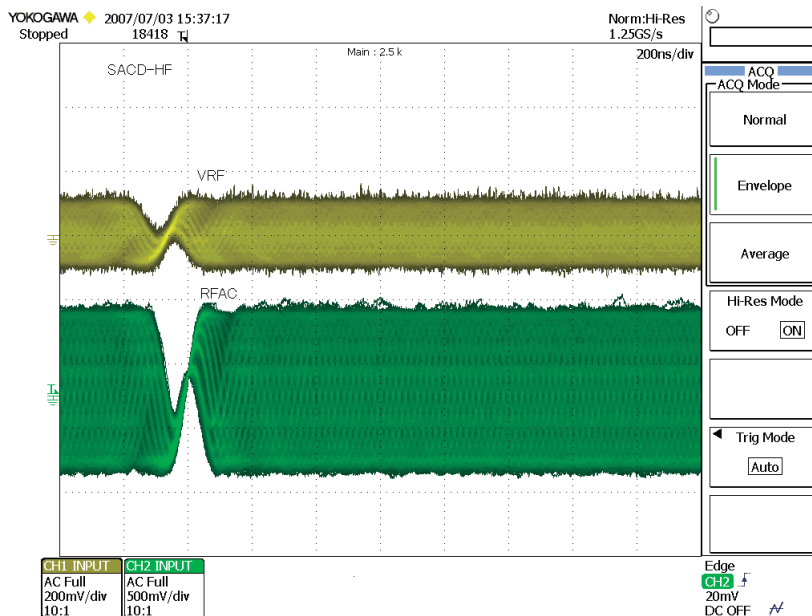
SACD : 180mv~800mv

- ② RFAC : IC501(CXD1881AR)出力はauto-gain controlにより約1.3Vと一定。
- ③ WM : SACDウォーターマークを解析するHF約1.4V一定。

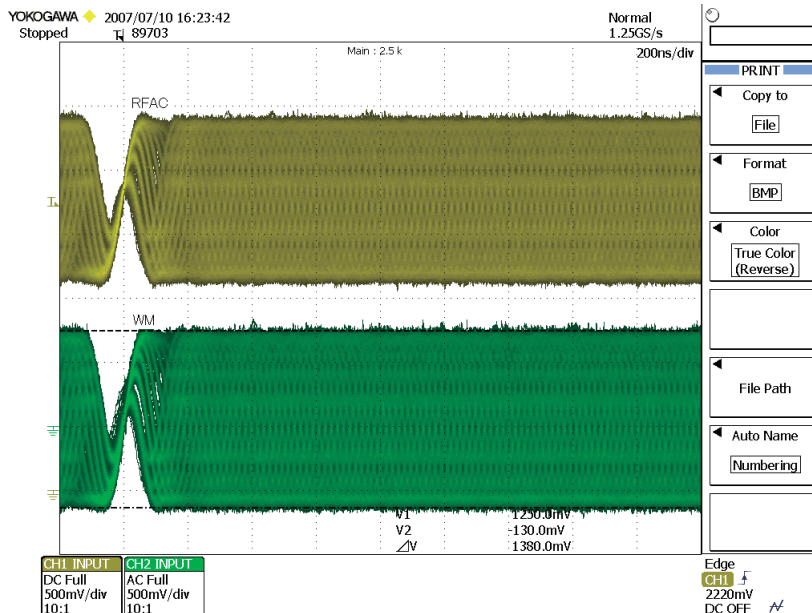
## CD HF



## SACD HF

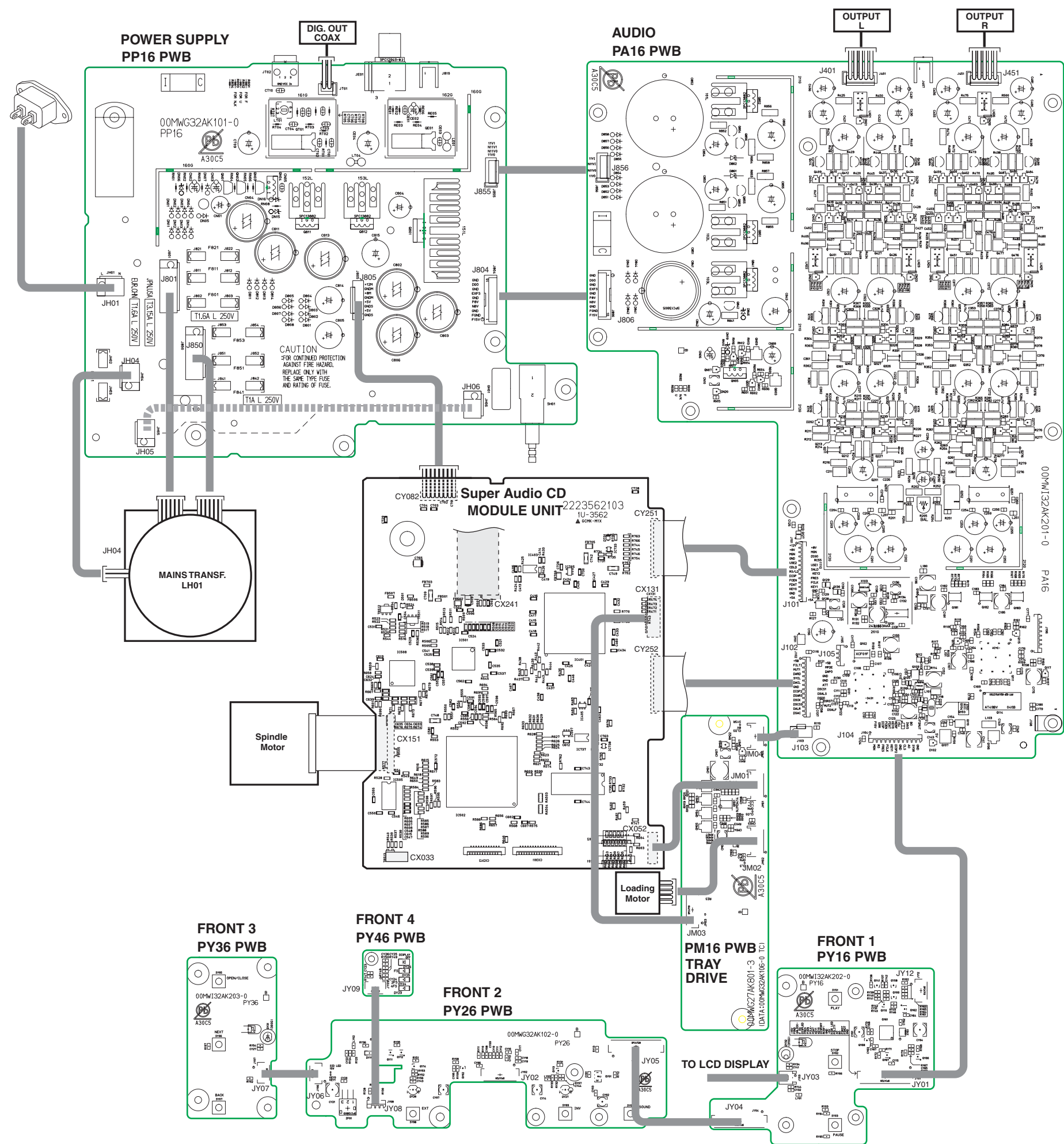


## FRAC & WM

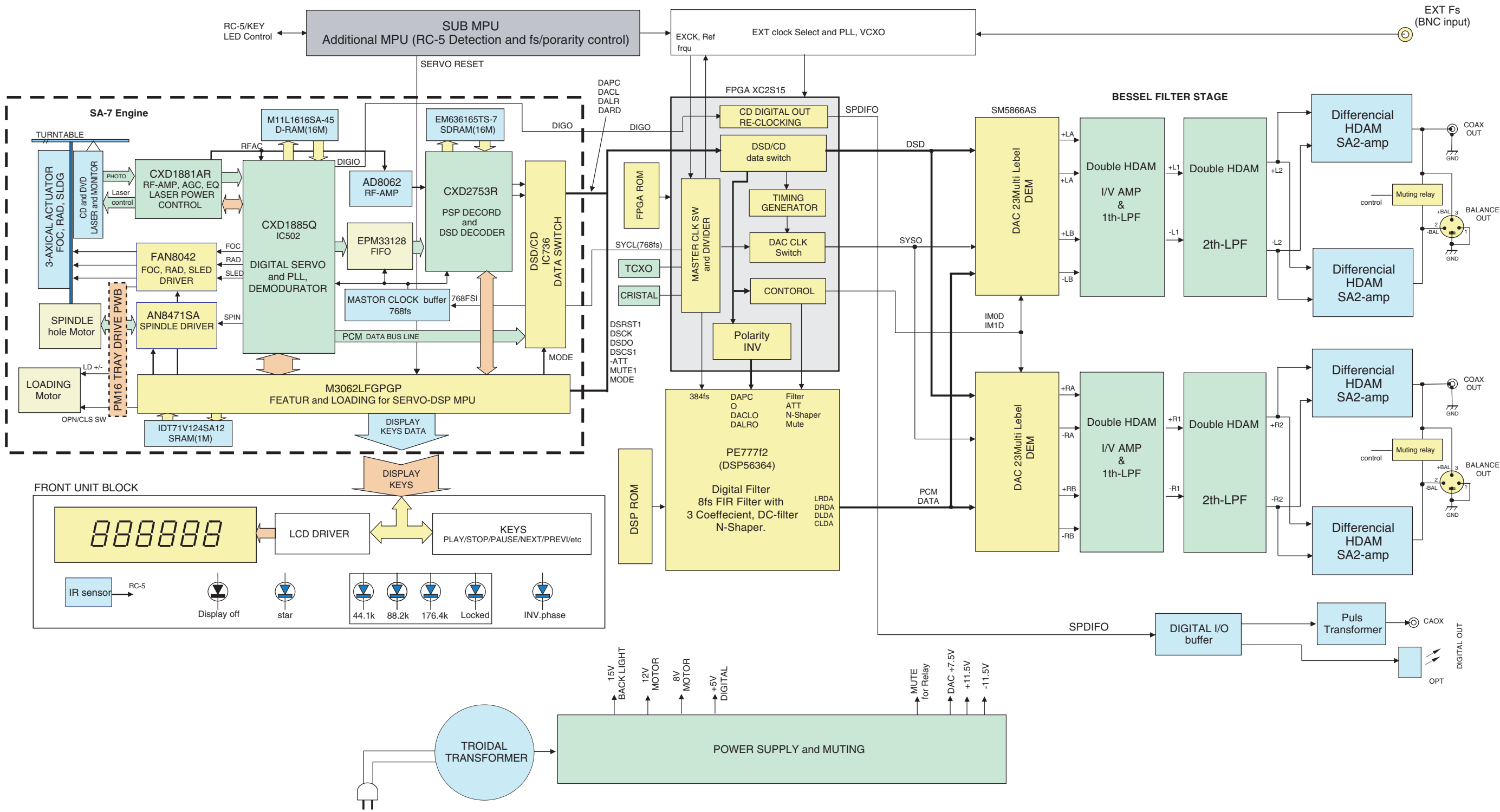


*Personal notes:*

9. WIRING DIAGRAM

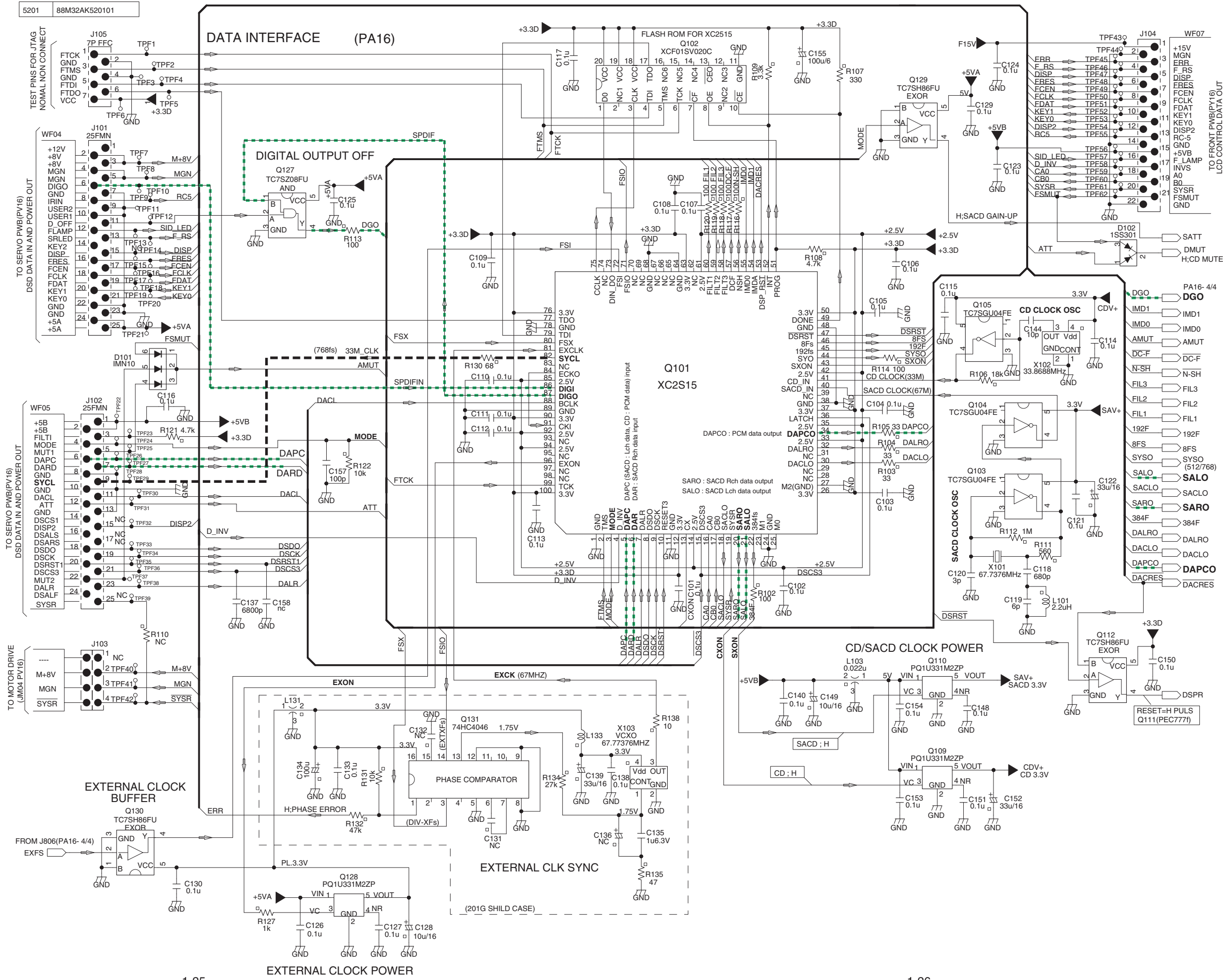


10. BLOCK DIAGRAM

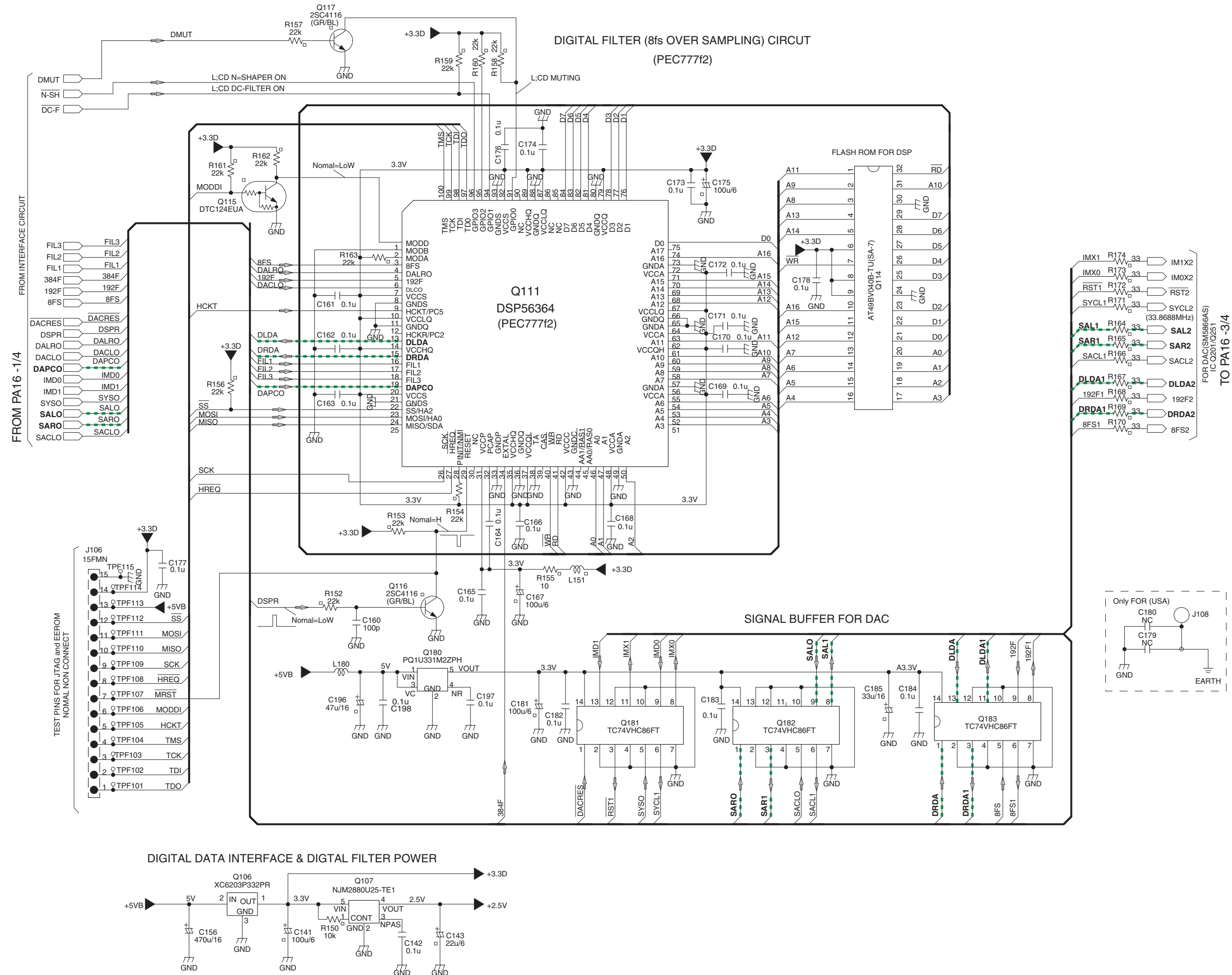


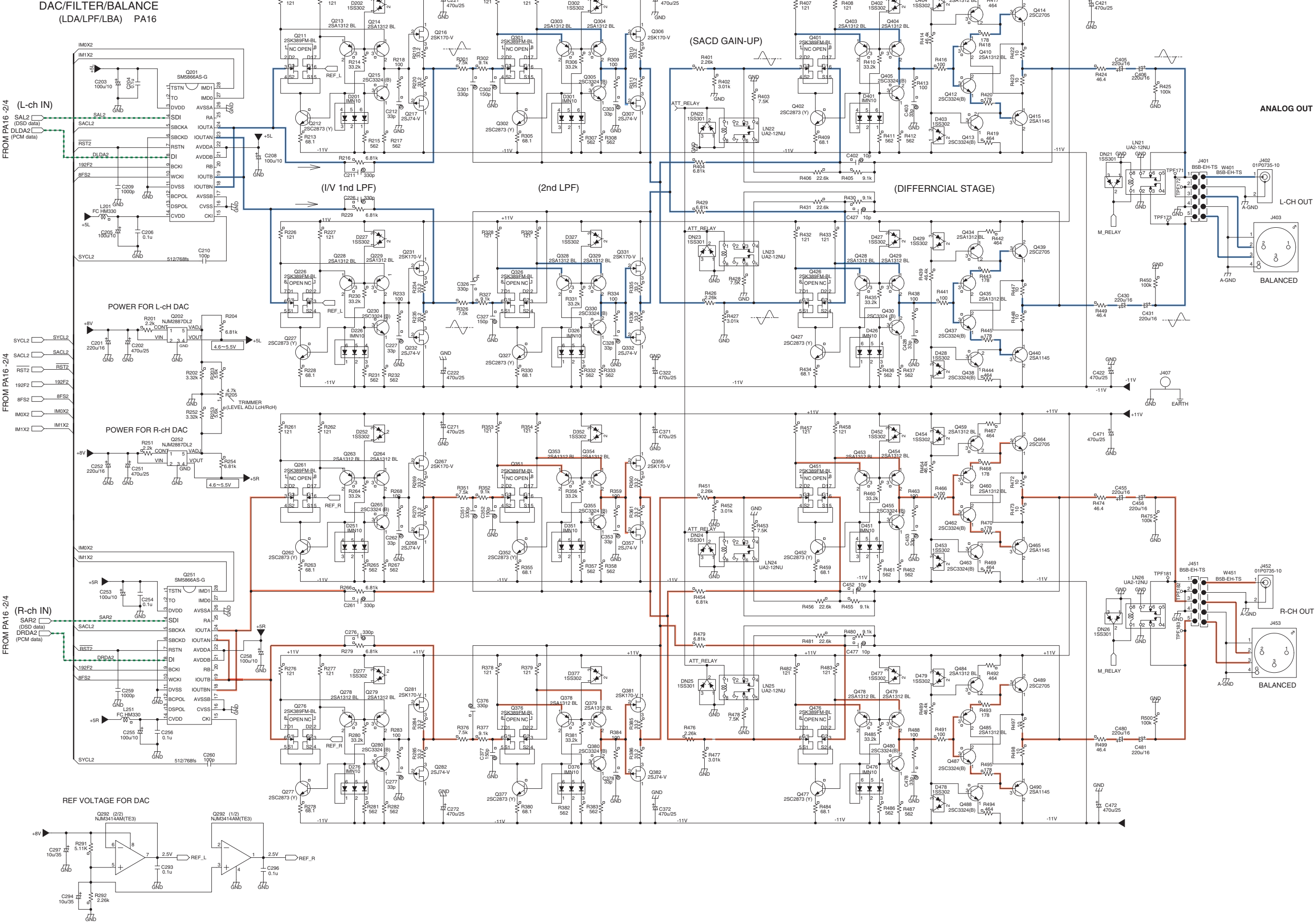
11. SCHEMATIC DIAGRAM

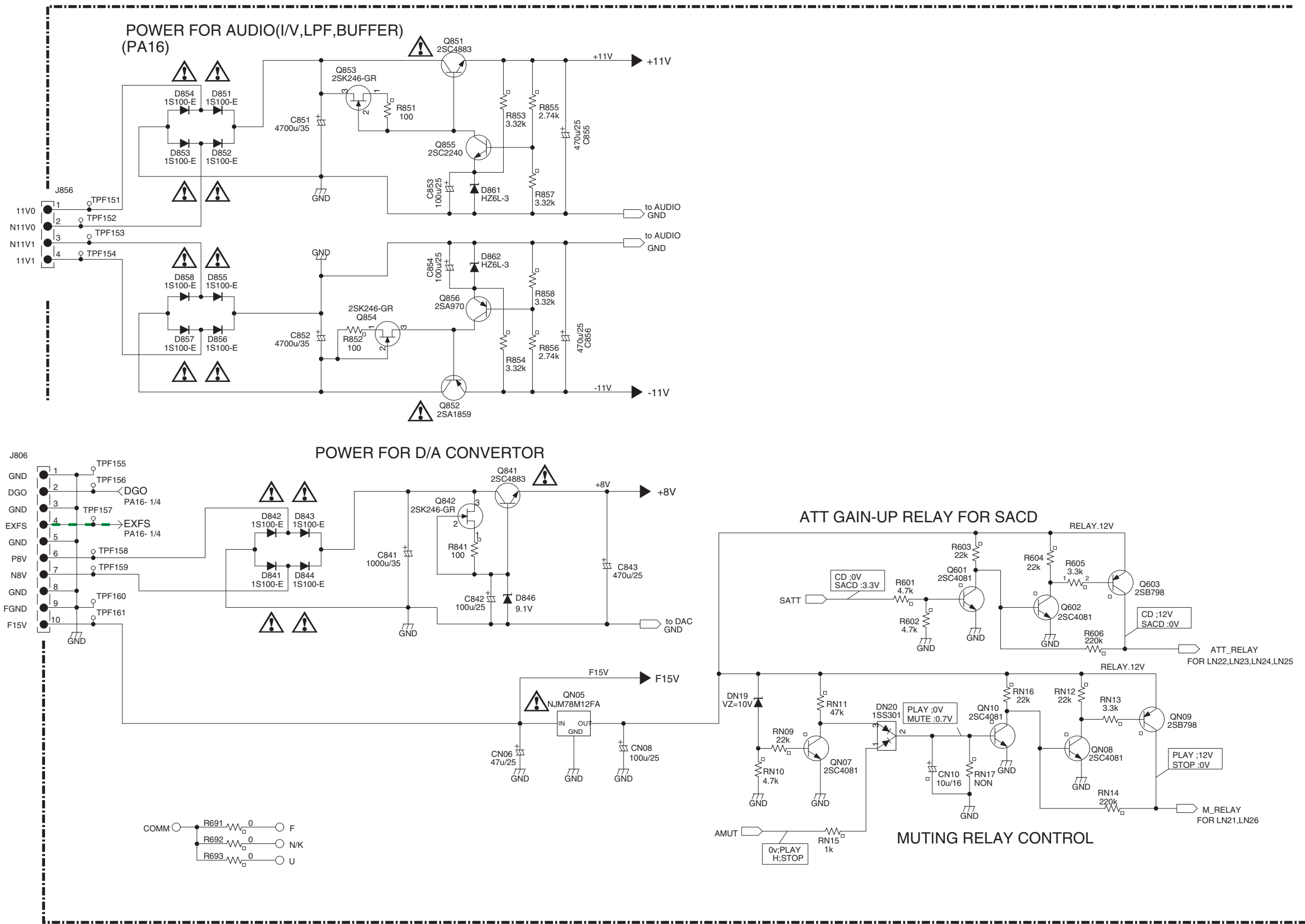
PA16 PWB -1/4



## PA16 PWB -2/4













12. PARTS LOCATION

PA16 PWB

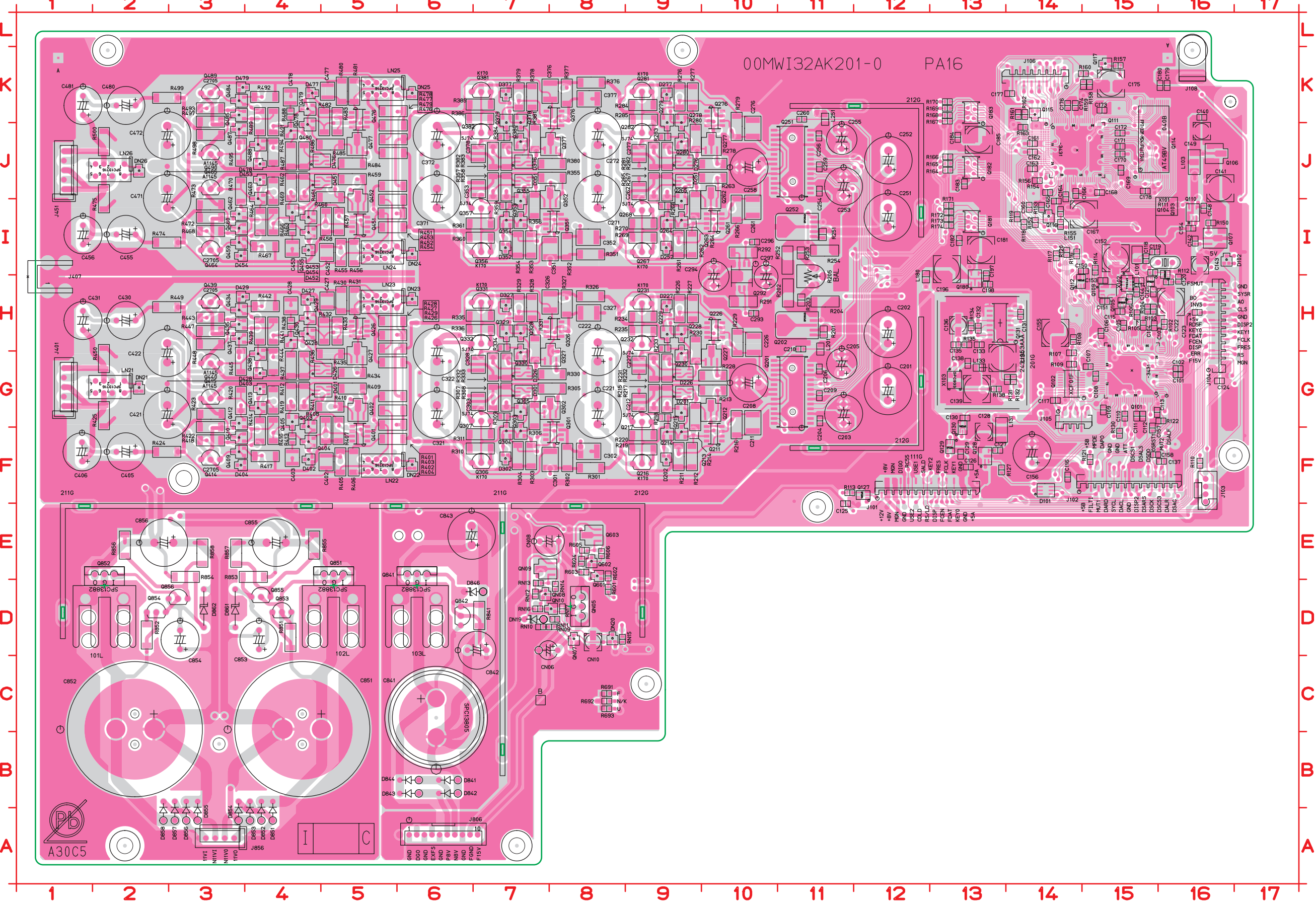
|      |     |      |     |      |     |      |     |      |     |      |     |      |    |      |     |
|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|----|------|-----|
| C101 | G16 | C198 | H13 | D101 | F14 | Q101 | G15 | Q381 | K7  | R130 | F15 | R303 | F7 | R445 | G3  |
| C102 | G16 | C201 | G12 | D102 | I16 | Q102 | G14 | Q382 | J7  | R131 | G14 | R304 | F7 | R447 | H3  |
| C103 | H15 | C202 | H12 | D201 | G9  | Q103 | I16 | Q401 | F5  | R132 | G14 | R305 | G8 | R448 | H3  |
| C104 | H15 | C203 | G11 | D202 | F9  | Q104 | H15 | Q402 | G5  | R134 | H13 | R306 | G7 | R449 | H2  |
| C105 | H15 | C204 | G11 | D226 | G9  | Q105 | H15 | Q403 | G4  | R135 | H13 | R307 | G7 | R450 | G2  |
| C106 | H15 | C205 | G11 | D227 | H9  | Q106 | J16 | Q404 | F4  | R138 | G13 | R308 | G7 | R451 | J5  |
| C107 | G15 | C206 | G11 | D251 | J9  | Q107 | I16 | Q405 | G4  | R150 | I16 | R309 | G7 | R452 | I5  |
| C108 | G15 | C208 | G10 | D252 | I9  | Q109 | H15 | Q409 | F3  | R152 | I14 | R310 | F7 | R453 | I5  |
| C109 | G15 | C209 | G11 | D276 | J9  | Q110 | I16 | Q410 | F3  | R153 | I14 | R311 | F7 | R454 | I5  |
| C110 | G15 | C210 | H11 | D277 | K9  | Q111 | J14 | Q412 | G3  | R154 | J14 | R326 | H8 | R455 | I5  |
| C111 | G15 | C211 | G10 | D301 | G7  | Q112 | H14 | Q413 | G4  | R155 | I14 | R327 | H8 | R456 | I5  |
| C112 | G15 | C212 | G9  | D302 | F7  | Q114 | J15 | Q414 | F3  | R156 | J14 | R328 | H7 | R457 | I5  |
| C113 | G15 | C221 | G8  | D326 | G7  | Q115 | K14 | Q415 | G3  | R157 | K15 | R329 | H7 | R458 | I5  |
| C114 | H15 | C222 | G8  | D327 | H7  | Q116 | I14 | Q426 | H5  | R158 | K15 | R330 | G8 | R459 | J5  |
| C115 | H15 | C226 | H10 | D351 | J7  | Q117 | K15 | Q427 | G5  | R159 | K15 | R331 | H7 | R460 | J5  |
| C116 | F14 | C227 | G9  | D352 | I7  | Q127 | F12 | Q428 | H4  | R160 | K15 | R332 | G7 | R461 | J4  |
| C117 | G14 | C251 | I12 | D376 | J7  | Q128 | F13 | Q429 | H4  | R161 | K14 | R333 | G7 | R462 | J4  |
| C118 | I15 | C252 | J12 | D377 | K7  | Q129 | F13 | Q430 | H4  | R162 | K14 | R334 | H7 | R463 | I4  |
| C119 | I15 | C253 | J11 | D401 | G5  | Q130 | F13 | Q434 | H3  | R163 | J14 | R335 | H7 | R464 | I4  |
| C120 | H16 | C254 | J11 | D402 | F4  | Q131 | H13 | Q435 | H3  | R164 | J13 | R336 | H7 | R466 | I4  |
| C121 | H15 | C255 | J11 | D403 | G4  | Q180 | H13 | Q437 | H3  | R165 | J13 | R351 | I8 | R467 | I4  |
| C122 | H16 | C256 | J11 | D404 | F3  | Q181 | I13 | Q438 | G4  | R166 | J13 | R352 | I8 | R468 | I3  |
| C123 | H16 | C258 | J10 | D426 | G5  | Q182 | J13 | Q439 | H3  | R167 | K13 | R353 | I7 | R469 | J4  |
| C124 | G16 | C259 | J11 | D427 | H4  | Q183 | K13 | Q440 | G3  | R168 | K13 | R354 | I7 | R470 | J3  |
| C125 | E11 | C260 | K11 | D428 | G4  | Q201 | G11 | Q451 | I5  | R169 | K13 | R355 | J8 | R472 | I3  |
| C126 | F13 | C261 | I10 | D429 | H3  | Q202 | H11 | Q452 | I5  | R170 | K13 | R356 | I7 | R473 | I3  |
| C127 | F13 | C262 | J9  | D451 | J5  | Q211 | F10 | Q453 | I4  | R171 | I13 | R357 | J7 | R474 | I2  |
| C128 | F13 | C271 | I8  | D452 | I4  | Q212 | G10 | Q454 | I4  | R172 | I13 | R358 | J7 | R475 | J2  |
| C129 | F13 | C272 | J8  | D453 | J4  | Q213 | F9  | Q455 | I4  | R173 | I13 | R359 | I7 | R476 | J5  |
| C130 | G13 | C276 | J10 | D454 | I3  | Q214 | F9  | Q459 | I3  | R174 | I13 | R360 | I7 | R477 | J5  |
| C131 | H14 | C277 | J9  | D476 | J5  | Q215 | G9  | Q460 | I3  | R201 | H11 | R361 | I7 | R478 | K5  |
| C132 | H13 | C293 | H10 | D477 | K4  | Q216 | F9  | Q462 | I3  | R202 | H11 | R376 | K8 | R479 | J5  |
| C133 | H13 | C294 | H10 | D478 | J4  | Q217 | G9  | Q463 | J4  | R203 | H11 | R377 | K8 | R480 | K5  |
| C134 | G13 | C296 | I10 | D479 | K3  | Q226 | H10 | Q464 | I3  | R204 | H11 | R378 | K7 | R481 | K5  |
| C135 | H13 | C297 | H10 | D841 | B6  | Q227 | G10 | Q465 | J3  | R205 | H11 | R379 | K7 | R482 | K5  |
| C136 | H13 | C301 | F8  | D842 | B6  | Q228 | H9  | Q476 | K5  | R211 | F9  | R380 | J8 | R483 | K5  |
| C137 | F16 | C302 | F8  | D843 | B6  | Q229 | H9  | Q477 | J5  | R212 | F9  | R381 | J7 | R484 | J5  |
| C138 | G13 | C303 | G7  | D844 | B6  | Q230 | G9  | Q478 | J4  | R213 | G10 | R382 | J7 | R485 | J5  |
| C139 | G13 | C321 | G6  | D846 | D7  | Q231 | H9  | Q479 | K4  | R214 | G9  | R383 | J7 | R486 | J4  |
| C140 | K16 | C322 | G6  | D851 | A4  | Q232 | H9  | Q480 | J4  | R215 | G9  | R384 | J7 | R487 | J4  |
| C141 | J16 | C326 | H8  | D852 | A4  | Q251 | J11 | Q484 | K3  | R216 | G10 | R385 | K7 | R488 | K4  |
| C142 | I16 | C327 | H8  | D853 | A4  | Q252 | I11 | Q485 | K3  | R217 | G9  | R386 | K7 | R489 | K4  |
| C143 | I16 | C328 | G7  | D854 | A3  | Q261 | I10 | Q487 | J3  | R218 | G9  | R401 | G5 | R491 | K4  |
| C144 | H15 | C351 | I8  | D855 | A3  | Q262 | J10 | Q488 | J4  | R219 | F9  | R402 | G5 | R492 | K4  |
| C148 | I16 | C352 | I8  | D856 | A3  | Q263 | I9  | Q489 | K3  | R220 | F9  | R403 | G5 | R493 | K3  |
| C149 | J16 | C353 | J7  | D857 | A3  | Q264 | I9  | Q490 | J3  | R226 | H9  | R404 | F5 | R494 | J4  |
| C150 | I15 | C371 | I6  | D858 | A2  | Q265 | I9  | Q601 | E8  | R227 | H9  | R405 | F5 | R495 | J3  |
| C151 | H15 | C372 | J6  | D861 | D3  | Q267 | I9  | Q602 | E8  | R228 | G10 | R406 | F5 | R497 | K3  |
| C152 | I15 | C376 | K8  | D862 | D3  | Q268 | I9  | Q603 | E8  | R229 | H10 | R407 | F5 | R498 | J3  |
| C153 | H15 | C377 | K8  | DN19 | D7  | Q276 | K10 | Q841 | E6  | R230 | H9  | R408 | F5 | R499 | K2  |
| C154 | I16 | C378 | J7  | DN20 | D8  | Q277 | J10 | Q842 | D6  | R231 | G9  | R409 | G5 | R500 | J2  |
| C155 | H14 | C402 | F5  | DN21 | G2  | Q278 | K9  | Q851 | E5  | R232 | G9  | R410 | G5 | R601 | D8  |
| C156 | F14 | C403 | F4  | DN22 | F6  | Q279 | K9  | Q852 | E2  | R233 | H9  | R411 | G4 | R602 | E8  |
| C157 | F15 | C405 | F2  | DN23 | H6  | Q280 | J9  | Q853 | D4  | R234 | H9  | R412 | G4 | R603 | E8  |
| C158 | F15 | C406 | F1  | DN24 | I6  | Q281 | K9  | Q854 | D2  | R235 | H9  | R413 | F4 | R604 | E8  |
| C160 | I14 | C421 | G2  | DN25 | K6  | Q282 | J9  | Q855 | D4  | R251 | I11 | R414 | F4 | R605 | E8  |
| C161 | J14 | C422 | G2  | DN26 | J2  | Q292 | H10 | Q856 | D3  | R252 | I11 | R416 | F4 | R606 | E8  |
| C162 | J14 | C427 | H5  | J101 | F12 | Q301 | F8  | QN05 | D8  | R253 | I11 | R417 | F4 | R691 | C8  |
| C163 | J14 | C428 | H4  | J102 | F15 | Q302 | G8  | QN07 | D8  | R254 | I11 | R418 | F3 | R692 | C8  |
| C164 | J14 | C430 | H2  | J103 | F16 | Q303 | F7  | QN08 | D7  | R261 | I9  | R419 | G4 | R693 | C8  |
| C165 | I14 | C431 | H1  | J104 | H16 | Q304 | F7  | QN09 | E7  | R262 | I9  | R420 | G3 | R841 | D7  |
| C166 | J14 | C452 | I5  | J105 | G14 | Q305 | G7  | QN10 | D8  | R263 | J10 | R422 | G3 | R851 | D4  |
| C167 | I15 | C453 | I4  | J106 | K14 | Q306 | F7  | R102 | H16 | R264 | I9  | R423 | G3 | R852 | D2  |
| C168 | J15 | C455 | I2  | J108 | K16 | Q307 | G7  | R103 | H15 | R265 | J9  | R424 | F2 | R853 | E4  |
| C169 | J15 | C456 | I1  | J401 | G1  | Q326 | H8  | R104 | H15 | R266 | I10 | R425 | G2 | R854 | E3  |
| C170 | J15 | C471 | I2  | J407 | H1  | Q327 | G8  | R105 | H15 | R267 | J9  | R426 | G5 | R855 | E4  |
| C171 | J15 | C472 | J2  | J451 | J1  | Q328 | H7  | R106 | H15 | R268 | I9  | R427 | H5 | R856 | E2  |
| C172 | J15 | C477 | K5  | J806 | A6  | Q329 | H7  | R107 | G14 | R269 | I9  | R428 | H5 | R857 | E3  |
| C173 | K15 | C478 | K4  | J856 | A3  | Q330 | G7  | R108 | H14 | R270 | I9  | R429 | H5 | R858 | E3  |
| C174 | K14 | C480 | K2  | L101 | I15 | Q331 | H7  | R109 | G14 | R276 | K9  | R430 | H5 | RN09 | D8  |
| C175 | K15 | C481 | K1  | L103 | J16 | Q332 | H7  | R110 | F16 | R277 | K9  | R431 | H5 | RN10 | D7  |
| C176 | K14 | C841 | C6  | L131 | F13 | Q351 | I8  | R111 | I15 | R278 | J10 | R432 | H5 | RN11 | D8  |
| C177 | K14 | C842 | D7  | L133 | G13 | Q352 | J8  | R112 | H16 | R279 | J10 | R433 | H5 | RN12 | D7  |
| C178 | J15 | C843 | E6  | L151 | I14 | Q353 | I7  | R113 | F11 | R280 | J9  | R434 | G5 | RN13 | D7  |
| C179 | K16 | C851 | C5  | L180 | H12 | Q354 | I7  | R114 | I15 | R281 | J9  | R435 | G5 | RN14 | D8  |
| C180 | K16 | C852 | C2  | L201 | H11 | Q355 | I7  | R116 | I14 | R282 | J9  | R436 | G4 | RN15 | D8  |
| C181 | I13 | C853 | D4  | L251 | K11 | Q356 | I7  | R117 | I14 | R283 | J9  | R437 | G4 | RN16 | D7  |
| C182 | I13 | C854 | D3  | LN21 | G2  | Q357 | I7  | R118 | I14 | R284 | K9  | R438 | H4 | RN17 | D8  |
| C183 | J13 | C855 | E4  | LN22 | F6  | Q376 | K8  | R119 | I14 | R285 | K9  | R439 | H4 | X101 | I16 |
| C184 | J13 | C856 | E3  | LN23 | H6  | Q377 | J8  | R120 | I14 | R291 | H10 | R441 | H4 | X102 | H15 |
| C185 | J13 | CN06 | D8  | LN24 | I6  | Q378 | K7  | R121 | F15 | R292 | I10 | R442 | H4 | X103 | G13 |
| C196 | I13 | CN08 | E8  | LN25 | K6  | Q379 | K7  | R122 | G16 | R301 | F8  | R443 | H3 |      |     |
| C197 | H13 | CN10 | D8  | LN26 | J2  | Q380 | J7  | R127 | F13 | R302 | F8  | R444 | G4 |      |     |

鉛フリー半田

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

**Lead-free Solder**

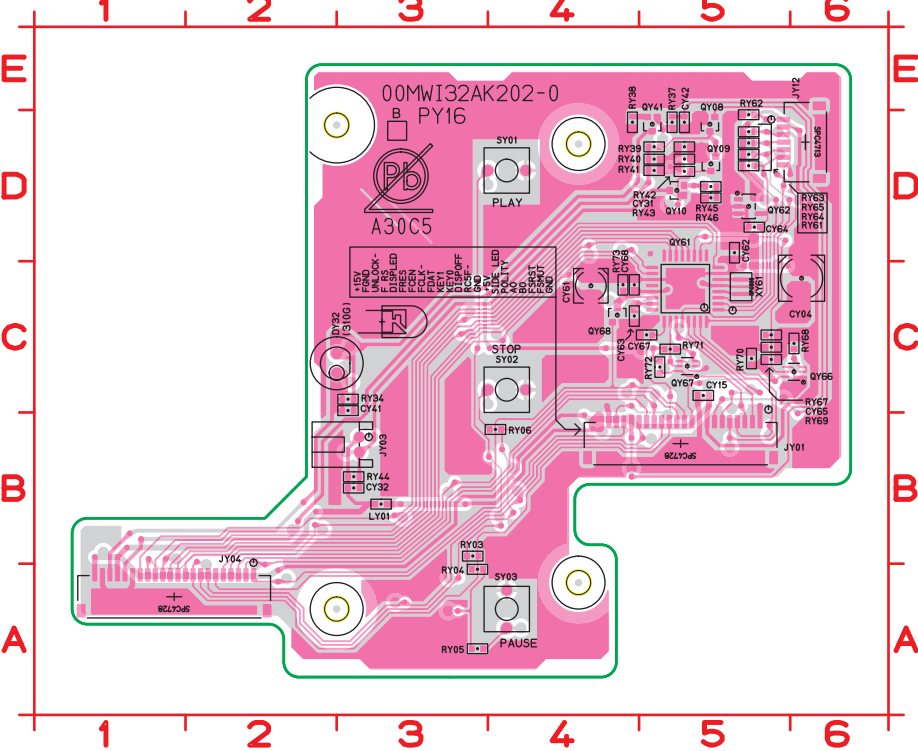
When soldering, use the Lead-free Solder (Sn-Ag-Cu).



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

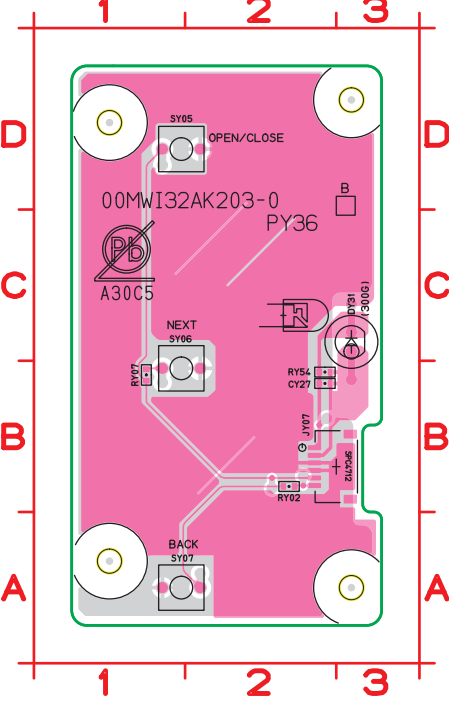
**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

PY16 PWB A



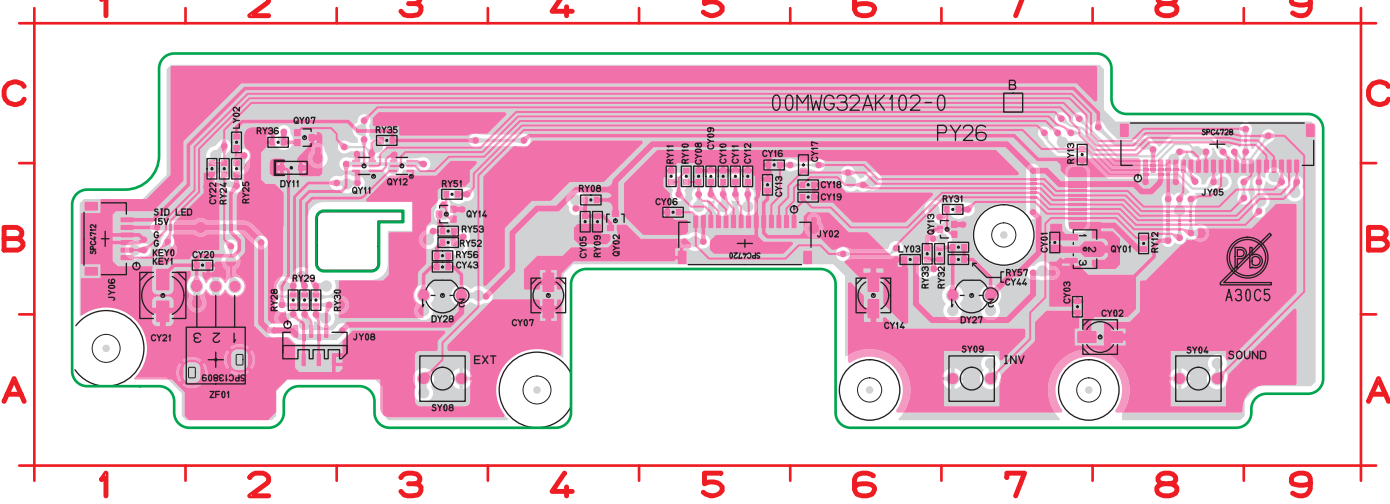
|      |    |      |    |
|------|----|------|----|
| CY04 | C6 | RY42 | D5 |
| CY15 | C5 | RY43 | D5 |
| CY31 | D5 | RY44 | B3 |
| CY32 | B3 | RY45 | D5 |
| CY41 | C3 | RY46 | D5 |
| CY42 | D5 | RY61 | D5 |
| CY61 | C4 | RY62 | D5 |
| CY62 | D5 | RY63 | D5 |
| CY63 | C4 | RY64 | D5 |
| CY64 | D5 | RY65 | D5 |
| CY65 | C5 | RY67 | C5 |
| CY67 | C5 | RY68 | C6 |
| CY68 | C4 | RY69 | C5 |
| DY32 | C3 | RY70 | C5 |
| JY01 | B5 | RY71 | C5 |
| JY03 | B3 | RY72 | C5 |
| JY04 | A1 | RY73 | C4 |
| JY12 | D6 | SY01 | D4 |
| LY01 | B3 | SY02 | C4 |
| QY08 | D5 | SY03 | A4 |
| QY09 | D5 | XY61 | C5 |
| QY10 | D5 |      |    |
| QY41 | D5 |      |    |
| QY61 | C5 |      |    |
| QY62 | D5 |      |    |
| QY66 | C6 |      |    |
| QY67 | C5 |      |    |
| QY68 | C4 |      |    |
| RY03 | B3 |      |    |
| RY04 | A3 |      |    |
| RY05 | A3 |      |    |
| RY06 | B4 |      |    |
| RY34 | C3 |      |    |
| RY37 | D5 |      |    |
| RY38 | D4 |      |    |
| RY39 | D5 |      |    |
| RY40 | D5 |      |    |
| RY41 | D5 |      |    |

PY36 PWB A



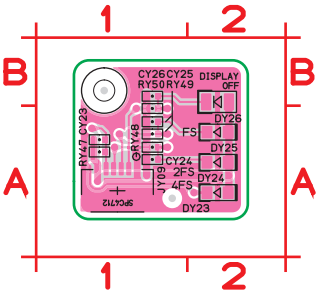
|      |    |
|------|----|
| CY27 | B2 |
| DY31 | C3 |
| JY07 | B3 |
| RY02 | B2 |
| RY07 | B1 |
| RY54 | B2 |
| SY05 | D1 |
| SY06 | B1 |
| SY07 | A1 |

PY26 PWB A



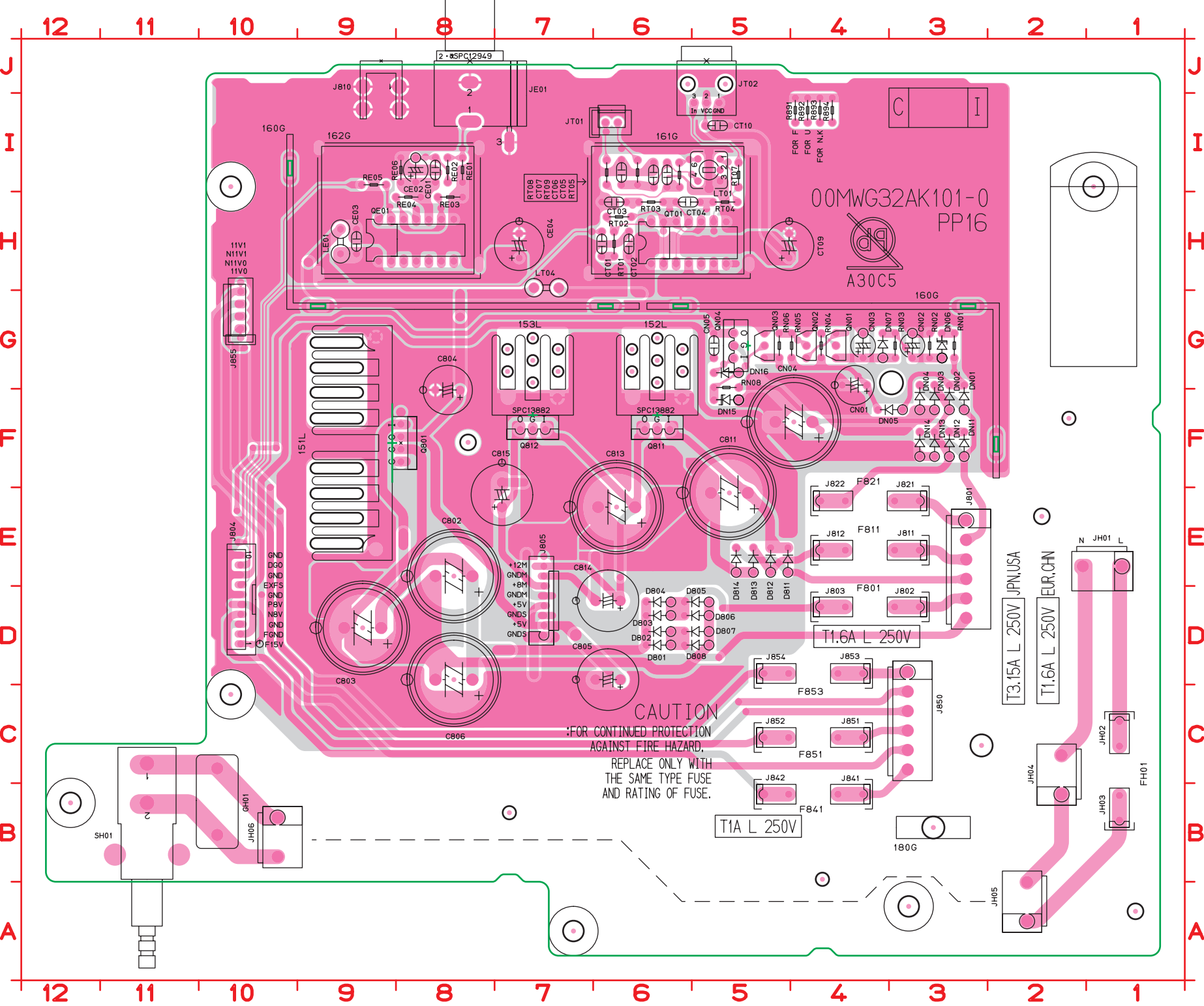
|      |    |      |    |
|------|----|------|----|
| CY01 | B7 | RY08 | B4 |
| CY02 | A8 | RY09 | B4 |
| CY03 | B7 | RY10 | B5 |
| CY05 | B4 | RY11 | B5 |
| CY06 | B5 | RY12 | B8 |
| CY07 | B4 | RY13 | C7 |
| CY08 | B5 | RY24 | B2 |
| CY09 | B5 | RY25 | B2 |
| CY10 | B5 | RY28 | B2 |
| CY11 | B5 | RY29 | B2 |
| CY12 | B5 | RY30 | B2 |
| CY13 | B5 | RY31 | B7 |
| CY14 | B6 | RY32 | B6 |
| CY16 | B5 | RY33 | B6 |
| CY17 | B6 | RY35 | C3 |
| CY18 | B6 | RY36 | C2 |
| CY19 | B6 | RY51 | B3 |
| CY20 | B2 | RY52 | B3 |
| CY21 | B1 | RY53 | B3 |
| CY22 | B2 | RY56 | B3 |
| CY43 | B3 | RY57 | B7 |
| CY44 | B7 | SY04 | A8 |
| DY11 | B2 | SY08 | A3 |
| DY27 | B7 | SY09 | A7 |
| DY28 | B3 | ZF01 | A2 |
| JY02 | B5 |      |    |
| JY05 | C8 |      |    |
| JY06 | B1 |      |    |
| JY08 | A2 |      |    |
| LY02 | C2 |      |    |
| LY03 | B6 |      |    |
| QY01 | B7 |      |    |
| QY02 | B4 |      |    |
| QY07 | C2 |      |    |
| QY11 | B3 |      |    |
| QY12 | B3 |      |    |
| QY13 | B7 |      |    |
| QY14 | B3 |      |    |

PY46 PWB A



|      |    |
|------|----|
| CY23 | A1 |
| CY24 | A1 |
| CY25 | A1 |
| CY26 | B1 |
| DY23 | A2 |
| DY24 | A2 |
| DY25 | A2 |
| DY26 | B2 |
| JY09 | A1 |
| RY47 | A1 |
| RY48 | A1 |
| RY49 | A1 |
| RY50 | A1 |

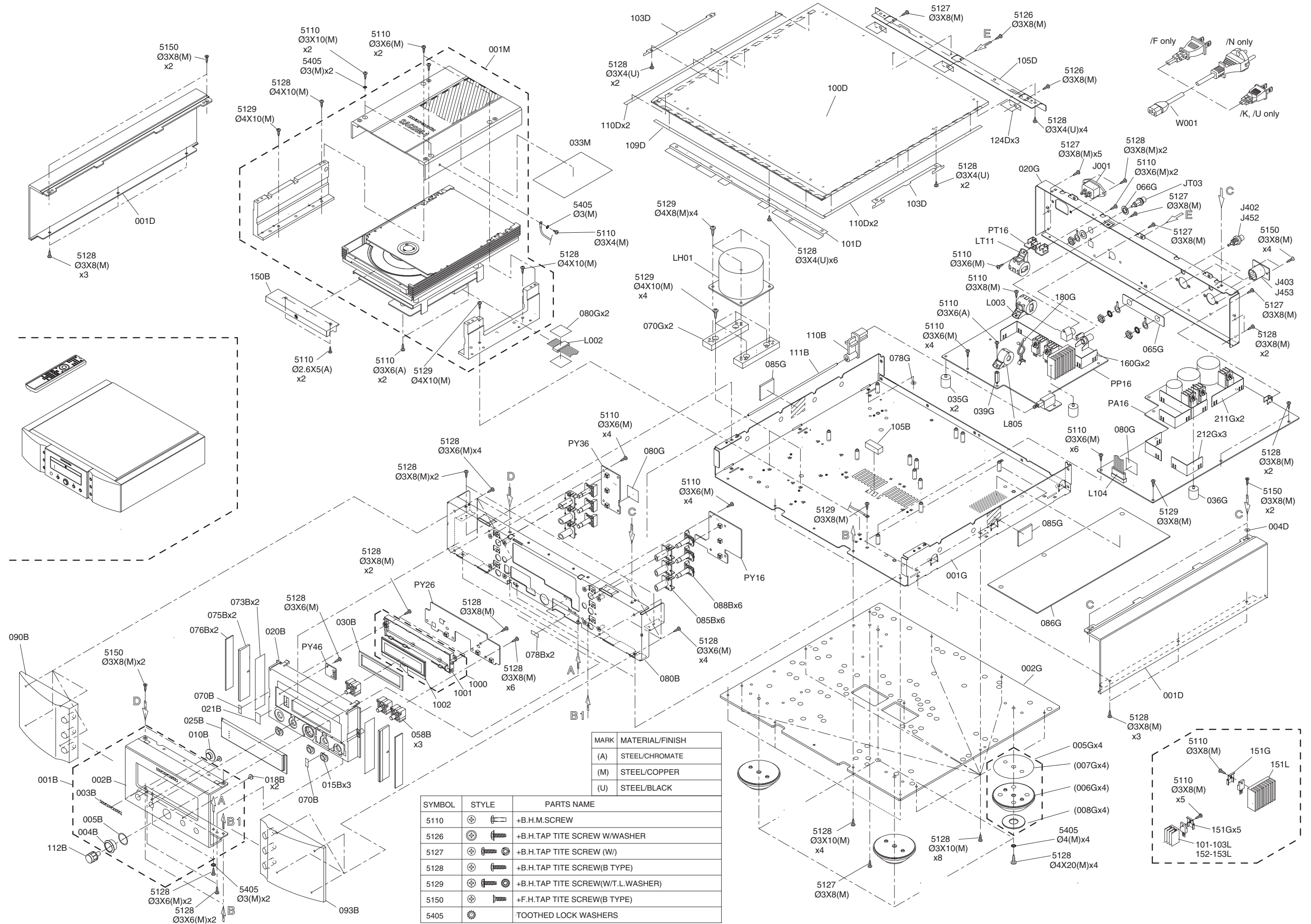
鉛フリー半田  
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。  
**Lead-free Solder**  
When soldering, use the Lead-free Solder (Sn-Ag-Cu).



|      |     |      |     |
|------|-----|------|-----|
| C802 | E8  | JH01 | E1  |
| C803 | D9  | JH02 | C1  |
| C804 | F8  | JH03 | B1  |
| C805 | D6  | JH04 | B2  |
| C806 | D8  | JH05 | A2  |
| C811 | E5  | JH06 | B10 |
| C813 | E6  | JT01 | I6  |
| C814 | D6  | JT02 | J5  |
| C815 | E7  | LE01 | H9  |
| CE01 | I8  | LT01 | I5  |
| CE02 | I8  | LT04 | H7  |
| CE03 | H9  | Q801 | F8  |
| CE04 | H7  | Q811 | F6  |
| CN01 | G4  | Q812 | F7  |
| CN02 | G3  | QE01 | H9  |
| CN03 | G4  | QN01 | G4  |
| CN04 | F4  | QN02 | G4  |
| CN05 | G5  | QN03 | G5  |
| CT01 | H6  | QN04 | G5  |
| CT02 | H6  | QT01 | H6  |
| CT03 | H6  | R891 | I4  |
| CT04 | H5  | R892 | I4  |
| CT05 | I6  | R893 | I4  |
| CT06 | I6  | R894 | I4  |
| CT07 | I6  | RE01 | I8  |
| CT09 | H5  | RE02 | I8  |
| CT10 | I5  | RE03 | H8  |
| D801 | D6  | RE04 | H8  |
| D802 | D6  | RE05 | I9  |
| D803 | D6  | RE06 | I8  |
| D804 | D6  | RN01 | G3  |
| D805 | D5  | RN02 | G3  |
| D806 | D5  | RN03 | G3  |
| D807 | D5  | RN04 | G4  |
| D808 | D5  | RN05 | G4  |
| D811 | E5  | RN06 | G5  |
| D812 | E5  | RN08 | G5  |
| D813 | E5  | RT01 | H6  |
| D814 | E5  | RT02 | H6  |
| DN01 | F3  | RT03 | H6  |
| DN02 | F3  | RT04 | H5  |
| DN03 | F3  | RT05 | I6  |
| DN04 | F3  | RT07 | I5  |
| DN05 | F3  | RT08 | I6  |
| DN06 | G3  | RT09 | I6  |
| DN07 | G4  | SH01 | B11 |
| DN11 | F3  |      |     |
| DN12 | F3  |      |     |
| DN13 | F3  |      |     |
| DN14 | F3  |      |     |
| DN15 | F5  |      |     |
| DN16 | G5  |      |     |
| GH01 | B10 |      |     |
| J801 | E3  |      |     |
| J802 | D3  |      |     |
| J803 | D4  |      |     |
| J804 | D10 |      |     |
| J805 | D7  |      |     |
| J810 | J9  |      |     |
| J811 | E3  |      |     |
| J812 | E4  |      |     |
| J821 | E3  |      |     |
| J822 | E4  |      |     |
| J841 | B4  |      |     |
| J842 | B5  |      |     |
| J850 | D3  |      |     |
| J851 | C4  |      |     |
| J852 | C5  |      |     |
| J853 | D4  |      |     |
| J854 | D5  |      |     |
| J855 | G10 |      |     |
| JE01 | J8  |      |     |

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

### 13. EXPLODED VIEW AND PARTS LIST



| P.W.B. NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME  | DESCRIPTION                  |
|-------------|----------|-------------|--------------------|---------------|------------|------------------------------|
|             | 001B     | F N         | nsp                | 99M32AK248410 | PANEL ASSY | FRONT PANEL ASSY SA-11S2 GL  |
|             | 001B     | /K1G        | nsp                | 99M32AK248410 | PANEL ASSY | FRONT PANEL ASSY SA-11S2 GL  |
|             | 001B     | /N1G        | 99M32AK248410      | 99M32AK248410 | PANEL ASSY | FRONT PANEL ASSY SA-11S2 GL  |
|             | 001B     | /N1S        | 99M32AK248420      | 99M32AK248420 | PANEL ASSY | FRONT PANEL ASSY SA-11S2 SL  |
|             | 001B     | /U1G        | nsp                | 99M32AK248410 | PANEL ASSY | FRONT PANEL ASSY SA-11S2 GL  |
|             | 010B     |             | 00M256J355030      | 00M256J355030 | LENS       | IR LENS                      |
|             | 015B     | F N         | nsp                | 00M32AK259110 | BUSHING    | BUSH BUTTON GL               |
|             | 015B     | /K1G        | nsp                | 00M32AK259110 | BUSHING    | BUSH BUTTON GL               |
|             | 015B     | /N1G        | 00M32AK259110      | 00M32AK259110 | BUSHING    | BUSH BUTTON GL               |
|             | 015B     | /N1S        | 00M32AK259120      | 00M32AK259120 | BUSHING    | BUSH BUTTON SL               |
|             | 015B     | /U1G        | nsp                | 00M32AK259110 | BUSHING    | BUSH BUTTON GL               |
|             | 018B     |             | 00M230K355030      | 00M230K355030 | LENS       | LENS FOR STANDBY             |
|             | 020B     |             | 00M32AK105010      | 00M32AK105010 | CHASSIS    | CHASSIS FRONT MOLD SA-11S2   |
|             | 025B     |             | 00M32AK158010      | 00M32AK158010 | WINDOW     | WINDOW GL/SL SA-11S2         |
|             | 058B     | F N         | nsp                | 00M32AK270110 | BUTTON     | BUTTON SOUND GL              |
|             | 058B     | /K1G        | nsp                | 00M32AK270110 | BUTTON     | BUTTON SOUND GL              |
|             | 058B     | /N1G        | 00M32AK270110      | 00M32AK270110 | BUTTON     | BUTTON SOUND GL              |
|             | 058B     | /N1S        | 00M32AK270210      | 00M32AK270210 | BUTTON     | BUTTON SOUND SL              |
|             | 058B     | /U1G        | nsp                | 00M32AK270110 | BUTTON     | BUTTON SOUND GL              |
|             | 075B     |             | 00M18AK355010      | 00M18AK355010 | LENS       | LENS SIDE                    |
|             | 085B     | F N         | nsp                | 00M04AJ259210 | BUSHING    | BUSH FOR FUNCTION BUTTONS GL |
|             | 085B     | /K1G        | nsp                | 00M04AJ259210 | BUSHING    | BUSH FOR FUNCTION BUTTONS GL |
|             | 085B     | /N1G        | 00M04AJ259210      | 00M04AJ259210 | BUSHING    | BUSH FOR FUNCTION BUTTONS GL |
|             | 085B     | /N1S        | 00M04AJ259110      | 00M04AJ259110 | BUSHING    | BUSH FOR FUNCTION BUTTONS SL |
|             | 085B     | /U1G        | nsp                | 00M04AJ259210 | BUSHING    | BUSH FOR FUNCTION BUTTONS GL |
|             | 088B     | F N         | nsp                | 00M04AJ270130 | BUTTON     | FUNCTION BUTTONS GL          |
|             | 088B     | /K1G        | nsp                | 00M04AJ270130 | BUTTON     | FUNCTION BUTTONS GL          |
|             | 088B     | /N1G        | 00M04AJ270130      | 00M04AJ270130 | BUTTON     | FUNCTION BUTTONS GL          |
|             | 088B     | /N1S        | 00M04AJ270230      | 00M04AJ270230 | BUTTON     | FUNCTION BUTTONS SL          |
|             | 088B     | /U1G        | nsp                | 00M04AJ270130 | BUTTON     | FUNCTION BUTTONS GL          |
|             | 090B     | F N         | nsp                | 00M18AK063110 | ESCUTCHEON | ESCUTCHEON (L) AL GL         |
|             | 090B     | /K1G        | nsp                | 00M18AK063110 | ESCUTCHEON | ESCUTCHEON (L) AL GL         |
|             | 090B     | /N1G        | 00M18AK063110      | 00M18AK063110 | ESCUTCHEON | ESCUTCHEON (L) AL GL         |
|             | 090B     | /N1S        | 00M18AK063210      | 00M18AK063210 | ESCUTCHEON | ESCUTCHEON (L) AL SL         |
|             | 090B     | /U1G        | nsp                | 00M18AK063110 | ESCUTCHEON | ESCUTCHEON (L) AL GL         |
|             | 093B     | F N         | nsp                | 00M18AK063120 | ESCUTCHEON | ESCUTCHEON (R) AL GL         |
|             | 093B     | /K1G        | nsp                | 00M18AK063120 | ESCUTCHEON | ESCUTCHEON (R) AL GL         |
|             | 093B     | /N1G        | 00M18AK063120      | 00M18AK063120 | ESCUTCHEON | ESCUTCHEON (R) AL GL         |
|             | 093B     | /N1S        | 00M18AK063220      | 00M18AK063220 | ESCUTCHEON | ESCUTCHEON (R) AL SL         |
|             | 093B     | /U1G        | nsp                | 00M18AK063120 | ESCUTCHEON | ESCUTCHEON (R) AL GL         |
|             | 110B     |             | 00M18AK121010      | 00M18AK121010 | LINK       | LINK POWER                   |
|             | 111B     |             | 00M32AK112010      | 00M32AK112010 | SHAFT      | SHAFT POWER                  |
|             | 112B     | F N         | nsp                | 00M18AK270110 | BUTTON     | BUTTON POWER GL              |
|             | 112B     | /K1G        | nsp                | 00M18AK270110 | BUTTON     | BUTTON POWER GL              |
|             | 112B     | /N1G        | 00M18AK270110      | 00M18AK270110 | BUTTON     | BUTTON POWER GL              |
|             | 112B     | /N1S        | 00M18AK270210      | 00M18AK270210 | BUTTON     | BUTTON POWER SL              |
|             | 112B     | /U1G        | nsp                | 00M18AK270110 | BUTTON     | BUTTON POWER GL              |
|             | 150B     | F N         | nsp                | 00M32AK063110 | ESCUTCHEON | ESCUTCHEON AL TRAY GL        |
|             | 150B     | /K1G        | nsp                | 00M32AK063110 | ESCUTCHEON | ESCUTCHEON AL TRAY GL        |
|             | 150B     | /N1G        | 00M32AK063110      | 00M32AK063110 | ESCUTCHEON | ESCUTCHEON AL TRAY GL        |
|             | 150B     | /N1S        | 00M32AK063210      | 00M32AK063210 | ESCUTCHEON | ESCUTCHEON AL TRAY SL        |
|             | 150B     | /U1G        | nsp                | 00M32AK063110 | ESCUTCHEON | ESCUTCHEON AL TRAY GL        |
|             | 001D     | F N         | nsp                | 00M18AK249110 | SIDE PANEL | SIDE PANEL AL GL             |
|             | 001D     | /K1G        | nsp                | 00M18AK249110 | SIDE PANEL | SIDE PANEL AL GL             |
|             | 001D     | /N1G        | 00M18AK249110      | 00M18AK249110 | SIDE PANEL | SIDE PANEL AL GL             |
|             | 001D     | /N1S        | 00M18AK249210      | 00M18AK249210 | SIDE PANEL | SIDE PANEL AL SL             |
|             | 001D     | /U1G        | nsp                | 00M18AK249110 | SIDE PANEL | SIDE PANEL AL GL             |
|             | 100D     | F N         | nsp                | 00M21AJ257120 | LID        | TOP COVER AL TYPE GL         |
|             | 100D     | /K1G        | nsp                | 00M21AJ257120 | LID        | TOP COVER AL TYPE GL         |
|             | 100D     | /N1G        | 00M21AJ257120      | 00M21AJ257120 | LID        | TOP COVER AL TYPE GL         |
|             | 100D     | /N1S        | 00M21AJ257220      | 00M21AJ257220 | LID        | TOP COVER AL TYPE SL         |
|             | 100D     | /U1G        | nsp                | 00M21AJ257120 | LID        | TOP COVER AL TYPE GL         |
|             | 005G     | F N         | nsp                | 00M04AJ057510 | LUG EYELET | LEG ASSY GL                  |
|             | 005G     | /K1G        | nsp                | 00M04AJ057510 | LUG EYELET | LEG ASSY GL                  |
|             | 005G     | /N1G        | 00M04AJ057510      | 00M04AJ057510 | LUG EYELET | LEG ASSY GL                  |
|             | 005G     | /N1S        | 00M04AJ057520      | 00M04AJ057520 | LUG EYELET | LEG ASSY SL                  |
|             | 005G     | /U1G        | nsp                | 00M04AJ057510 | LUG EYELET | LEG ASSY GL                  |

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

| P.W.B. NAME                    | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME    | DESCRIPTION                             |
|--------------------------------|----------|-------------|--------------------|---------------|--------------|-----------------------------------------|
|                                | 001M     |             | nsp                | nsp           | MECHANISM    | SUPER AUDIO CD MECHA UNIT               |
|                                | 1000     |             | 00M18AK271520      | 00M18AK271520 | HOLDER       | LCD UNIT KIT                            |
|                                | 1002     |             | 00MHQ21202990      | 00MHQ21202990 | DISPLAY      | LCD WSTN NEGATIVE96X35 TRULY            |
|                                | ▲ J001   |             | 00MYJ04002640      | 00MYJ04002640 | JACK         | ! R-301(21) AC INLET                    |
|                                | J402     |             | 00MYT02010740      | 00MYT02010740 | TERMINAL     | 1P CINCH PIN JACK                       |
|                                | J403     |             | 00MYP10002780      | 00MYP10002780 | PLUG         | XLR OUTPUT(GOLD PIN WITH GND)           |
|                                | J452     |             | 00MYT02010740      | 00MYT02010740 | TERMINAL     | 1P CINCH PIN JACK                       |
|                                | J453     |             | 00MYP10002780      | 00MYP10002780 | PLUG         | XLR OUTPUT(GOLD PIN WITH GND)           |
|                                | JT03     |             | 00MYT02011300      | 00MYT02011300 | TERMINAL     | EW-2560T-LH-B                           |
|                                | L002     |             | 00MFC90280010      | 00MFC90280010 | FERRITE CORE | HF70SH28X2X10 FPC FERRITE CORE          |
|                                | L003     |             | 00MFC50230010      | 00MFC50230010 | FERRITE CORE | TFCK-23-11-14                           |
|                                | L104     |             | 00MFC90280010      | 00MFC90280010 | FERRITE CORE | HF70SH28X2X10 FPC FERRITE CORE          |
|                                | L801     |             | 00MFC50270040      | 00MFC50270040 | FERRITE CORE | USB-4 SLEEVE FERRITE CLAMP              |
|                                | L805     |             | 00MFC50160060      | 00MFC50160060 | FERRITE CORE | FERRITE CORE TFCK-16-8-13               |
|                                | L850     |             | 00MFC50270040      | 00MFC50270040 | FERRITE CORE | USB-4 SLEEVE FERRITE CLAMP              |
|                                | ▲ LH01   | F N         | nsp                | 00MTS56902010 | TRANSF.      | # MAIN TRANS 100V 50/60HZ               |
|                                | ▲ LH01   | /K1G        | nsp                | 00MTS56902030 | TRANSF.      | # MAIN TRANS 230V 50/60HZ               |
|                                | ▲ LH01   | /N1G        | 00MTS56902030      | 00MTS56902030 | TRANSF.      | # MAIN TRANS 230V 50/60HZ               |
|                                | ▲ LH01   | /N1S        | 00MTS56902030      | 00MTS56902030 | TRANSF.      | # MAIN TRANS 230V 50/60HZ               |
|                                | ▲ LH01   | /U1G        | nsp                | 00MTS56902020 | TRANSF.      | # MAIN TRANS 120V 60HZ                  |
|                                | LT11     |             | 00MFC50230010      | 00MFC50230010 | FERRITE CORE | TFCK-23-11-14                           |
|                                | LY04     |             | 00MFC90160020      | 00MFC90160020 | FERRITE CORE | E04FD130510                             |
|                                | PA16     |             | nsp                | nsp           | PWB ASSY     | AUDIO PWB ASSY                          |
|                                | PP16     |             | nsp                | nsp           | PWB ASSY     | POWER SUPPLY PWB ASSY                   |
|                                | PT16     |             | nsp                | nsp           | PWB ASSY     | FERRITE CORE PWB ASSY                   |
|                                | PY16     |             | nsp                | nsp           | PWB ASSY     | FRONT1(RIGHT) PWB ASSY                  |
|                                | PY26     |             | nsp                | nsp           | PWB ASSY     | FRONT2(CENTER) PWB ASSY                 |
|                                | PY36     |             | nsp                | nsp           | PWB ASSY     | FRONT3(LEFT) PWB ASSY                   |
|                                | PY46     |             | nsp                | nsp           | PWB ASSY     | FRONT4(LED) PWB ASSY                    |
|                                | W101     |             | nsp                | 00MYU25080590 | FPC          | SMCD-25X80-BDX8(BL)+20(BL)-P1.0-S4-M    |
|                                | W102     |             | nsp                | 00MYU25080590 | FPC          | SMCD-25X80-BDX8(BL)+20(BL)-P1.0-S4-M    |
|                                | WY01     |             | nsp                | 00MYU22100520 | FPC          | SMCD-22X100-BDX6(BL)-P1.0-S4-M UL2896   |
|                                | WY02     |             | nsp                | 00MYU22080520 | FPC          | SMCD-22X080-BDX8-P1.0-S5.0+5.0-M UL2896 |
|                                | WY03     |             | nsp                | 00MYU06080520 | FPC          | SMCD-8X80-BDX6(BL)-P1.0-S4-M UL2896     |
|                                | WY05     |             | nsp                | 00MYU06080520 | FPC          | SMCD-8X80-BDX6(BL)-P1.0-S4-M UL2896     |
| <b>PACKING</b>                 |          |             |                    |               |              |                                         |
|                                | 005T     | F N         | nsp                | 00M32AK851110 | USER GUIDE   | USER GUIDE SA-11S2(F)                   |
|                                | 005T     | /K1G        | nsp                | 00M32AK851350 | USER GUIDE   | USER GUIDE SA-11S2(K)                   |
|                                | 005T     | /N1G        | 00M32AK851310      | 00M32AK851310 | USER GUIDE   | USER GUIDE SA-11S2(N)                   |
|                                | 005T     | /N1S        | 00M32AK851310      | 00M32AK851310 | USER GUIDE   | USER GUIDE SA-11S2(N)                   |
|                                | 005T     | /U1G        | nsp                | 00M32AK851250 | USER GUIDE   | USER GUIDE SA-11S2(U)                   |
|                                | T001     |             | 00MZX27AK0010      | 00MZX27AK0010 | UNIT KIT     | REMOTE CONTROLLER RC001SA               |
|                                | ▲ W001   | F N         | nsp                | 00D2062141002 | MAINS CORD   | # MAINS CORD W/CON&PLUG                 |
|                                | ▲ W001   | /K1G        | nsp                | 00MZX01808030 | MAINS CORD   | # MAINS CORD CHINA 250V 10A             |
|                                | ▲ W001   | /N1G        | 00MZX01803080      | 00MZX01803080 | MAINS CORD   | # 2P MAINS CORD 10A 250V CLASS2         |
|                                | ▲ W001   | /N1S        | 00MZX01803080      | 00MZX01803080 | MAINS CORD   | # 2P MAINS CORD 10A 250V CLASS2         |
|                                | ▲ W001   | /U1G        | nsp                | 00MZX01803100 | MAINS CORD   | # MAINS CORD UL/CSA 10A 125V            |
| <b>NOT STANDARD SPARE PART</b> |          |             |                    |               |              |                                         |
|                                | 005S     |             | nsp                | 00M31AK809010 | CUSHION      | CUSHION (L SIDE)                        |
|                                | 006S     |             | nsp                | 00M31AK809020 | CUSHION      | CUSHION (R SIDE)                        |
|                                | 010S     |             | nsp                | 00M32AK801010 | PACKING CASE | PACKING CASE SA-11S2                    |
|                                | 020S     | /N1G        | nsp                | 00M32AK805010 | MASS CARTON  | MASTER CARTON SA-11S2                   |
|                                | 020S     | /N1S        | nsp                | 00M32AK805010 | MASS CARTON  | MASTER CARTON SA-11S2                   |
|                                | W081     |             | nsp                | 00D2032441004 | CONN. CORD   | 2P PIN CORD AUDIO                       |

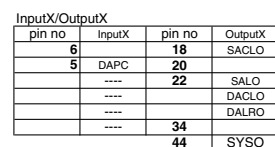
NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

## 14. MICROPROCESSOR AND IC DATA

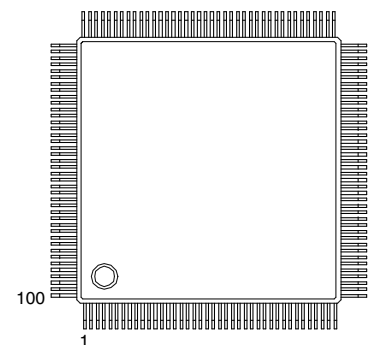
### Q101 : FPGA XC2S15

| Pin no | Signal Name | Function                                                             | Pin Usage | Pin Name  |
|--------|-------------|----------------------------------------------------------------------|-----------|-----------|
| 1      | GND         | GND                                                                  |           | GND       |
| 2      | TMS         | JTAG terminal                                                        |           | TMS       |
| 3      | MODE        | Mode SW for SADC or CD input(H=SADC, L=CD)                           | IOB       |           |
| 4      | D_INV       | DATA INVERS for SAR & DAPC(H=Correct, L=Invers)                      | IOB       | IO_VREF_7 |
| 5      | DAPC        | DAPC input(SADC : Lch data, CD : PCM data)                           | IOB       |           |
| 6      | DARD        | SADC Rch DATA input                                                  | IOB       |           |
| 7      | DALR        | Word CLK for CD input                                                | IOB       |           |
| 8      | DSDO        | DSDO 8bit serial data signal                                         | IOB       | IO_VREF_7 |
| 9      | DSCK        | DSDO data clock signal                                               | IOB       |           |
| 10     | DSRST1      | RESET3 for timing( DIVIDER and DSP,DAC)                              | PCIIOB    | IO_IRDY   |
| 11     | GND         | GND                                                                  |           | GND       |
| 12     | VCCO        | 3.3v Power supply pins for output drivers (subject to banking rules) |           | VCCO      |
| 13     | CX          | Power control for TCXO(on/off)                                       | IOB       | IO_TRDY   |
| 14     | VCCINT      | 2.5v Power supply pins for the internal core logic.                  |           | VCCINT    |
| 15     | DSCS3       | DSDO data Chip select signal                                         | IOB       |           |
| 16     | CA0         | Select signal A for FSX Switch selector                              | IOB       | IO_VREF_6 |
| 17     | CB0         | Select signal B for FSX Switch selector                              | IOB       |           |
| 18     | SACLO       | SACLO(SADC data CLock output)                                        | IOB       |           |
| 19     | SYSR        | System Reset signal & MODE enable from front sub MPU                 | IOB       |           |
| 20     | SARO        | SARO(SADC Rch data output)                                           | IOB       | IO_VREF_6 |
| 21     | SALO        | SALO(SADC Lch data output)                                           | IOB       |           |
| 22     | 384F        | 384fs output for DSP clock                                           | IOB       |           |
| 23     | M1          | GND(Mode pins are used to specify the configuration mode.)           |           | M1        |
| 24     | GND         | GND                                                                  |           | GND       |
| 25     | M0          | GND(Mode pins are used to specify the configuration mode.)           |           | M0        |
| 26     | VCCO        | 3.3v Power supply pins for output drivers (subject to banking rules) |           | VCCO      |
| 27     | M2          | GND(Mode pins are used to specify the configuration mode.)           |           | M2        |
| 28     | NC          | NC                                                                   |           |           |
| 29     | NC          | NC                                                                   |           |           |
| 30     | DACLO       | DACLO(PCM data Clock output)                                         | IOB       | IO_VREF_5 |
| 31     | UNUSED      | NC                                                                   | IOB       |           |
| 32     | DALRO       | DALRO(PCM data word Clock output)                                    | IOB       |           |
| 33     | VCCINT      | 2.5v Power supply pins for the internal core logic.                  |           | VCCINT    |
| 34     | DAPCO       | DAPCO(PCM data output)                                               | IOB       | IO_VREF_5 |
| 35     | VCCINT      | 2.5v Power supply pins for the internal core logic.                  |           | VCCINT    |
| 36     | LATCH       | DSDO 8bit data Latch signal input                                    | GCLKIOB   | GCK1      |
| 37     | VCCO        | 3.3v Power supply pins for output drivers (subject to banking rules) |           | VCCO      |
| 38     | GND         | GND                                                                  |           | GND       |
| 39     | GCK0        | NC                                                                   | GCLKIOB   | GCK0      |
| 40     | x_in 1      | SADC Master clk input(67MHz)                                         | IOB       |           |
| 41     | x_in 2      | CD Master clk input(33MHz)                                           | IOB       | IO_VREF_4 |
| 42     | VCCINT      | 2.5v Power supply pins for the internal core logic.                  |           | VCCINT    |
| 43     | SAON        | SADC OSC Power supply on                                             | IOB       |           |
| 44     | SYSO        | System clock for DAC                                                 | IOB       |           |
| 45     | 192FS       | 192fs output for DSP56364 and SM5866AS                               | IOB       | IO_VREF_4 |
| 46     | 8FS         | 8fs output for DSP56364 and SM5866AS                                 | IOB       |           |
| 47     | DSRST       | reset3 delayed 20msec for DSP and DAC                                | IOB       |           |
| 48     | GND         | GND                                                                  |           | GND       |
| 49     | DONE        | Connect to ROM(XCF01S)10pin 330 ohm pullup                           |           | DONE      |
| 50     | VCCO        | 3.3v Power supply pins for output drivers (subject to banking rules) |           | VCCO      |
| 51     | PROGRAM     | Connect to ROM(XCF01S)7pin 10K ohm pullup                            |           | PROGRAM   |
| 52     | IO_INIT     | Connect to ROM(XCF01S)8pin 3.3K ohm pullup                           | IOB       | IO_INIT   |
| 53     | DSP_RST     | Reset for DSP56364                                                   | IOB       | IO_D7     |
| 54     | IMD1        | output A                                                             | IOB       | IO_VREF_3 |
| 55     | IMDA        | EX_OR output from SHIFT resister D0(A),D1(B)                         | IOB       |           |
| 56     | N_SH        | for DSP56364 of Noise shaper on/off                                  | IOB       | IO_D6     |
| 57     | DC_F        | for DSP56364 of DC-Filter on/off                                     | IOB       | IO_D5     |
| 58     | Filter3     | for DSP56364 of filter3 control.                                     | IOB       |           |
| 59     | Filter2     | for DSP56364 of filter2 control.                                     | IOB       | IO_VREF_3 |
| 60     | Filter1     | for DSP56364 of filter1 control.                                     | IOB       | IO_D4     |
| 61     | VCCINT      | 2.5v Power supply pins for the internal core logic.                  |           | VCCINT    |
| 62     | TEST_2      | TEST_2                                                               | PCIIOB    | IO_TRDY   |
| 63     | VCCO        | 3.3v Power supply pins for output drivers (subject to banking rules) |           | VCCO      |
| 64     | GND         | GND                                                                  |           | GND       |
| 65     | NC          | NC                                                                   | PCIIOB    | IO_IRDY   |
| 66     | IO_D3       | NC                                                                   | IOB       | IO_D3     |
| 67     | NC          | NC                                                                   | IOB       | IO_VREF_2 |

| Pin no | Signal Name | Function                                                             | Pin Usage | Pin Name  |
|--------|-------------|----------------------------------------------------------------------|-----------|-----------|
| 68     | GND         | To connect GND                                                       | IOB       |           |
| 69     | NC          | NC                                                                   | IOB       | IO_D2     |
| 70     | TEST_3      | TEST_3                                                               | IOB       | IO_D1     |
| 71     | FSIO        | EXT_Sampling clock(3 fs output)                                      | IOB       |           |
| 72     | FSI         | EXT_Sampling clock(3 fs input)                                       | IOB       | IO_VREF_2 |
| 73     | DOXCF       | Connect to ROM(XCF01S)1pin                                           | IOB       | IO_DIN_D0 |
| 74     | IO_DOUT_    | NC                                                                   | IOB       | IO_DOUT_  |
|        | BUSY        |                                                                      |           | BUSY      |
| 75     | CCLK        | Connect to ROM(XCF01S)2pin                                           |           | CCLK      |
| 76     | VCCO        | 3.3v Power supply pins for output drivers (subject to banking rules) |           | VCCO      |
| 77     | TDO         | JTAG terminal                                                        |           | TDO       |
| 78     | GND         | GND                                                                  |           | GND       |
| 79     | TDI         | JTAG terminal                                                        |           | TDI       |
| 80     | FSX         | x fs output for PLL phase comparator                                 | IOB       | IO_CS     |
| 81     | EXT_CLK     | EXT_CLK(1024fs input)                                                | IOB       | IO_WRITE  |
| 82     | SYCL        | 768fs output for Engin                                               | IOB       | IO_VREF_1 |
| 83     | NC          | NC                                                                   | IOB       |           |
| 84     | ECKO        | SELECT out from Switch (osc_out orEXT_CLK)                           | IOB       |           |
| 85     | VCCINT      | 2.5v Power supply pins for the internal core logic.                  |           | VCCINT    |
| 86     | DF-DA       | DIG input                                                            | IOB       | IO_VREF_1 |
| 87     | DF-QA       | DIG Reclock out                                                      | IOB       |           |
| 88     | DACL        | SACD or CD bit clock input                                           | GCLKIOB   | GCK2      |
| 89     | GND         | GND                                                                  |           | GND       |
| 90     | VCCO        | 3.3v Power supply pins for output drivers (subject to banking rules) |           | VCCO      |
| 91     | CKI         | Clock Input Frequency for divider                                    | GCLKIOB   | GCK3      |
| 92     | VCCINT      | 2.5v Power supply pins for the internal core logic.                  |           | VCCINT    |
| 93     | NC          | NC                                                                   | IOB       | IO_VREF_0 |
| 94     | VCCINT      | 2.5v Power supply pins for the internal core logic.                  |           | VCCINT    |
| 95     | NC          | NC                                                                   | IOB       |           |
| 96     | EXON        | for VCXO Power supply control (H=on)                                 | IOB       |           |
| 97     | tim0<0>     | reset3 delayed 1(1time of fs)                                        | IOB       | IO_VREF_0 |
| 98     | NC          | NC                                                                   | IOB       |           |
| 99     | TCK         | JTAG terminal                                                        |           | TCK       |
| 100    | VCCO        | 3.3v Power supply pins for output drivers (subject to banking rules) |           | VCCO      |



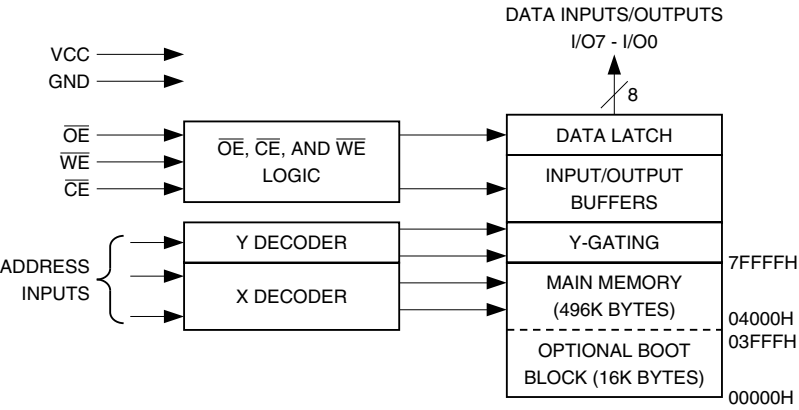
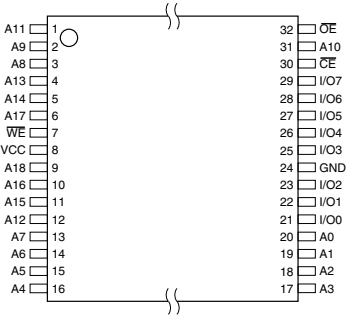
| pin no | Shift | Register(74HC595)   |
|--------|-------|---------------------|
|        | D0    | IMD1                |
|        | D2    | DACRES              |
|        | D3    | NSH                 |
| 57     | D4    | DCF                 |
|        | D5    | FILTC               |
| 59     | D6    | FILTB               |
| 60     | D7    | FILTA               |
| 55     |       | IMD=EXOR=IMD0,IMD1* |



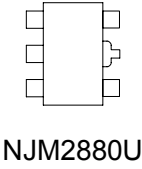
Q114 : AT49BV040B

| Pin Name        | Function            |
|-----------------|---------------------|
| A0 - A18        | Addresses           |
| $\overline{CE}$ | Chip Enable         |
| $\overline{OE}$ | Output Enable       |
| $\overline{WE}$ | Write Enable        |
| I/O0 - I/O7     | Data Inputs/Outputs |

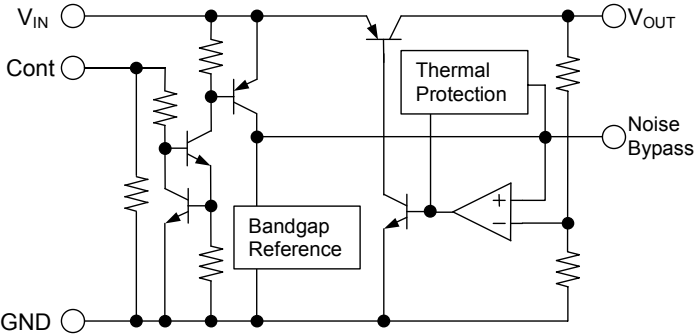
VSOP Top View (8 x 14 mm) or  
TSOP Top View (8 x 20 mm)



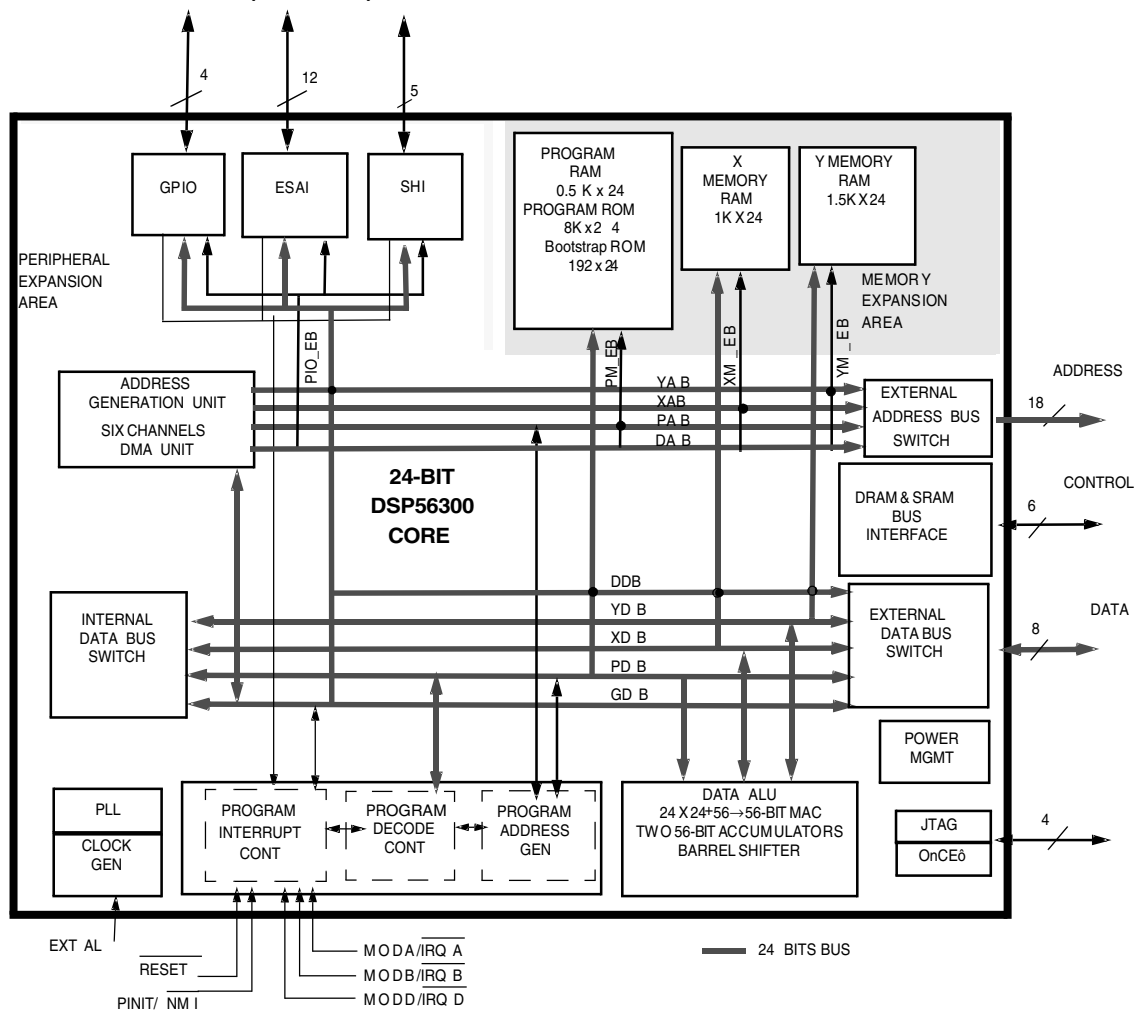
Q107 : NJM2880



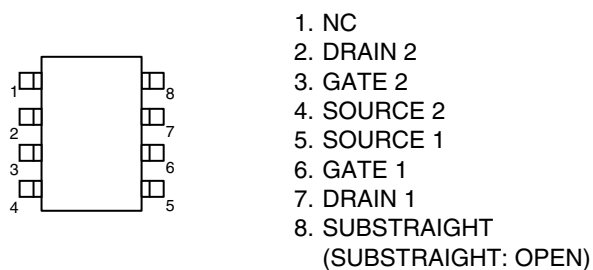
PIN FUNCTION  
1.CONTROL (Active High)  
2.GND  
3.NOISE BYPASS  
4.V<sub>OUT</sub>  
5.V<sub>IN</sub>



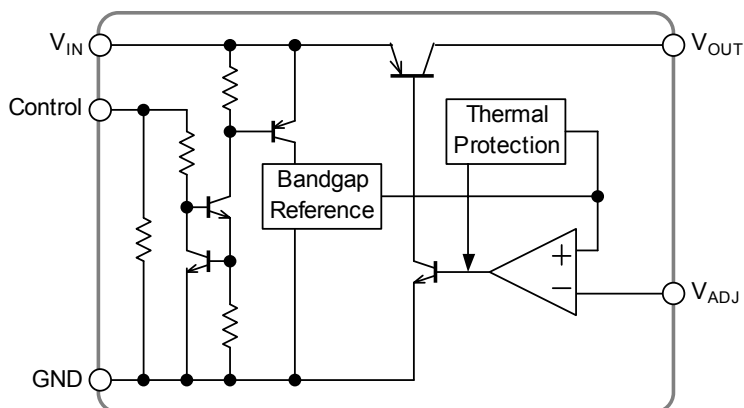
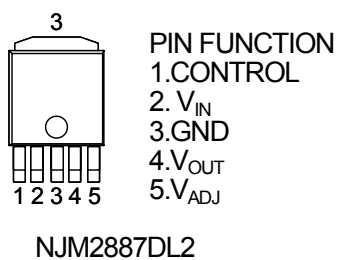
# **Q111 : DSP56364UM (PEC777f2)**



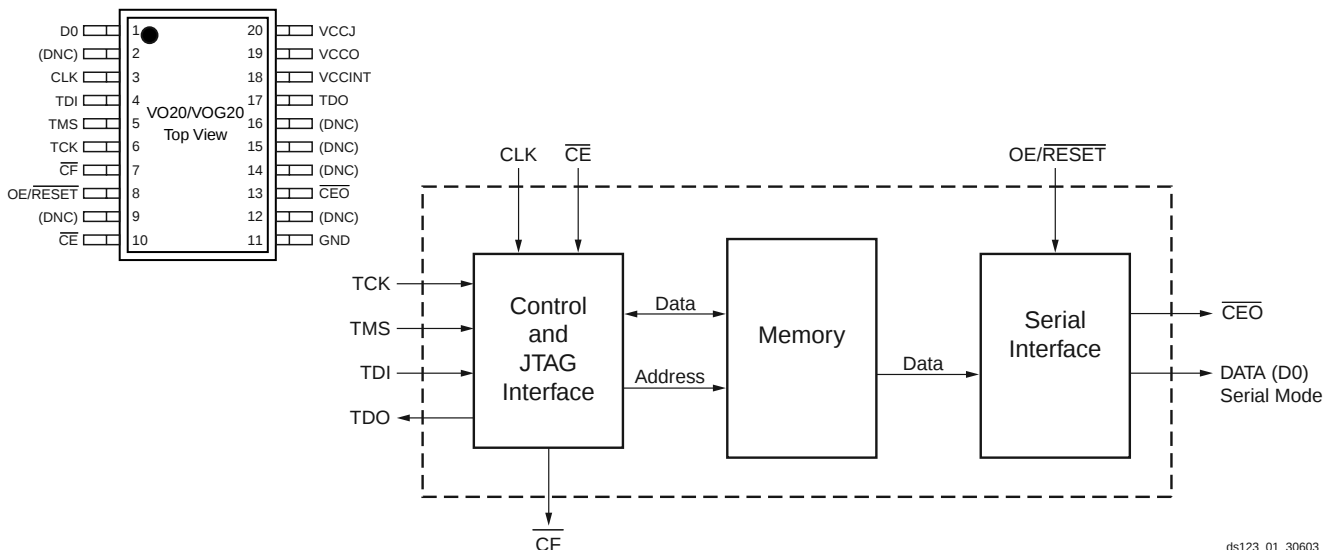
## **Q211 : 2SK389FM**



## **Q202 : NJM2887**



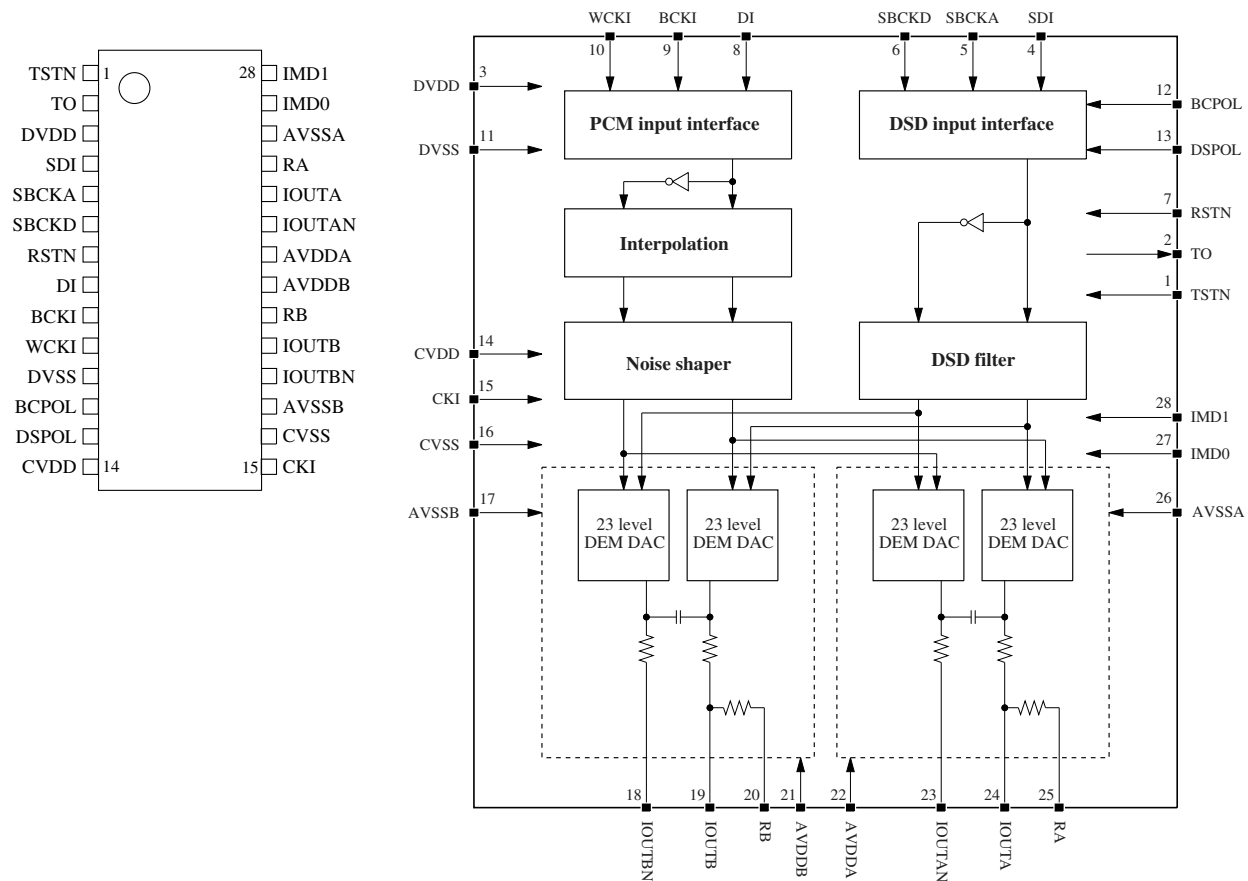
# Q102 : XCF01S



ds123\_01\_30603

| Pin Name | Boundary Scan Order | Boundary Scan Function | Pin Description                                                                                                                                                                                                                                                                                                                | 20-pin TSSOP (VO20/VOG20) |
|----------|---------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| D0       | 4                   | Data Out               | D0 is the DATA output pin to provide data for configuring an FPGA in serial mode. The D0 output is set to a high-impedance state during ISPEN (when not clamped).                                                                                                                                                              | 1                         |
|          | 3                   | Output Enable          |                                                                                                                                                                                                                                                                                                                                |                           |
| CLK      | 0                   | Data In                | Configuration Clock Input. Each rising edge on the CLK input increments the internal address counter if the CLK input is selected, CE is Low, and OE/RESET is High.                                                                                                                                                            | 3                         |
| OE/RESET | 20                  | Data In                | Output Enable/Reset (Open-Drain I/O). When Low, this input holds the address counter reset and the DATA output is in a high-impedance state. This is a bidirectional open-drain pin that is held Low while the PROM is reset. Polarity is not programmable.                                                                    | 8                         |
|          | 19                  | Data Out               |                                                                                                                                                                                                                                                                                                                                |                           |
|          | 18                  | Output Enable          |                                                                                                                                                                                                                                                                                                                                |                           |
| CE       | 15                  | Data In                | Chip Enable Input. When CE is High, the device is put into low-power standby mode, the address counter is reset, and the DATA pins are put in a high-impedance state.                                                                                                                                                          | 10                        |
| CF       | 22                  | Data Out               | Configuration Pulse (Open-Drain Output). Allows JTAG CONFIG instruction to initiate FPGA configuration without powering down FPGA. This is an open-drain output that is pulsed Low by the JTAG CONFIG command.                                                                                                                 | 7                         |
|          | 21                  | Output Enable          |                                                                                                                                                                                                                                                                                                                                |                           |
| CEO      | 12                  | Data Out               | Chip Enable Output. Chip Enable Output (CEO) is connected to the CE input of the next PROM in the chain. This output is Low when CE is Low and OE/RESET input is High, AND the internal address counter has been incremented beyond its Terminal Count (TC) value. CEO returns to High when OE/RESET goes Low or CE goes High. | 13                        |
|          | 11                  | Output Enable          |                                                                                                                                                                                                                                                                                                                                |                           |
| TMS      |                     | Mode Select            | JTAG Mode Select Input. The state of TMS on the rising edge of TCK determines the state transitions at the Test Access Port (TAP) controller. TMS has an internal 50KΩ resistive pull-up to VCCJ to provide a logic "1" to the device if the pin is not driven.                                                                | 5                         |
| TCK      |                     | Clock                  | JTAG Clock Input. This pin is the JTAG test clock. It sequences the TAP controller and all the JTAG test and programming electronics.                                                                                                                                                                                          | 6                         |
| Pin Name | Boundary Scan Order | Boundary Scan Function | Pin Description                                                                                                                                                                                                                                                                                                                | 20-pin TSSOP (VO20/VOG20) |
| TDI      |                     | Data In                | JTAG Serial Data Input. This pin is the serial input to all JTAG instruction and data registers. TDI has an internal 50KΩ resistive pull-up to VCCJ to provide a logic "1" to the device if the pin is not driven.                                                                                                             | 4                         |
| TDO      |                     | Data Out               | JTAG Serial Data Output. This pin is the serial output for all JTAG instruction and data registers. TDO has an internal 50KΩ resistive pull-up to VCCJ to provide a logic "1" to the system if the pin is not driven.                                                                                                          | 17                        |
| VCCINT   |                     |                        | +3.3V Supply. Positive 3.3V supply voltage for internal logic.                                                                                                                                                                                                                                                                 | 18                        |
| VCCO     |                     |                        | +3.3V, 2.5V, or 1.8V I/O Supply. Positive 3.3V, 2.5V, or 1.8V supply voltage connected to the output voltage drivers and input buffers.                                                                                                                                                                                        | 19                        |
| VCCJ     |                     |                        | +3.3V, 2.5V, or 1.8V JTAG I/O Supply. Positive 3.3V, 2.5V, or 1.8V supply voltage connected to the TDO output voltage driver and TCK, TMS, and TDI input buffers.                                                                                                                                                              | 20                        |
| GND      |                     |                        | Ground                                                                                                                                                                                                                                                                                                                         | 11                        |
| DNC      |                     |                        | Do not connect. (These pins must be left unconnected.)                                                                                                                                                                                                                                                                         | 2, 9, 12, 14, 15, 16      |

## Q201 : SM5866



| Number | Name   | I/O <sup>1</sup> | Description                                                      |
|--------|--------|------------------|------------------------------------------------------------------|
| 1      | TSTN   | Ip               | Test mode use only (tie HIGH or leave open for normal operation) |
| 2      | TO     | O                | Test mode use only (leave open for normal operation)             |
| 3      | DVDD   | –                | Digital supply VDD                                               |
| 4      | SDI    | Ip               | DSD data input                                                   |
| 5      | SBCKA  | Ip               | DSD bit clock input                                              |
| 6      | SBCKD  | Ip               | DSD bit clock input (tie LOW for DSD normal input mode)          |
| 7      | RSTN   | Ip               | System reset (active LOW)                                        |
| 8      | DI     | Ip               | PCM data input                                                   |
| 9      | BCKI   | Ip               | PCM bit clock input                                              |
| 10     | WCKI   | Ip               | PCM word clock input                                             |
| 11     | DVSS   | –                | Digital ground VSS                                               |
| 12     | BCPOL  | Ip               | DSD mode bit clock polarity select                               |
| 13     | DSPOL  | Ip               | DSD mode data polarity select                                    |
| 14     | CVDD   | –                | System clock supply VDD                                          |
| 15     | CKI    | I                | System clock                                                     |
| 16     | CVSS   | –                | System clock ground VSS                                          |
| 17     | AVSSB  | –                | B-channel analog ground VSS                                      |
| 18     | IOUTBN | O                | B-channel analog output (inverse-phase)                          |
| 19     | IOUTB  | O                | B-channel analog output (in-phase)                               |
| 20     | RB     | I                | B-channel built-in resistor connection                           |
| 21     | AVDDB  | –                | B-channel analog supply VDD                                      |
| 22     | AVDDA  | –                | A-channel analog supply VDD                                      |
| 23     | IOUTAN | O                | A-channel analog output (inverse-phase)                          |
| 24     | IOUTA  | O                | A-channel analog output (in-phase)                               |
| 25     | RA     | I                | A-channel built-in resistor connection                           |
| 26     | AVSSA  | –                | A-channel analog ground VSS                                      |
| 27     | IMD0   | Ip               | Input mode select                                                |
| 28     | IMD1   | Ip               | Input mode select                                                |

1. Ip = input pin with built-in pull-up resistor

## 15. ELECTRICAL PARTS LIST

### PARTS INFORMATION

#### RESISTORS

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

① — Resistance value

Examples ;

① Resistance value

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

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

#### CAPACITORS

##### CERAMIC CAP.

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

Examples ;

② Tolerance (Capacity deviation)

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

\* Tolerance of COMMON PARTS handled here are as follows :

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

③ Capacity value

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

##### CERAMIC CAP.

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

Examples ;

④ Capacity value

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

##### ELECTROLY CAP. ( $\nabla$ )

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

Examples ;

⑤ Capacity value

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

⑥ Working voltage

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

##### FILM CAP. ( $\pm$ )

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

Examples ;

⑦ Capacity value

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

### NOTE ON SAFETY FOR FUSIBLE RESISTOR :

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

#### 1. KOA Corporation

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

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

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

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

\* Resistance value \* Resistance value

Examples ;

\* Resistance value

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

### ABBREVIATION AND MARKS

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

### NOTE ON FUSE :

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

### NOTE ON SAFETY :

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

### 安全上の注意 :

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME                             | DESCRIPTION                           |
|----------------|----------|----------------|-----------------------|------------------|---------------------------------------|---------------------------------------|
|                |          |                |                       |                  | <b>AUDIO PWB PA16 (00MWI32AK201-)</b> |                                       |
| PA16           | C101     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C102     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C103     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C104     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C105     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C106     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C107     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C108     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C109     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C110     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C111     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C112     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C113     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C114     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C115     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C116     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C117     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C118     |                | nsp                   | 00MDK96681300    | CER. CAP.                             | 680PF (GR39)                          |
| PA16           | C119     |                | nsp                   | 00MDD91060300    | CER. CAP.                             | 6 PF +- 0.5 PF CH 50V GR39            |
| PA16           | C120     |                | nsp                   | 00MDD99030300    | CER. CAP.                             | 3 PF +-0.1 PF CJ 50V                  |
| PA16           | C121     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C122     |                | 00D2574015901         | 00D2574015901    | ELECT. CAP.                           | CE67C1C330MT(PXA)                     |
| PA16           | C123     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C124     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C125     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C126     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C127     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C128     |                | 00MEY10601620         | 00MEY10601620    | ELECT. CAP.                           | 10UF/ 16V                             |
| PA16           | C129     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C130     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C133     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C134     |                | 00MEY10700620         | 00MEY10700620    | ELECT. CAP.                           | 100UF/6.3V                            |
| PA16           | C135     |                | nsp                   | 00MDK96105200    | CER. CAP.                             | 1UF B 6.3V                            |
| PA16           | C137     |                | nsp                   | 00MDK96682300    | CER. CAP.                             | 6800PF (GR39)                         |
| PA16           | C138     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C139     |                | 00D2574015901         | 00D2574015901    | ELECT. CAP.                           | CE67C1C330MT(PXA)                     |
| PA16           | ⚠ C140   |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C141     |                | 00MEY107006B0         | 00MEY107006B0    | ELECT. CAP.                           | PVO-6V101MF60S-R2 (100UF 6.3V ESR=50) |
| PA16           | C142     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C143     |                | 00MEY22600620         | 00MEY22600620    | ELECT. CAP.                           | 22UF/6.3V                             |
| PA16           | C144     |                | nsp                   | 00MDD91100300    | CER. CAP.                             | 10 PF +- 0.5 PF CH 50V GR39           |
| PA16           | C148     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C149     |                | 00MEY10601620         | 00MEY10601620    | ELECT. CAP.                           | 10UF/ 16V                             |
| PA16           | C150     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C151     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C152     |                | 00D2574015901         | 00D2574015901    | ELECT. CAP.                           | CE67C1C330MT(PXA)                     |
| PA16           | C153     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C154     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C155     |                | 00MEY107006B0         | 00MEY107006B0    | ELECT. CAP.                           | PVO-6V101MF60S-R2 (100UF 6.3V ESR=50) |
| PA16           | C156     |                | nsp                   | 00MOA47701620    | ELECT. CAP.                           | 470UF 16V M RA-2                      |
| PA16           | C157     |                | nsp                   | 00MDD95101300    | CER. CAP.                             | 100 PF +- 5 % CG 50V GR39             |
| PA16           | C160     |                | nsp                   | 00MDD95101300    | CER. CAP.                             | 100 PF +- 5 % CG 50V GR39             |
| PA16           | C161     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C162     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C163     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C164     |                | nsp                   | 00MDK96104200    | CER. CAP.                             | 0.1 UF +- 10 % B 10V                  |
| PA16           | C165     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C166     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C167     |                | 00MEY10700620         | 00MEY10700620    | ELECT. CAP.                           | 100UF/6.3V                            |
| PA16           | C168     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C169     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C170     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C171     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C172     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C173     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |
| PA16           | C174     |                | nsp                   | 00MDK98104200    | CER. CAP.                             | GRM39F104Z16 0.1UF                    |

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME   | DESCRIPTION                           |
|----------------|----------|----------------|-----------------------|------------------|-------------|---------------------------------------|
| PA16           | C175     |                | 00MEY107006B0         | 00MEY107006B0    | ELECT. CAP. | PVO-6V101MF60S-R2 (100UF 6.3V ESR=50) |
| PA16           | C176     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C177     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C178     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C181     |                | 00MEY10700620         | 00MEY10700620    | ELECT. CAP. | 100UF/6.3V                            |
| PA16           | C182     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C183     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C184     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C185     |                | 00MEY107006B0         | 00MEY107006B0    | ELECT. CAP. | PVO-6V101MF60S-R2 (100UF 6.3V ESR=50) |
| PA16           | C196     |                | 00MEY47601620         | 00MEY47601620    | ELECT. CAP. | 47UF/ 16V                             |
| PA16           | C197     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C198     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C201     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C202     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C203     |                | nsp                   | 00MOA107010R0    | ELECT. CAP. | ROA-10V 101M - G3#PE - T2 (100UF 10V) |
| PA16           | C204     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C205     |                | nsp                   | 00MOA107010R0    | ELECT. CAP. | ROA-10V 101M - G3#PE - T2 (100UF 10V) |
| PA16           | C206     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C208     |                | nsp                   | 00MOA107010R0    | ELECT. CAP. | ROA-10V 101M - G3#PE - T2 (100UF 10V) |
| PA16           | C209     |                | nsp                   | 00MDK96102300    | CER. CAP.   | 1000 PF +- 10 % B 50V GR36            |
| PA16           | C210     |                | nsp                   | 00MDD95101300    | CER. CAP.   | 100 PF +- 5 % CG 50V GR39             |
| PA16           | C211     |                | 00MDF95331500         | 00MDF95331500    | CHIP MICA   | UC342H3300J 330PF 500WV               |
| PA16           | C212     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C221     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C222     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C226     |                | 00MDF95331500         | 00MDF95331500    | CHIP MICA   | UC342H3300J 330PF 500WV               |
| PA16           | C227     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C251     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C252     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C253     |                | nsp                   | 00MOA107010R0    | ELECT. CAP. | ROA-10V 101M - G3#PE - T2 (100UF 10V) |
| PA16           | C254     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C255     |                | nsp                   | 00MOA107010R0    | ELECT. CAP. | ROA-10V 101M - G3#PE - T2 (100UF 10V) |
| PA16           | C256     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C258     |                | nsp                   | 00MOA107010R0    | ELECT. CAP. | ROA-10V 101M - G3#PE - T2 (100UF 10V) |
| PA16           | C259     |                | nsp                   | 00MDK96102300    | CER. CAP.   | 1000 PF +- 10 % B 50V GR36            |
| PA16           | C260     |                | nsp                   | 00MDD95101300    | CER. CAP.   | 100 PF +- 5 % CG 50V GR39             |
| PA16           | C261     |                | 00MDF95331500         | 00MDF95331500    | CHIP MICA   | UC342H3300J 330PF 500WV               |
| PA16           | C262     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C271     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C272     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C276     |                | 00MDF95331500         | 00MDF95331500    | CHIP MICA   | UC342H3300J 330PF 500WV               |
| PA16           | C277     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C293     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C294     |                | nsp                   | 00MOA106035Z0    | ELECT. CAP. | ROS-35V 100M - F3#PE - T2 (10UF 35V)  |
| PA16           | C296     |                | nsp                   | 00MDK98104200    | CER. CAP.   | GRM39F104Z16 0.1UF                    |
| PA16           | C297     |                | nsp                   | 00MOA106035Z0    | ELECT. CAP. | ROS-35V 100M - F3#PE - T2 (10UF 35V)  |
| PA16           | C301     |                | 00MDF95331500         | 00MDF95331500    | CHIP MICA   | UC342H3300J 330PF 500WV               |
| PA16           | C302     |                | 00MDF95151500         | 00MDF95151500    | CHIP MICA   | UC342H1500J 150PF 500WV               |
| PA16           | C303     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C321     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C322     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C326     |                | 00MDF95331500         | 00MDF95331500    | CHIP MICA   | UC342H3300J 330PF 500WV               |
| PA16           | C327     |                | 00MDF95151500         | 00MDF95151500    | CHIP MICA   | UC342H1500J 150PF 500WV               |
| PA16           | C328     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C351     |                | 00MDF95331500         | 00MDF95331500    | CHIP MICA   | UC342H3300J 330PF 500WV               |
| PA16           | C352     |                | 00MDF95151500         | 00MDF95151500    | CHIP MICA   | UC342H1500J 150PF 500WV               |
| PA16           | C353     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C371     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C372     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C376     |                | 00MDF95331500         | 00MDF95331500    | CHIP MICA   | UC342H3300J 330PF 500WV               |
| PA16           | C377     |                | 00MDF95151500         | 00MDF95151500    | CHIP MICA   | UC342H1500J 150PF 500WV               |
| PA16           | C378     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C402     |                | 00MDF91100500         | 00MDF91100500    | CHIP MICA   | UC232H0100D 10PF 500WV                |
| PA16           | C403     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C405     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C406     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C421     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |

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| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME   | DESCRIPTION                           |
|----------------|----------|----------------|-----------------------|------------------|-------------|---------------------------------------|
| PA16           | C422     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C427     |                | 00MDF91100500         | 00MDF91100500    | CHIP MICA   | UC232H0100D 10PF 500WV                |
| PA16           | C428     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C430     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C431     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C452     |                | 00MDF91100500         | 00MDF91100500    | CHIP MICA   | UC232H0100D 10PF 500WV                |
| PA16           | C453     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C455     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C456     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C471     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C472     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C477     |                | 00MDF91100500         | 00MDF91100500    | CHIP MICA   | UC232H0100D 10PF 500WV                |
| PA16           | C478     |                | 00MDF95330500         | 00MDF95330500    | CHIP MICA   | UC232H0330J 33PF 500WV                |
| PA16           | C480     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C481     |                | nsp                   | 00MOA227016Z0    | ELECT. CAP. | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PA16           | C841     |                | 00MOB10803530         | 00MOB10803530    | ELECT. CAP. | 1000UF 35V SPECIAL (LF)               |
| PA16           | C842     |                | nsp                   | 00MOA107025R0    | ELECT. CAP. | ROA-25V 101M -H4#PE - T2 (100UF 25V)  |
| PA16           | C843     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C851     |                | 00MOB47803590         | 00MOB47803590    | ELECT. CAP. | 4700U 35V(LAO)(LF)-BLOCK AQL-0298     |
| PA16           | C852     |                | 00MOB47803590         | 00MOB47803590    | ELECT. CAP. | 4700U 35V(LAO)(LF)-BLOCK AQL-0298     |
| PA16           | C853     |                | nsp                   | 00MOA107025R0    | ELECT. CAP. | ROA-25V 101M -H4#PE - T2 (100UF 25V)  |
| PA16           | C854     |                | nsp                   | 00MOA107025R0    | ELECT. CAP. | ROA-25V 101M -H4#PE - T2 (100UF 25V)  |
| PA16           | C855     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | C856     |                | nsp                   | 00MOA477025R0    | ELECT. CAP. | ROA-25V 471M -I6#PE - S13 (470UF 25V) |
| PA16           | CN06     |                | nsp                   | 00MOA47602520    | ELECT. CAP. | 47 UF M 25V RA-2                      |
| PA16           | CN08     |                | nsp                   | 00MOA10702520    | ELECT. CAP. | 100 UF M 25V RA-2                     |
| PA16           | CN10     |                | 00MEY10601620         | 00MEY10601620    | ELECT. CAP. | 10UF/ 16V                             |
| PA16           | D101     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D102     |                | 00MHZ21005000         | 00MHZ21005000    | CHIP DIODE  | 1SS301 DAN202U UMT TYPE               |
| PA16           | D201     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D202     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D226     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D227     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D251     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D252     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D276     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D277     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D301     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D302     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D326     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D327     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D351     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D352     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D376     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D377     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D401     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D402     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D403     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D404     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D426     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D427     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D428     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D429     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D451     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D452     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D453     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D454     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D476     |                | 00MHZ20007210         | 00MHZ20007210    | CHIP DIODE  | IMN10 DIODE ARRAY                     |
| PA16           | D477     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D478     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | D479     |                | 00MHZ20018050         | 00MHZ20018050    | CHIP DIODE  | 1SS302 (TE85L F)                      |
| PA16           | ⚠ D841   |                | 00MHD20003710         | 00MHD20003710    | DIODE       | ! SCHOTTKY 1S100 1A 100V              |
| PA16           | ⚠ D842   |                | 00MHD20003710         | 00MHD20003710    | DIODE       | ! SCHOTTKY 1S100 1A 100V              |
| PA16           | ⚠ D843   |                | 00MHD20003710         | 00MHD20003710    | DIODE       | ! SCHOTTKY 1S100 1A 100V              |
| PA16           | ⚠ D844   |                | 00MHD20003710         | 00MHD20003710    | DIODE       | ! SCHOTTKY 1S100 1A 100V              |
| PA16           | D846     |                | 00MHD30911000         | 00MHD30911000    | ZENER DIODE | 9.1V ZENER EQUIVALENT                 |
| PA16           | ⚠ D851   |                | 00MHD20003710         | 00MHD20003710    | DIODE       | ! SCHOTTKY 1S100 1A 100V              |

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|----------------|----------|----------------|-----------------------|------------------|-----------------|------------------------------|
| PA16           | ▲ D852   |                | 00MHD20003710         | 00MHD20003710    | DIODE           | ! SCHOTTKY 1S100 1A 100V     |
| PA16           | ▲ D853   |                | 00MHD20003710         | 00MHD20003710    | DIODE           | ! SCHOTTKY 1S100 1A 100V     |
| PA16           | ▲ D854   |                | 00MHD20003710         | 00MHD20003710    | DIODE           | ! SCHOTTKY 1S100 1A 100V     |
| PA16           | ▲ D855   |                | 00MHD20003710         | 00MHD20003710    | DIODE           | ! SCHOTTKY 1S100 1A 100V     |
| PA16           | ▲ D856   |                | 00MHD20003710         | 00MHD20003710    | DIODE           | ! SCHOTTKY 1S100 1A 100V     |
| PA16           | ▲ D857   |                | 00MHD20003710         | 00MHD20003710    | DIODE           | ! SCHOTTKY 1S100 1A 100V     |
| PA16           | ▲ D858   |                | 00MHD20003710         | 00MHD20003710    | DIODE           | ! SCHOTTKY 1S100 1A 100V     |
| PA16           | D861     |                | 00MHD30021010         | 00MHD30021010    | ZENER DIODE     | ZENER HZ6A3L                 |
| PA16           | D862     |                | 00MHD30021010         | 00MHD30021010    | ZENER DIODE     | ZENER HZ6A3L                 |
| PA16           | DN19     |                | 00MHD31001000         | 00MHD31001000    | ZENER DIODE     | 10V ZENER EQUIVALENT         |
| PA16           | DN20     |                | 00MHZ21005000         | 00MHZ21005000    | CHIP DIODE      | 1SS301 DAN202U UMT TYPE      |
| PA16           | DN21     |                | 00MHZ21005000         | 00MHZ21005000    | CHIP DIODE      | 1SS301 DAN202U UMT TYPE      |
| PA16           | DN22     |                | 00MHZ21005000         | 00MHZ21005000    | CHIP DIODE      | 1SS301 DAN202U UMT TYPE      |
| PA16           | DN23     |                | 00MHZ21005000         | 00MHZ21005000    | CHIP DIODE      | 1SS301 DAN202U UMT TYPE      |
| PA16           | DN24     |                | 00MHZ21005000         | 00MHZ21005000    | CHIP DIODE      | 1SS301 DAN202U UMT TYPE      |
| PA16           | DN25     |                | 00MHZ21005000         | 00MHZ21005000    | CHIP DIODE      | 1SS301 DAN202U UMT TYPE      |
| PA16           | DN26     |                | 00MHZ21005000         | 00MHZ21005000    | CHIP DIODE      | 1SS301 DAN202U UMT TYPE      |
| PA16           | J806     |                | 00MYP10004500         | 00MYP10004500    | PLUG            | 10PL-FJ(10P PLUG FJ-L TYPE)  |
| PA16           | L101     |                | 00MLU12222010         | 00MLU12222010    | CHIP INDUCTANCE | NL322522-2R2M                |
| PA16           | L103     |                | 00MFM12223030         | 00MFM12223030    | EMI FILTER      | NFM41R10C223T1/B1 EMI FILTER |
| PA16           | L131     |                | 00MFM12223030         | 00MFM12223030    | EMI FILTER      | NFM41R10C223T1/B1 EMI FILTER |
| PA16           | L133     |                | 00MFC90020100         | 00MFC90020100    | FERRITE CORE    | FB M J2125HM330-T            |
| PA16           | L151     |                | 00MFC90020110         | 00MFC90020110    | FERRITE CORE    | BLM11B601S CHIP FERRITE      |
| PA16           | L180     |                | 00D2350147909         | 00D2350147909    | INDUCTOR        | E.FIL(BLM21PG221SN1)+2125    |
| PA16           | L201     |                | 00MFC90020100         | 00MFC90020100    | FERRITE CORE    | FB M J2125HM330-T            |
| PA16           | L251     |                | 00MFC90020100         | 00MFC90020100    | FERRITE CORE    | FB M J2125HM330-T            |
| PA16           | LN21     |                | 00MLY20120650         | 00MLY20120650    | RELAY           | UA2-12NU                     |
| PA16           | LN22     |                | 00MLY20120650         | 00MLY20120650    | RELAY           | UA2-12NU                     |
| PA16           | LN23     |                | 00MLY20120650         | 00MLY20120650    | RELAY           | UA2-12NU                     |
| PA16           | LN24     |                | 00MLY20120650         | 00MLY20120650    | RELAY           | UA2-12NU                     |
| PA16           | LN25     |                | 00MLY20120650         | 00MLY20120650    | RELAY           | UA2-12NU                     |
| PA16           | LN26     |                | 00MLY20120650         | 00MLY20120650    | RELAY           | UA2-12NU                     |
| PA16           | Q101     |                | 00MHC10250990         | 00MHC10250990    | IC              | XC2S15-5VQ100C FPGA          |
| PA16           | Q102     |                | 00MHJ27AKX200         | 00MHJ27AKX200    | EPROM/EEPROM    | XCF01SV020C FOR SA-7S1       |
| PA16           | Q103     |                | 00MHC012405K0         | 00MHC012405K0    | IC              | TC7SGU04FE(TE85L F           |
| PA16           | Q104     |                | 00MHC012405K0         | 00MHC012405K0    | IC              | TC7SGU04FE(TE85L F           |
| PA16           | Q105     |                | 00MHC012405K0         | 00MHC012405K0    | IC              | TC7SGU04FE(TE85L F           |
| PA16           | Q106     |                | 00MHC98403980         | 00MHC98403980    | IC              | XC6203P332PR 3.3V 0.4A REG.  |
| PA16           | Q107     |                | 00MHC98102090         | 00MHC98102090    | IC              | NJM2880U25-TE1 2.5V REG      |
| PA16           | Q109     |                | 00MHC96303320         | 00MHC96303320    | IC              | PQ1U331M2ZPH 3.3V 300MA      |
| PA16           | Q110     |                | 00MHC96303320         | 00MHC96303320    | IC              | PQ1U331M2ZPH 3.3V 300MA      |
| PA16           | Q111     |                | 00MHC10114170         | 00MHC10114170    | IC              | DSP56364FU100 AUDIO DSP      |
| PA16           | Q112     |                | 00MHC10436050         | 00MHC10436050    | IC              | TC7SH86FU                    |
| PA16           | Q114     |                | 00MHJ27AKX30F         | 00MHJ27AKX30F    | EPROM/EEPROM    | AT49BV040B-TU FOR SA-7S1     |
| PA16           | Q115     |                | 00MBA21303000         | 00MBA21303000    | TRS.            | DTC124EU RN1303 UMT TYPE     |
| PA16           | Q116     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS.       | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PA16           | Q117     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS.       | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PA16           | Q127     |                | 00MHC008905K0         | 00MHC008905K0    | IC              | TC7SZ08FU                    |
| PA16           | Q128     |                | 00MHC96303320         | 00MHC96303320    | IC              | PQ1U331M2ZPH 3.3V 300MA      |
| PA16           | Q129     |                | 00MHC10436050         | 00MHC10436050    | IC              | TC7SH86FU                    |
| PA16           | Q130     |                | 00MHC10436050         | 00MHC10436050    | IC              | TC7SH86FU                    |
| PA16           | Q131     |                | 00MHC704649Z0         | 00MHC704649Z0    | IC              | 74HC4046 AF (FLAT PACK)      |
| PA16           | Q180     |                | 00MHC96303320         | 00MHC96303320    | IC              | PQ1U331M2ZPH 3.3V 300MA      |
| PA16           | Q181     |                | 00MHC008405K0         | 00MHC008405K0    | IC              | TC74VHC86FT EXOR             |
| PA16           | Q182     |                | 00MHC008405K0         | 00MHC008405K0    | IC              | TC74VHC86FT EXOR             |
| PA16           | Q183     |                | 00MHC008405K0         | 00MHC008405K0    | IC              | TC74VHC86FT EXOR             |
| PA16           | Q201     |                | 00MHC10018350         | 00MHC10018350    | IC              | SM5866AS-G DSD/PCM DAC       |
| PA16           | Q202     |                | 00MHC91506090         | 00MHC91506090    | IC              | NJM2887DL2                   |
| PA16           | Q211     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.          | 2SK389FM-BL                  |
| PA16           | Q212     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS.       | 2SC2873 (Y)                  |
| PA16           | Q213     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS.       | 2SA1312 (B)                  |
| PA16           | Q214     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS.       | 2SA1312 (B)                  |
| PA16           | Q215     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS.       | 2SC3324 (B)                  |
| PA16           | Q216     |                | 00MHF201701H0         | 00MHF201701H0    | F.E.T.          | 2SK170 V LANK                |
| PA16           | Q217     |                | 00MHF100741H0         | 00MHF100741H0    | F.E.T.          | 2SJ74 V LANK                 |
| PA16           | Q226     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.          | 2SK389FM-BL                  |
| PA16           | Q227     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS.       | 2SC2873 (Y)                  |

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME | DESCRIPTION              |
|----------------|----------|----------------|-----------------------|------------------|-----------|--------------------------|
| PA16           | Q228     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q229     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q230     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q231     |                | 00MHF201701H0         | 00MHF201701H0    | F.E.T.    | 2SK170 V LANK            |
| PA16           | Q232     |                | 00MHF100741H0         | 00MHF100741H0    | F.E.T.    | 2SJ74 V LANK             |
| PA16           | Q251     |                | 00MHC10018350         | 00MHC10018350    | IC        | SM5866AS-G DSD/PCM DAC   |
| PA16           | Q252     |                | 00MHC91506090         | 00MHC91506090    | IC        | NJM2887DL2               |
| PA16           | Q261     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL              |
| PA16           | Q262     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)              |
| PA16           | Q263     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q264     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q265     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q267     |                | 00MHF201701H0         | 00MHF201701H0    | F.E.T.    | 2SK170 V LANK            |
| PA16           | Q268     |                | 00MHF100741H0         | 00MHF100741H0    | F.E.T.    | 2SJ74 V LANK             |
| PA16           | Q276     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL              |
| PA16           | Q277     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)              |
| PA16           | Q278     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q279     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q280     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q281     |                | 00MHF201701H0         | 00MHF201701H0    | F.E.T.    | 2SK170 V LANK            |
| PA16           | Q282     |                | 00MHF100741H0         | 00MHF100741H0    | F.E.T.    | 2SJ74 V LANK             |
| PA16           | Q292     |                | 00MHC10179090         | 00MHC10179090    | IC        | NJM3414AM-TE DUAL OP-AMP |
| PA16           | Q301     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL              |
| PA16           | Q302     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)              |
| PA16           | Q303     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q304     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q305     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q306     |                | 00MHF201701H0         | 00MHF201701H0    | F.E.T.    | 2SK170 V LANK            |
| PA16           | Q307     |                | 00MHF100741H0         | 00MHF100741H0    | F.E.T.    | 2SJ74 V LANK             |
| PA16           | Q326     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL              |
| PA16           | Q327     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)              |
| PA16           | Q328     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q329     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q330     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q331     |                | 00MHF201701H0         | 00MHF201701H0    | F.E.T.    | 2SK170 V LANK            |
| PA16           | Q332     |                | 00MHF100741H0         | 00MHF100741H0    | F.E.T.    | 2SJ74 V LANK             |
| PA16           | Q351     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL              |
| PA16           | Q352     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)              |
| PA16           | Q353     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q354     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q355     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q356     |                | 00MHF201701H0         | 00MHF201701H0    | F.E.T.    | 2SK170 V LANK            |
| PA16           | Q357     |                | 00MHF100741H0         | 00MHF100741H0    | F.E.T.    | 2SJ74 V LANK             |
| PA16           | Q376     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL              |
| PA16           | Q377     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)              |
| PA16           | Q378     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q379     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q380     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q381     |                | 00MHF201701H0         | 00MHF201701H0    | F.E.T.    | 2SK170 V LANK            |
| PA16           | Q382     |                | 00MHF100741H0         | 00MHF100741H0    | F.E.T.    | 2SJ74 V LANK             |
| PA16           | Q401     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL              |
| PA16           | Q402     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)              |
| PA16           | Q403     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q404     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q405     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q409     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q410     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q412     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q413     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q414     |                | 00MHT327052A0         | 00MHT327052A0    | TRS.      | 2SC2705 O OR Y           |
| PA16           | Q415     |                | 00MHT111452A0         | 00MHT111452A0    | TRS.      | 2SA1145 O OR Y           |
| PA16           | Q426     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL              |
| PA16           | Q427     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)              |
| PA16           | Q428     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q429     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |
| PA16           | Q430     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)              |
| PA16           | Q434     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)              |

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|----------------|----------|----------------|-----------------------|------------------|-----------|------------------------------|
| PA16           | Q435     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)                  |
| PA16           | Q437     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)                  |
| PA16           | Q438     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)                  |
| PA16           | Q439     |                | 00MHT327052A0         | 00MHT327052A0    | TRS.      | 2SC2705 O OR Y               |
| PA16           | Q440     |                | 00MHT111452A0         | 00MHT111452A0    | TRS.      | 2SA1145 O OR Y               |
| PA16           | Q451     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL                  |
| PA16           | Q452     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)                  |
| PA16           | Q453     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)                  |
| PA16           | Q454     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)                  |
| PA16           | Q455     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)                  |
| PA16           | Q459     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)                  |
| PA16           | Q460     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)                  |
| PA16           | Q462     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)                  |
| PA16           | Q463     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)                  |
| PA16           | Q464     |                | 00MHT327052A0         | 00MHT327052A0    | TRS.      | 2SC2705 O OR Y               |
| PA16           | Q465     |                | 00MHT111452A0         | 00MHT111452A0    | TRS.      | 2SA1145 O OR Y               |
| PA16           | Q476     |                | 00MHF203891A0         | 00MHF203891A0    | F.E.T.    | 2SK389FM-BL                  |
| PA16           | Q477     |                | 00MHX328731B0         | 00MHX328731B0    | CHIP TRS. | 2SC2873 (Y)                  |
| PA16           | Q478     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)                  |
| PA16           | Q479     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)                  |
| PA16           | Q480     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)                  |
| PA16           | Q484     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)                  |
| PA16           | Q485     |                | 00MHX113121B0         | 00MHX113121B0    | CHIP TRS. | 2SA1312 (B)                  |
| PA16           | Q487     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)                  |
| PA16           | Q488     |                | 00MHX333241B0         | 00MHX333241B0    | CHIP TRS. | 2SC3324 (B)                  |
| PA16           | Q489     |                | 00MHT327052A0         | 00MHT327052A0    | TRS.      | 2SC2705 O OR Y               |
| PA16           | Q490     |                | 00MHT111452A0         | 00MHT111452A0    | TRS.      | 2SA1145 O OR Y               |
| PA16           | Q601     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS. | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PA16           | Q602     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS. | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PA16           | Q603     |                | 00MHX207982A0         | 00MHX207982A0    | CHIP TRS. | 2SB798 (DL DK)               |
| PA16           | ▲ Q841   |                | 00MHT41415100         | 00MHT41415100    | TRS.      | ! TRANSISTOR 2SD1415         |
| PA16           | Q842     |                | 00MHF202461C0         | 00MHF202461C0    | F.E.T.    | 2SK246 (GR)                  |
| PA16           | ▲ Q851   |                | 00MHT41415100         | 00MHT41415100    | TRS.      | ! TRANSISTOR 2SD1415         |
| PA16           | ▲ Q852   |                | 00MHT21020100         | 00MHT21020100    | TRS.      | ! 2SB1020                    |
| PA16           | Q853     |                | 00MHF202461C0         | 00MHF202461C0    | F.E.T.    | 2SK246 (GR)                  |
| PA16           | Q854     |                | 00MHF202461C0         | 00MHF202461C0    | F.E.T.    | 2SK246 (GR)                  |
| PA16           | Q855     |                | 00MHT322402A0         | 00MHT322402A0    | TRS.      | 2SC2240 GR OR BL             |
| PA16           | Q856     |                | 00MHT109702A0         | 00MHT109702A0    | TRS.      | 2SA970 (GR) OR (BL)          |
| PA16           | ▲ QN05   |                | 00MHC3851209F         | 00MHC3851209F    | IC        | ! NJM78M12FA                 |
| PA16           | QN07     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS. | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PA16           | QN08     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS. | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PA16           | QN09     |                | 00MHX207982A0         | 00MHX207982A0    | CHIP TRS. | 2SB798 (DL DK)               |
| PA16           | QN10     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS. | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PA16           | R102     |                | nsp                   | 00MNN05101610    | CHIP RES. | 100 OHM +- 5% 1/16W          |
| PA16           | R103     |                | nsp                   | 00MNN05330610    | CHIP RES. | 33 OHM +- 5% 1/16W           |
| PA16           | R104     |                | nsp                   | 00MNN05330610    | CHIP RES. | 33 OHM +- 5% 1/16W           |
| PA16           | R105     |                | nsp                   | 00MNN05330610    | CHIP RES. | 33 OHM +- 5% 1/16W           |
| PA16           | R106     |                | nsp                   | 00MNN05183610    | CHIP RES. | 18K OHM +- 5% 1/16W          |
| PA16           | R107     |                | nsp                   | 00MNN05331610    | CHIP RES. | 330 OHM +- 5% 1/16W          |
| PA16           | R108     |                | nsp                   | 00MNN05472610    | CHIP RES. | 4.7K OHM +- 5% 1/16W         |
| PA16           | R109     |                | nsp                   | 00MNN05332610    | CHIP RES. | 3.3K OHM +- 5% 1/16W         |
| PA16           | R111     |                | nsp                   | 00MNN05561610    | CHIP RES. | 560 OHM +- 5% 1/16W          |
| PA16           | R112     |                | nsp                   | 00MNN05105610    | CHIP RES. | 1M OHM +- 5% 1/16W           |
| PA16           | R113     |                | nsp                   | 00MNN05101610    | CHIP RES. | 100 OHM +- 5% 1/16W          |
| PA16           | R114     |                | nsp                   | 00MNN05101610    | CHIP RES. | 100 OHM +- 5% 1/16W          |
| PA16           | R116     |                | nsp                   | 00MNN05101610    | CHIP RES. | 100 OHM +- 5% 1/16W          |
| PA16           | R117     |                | nsp                   | 00MNN05101610    | CHIP RES. | 100 OHM +- 5% 1/16W          |
| PA16           | R118     |                | nsp                   | 00MNN05101610    | CHIP RES. | 100 OHM +- 5% 1/16W          |
| PA16           | R119     |                | nsp                   | 00MNN05101610    | CHIP RES. | 100 OHM +- 5% 1/16W          |
| PA16           | R120     |                | nsp                   | 00MNN05101610    | CHIP RES. | 100 OHM +- 5% 1/16W          |
| PA16           | R121     |                | nsp                   | 00MNN05472610    | CHIP RES. | 4.7K OHM +- 5% 1/16W         |
| PA16           | R122     |                | nsp                   | 00MNN05103610    | CHIP RES. | 10K OHM +- 5% 1/16W          |
| PA16           | R127     |                | nsp                   | 00MNN05102610    | CHIP RES. | 1K OHM +- 5% 1/16W           |
| PA16           | R130     |                | nsp                   | 00MNN05680610    | CHIP RES. | 68 OHM +- 5% 1/16W           |
| PA16           | R131     |                | nsp                   | 00MNN05103610    | CHIP RES. | 10K OHM +- 5% 1/16W          |
| PA16           | R132     |                | nsp                   | 00MNN05473610    | CHIP RES. | 47K OHM +- 5% 1/16W          |
| PA16           | R134     |                | nsp                   | 00MNN05273610    | CHIP RES. | 27K OHM +- 5% 1/16W          |

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|----------------|----------|----------------|-----------------------|------------------|------------|-----------------------------------|
| PA16           | R135     |                | nsp                   | 00MNN05470610    | CHIP RES.  | 47 OHM +- 5% 1/16W                |
| PA16           | R138     |                | nsp                   | 00MNN05100610    | CHIP RES.  | 10 OHM +- 5% 1/16W                |
| PA16           | R150     |                | nsp                   | 00MNN05103610    | CHIP RES.  | 10K OHM +- 5% 1/16W               |
| PA16           | R152     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R153     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R154     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R155     |                | nsp                   | 00MNN05100610    | CHIP RES.  | 10 OHM +- 5% 1/16W                |
| PA16           | R156     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R157     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R158     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R159     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R160     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R161     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R162     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R163     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R164     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R165     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R166     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R167     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R168     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R169     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R170     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R171     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R172     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R173     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R174     |                | nsp                   | 00MNN05330610    | CHIP RES.  | 33 OHM +- 5% 1/16W                |
| PA16           | R201     |                | 00MNI05222110         | 00MNI05222110    | CHIP RES.  | 2.2K OHM +- 5% 1/10W              |
| PA16           | R203     |                | 00MNI05562110         | 00MNI05562110    | CHIP RES.  | 5.6K OHM +- 5% 1/10W              |
| PA16           | R205     |                | 00MRA04720780         | 00MRA04720780    | TRIM. RES. | 4.7KOHM KVSF637TC472              |
| PA16           | R218     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R233     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R251     |                | 00MNI05222110         | 00MNI05222110    | CHIP RES.  | 2.2K OHM +- 5% 1/10W              |
| PA16           | R253     |                | 00MNI05562110         | 00MNI05562110    | CHIP RES.  | 5.6K OHM +- 5% 1/10W              |
| PA16           | R268     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R283     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R309     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R334     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R359     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R384     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R413     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R438     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R463     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R488     |                | 00MNI05101110         | 00MNI05101110    | CHIP RES.  | 100 OHM +- 5% 1/10W               |
| PA16           | R601     |                | nsp                   | 00MNN05472610    | CHIP RES.  | 4.7K OHM +- 5% 1/16W              |
| PA16           | R602     |                | nsp                   | 00MNN05472610    | CHIP RES.  | 4.7K OHM +- 5% 1/16W              |
| PA16           | R603     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R604     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | R605     |                | nsp                   | 00MNN05332610    | CHIP RES.  | 3.3K OHM +- 5% 1/16W              |
| PA16           | R606     |                | nsp                   | 00MNN05224610    | CHIP RES.  | 220K OHM +- 5% 1/16W              |
| PA16           | R691     | F N            | nsp                   | 00MNN05000610    | CHIP RES.  | 0 OHM +- 5% 1/16W                 |
| PA16           | R691     | /U1G           | nsp                   | 00MNN05000610    | CHIP RES.  | 0 OHM +- 5% 1/16W                 |
| PA16           | R692     | /K1G           | nsp                   | 00MNN05000610    | CHIP RES.  | 0 OHM +- 5% 1/16W                 |
| PA16           | R692     | /N1G           | nsp                   | 00MNN05000610    | CHIP RES.  | 0 OHM +- 5% 1/16W                 |
| PA16           | R692     | /N1S           | nsp                   | 00MNN05000610    | CHIP RES.  | 0 OHM +- 5% 1/16W                 |
| PA16           | R693     | F N            | nsp                   | 00MNN05000610    | CHIP RES.  | 0 OHM +- 5% 1/16W                 |
| PA16           | R693     | /U1G           | nsp                   | 00MNN05000610    | CHIP RES.  | 0 OHM +- 5% 1/16W                 |
| PA16           | RN09     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | RN10     |                | nsp                   | 00MNN05472610    | CHIP RES.  | 4.7K OHM +- 5% 1/16W              |
| PA16           | RN11     |                | nsp                   | 00MNN05473610    | CHIP RES.  | 47K OHM +- 5% 1/16W               |
| PA16           | RN12     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | RN13     |                | nsp                   | 00MNN05332610    | CHIP RES.  | 3.3K OHM +- 5% 1/16W              |
| PA16           | RN14     |                | nsp                   | 00MNN05224610    | CHIP RES.  | 220K OHM +- 5% 1/16W              |
| PA16           | RN15     |                | nsp                   | 00MNN05102610    | CHIP RES.  | 1K OHM +- 5% 1/16W                |
| PA16           | RN16     |                | nsp                   | 00MNN05223610    | CHIP RES.  | 22K OHM +- 5% 1/16W               |
| PA16           | X101     |                | 00MJX67002270         | 00MJX67002270    | X'TAL      | 67.7376MHZ UM-5 (ZT23522)         |
| PA16           | X102     |                | 00MZX27AK0100         | 00MZX27AK0100    | UNIT KIT   | DSB321SD(ZT20231) TCXO 33.8688MHZ |
| PA16           | X103     |                | 00MZX27AK0110         | 00MZX27AK0110    | UNIT KIT   | DSV321SV(ZT19595) VCXO 67.7376MHZ |

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME                                    | DESCRIPTION                           |
|----------------|----------|----------------|-----------------------|------------------|----------------------------------------------|---------------------------------------|
|                |          |                |                       |                  | <b>POWER SUPPLY PWB PP16 (00MWG32AK101-)</b> |                                       |
| PP16           | C802     |                | nsp                   | 00MOA68801620    | ELECT. CAP.                                  | 6800 UF 16V RA2 TYPE                  |
| PP16           | C803     |                | nsp                   | 00MOA68801620    | ELECT. CAP.                                  | 6800 UF 16V RA2 TYPE                  |
| PP16           | C804     |                | nsp                   | 00MOA22702520    | ELECT. CAP.                                  | 220 UF M 25V RA-2                     |
| PP16           | C805     |                | nsp                   | 00MOA33800620    | ELECT. CAP.                                  | 3300UF M 6.3V RA-2                    |
| PP16           | C806     |                | nsp                   | 00MOA68801620    | ELECT. CAP.                                  | 6800 UF 16V RA2 TYPE                  |
| PP16           | C811     |                | nsp                   | 00MOA47802520    | ELECT. CAP.                                  | 4700UF/25V RA-2                       |
| PP16           | C813     |                | nsp                   | 00MOA47801620    | ELECT. CAP.                                  | 4700UF 16V RA2                        |
| PP16           | C814     |                | nsp                   | 00MOA22701620    | ELECT. CAP.                                  | ROS-16V 221M - H5#PE - T2 (220UF 16V) |
| PP16           | C815     |                | nsp                   | 00MOA22705020    | ELECT. CAP.                                  | 220 UF M 50V RA-2                     |
| PP16           | CE04     |                | nsp                   | 00MOA10702520    | ELECT. CAP.                                  | ROS-25V 101M - H4#PE - T2 (100UF 25V) |
| PP16           | CN01     |                | nsp                   | 00MOA10703520    | ELECT. CAP.                                  | 100 UF M 35V RA-2                     |
| PP16           | CN02     |                | nsp                   | 00MOA10510020    | ELECT. CAP.                                  | 1UF100V RA-2TYPE                      |
| PP16           | CN03     |                | nsp                   | 00MOA47505020    | ELECT. CAP.                                  | 4.7 UF M 50V RA-2                     |
| PP16           | CN04     |                | nsp                   | 00MOA22803520    | ELECT. CAP.                                  | 2200UF M 35V RA-2                     |
| PP16           | CT09     |                | nsp                   | 00MOA10702520    | ELECT. CAP.                                  | ROS-25V 101M - H4#PE - T2 (100UF 25V) |
| PP16           | ▲ D801   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D802   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D803   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D804   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D805   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D806   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D807   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D808   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D811   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D812   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D813   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ D814   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ DN01   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ DN02   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ DN03   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ DN04   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ DN05   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | DN06     |                | 00MHD31001000         | 00MHD31001000    | ZENER DIODE                                  | 10V ZENER EQUIVALENT                  |
| PP16           | DN07     |                | nsp                   | 00MHD20002000    | DIODE                                        | 1SS133 T-77                           |
| PP16           | ▲ DN11   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ DN12   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ DN13   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | ▲ DN14   |                | 00MHD20003710         | 00MHD20003710    | DIODE                                        | ! SCHOTTKY 1S100 1A 100V              |
| PP16           | DN15     |                | 00MHD31801000         | 00MHD31801000    | ZENER DIODE                                  | 18V ZENER EQUIVALENT                  |
| PP16           | DN16     |                | nsp                   | 00MHD20002000    | DIODE                                        | 1SS133 T-77                           |
| PP16           | ▲ F801   |                | 0520100130040         | 0520100130040    | FUSE                                         | # 021801.6MXP T1.6A L 250V            |
| PP16           | ▲ F811   |                | 0520100110080         | 0520100110080    | FUSE                                         | # 0218001.MXP T1A L 250V              |
| PP16           | ▲ F821   |                | 0520100110080         | 0520100110080    | FUSE                                         | # 0218001.MXP T1A L 250V              |
| PP16           | ▲ F841   |                | 0520100110080         | 0520100110080    | FUSE                                         | # 0218001.MXP T1A L 250V              |
| PP16           | ▲ F851   |                | 0520100110080         | 0520100110080    | FUSE                                         | # 0218001.MXP T1A L 250V              |
| PP16           | ▲ F853   |                | 0520100110080         | 0520100110080    | FUSE                                         | # 0218001.MXP T1A L 250V              |
| PP16           | ▲ FH01   | F N            | nsp                   | 0520100150000    | FUSE                                         | # 02183.15MXP                         |
| PP16           | ▲ FH01   | /K1G           | nsp                   | 0520100130040    | FUSE                                         | # 021801.6MXP T1.6A L 250V            |
| PP16           | ▲ FH01   | /N1G           | 0520100130040         | 0520100130040    | FUSE                                         | # 021801.6MXP T1.6A L 250V            |
| PP16           | ▲ FH01   | /N1S           | 0520100130040         | 0520100130040    | FUSE                                         | # 021801.6MXP T1.6A L 250V            |
| PP16           | ▲ FH01   | /U1G           | nsp                   | 0520100150000    | FUSE                                         | # 02183.15MXP                         |
| PP16           | ▲ GH01   |                | 00MDF77103500         | 00MDF77103500    | FILM CAP.                                    | ! 0.01UF M 250V AC                    |
| PP16           | J804     |                | 00MYJ10005000         | 00MYJ10005000    | JACK                                         | 10R-FJ(10P RECEPTACLE)                |
| PP16           | JE01     |                | 00MYT02011760         | 00MYT02011760    | TERMINAL                                     | P2201-K 1P BNC                        |
| PP16           | JT02     |                | 00MYJ15000220         | 00MYJ15000220    | OPT. CONN.                                   | TOTX177L(F T) TOSLINK TRANSCEIVER     |
| PP16           | LE01     |                | 00MFC90050130         | 00MFC90050130    | FERRITE CORE                                 | BL02RN2-R62T2 FERRITE BEAD            |
| PP16           | LT01     |                | 00MTP41042030         | 00MTP41042030    | TRANSF.                                      | PULSE TRNSF.(TPS247MN-0386AN)         |
| PP16           | LT04     |                | 00MFC90050130         | 00MFC90050130    | FERRITE CORE                                 | BL02RN2-R62T2 FERRITE BEAD            |
| PP16           | ▲ Q801   |                | 00MHC3190532F         | 00MHC3190532F    | IC                                           | ! PQ05RD21 5V 2A                      |
| PP16           | ▲ Q811   |                | 00MHC3891209F         | 00MHC3891209F    | IC                                           | ! NJM7812FA +12V                      |
| PP16           | ▲ Q812   |                | 00MHC3890809F         | 00MHC3890809F    | IC                                           | ! +8V 1A REGULATOR NJM7808FA          |
| PP16           | QE01     |                | 00MHC700400U0         | 00MHC700400U0    | IC                                           | MC74HCU04AN                           |
| PP16           | QN01     |                | 00MHT30001000         | 00MHT30001000    | TRS.                                         | C2458 C1740S C3199 ETC.               |
| PP16           | QN02     |                | 00MHT30001000         | 00MHT30001000    | TRS.                                         | C2458 C1740S C3199 ETC.               |
| PP16           | QN03     |                | 00MHT30001000         | 00MHT30001000    | TRS.                                         | C2458 C1740S C3199 ETC.               |
| PP16           | ▲ QN04   |                | 00MHT41415100         | 00MHT41415100    | TRS.                                         | ! TRANSISTOR 2SD1415                  |

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| P.W.B. NAME | POS. NO.                                                                                | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME                                     | DESCRIPTION                  |
|-------------|-----------------------------------------------------------------------------------------|-------------|--------------------|---------------|-----------------------------------------------|------------------------------|
| PP16        | QT01                                                                                    |             | 00MHC700400U0      | 00MHC700400U0 | IC                                            | MC74HCU04AN                  |
| PP16        | R891                                                                                    | F N         | nsp                | 00MGD05000160 | RES.                                          | 0 OHM +- 5% 1/6W             |
| PP16        | R891                                                                                    | /U1G        | nsp                | 00MGD05000160 | RES.                                          | 0 OHM +- 5% 1/6W             |
| PP16        | R892                                                                                    | F N         | nsp                | 00MGD05000160 | RES.                                          | 0 OHM +- 5% 1/6W             |
| PP16        | R892                                                                                    | /U1G        | nsp                | 00MGD05000160 | RES.                                          | 0 OHM +- 5% 1/6W             |
| PP16        | R893                                                                                    | /K1G        | nsp                | 00MGD05000160 | RES.                                          | 0 OHM +- 5% 1/6W             |
| PP16        | R893                                                                                    | /N1G        | nsp                | 00MGD05000160 | RES.                                          | 0 OHM +- 5% 1/6W             |
| PP16        | R893                                                                                    | /N1S        | nsp                | 00MGD05000160 | RES.                                          | 0 OHM +- 5% 1/6W             |
| PP16        | RE01                                                                                    |             | nsp                | 00MGD05750160 | RES.                                          | 75 OHM +- 5% 1/6W            |
| PP16        | RE02                                                                                    |             | nsp                | 00MGD05102160 | RES.                                          | 1K OHM +- 5% 1/6W            |
| PP16        | RE03                                                                                    |             | nsp                | 00MGD05222160 | RES.                                          | 2.2K OHM +- 5% 1/6W          |
| PP16        | RE04                                                                                    |             | nsp                | 00MGD05473160 | RES.                                          | 47K OHM +- 5% 1/6W           |
| PP16        | RE05                                                                                    |             | nsp                | 00MGD05470160 | RES.                                          | 47 OHM +- 5% 1/6W            |
| PP16        | RE06                                                                                    |             | nsp                | 00MGD05104160 | RES.                                          | 100K OHM +- 5% 1/6W          |
| PP16        | RN01                                                                                    |             | nsp                | 00MGD05122160 | RES.                                          | 1.2K OHM +- 5% 1/6W          |
| PP16        | RN02                                                                                    |             | nsp                | 00MGD05153160 | RES.                                          | 15K OHM +- 5% 1/6W           |
| PP16        | RN03                                                                                    |             | nsp                | 00MGD05225160 | RES.                                          | 2.2M OHM +- 5% 1/6W          |
| PP16        | RN04                                                                                    |             | nsp                | 00MGD05473160 | RES.                                          | 47K OHM +- 5% 1/6W           |
| PP16        | RN05                                                                                    |             | nsp                | 00MGD05103160 | RES.                                          | 10K OHM +- 5% 1/6W           |
| PP16        | RN06                                                                                    |             | nsp                | 00MGD05103160 | RES.                                          | 10K OHM +- 5% 1/6W           |
| PP16        | RN08                                                                                    |             | nsp                | 00MGD05272160 | RES.                                          | 2.7K OHM +- 5% 1/6W          |
| PP16        | RT01                                                                                    |             | nsp                | 00MGD05122160 | RES.                                          | 1.2K OHM +- 5% 1/6W          |
| PP16        | RT02                                                                                    |             | nsp                | 00MGD05104160 | RES.                                          | 100K OHM +- 5% 1/6W          |
| PP16        | RT03                                                                                    |             | nsp                | 00MGD05220160 | RES.                                          | 22 OHM +- 5% 1/6W            |
| PP16        | RT04                                                                                    |             | nsp                | 00MGD05330160 | RES.                                          | 33 OHM +- 5% 1/6W            |
| PP16        | RT05                                                                                    |             | nsp                | 00MGD05750160 | RES.                                          | 75 OHM +- 5% 1/6W            |
| PP16        | RT07                                                                                    |             | nsp                | 00MGD05101160 | RES.                                          | 100 OHM +- 5% 1/6W           |
| PP16        | RT08                                                                                    |             | nsp                | 00MGD05000160 | RES.                                          | 0 OHM +- 5% 1/6W             |
| PP16        | RT09                                                                                    |             | nsp                | 00MGD05000160 | RES.                                          | 0 OHM +- 5% 1/6W             |
| PP16        |  SH01 |             | 00MSP01011990      | 00MSP01011990 | PUSH SW                                       | ! SDDL1 POWER SWITCH TV-3    |
|             |                                                                                         |             |                    |               | <b>FRONT1(RIGHT) PWB PY16 (00MWI32AK202-)</b> |                              |
| PY16        | CY04                                                                                    |             | 00MEY47600620      | 00MEY47600620 | ELECT. CAP.                                   | 47UF/6.3V                    |
| PY16        | CY15                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY31                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY32                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY41                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY42                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY61                                                                                    |             | 00MEY10601620      | 00MEY10601620 | ELECT. CAP.                                   | 10UF/ 16V                    |
| PY16        | CY62                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY63                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY64                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY65                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY67                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | CY68                                                                                    |             | nsp                | 00MDK98104200 | CER. CAP.                                     | GRM39F104Z16 0.1UF           |
| PY16        | DY32                                                                                    |             | 00MHI10046080      | 00MHI10046080 | L.E.D.                                        | BLUE LED SELU2E10C-P-E/F 3   |
| PY16        | LY01                                                                                    |             | 00MFC90020110      | 00MFC90020110 | FERRITE CORE                                  | BLM11B601S CHIP FERRITE      |
| PY16        | QY08                                                                                    |             | 00MBA20035210      | 00MBA20035210 | TRS.                                          | DTC114EU                     |
| PY16        | QY09                                                                                    |             | 00MHX300012A0      | 00MHX300012A0 | CHIP TRS.                                     | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PY16        | QY10                                                                                    |             | 00MHX300012A0      | 00MHX300012A0 | CHIP TRS.                                     | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PY16        | QY41                                                                                    |             | 00MHX300012A0      | 00MHX300012A0 | CHIP TRS.                                     | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PY16        | QY61                                                                                    |             | 00MHS27AKM00F      | 00MHS27AKM00F | ONE TIME PROM                                 | R5F21124FP                   |
| PY16        | QY62                                                                                    |             | 00MHC10224210      | 00MHC10224210 | IC                                            | BD4742G RESET IC 4.2V        |
| PY16        | QY66                                                                                    |             | 00MBA20079210      | 00MBA20079210 | TRS.                                          | UMH10N                       |
| PY16        | QY67                                                                                    |             | 00MBA20079210      | 00MBA20079210 | TRS.                                          | UMH10N                       |
| PY16        | QY68                                                                                    |             | 00MBA20035210      | 00MBA20035210 | TRS.                                          | DTC114EU                     |
| PY16        | RY03                                                                                    |             | nsp                | 00MNN05151610 | CHIP RES.                                     | 150 OHM +- 5% 1/16W          |
| PY16        | RY04                                                                                    |             | nsp                | 00MNN05181610 | CHIP RES.                                     | 180 OHM +- 5% 1/16W          |
| PY16        | RY05                                                                                    |             | nsp                | 00MNN05271610 | CHIP RES.                                     | 270 OHM +- 5% 1/16W          |
| PY16        | RY06                                                                                    |             | nsp                | 00MNN05151610 | CHIP RES.                                     | 150 OHM +- 5% 1/16W          |
| PY16        | RY34                                                                                    |             | nsp                | 00MNN05103610 | CHIP RES.                                     | 10K OHM +- 5% 1/16W          |
| PY16        | RY37                                                                                    |             | nsp                | 00MNN05222610 | CHIP RES.                                     | 2.2K OHM +- 5% 1/16W         |
| PY16        | RY38                                                                                    |             | nsp                | 00MNN05681610 | CHIP RES.                                     | 680 OHM +- 5% 1/16W          |
| PY16        | RY39                                                                                    |             | nsp                | 00MNN05102610 | CHIP RES.                                     | 1K OHM +- 5% 1/16W           |
| PY16        | RY40                                                                                    |             | nsp                | 00MNN05561610 | CHIP RES.                                     | 560 OHM +- 5% 1/16W          |
| PY16        | RY41                                                                                    |             | nsp                | 00MNN05681610 | CHIP RES.                                     | 680 OHM +- 5% 1/16W          |
| PY16        | RY42                                                                                    |             | nsp                | 00MNN05182610 | CHIP RES.                                     | 1.8K OHM +- 5% 1/16W         |
| PY16        | RY43                                                                                    |             | nsp                | 00MNN05102610 | CHIP RES.                                     | 1K OHM +- 5% 1/16W           |

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME                                      | DESCRIPTION                  |
|----------------|----------|----------------|-----------------------|------------------|------------------------------------------------|------------------------------|
| PY16           | RY44     |                | nsp                   | 00MNN05103610    | CHIP RES.                                      | 10K OHM +- 5% 1/16W          |
| PY16           | RY45     |                | nsp                   | 00MNN05470610    | CHIP RES.                                      | 47 OHM +- 5% 1/16W           |
| PY16           | RY46     |                | nsp                   | 00MNN05101610    | CHIP RES.                                      | 100 OHM +- 5% 1/16W          |
| PY16           | RY61     |                | nsp                   | 00MNN05333610    | CHIP RES.                                      | 33K OHM +- 5% 1/16W          |
| PY16           | RY62     |                | nsp                   | 00MNN05512610    | CHIP RES.                                      | 5.1K OHM +- 5% 1/16W         |
| PY16           | RY63     |                | nsp                   | 00MNN05333610    | CHIP RES.                                      | 33K OHM +- 5% 1/16W          |
| PY16           | RY64     |                | nsp                   | 00MNN05333610    | CHIP RES.                                      | 33K OHM +- 5% 1/16W          |
| PY16           | RY65     |                | nsp                   | 00MNN05333610    | CHIP RES.                                      | 33K OHM +- 5% 1/16W          |
| PY16           | RY67     |                | nsp                   | 00MNN05473610    | CHIP RES.                                      | 47K OHM +- 5% 1/16W          |
| PY16           | RY68     |                | nsp                   | 00MNN05183610    | CHIP RES.                                      | 18K OHM +- 5% 1/16W          |
| PY16           | RY69     |                | nsp                   | 00MNN05472610    | CHIP RES.                                      | 4.7K OHM +- 5% 1/16W         |
| PY16           | RY70     |                | nsp                   | 00MNN05822610    | CHIP RES.                                      | 8.2K OHM +- 5% 1/16W         |
| PY16           | RY71     |                | nsp                   | 00MNN05223610    | CHIP RES.                                      | 22K OHM +- 5% 1/16W          |
| PY16           | RY72     |                | nsp                   | 00MNN05223610    | CHIP RES.                                      | 22K OHM +- 5% 1/16W          |
| PY16           | RY73     |                | nsp                   | 00MNN05333610    | CHIP RES.                                      | 33K OHM +- 5% 1/16W          |
| PY16           | SY01     |                | 00MSP01012030         | 00MSP01012030    | PUSH SW                                        | SKHVB 260GF RED              |
| PY16           | SY02     |                | 00MSP01012030         | 00MSP01012030    | PUSH SW                                        | SKHVB 260GF RED              |
| PY16           | SY03     |                | 00MSP01012030         | 00MSP01012030    | PUSH SW                                        | SKHVB 260GF RED              |
| PY16           | XY61     |                | 00MFQ01605120         | 00MFQ01605120    | CER. VIB.                                      | CSTCE16MOV53-R0              |
|                |          |                |                       |                  | <b>FRONT2(CENTER) PWB PY26 (00MWG32AK102-)</b> |                              |
| PY26           | CY01     |                | nsp                   | 00MDK98104200    | CER. CAP.                                      | GRM39F104Z16 0.1UF           |
| PY26           | CY02     |                | 00MEY22505020         | 00MEY22505020    | ELECT. CAP.                                    | 2.2UF/ 50V                   |
| PY26           | CY03     |                | nsp                   | 00MDK98104200    | CER. CAP.                                      | GRM39F104Z16 0.1UF           |
| PY26           | CY05     |                | nsp                   | 00MDK98474200    | CER. CAP.                                      | GRM39F474Z16PT 0.47UF F 16V  |
| PY26           | CY06     |                | nsp                   | 00MDK96471300    | CER. CAP.                                      | 470PF (GR39)                 |
| PY26           | CY07     |                | 00MEY22505020         | 00MEY22505020    | ELECT. CAP.                                    | 2.2UF/ 50V                   |
| PY26           | CY08     |                | nsp                   | 00MDK98474200    | CER. CAP.                                      | GRM39F474Z16PT 0.47UF F 16V  |
| PY26           | CY09     |                | nsp                   | 00MDK98474200    | CER. CAP.                                      | GRM39F474Z16PT 0.47UF F 16V  |
| PY26           | CY10     |                | nsp                   | 00MDK98474200    | CER. CAP.                                      | GRM39F474Z16PT 0.47UF F 16V  |
| PY26           | CY11     |                | nsp                   | 00MDK98474200    | CER. CAP.                                      | GRM39F474Z16PT 0.47UF F 16V  |
| PY26           | CY12     |                | nsp                   | 00MDK98474200    | CER. CAP.                                      | GRM39F474Z16PT 0.47UF F 16V  |
| PY26           | CY13     |                | nsp                   | 00MDK98104200    | CER. CAP.                                      | GRM39F104Z16 0.1UF           |
| PY26           | CY14     |                | 00MEY10601620         | 00MEY10601620    | ELECT. CAP.                                    | 10UF/ 16V                    |
| PY26           | CY16     |                | nsp                   | 00MDK96102300    | CER. CAP.                                      | 1000 PF +- 10 % B 50V GR36   |
| PY26           | CY17     |                | nsp                   | 00MDK96102300    | CER. CAP.                                      | 1000 PF +- 10 % B 50V GR36   |
| PY26           | CY18     |                | nsp                   | 00MDK96102300    | CER. CAP.                                      | 1000 PF +- 10 % B 50V GR36   |
| PY26           | CY19     |                | nsp                   | 00MDK96102300    | CER. CAP.                                      | 1000 PF +- 10 % B 50V GR36   |
| PY26           | CY20     |                | nsp                   | 00MDK98104200    | CER. CAP.                                      | GRM39F104Z16 0.1UF           |
| PY26           | CY21     |                | 00MEY47600620         | 00MEY47600620    | ELECT. CAP.                                    | 47UF/6.3V                    |
| PY26           | CY22     |                | nsp                   | 00MDK96471300    | CER. CAP.                                      | 470PF (GR39)                 |
| PY26           | CY43     |                | nsp                   | 00MDK98104200    | CER. CAP.                                      | GRM39F104Z16 0.1UF           |
| PY26           | CY44     |                | nsp                   | 00MDK98104200    | CER. CAP.                                      | GRM39F104Z16 0.1UF           |
| PY26           | DY11     |                | 00MHZ30751000         | 00MHZ30751000    | CHIP DIODE                                     | 7.5V ZENER MA8075-M UDPS7.5B |
| PY26           | DY27     |                | 00MHI10046080         | 00MHI10046080    | L.E.D.                                         | BLUE LED SELU2E10C-P-E/F 3   |
| PY26           | DY28     |                | 00MHI10046080         | 00MHI10046080    | L.E.D.                                         | BLUE LED SELU2E10C-P-E/F 3   |
| PY26           | LY02     |                | 00MFC90020110         | 00MFC90020110    | FERRITE CORE                                   | BLM11B601S CHIP FERRITE      |
| PY26           | LY03     |                | 00MFC90020110         | 00MFC90020110    | FERRITE CORE                                   | BLM11B601S CHIP FERRITE      |
| PY26           | QY01     |                | 00MHC98203090         | 00MHC98203090    | IC                                             | NJU7222U33-TE1 3.3V REG.     |
| PY26           | QY02     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS.                                      | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PY26           | QY07     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS.                                      | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PY26           | QY11     |                | 00MBA20079210         | 00MBA20079210    | TRS.                                           | UMH10N                       |
| PY26           | QY12     |                | 00MBA20079210         | 00MBA20079210    | TRS.                                           | UMH10N                       |
| PY26           | QY13     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS.                                      | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PY26           | QY14     |                | 00MHX300012A0         | 00MHX300012A0    | CHIP TRS.                                      | 2SC4081 (Q R) 2SC4116 (Y GR) |
| PY26           | RY08     |                | nsp                   | 00MNN05472610    | CHIP RES.                                      | 4.7K OHM +- 5% 1/16W         |
| PY26           | RY09     |                | nsp                   | 00MNN05472610    | CHIP RES.                                      | 4.7K OHM +- 5% 1/16W         |
| PY26           | RY10     |                | nsp                   | 00D2472011971    | CHIP RES.                                      | RM73B--623JT +1608           |
| PY26           | RY11     |                | nsp                   | 00MNN05223610    | CHIP RES.                                      | 22K OHM +- 5% 1/16W          |
| PY26           | RY24     |                | nsp                   | 00MNN05102610    | CHIP RES.                                      | 1K OHM +- 5% 1/16W           |
| PY26           | RY25     |                | nsp                   | 00MNN05101610    | CHIP RES.                                      | 100 OHM +- 5% 1/16W          |
| PY26           | RY28     |                | nsp                   | 00MNN05332610    | CHIP RES.                                      | 3.3K OHM +- 5% 1/16W         |
| PY26           | RY29     |                | nsp                   | 00MNN05332610    | CHIP RES.                                      | 3.3K OHM +- 5% 1/16W         |
| PY26           | RY30     |                | nsp                   | 00MNN05332610    | CHIP RES.                                      | 3.3K OHM +- 5% 1/16W         |
| PY26           | RY31     |                | nsp                   | 00MNN05472610    | CHIP RES.                                      | 4.7K OHM +- 5% 1/16W         |
| PY26           | RY32     |                | nsp                   | 00MNN05272610    | CHIP RES.                                      | 2.7K OHM +- 5% 1/16W         |
| PY26           | RY33     |                | nsp                   | 00MNN05272610    | CHIP RES.                                      | 2.7K OHM +- 5% 1/16W         |
| PY26           | RY35     |                | nsp                   | 00MNN05332610    | CHIP RES.                                      | 3.3K OHM +- 5% 1/16W         |

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

| P.W.B. NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME                                    | DESCRIPTION                |
|-------------|----------|-------------|--------------------|---------------|----------------------------------------------|----------------------------|
| PY26        | RY36     |             | nsp                | 00MNN05102610 | CHIP RES.                                    | 1K OHM +- 5% 1/16W         |
| PY26        | RY51     |             | nsp                | 00MNN05472610 | CHIP RES.                                    | 4.7K OHM +- 5% 1/16W       |
| PY26        | RY52     |             | nsp                | 00MNN05272610 | CHIP RES.                                    | 2.7K OHM +- 5% 1/16W       |
| PY26        | RY53     |             | nsp                | 00MNN05272610 | CHIP RES.                                    | 2.7K OHM +- 5% 1/16W       |
| PY26        | RY56     |             | nsp                | 00MNN05103610 | CHIP RES.                                    | 10K OHM +- 5% 1/16W        |
| PY26        | RY57     |             | nsp                | 00MNN05103610 | CHIP RES.                                    | 10K OHM +- 5% 1/16W        |
| PY26        | SY04     |             | 00MSP01012030      | 00MSP01012030 | PUSH SW                                      | SKHVBF 260GF RED           |
| PY26        | SY08     |             | 00MSP01012030      | 00MSP01012030 | PUSH SW                                      | SKHVBF 260GF RED           |
| PY26        | SY09     |             | 00MSP01012030      | 00MSP01012030 | PUSH SW                                      | SKHVBF 260GF RED           |
| PY26        | ZF01     |             | 00MHW10008210      | 00MHW10008210 | PHOTO UNIT                                   | RPM6936-H4                 |
|             |          |             |                    |               | <b>FRONT3(LEFT) PWB PY36 (00MWI32AK203-)</b> |                            |
| PY36        | CY27     |             | nsp                | 00MDK98104200 | CER. CAP.                                    | GRM39F104Z16 0.1UF         |
| PY36        | DY31     |             | 00MHI10046080      | 00MHI10046080 | L.E.D.                                       | BLUE LED SELU2E10C-P-E/F 3 |
| PY36        | RY02     |             | nsp                | 00MNN05331610 | CHIP RES.                                    | 330 OHM +- 5% 1/16W        |
| PY36        | RY07     |             | nsp                | 00MNN05331610 | CHIP RES.                                    | 330 OHM +- 5% 1/16W        |
| PY36        | RY54     |             | nsp                | 00MNN05103610 | CHIP RES.                                    | 10K OHM +- 5% 1/16W        |
| PY36        | SY05     |             | 00MSP01012030      | 00MSP01012030 | PUSH SW                                      | SKHVBF 260GF RED           |
| PY36        | SY06     |             | 00MSP01012030      | 00MSP01012030 | PUSH SW                                      | SKHVBF 260GF RED           |
| PY36        | SY07     |             | 00MSP01012030      | 00MSP01012030 | PUSH SW                                      | SKHVBF 260GF RED           |
|             |          |             |                    |               | <b>FRONT4(LED) PWB PY46 (00MWG32AK103-)</b>  |                            |
| PY46        | CY23     |             | nsp                | 00MDK98104200 | CER. CAP.                                    | GRM39F104Z16 0.1UF         |
| PY46        | CY24     |             | nsp                | 00MDK98104200 | CER. CAP.                                    | GRM39F104Z16 0.1UF         |
| PY46        | CY25     |             | nsp                | 00MDK98104200 | CER. CAP.                                    | GRM39F104Z16 0.1UF         |
| PY46        | CY26     |             | nsp                | 00MDK98104200 | CER. CAP.                                    | GRM39F104Z16 0.1UF         |
| PY46        | DY23     |             | 00MHI10042080      | 00MHI10042080 | L.E.D.                                       | SECT1E01C-S                |
| PY46        | DY24     |             | 00MHI10042080      | 00MHI10042080 | L.E.D.                                       | SECT1E01C-S                |
| PY46        | DY25     |             | 00MHI10042080      | 00MHI10042080 | L.E.D.                                       | SECT1E01C-S                |
| PY46        | DY26     |             | 00MHI10107210      | 00MHI10107210 | L.E.D.                                       | SML-010VTT86               |
| PY46        | RY47     |             | nsp                | 00MNN05103610 | CHIP RES.                                    | 10K OHM +- 5% 1/16W        |
| PY46        | RY48     |             | nsp                | 00MNN05103610 | CHIP RES.                                    | 10K OHM +- 5% 1/16W        |
| PY46        | RY49     |             | nsp                | 00MNN05103610 | CHIP RES.                                    | 10K OHM +- 5% 1/16W        |

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

## 16. ABOUT REPLACE THE MICROPROCESSOR WITH A NEW ONE

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

| PWB Name | Pos. No. | Description              | After replaced | Remark |
|----------|----------|--------------------------|----------------|--------|
| PA16     | Q102     | XCF01SV020C FOR SA-7S1   | <b>A</b>       |        |
| PA16     | Q114     | AT49BV040B-TU FOR SA-7S1 | <b>A</b>       |        |
| PY16     | QY61     | R5F21124FP               | <b>A</b>       |        |
| 1U-3648B | IC731    | M3062LFGPGP-MZ0723       | <b>B</b>       |        |

After replaced

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

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

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

### マイコン等を交換した場合の対応について

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

| PWB Name | Pos. No. | Description              | 交換時の対応   | 備考 |
|----------|----------|--------------------------|----------|----|
| PA16     | Q102     | XCF01SV020C FOR SA-7S1   | <b>A</b> |    |
| PA16     | Q114     | AT49BV040B-TU FOR SA-7S1 | <b>A</b> |    |
| PY16     | QY61     | R5F21124FP               | <b>A</b> |    |
| 1U-3648B | IC731    | M3062LFGPGP-MZ0723       | <b>B</b> |    |

交換時の対応

**A** : Mask ROM (ソフトウェア書き込み済み) 交換時にソフトウェアの書き込みは必要ありません。

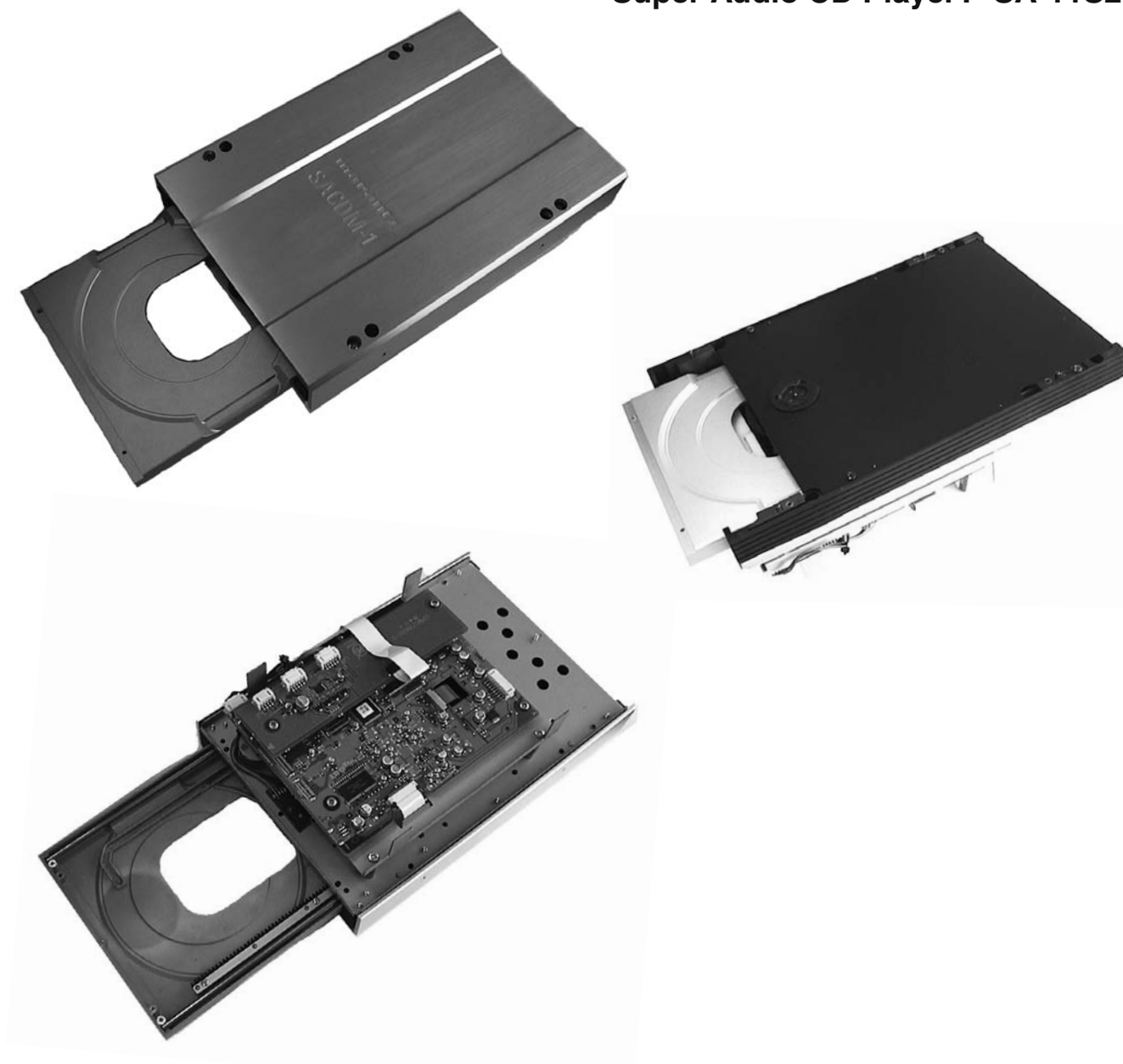
**B** : Flash ROM (ソフトウェア書き込み済み) バージョンアップにより交換時にソフトウェアの書き換えが必要な場合があります。バージョンの確認をしてください。

**C** : 空ROM (Flash ROM) 交換時必ずソフトウェアの書き込みが必要になります。Update、書き込み方法を参照してください。

# Mecha Loader and Mecha Traverse

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## Super Audio CD Player: SA-11S2



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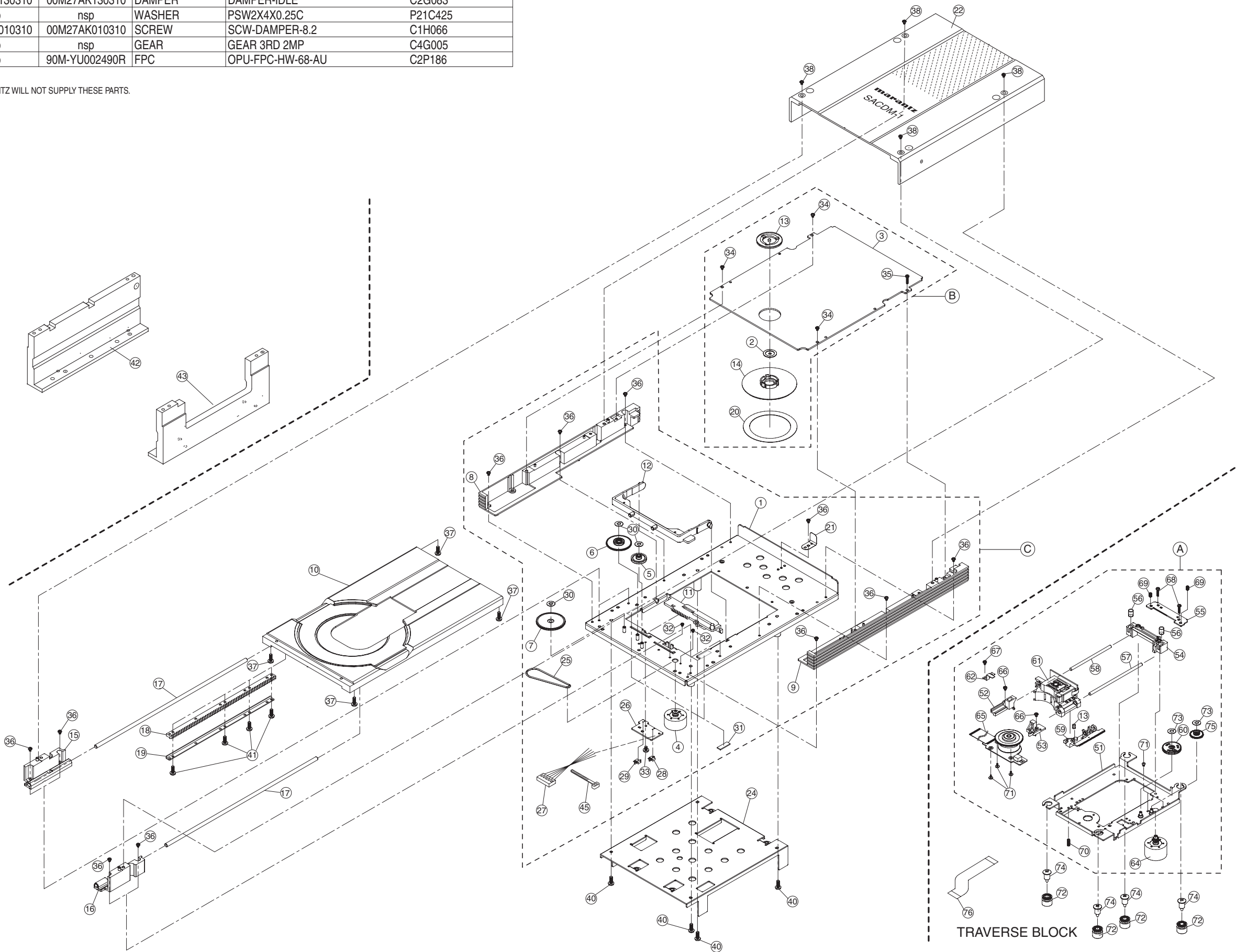
## 1. EXPLODED VIEW AND PARTS LIST

| P.W.B. NAME        | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME | DESCRIPTION             |         |
|--------------------|----------|-------------|--------------------|---------------|-----------|-------------------------|---------|
| LOADER PART LIST   |          |             |                    |               |           |                         |         |
|                    | B        |             | 00M27AK005510      | 00M27AK005510 | CLAMPER   | GUIDE CLAMPER ASSY      | E2A003  |
|                    | C        |             | 00M27AK304510      | 00M27AK304510 | MECHANISM | LOADER ASSY             | E2A004  |
|                    | 1        |             | nsp                | nsp           | CHASSIS   | MAIN-CHASSIS-ASSY       | E2A001  |
|                    | 2        |             | nsp                | nsp           | BRACKET   | CLAMPER-T M12H          | A7P085  |
|                    | 3        |             | nsp                | nsp           | BRACKET   | GUIDE-CLAMP             | E2P003  |
|                    | 4        |             | nsp                | nsp           | MOTOR     | ASSY MOTOR LOAD         | C2A003  |
|                    | 5        |             | nsp                | nsp           | GEAR      | GEAR-LOAD-2HP           | C2G029  |
|                    | 6        |             | nsp                | nsp           | GEAR      | GEAR 2ND LOAD           | B9G030  |
|                    | 7        |             | nsp                | nsp           | GEAR      | GEAR 3RD LOAD           | B9G031  |
|                    | 8        |             | nsp                | nsp           | CHASSIS   | GUIDE-CHASSIS-L         | E2G005  |
|                    | 9        |             | nsp                | nsp           | CHASSIS   | GUIDE-CHASSIS-R         | E2G006  |
|                    | 10       |             | 00M27AK163310      | 00M27AK163310 | TRAY      | TRAY                    | E2G007  |
|                    | 11       |             | nsp                | nsp           | CAM       | SLIDE-CAM-2H            | C1G003  |
|                    | 12       |             | nsp                | nsp           | ARM       | ARM-TRV-CHAS-2H         | C1G004  |
|                    | 13       |             | nsp                | nsp           | CLAMPER   | CLAMPER-H-200T          | D8G005  |
|                    | 14       |             | nsp                | nsp           | CLAMPER   | CLAMPER-LO              | E2G002  |
|                    | 15       |             | 00M27AK051310      | 00M27AK051310 | GUIDE     | SHAFT-GUIDE-L           | E2G003  |
|                    | 16       |             | 00M27AK051320      | 00M27AK051320 | GUIDE     | SHAFT-GUIDE-R           | E2G004  |
|                    | 17       |             | 00M27AK112310      | 00M27AK112310 | SHAFT     | TRAY-SHAFT              | E2H002  |
|                    | 18       |             | 00M27AK058310      | 00M27AK058310 | GEAR      | TRAY-RACK               | E2G001  |
|                    | 19       |             | nsp                | nsp           | BRACKET   | RACK-GUIDE              | E2P001  |
|                    | 20       |             | nsp                | nsp           | BUFFER    | CLAMPER-SHEET           | E2P002  |
|                    | 21       |             | nsp                | nsp           | BRACKET   | SPG-1                   | E2P005  |
|                    | 22       |             | 00M32AK053010      | 00M32AK053010 | COVER     | MECHA LOADER COVER TOP  | E2P018  |
|                    | 24       |             | nsp                | nsp           | BRACKET   | BRACKET                 | E2P006  |
|                    | 25       |             | 00M27AK264310      | 00M27AK264310 | BELT      | BELT LOAD               | B9G015  |
|                    | 26       |             | nsp                | nsp           | PWB ASSY  | PCB-SW-2H               | C1P014  |
|                    | 27       |             | nsp                | nsp           | CORD      | CNW-5P                  | C2G094  |
|                    | 28       |             | 90M-SM000420R      | 90M-SM000420R | SW        | SW ESE22MH21            | S01W204 |
|                    | 29       |             | 90M-SM000430R      | 90M-SM000430R | SW        | SW ESE22MH23            | S01W205 |
|                    | 30       |             | nsp                | nsp           | WASHER    | PSW2.6X6X0.25C          | P26C625 |
|                    | 31       |             | nsp                | nsp           | BUFFER    | RUBBER-CUSHION          | C1G042  |
|                    | 32       |             | nsp                | nsp           | SCREW     | M1.7X2.2 P.H.M.SCREW    | 3BZ22U3 |
|                    | 33       |             | nsp                | nsp           | SCREW     | M2X3 P.H.M.SCREW        | 3CS03U3 |
|                    | 34       |             | nsp                | nsp           | SCREW     | M2.6X6 B.H.M.SCREW      | BDB06K3 |
|                    | 35       |             | nsp                | nsp           | SCREW     | M2.6X6 B.H.M.SCREW      | BDS06U3 |
|                    | 37       |             | nsp                | nsp           | SCREW     | M2.6x5 F.H.TAPT.SCREW   | PDS05W3 |
|                    | 38       |             | nsp                | nsp           | SCREW     | M3x8 B.H.M.SCREW        | BEB08SN |
|                    | 39       |             | nsp                | nsp           | SCREW     | M3x6 B.H.M.SCREW        | BEZ06U3 |
|                    | 40       |             | nsp                | nsp           | SCREW     | M2x6 B.H.TAPT.SCREW     | BCS06U3 |
|                    | 41       |             | nsp                | nsp           | SCREW     | M3-STAD                 | E2H003  |
|                    | 42       |             | nsp                | nsp           | RETAINER  | RETAINER L MECHA BASE   | E2P020  |
|                    | 43       |             | nsp                | nsp           | RETAINER  | RETAINER R MECHA BASE   | E2P021  |
|                    | 45       |             | nsp                | nsp           | CLAMPER   | NILON BAND (80MM)       | M01N122 |
|                    | 46       |             | nsp                | nsp           | CUSHION   | TRAY-CUSHION            | C2G045  |
|                    | 47       |             | nsp                | nsp           | SHEET     | PET-SHEET-0.2           | E2P013  |
|                    | 50       |             | nsp                | nsp           | SHEET     | SHEET-R                 | E2P014  |
| TRAVERSE PART LIST |          |             |                    |               |           |                         |         |
|                    | A        |             | 00M27AK304520      | 00M27AK304520 | MECHANISM | TRAVERSE ASSY           | E2A002  |
|                    | 51       |             | nsp                | nsp           | CHASSIS   | ASSY-CHAS-PU-W          | C2A113  |
|                    | 52       |             | nsp                | nsp           | HOLDER    | HLD-SFT-L-84H           | C2G008  |
|                    | 53       |             | nsp                | nsp           | HOLDER    | HLD-SFT-R-84H           | C2G007  |
|                    | 54       |             | nsp                | nsp           | HOLDER    | BASE TILT-W             | C2G224  |
|                    | 55       |             | nsp                | nsp           | PLATE     | PLATE-TILT-W            | C2P166  |
|                    | 56       |             | nsp                | nsp           | SPRING    | TILT-SPRING             | B7S003  |
|                    | 57       |             | nsp                | nsp           | SHAFT     | RAIL                    | C2H001  |
|                    | 58       |             | nsp                | nsp           | GUIDE     | S-GUIDE- BAR-84H        | C2H002  |
|                    | 59       |             | nsp                | nsp           | GEAR      | RACK-PU-W               | C2G225  |
|                    | 60       |             | nsp                | nsp           | GEAR      | AS GEAR 2ND             | B8A005  |
|                    | 61       |             | nsp                | nsp           | MECHANISM | PICK UP HOP-1200W-B     | C2G226  |
|                    | 62       |             | nsp                | nsp           | SPRING    | SPRING-RAIL-84H         | C2P016  |
|                    | 63       |             | nsp                | nsp           | SPRING    | SPG RACK-84H            | C2S005  |
|                    | 64       |             | nsp                | nsp           | MOTOR     | AS MOTOR FEED-2HP       | C2A023  |
|                    | 65       |             | nsp                | nsp           | MOTOR     | T/T MOTOR ASSY          | C2A019  |
|                    | 66       |             | nsp                | nsp           | SCREW     | M2.6X6 BIND S-TIGHT-CR3 | BDS06U3 |
|                    | 67       |             | nsp                | nsp           | SCREW     | M2.6X4 BIND S-TIGHT-CR3 | BDS04U3 |

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

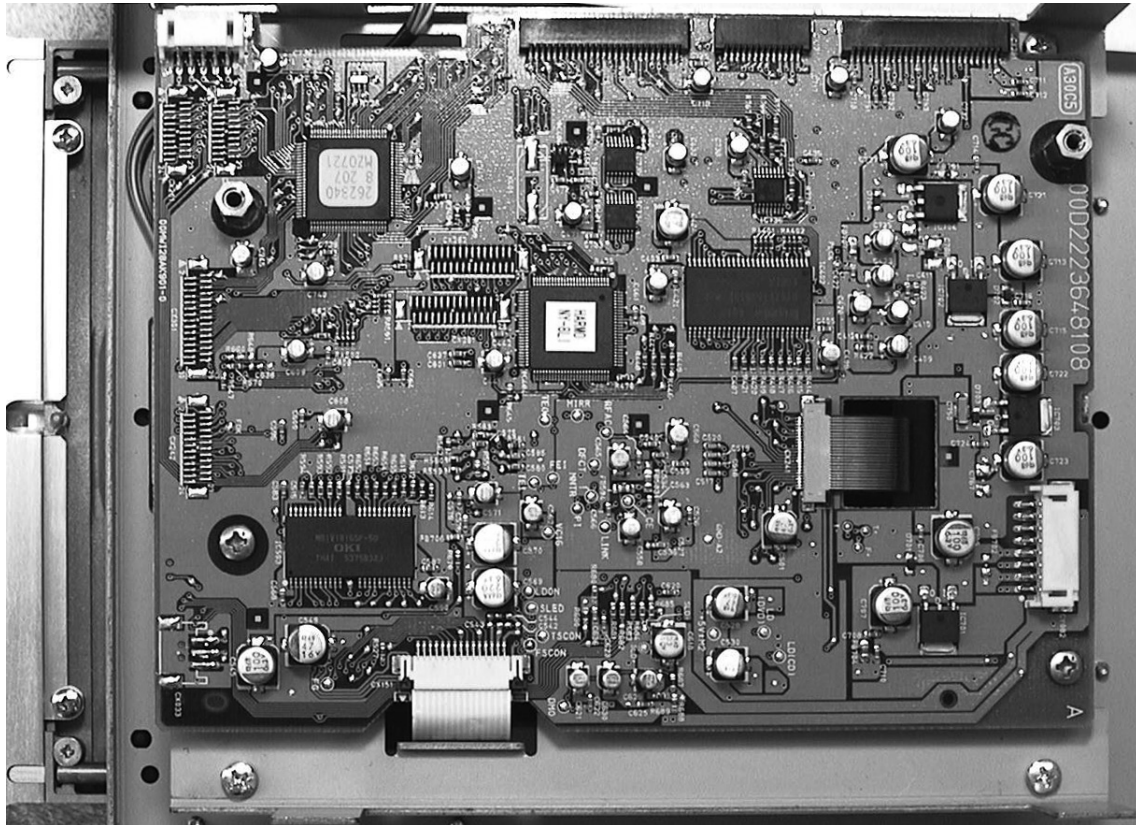
| P.W.B. NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME | DESCRIPTION                      |
|-------------|----------|-------------|--------------------|---------------|-----------|----------------------------------|
|             | 68       |             | nsp                | nsp           | SCREW     | M2.6X15 FLAT S-TIGHT-CR3 PDS15U3 |
|             | 69       |             | nsp                | nsp           | SCREW     | MM3X4 HEXAGONAL HOLE CR3 HEA04K3 |
|             | 70       |             | nsp                | nsp           | SCREW     | M3X8 HEXAGONAL HOLE CR3 HEA08K3  |
|             | 71       |             | nsp                | nsp           | SCREW     | M1.7X2.2 CR3 3BZ22U3             |
|             | 72       |             | 00M27AK130310      | 00M27AK130310 | DAMPER    | DAMPER-IDLE C2G083               |
|             | 73       |             | nsp                | nsp           | WASHER    | PSW2X4X0.25C P21C425             |
|             | 74       |             | 00M27AK010310      | 00M27AK010310 | SCREW     | SCW-DAMPER-8.2 C1H066            |
|             | 75       |             | nsp                | nsp           | GEAR      | GEAR 3RD 2MP C4G005              |
|             | 76       |             | nsp                | 90M-YU002490R | FPC       | OPU-FPC-HW-68-AU C2P186          |

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

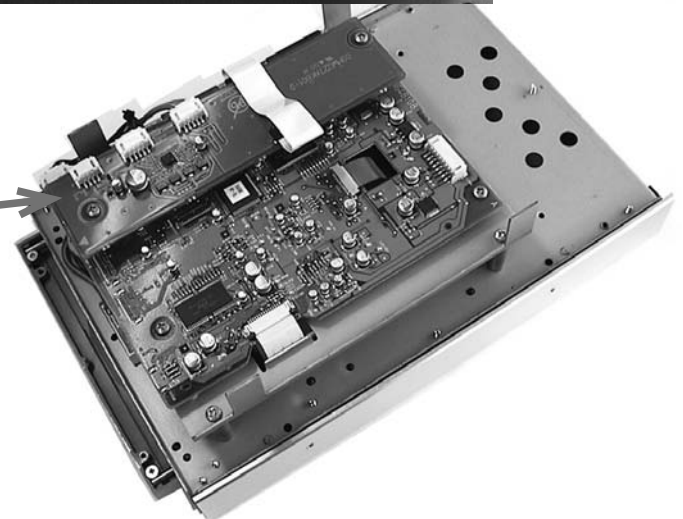


# Super Audio CD PWB Module / TRAY DRIVE PWB

Super Audio CD Player : SA-7S1  
SA-11S2



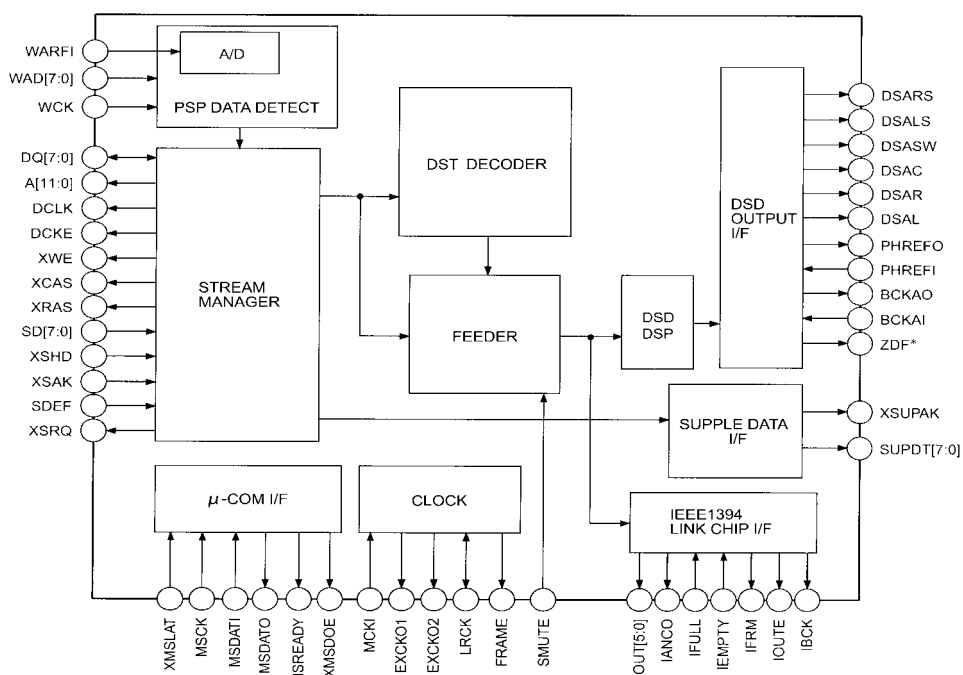
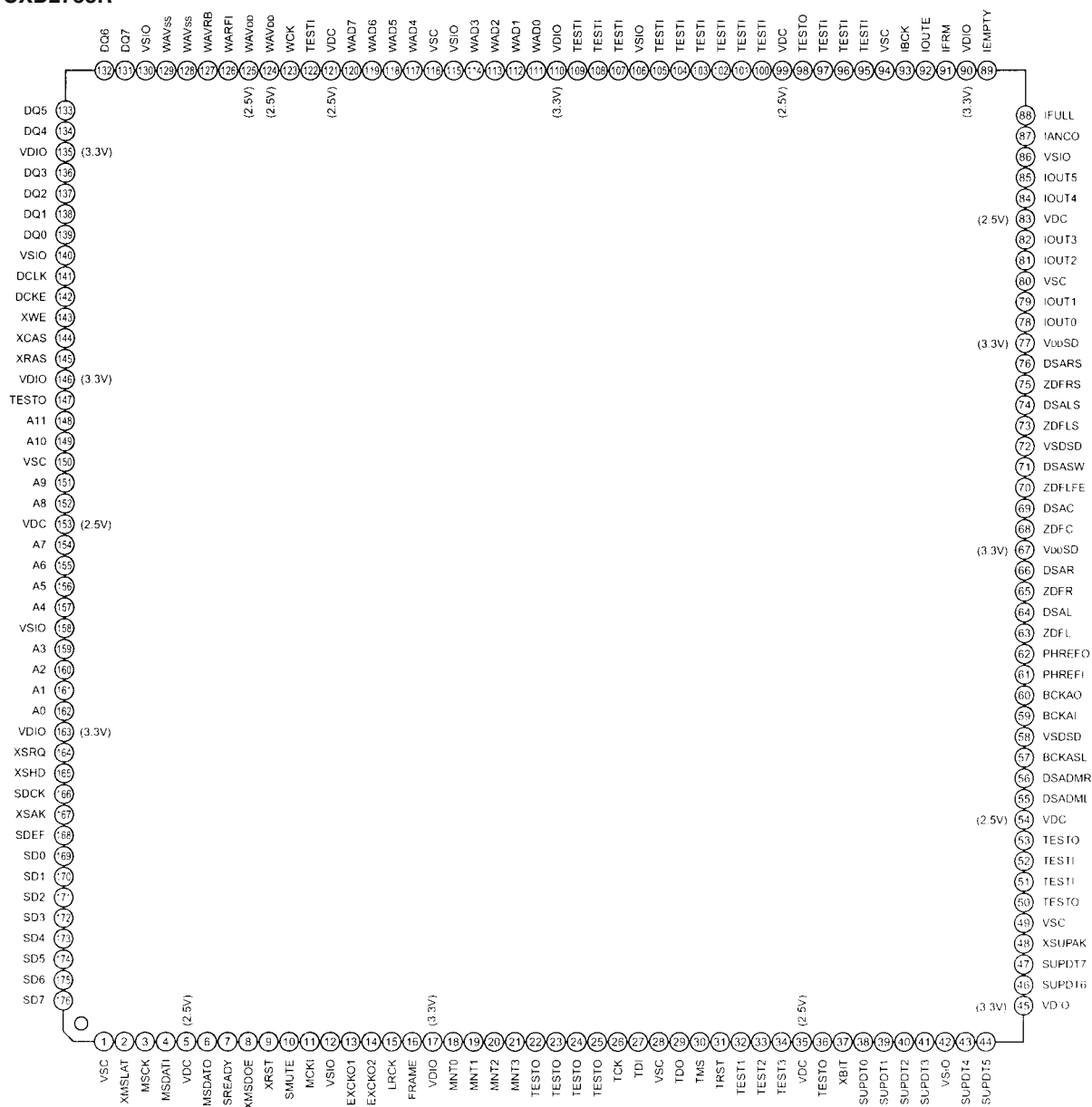
TRAY DRIVE PWB (PM16)



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1. IC DATA
IC401: CXD2753R



**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    | lpd | 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      | lpu | 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      | lpu | Input pin(pull-up) for a Test.(open)                                                                                           |
| 31  | TRST     | lpu | 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**

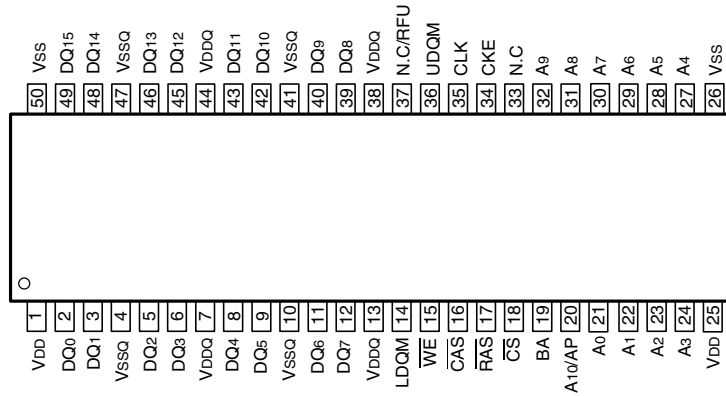
| No. | Pin Name | I/O | Functions                                                                                                                |
|-----|----------|-----|--------------------------------------------------------------------------------------------------------------------------|
| 63  | 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

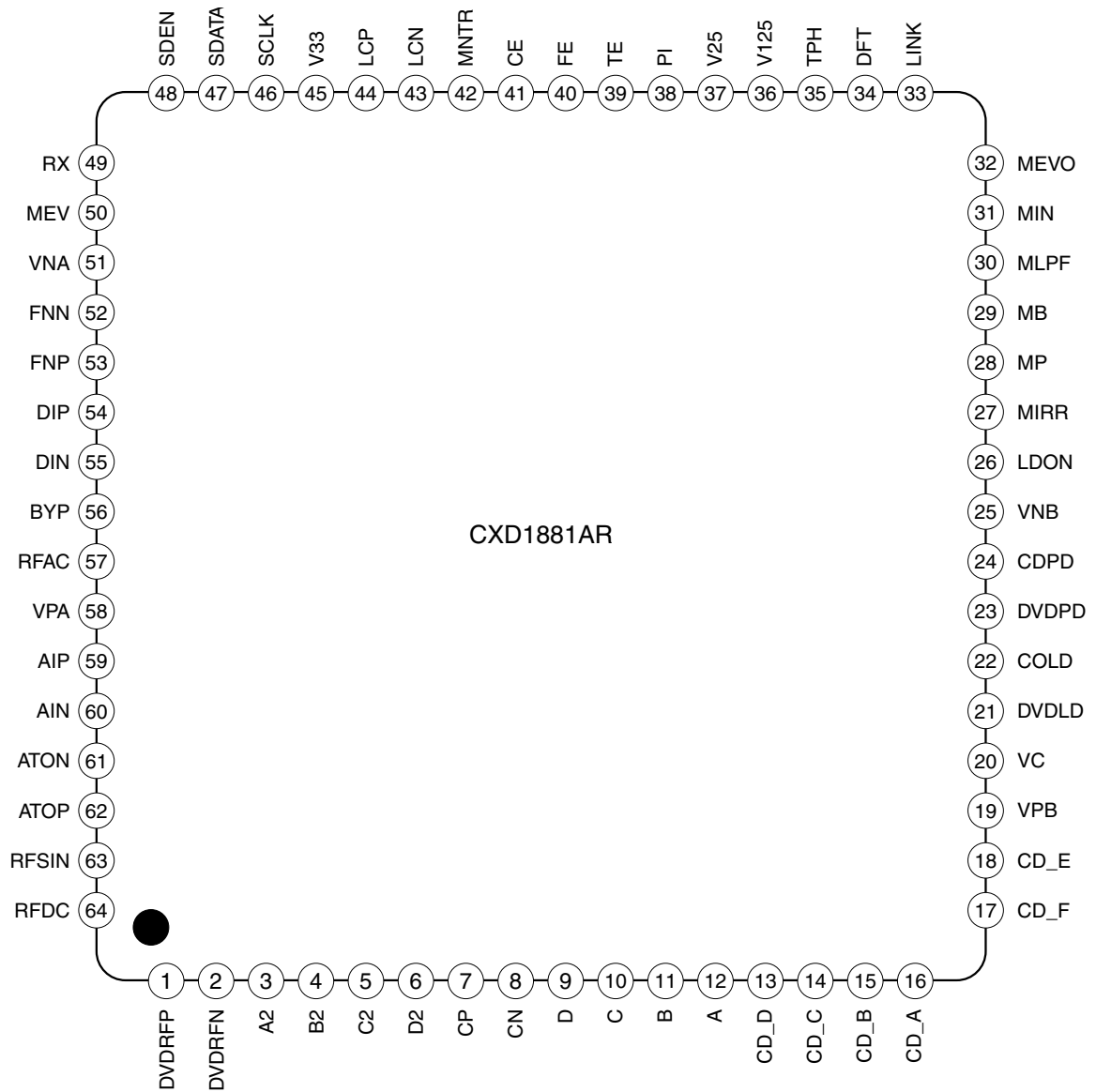
## IC402: 16M SDRAM (EM636165TS-7 etc)

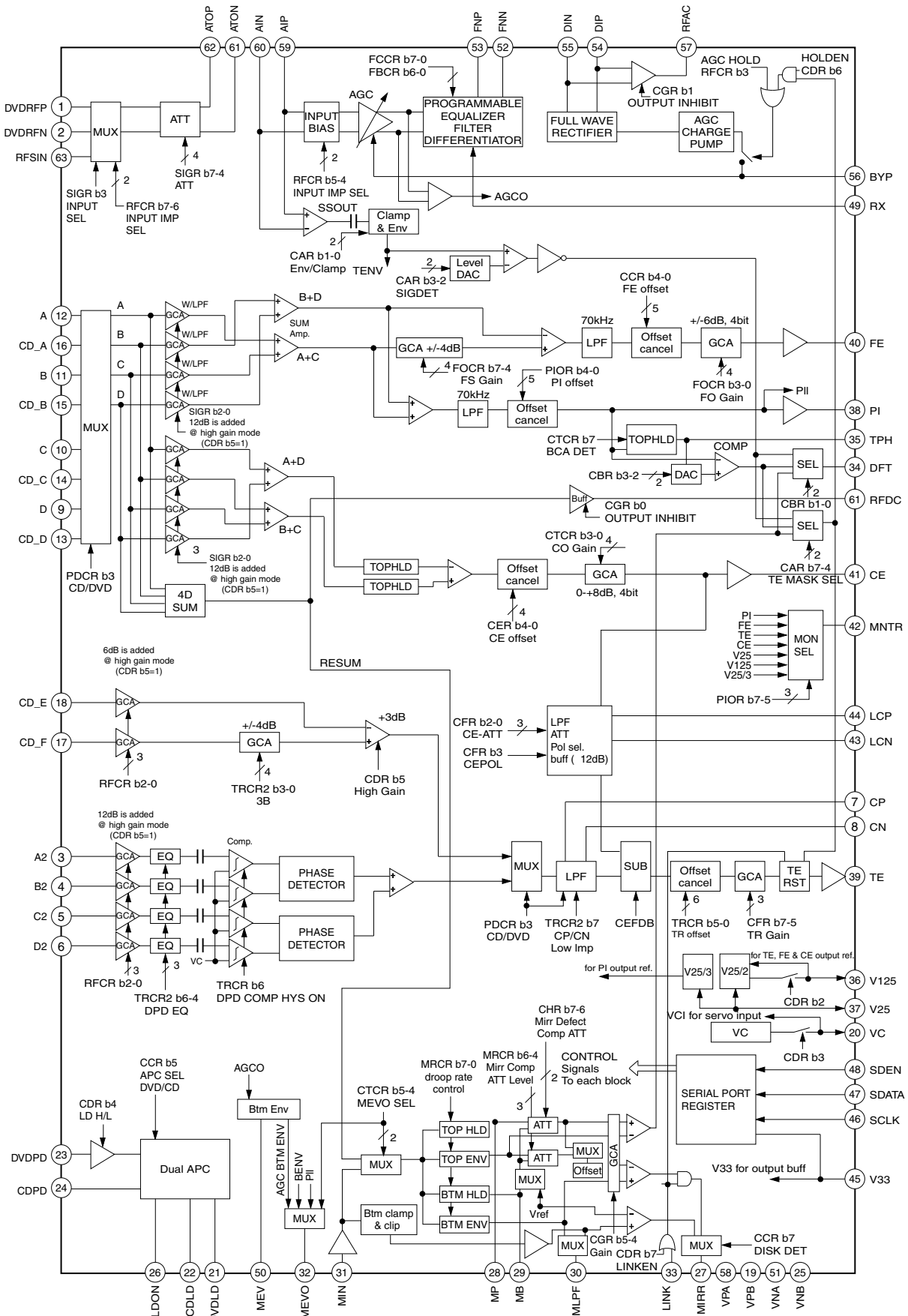


### Terminal Function

| Pin No. | Pin Name | Symbol                   | Function                                                                                         |
|---------|----------|--------------------------|--------------------------------------------------------------------------------------------------|
| 1       | VDD      | Power Supply/Ground      | Power and ground for the input buffer and the core logic                                         |
| 2       | DQ0      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 3       | DQ1      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 4       | VSSQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 5       | DQ2      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 6       | DQ3      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 7       | VDDQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 8       | DQ4      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 9       | DQ5      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 10      | VSSQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 11      | DQ6      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 12      | DQ7      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 13      | VDDQ     | 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      | WE       | Write Enable             | Enables write operation and row precharge                                                        |
| 16      | CAS      | Column Address Strobe    | Latches column address on the positive going edge of the CLK at low                              |
| 17      | RAS      | Row Address Strobe       | Latches row address on the positive going edge of the CLK at low                                 |
| 18      | 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      | A10/AP   | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 21      | A0       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 22      | A1       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 23      | A2       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 24      | A3       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 25      | VDD      | Power Supply/Ground      | Power and ground for the input buffer and the core logic                                         |
| 26      | VSS      | Power Supply/Ground      | Power and ground for the input buffer and the core logic                                         |
| 27      | A4       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 28      | A5       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 29      | A6       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 30      | A7       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 31      | A8       | Address                  | Row/column addresses are multiplexed on the same pin                                             |
| 32      | A9       | 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      | VDDQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 39      | DQ8      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 40      | DQ9      | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 41      | VSSQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 42      | DQ10     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 43      | DQ11     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 44      | VDDQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 45      | DQ12     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 46      | DQ13     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 47      | VSSQ     | Data Output Power/Ground | Isolated power supply and ground for the output buffer                                           |
| 48      | DQ14     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 49      | DQ15     | Data Input/Output        | Data input/output are multiplexed on the same pin                                                |
| 50      | VSS      | Power Supply/Ground      | Power and ground for the input buffer and the core logic                                         |

# 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                 |

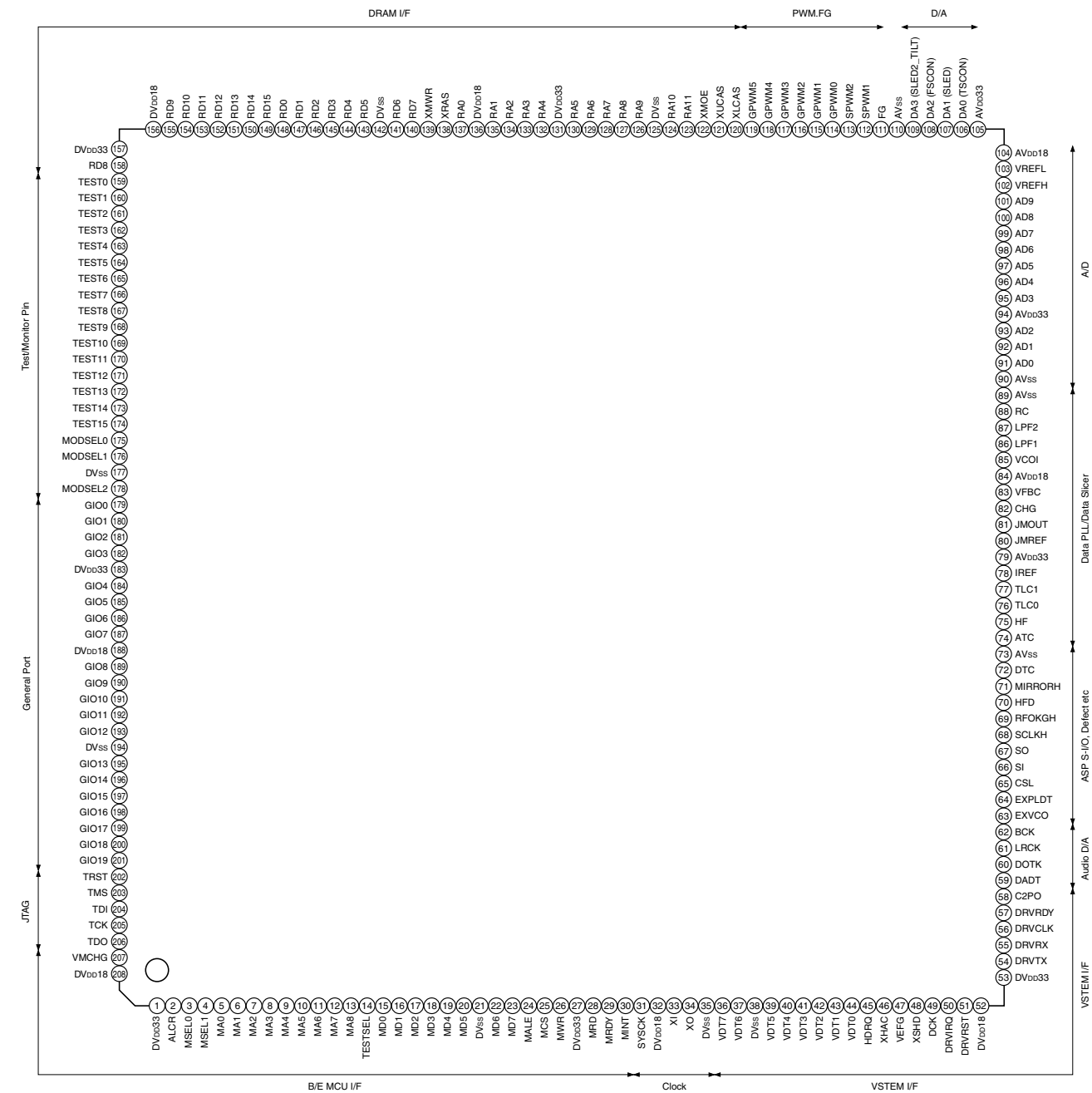
### Analog Pins

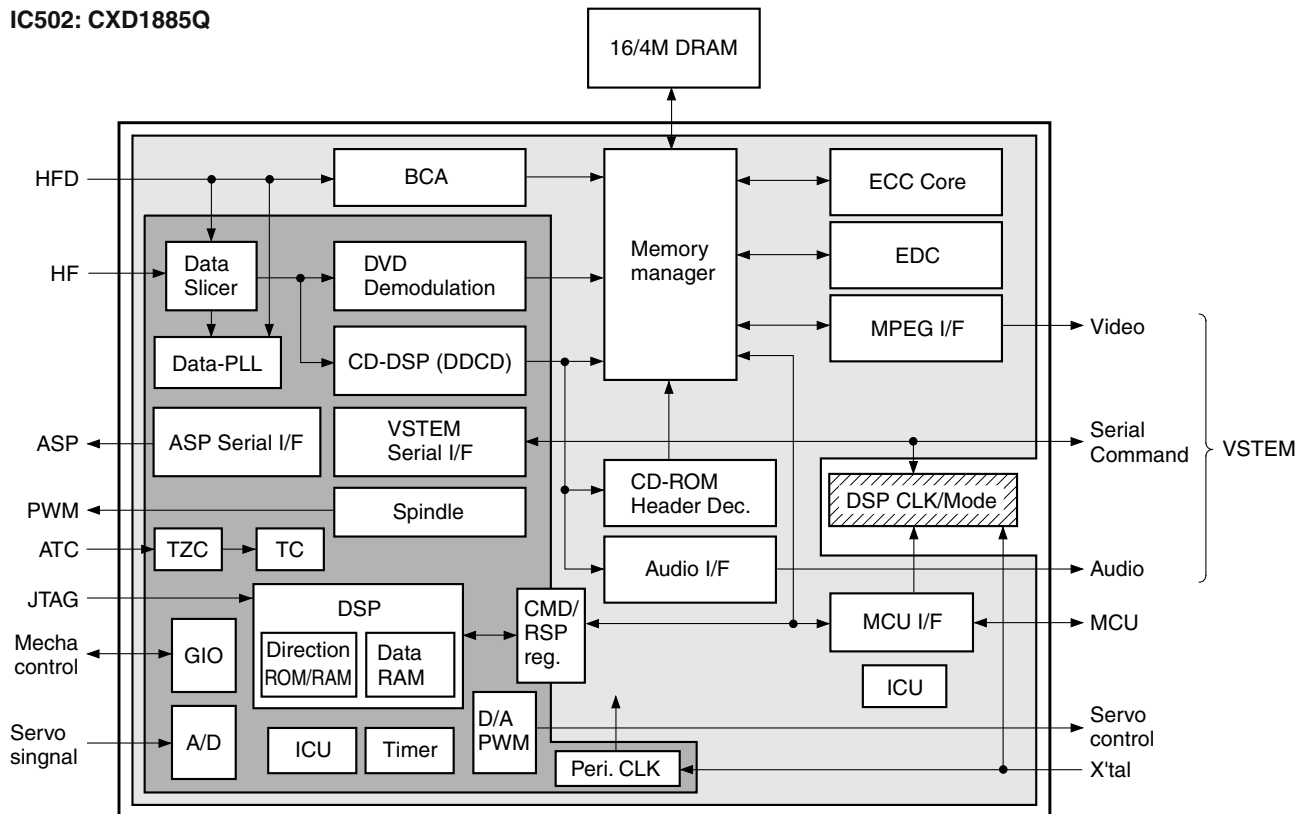
| Name | I/O | Function                                         |
|------|-----|--------------------------------------------------|
| BYP  | -   | RF AGC integration capacitor connecting terminal |
| CP   | -   | Differential phase tracking LPF terminal         |
| CN   | -   | Differential phase tracking 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       |

IC502: CXD1885Q



**IC502: CXD1885Q**


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

| 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  | VTD7          | O   | D   | VSTEM A/V      | MPEG data output 7.                               |    |    |     |
| 37  | VTD6          | O   | D   | VSTEM A/V      | MPEG data output 6.                               |    |    |     |

**IC502: CXD1885Q**

| No. | Terminal Name | I/O | A/D | Classification | Function                                                         | PU | PD | SMT |
|-----|---------------|-----|-----|----------------|------------------------------------------------------------------|----|----|-----|
| 38  | DVSS          | P   |     | VDD & GND      | Digital Ground.                                                  |    |    |     |
| 39  | VD5           | O   | D   | VSTEM A/V      | MPEG data output 5.                                              |    |    |     |
| 40  | VD4           | O   | D   | VSTEM A/V      | MPEG data output 4.                                              |    |    |     |
| 41  | VD3           | O   | D   | VSTEM A/V      | MPEG data output 3.                                              |    |    |     |
| 42  | VD2           | O   | D   | VSTEM A/V      | MPEG data output 2.                                              |    |    |     |
| 43  | VD1           | O   | D   | VSTEM A/V      | MPEG data output 1.                                              |    |    |     |
| 44  | VD0           | 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  | DRVIRST       | 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  | DRVIRX        | I   | D   | VSTEM Command  | Reception serial data input from Host.                           |    |    |     |
| 56  | DRVCLK        | I   | D   | VSTEM Command  | Clock input from Host.                                           |    |    | *   |
| 57  | DRVIRDY       | 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.                                                       |    |    |     |

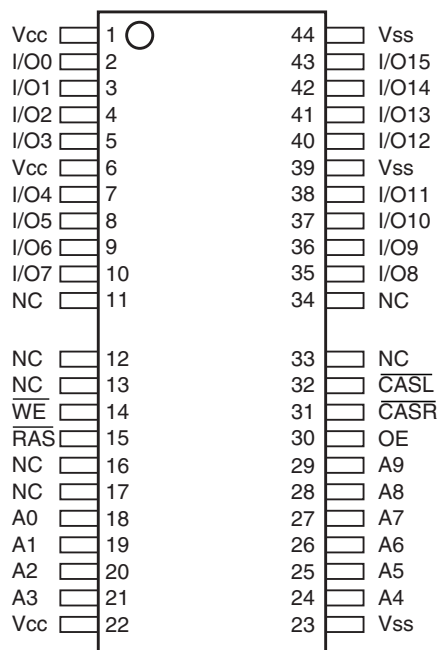
**IC502: CXD1885Q**

| No. | Terminal Name       | I/O | A/D | Classification | Function                                                                                              | PU | PD | SMT |
|-----|---------------------|-----|-----|----------------|-------------------------------------------------------------------------------------------------------|----|----|-----|
| 102 | VREFH               | I/O | A   | ADC            | Max Reference Voltage input for ADC.<br>(Internal Reference Voltage mode, it will be an output state) |    |    |     |
| 103 | VREFL               | I/O | A   | ADC            | Min Reference Voltage input for ADC.<br>(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<br>(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.                                                                                           |    |    |     |

**IC502: CXD1885Q**

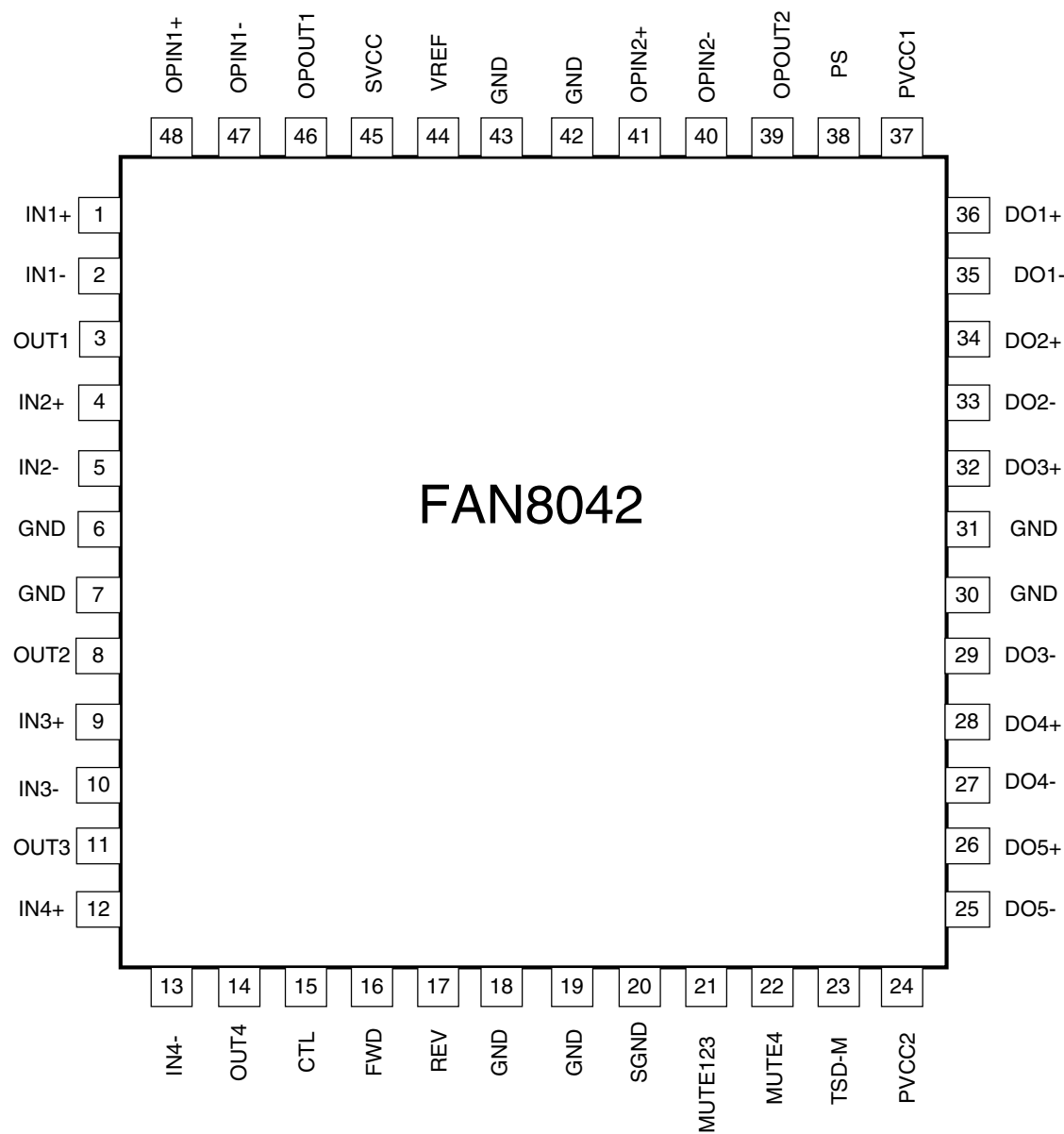
| No. | Terminal Name | I/O | A/D | Classification | Function                                                                                                       | PU | PD | SMT |
|-----|---------------|-----|-----|----------------|----------------------------------------------------------------------------------------------------------------|----|----|-----|
| 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.                                                                  |    |    |     |

# IC503: M11L16161SA-45T



## PIN DESCRIPTIONS

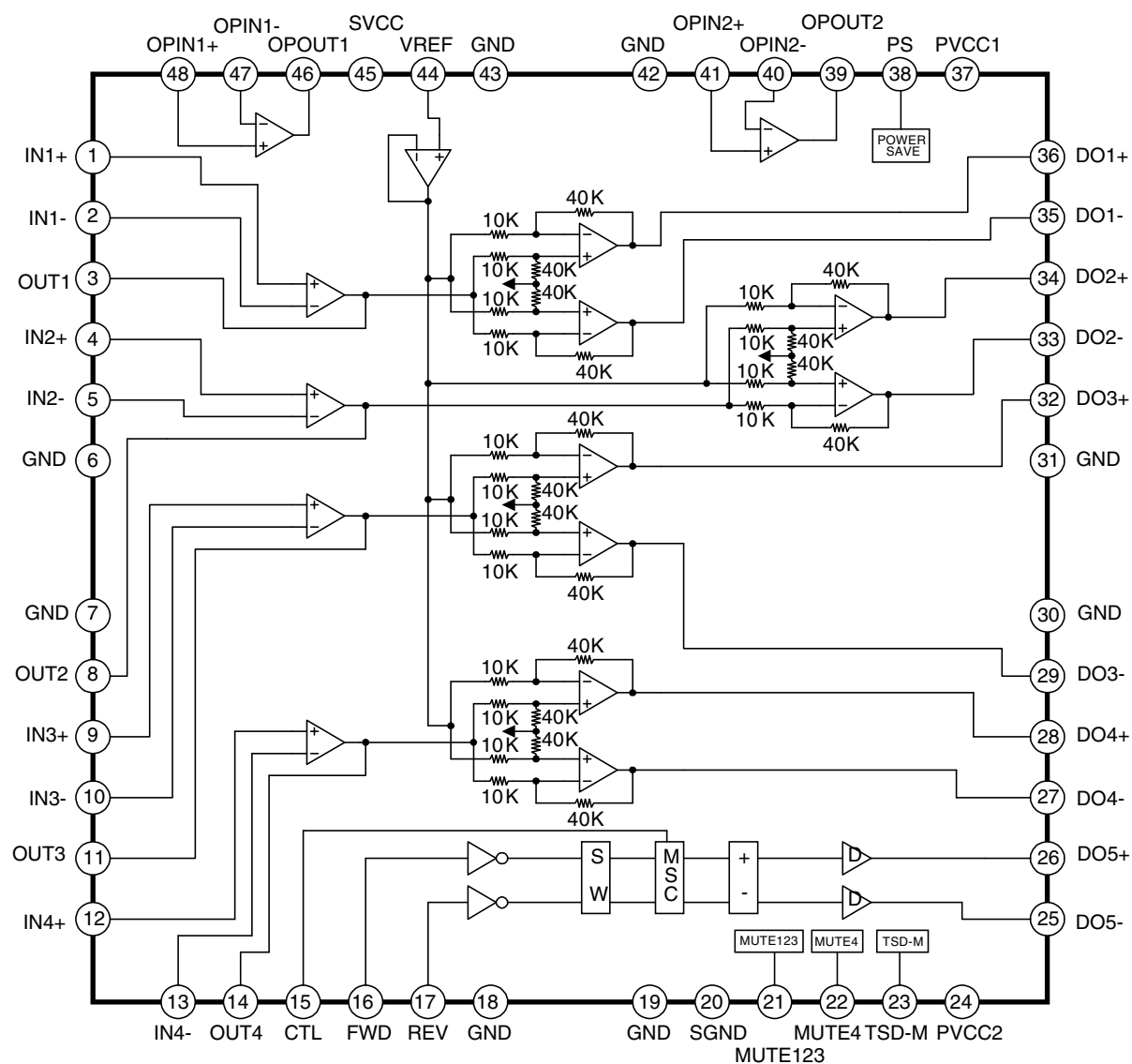
| PIN NO.<br>(SOJ Package) | PIN NAME                 | TYPE         | DESCRIPTION                                                |
|--------------------------|--------------------------|--------------|------------------------------------------------------------|
| 17~20,23~28              | A0~A9                    | Input        | Address Input<br>Row Address:A0~A9<br>Column Address:A0~A9 |
| 14                       | $\overline{\text{RAS}}$  | Input        | Row Address Strobe                                         |
| 30                       | $\overline{\text{CASH}}$ | Input        | Column Address Strobe/Upper Byte Control                   |
| 31                       | $\overline{\text{CASL}}$ | Input        | Column Address Strobe/Lower Byte Control                   |
| 13                       | $\overline{\text{WE}}$   | Input        | Write Enable                                               |
| 29                       | $\overline{\text{OE}}$   | Input        | Output Enable                                              |
| 2~5,7~10,<br>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                                                 |



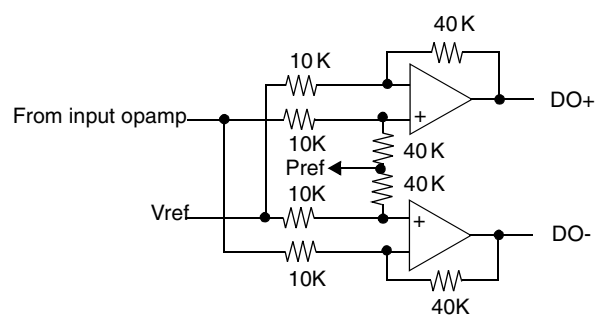
**IC508: FAN8042**

| 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 (+)                 |

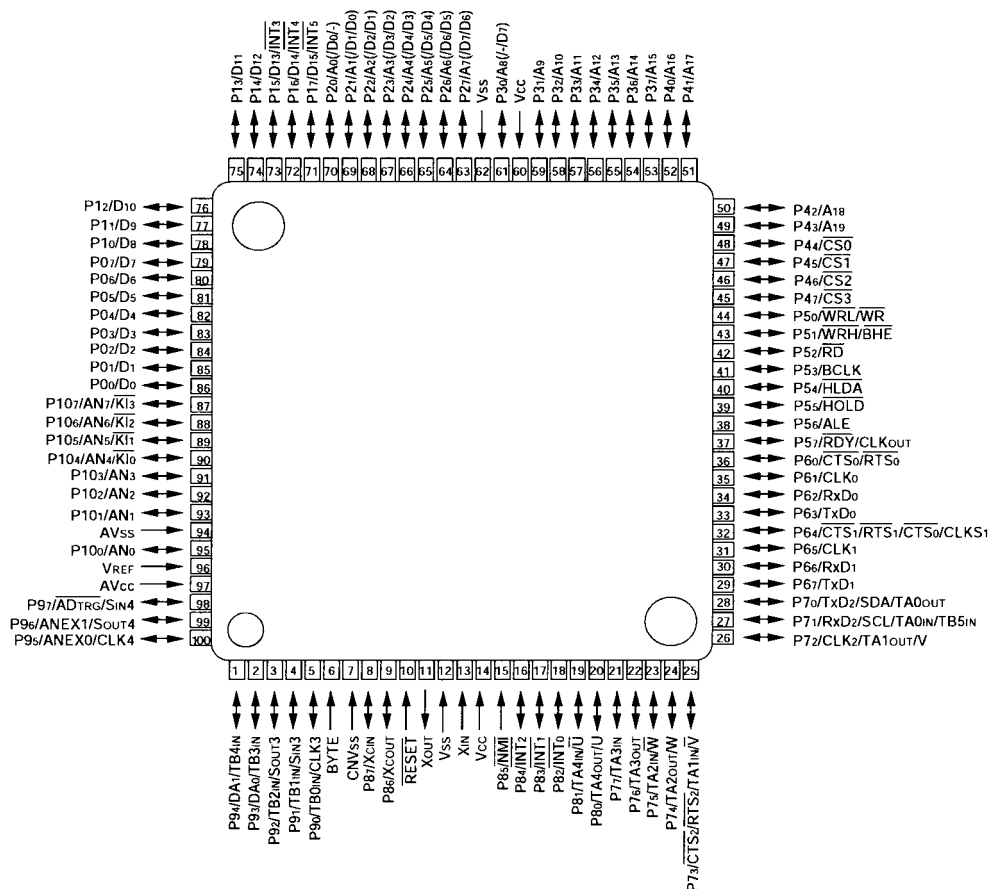
Internal Block Diagram



Note. Detailed circuit of the output power amp



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

**IC731: M3062LFGPGP**


| No. | Pin Port        | Function | I/O | Initial | Mode     | Action                                     | Note    | Description<br>(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                      |         |                                  |

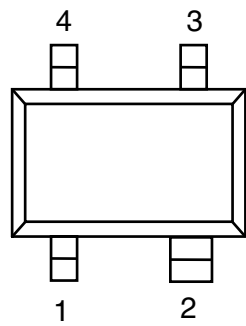
**IC731: M3062LFGPGP**

| No. | Pin Port                    | Function | I/O | Initial | Mode     | Action                                          | Note                  | Description<br>(USER1:H/USER2:H)  |
|-----|-----------------------------|----------|-----|---------|----------|-------------------------------------------------|-----------------------|-----------------------------------|
| 19  | P81/TA4IN/U~                | P81      | O   | L       | FS_SW    | DAC SYSTEM F78CLK SWITCH<br>SIGNAL(384fs/192fs) |                       | CD:Fix to Low<br>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<br>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<br>CXD2753R              | PULL UP               |                                   |
| 29  | P67/TXD1                    | P67      | O   | H       | CD_LED   | FOR CD SELECT (LED L:ON)                        | Flash(w:pull<br>up)   |                                   |
| 30  | P66/RXD1                    | P66      | O   | H       | SA_LED   | FOR SACD SELECT (LED L:ON)                      | Flash(w:pull<br>up)   |                                   |
| 31  | P65/CLK1                    | P65      | O   | H       | PULL_DWN | 5.1K PULL DOWN(NON CONECT)                      | Flash(w:pull<br>down) |                                   |
| 32  | P64/CTS1~/RTS1~/CTS0~/CLKS1 | P64      | O   | H       | DRVRST   | RESET for CXD1885Q(RESET=L)                     | Flash(w:pull<br>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<br>CXD1885Q              |                       |                                   |
| 37  | P57/RDY~/CLKOUT             | RDY~     | I   |         | MRDY     | READY from CXD1885Q                             |                       |                                   |
| 38  | P56/ALE                     | P56      | I   |         | OPEN1    | OPEN(anytime)                                   | Flash (w:pull<br>up)  | OPEN (anytime)                    |
| 39  | P55/HOLD~                   | P55      | I   |         | P_UP2    | 10K PULL UP(NON CONECT)                         | Flash<br>(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<br>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      | ADDRRES LINE                                    |                       |                                   |
| 53  | P37/A15                     | A15      | O   |         | A15      | ADDRRES LINE                                    |                       |                                   |
| 54  | P36/A14                     | A14      | O   |         | A14      | ADDRRES LINE                                    |                       |                                   |
| 55  | P35/A13                     | A13      | O   |         | A13      | ADDRRES LINE                                    |                       |                                   |
| 56  | P34/A12                     | A12      | O   |         | A12      | ADDRRES LINE                                    |                       |                                   |
| 57  | P33/A11                     | A11      | O   |         | A11      | ADDRRES LINE                                    |                       |                                   |
| 58  | P32/A10                     | A10      | O   |         | A10      | ADDRRES LINE                                    |                       |                                   |
| 59  | P31/A9                      | A9       | O   |         | A9       | ADDRRES LINE                                    |                       |                                   |
| 60  | VCC                         | VCC      | -   |         | ---      | 3.3V                                            |                       |                                   |
| 61  | P30/A8(/?/D7)               | A8       | O   |         | A8       | ADDRRES LINE                                    |                       |                                   |
| 62  | VSS                         | VSS      | -   |         | ---      | GND                                             |                       |                                   |
| 63  | P27/A7(/D7/D6)              | A7       | O   |         | A7       | ADDRRES LINE                                    |                       |                                   |
| 64  | P26/A6(/D6/D5)              | A6       | O   |         | A6       | ADDRRES LINE                                    |                       |                                   |
| 65  | P25/A5(/D5/D4)              | A5       | O   |         | A5       | ADDRRES LINE                                    |                       |                                   |
| 66  | P24/A4(/D4/D3)              | A4       | O   |         | A4       | ADDRRES LINE                                    |                       |                                   |
| 67  | P23/A3(/D3/D2)              | A3       | O   |         | A3       | ADDRRES LINE                                    |                       |                                   |
| 68  | P22/A2(/D2/D1)              | A2       | O   |         | A2       | ADDRRES LINE                                    |                       |                                   |
| 69  | P21/A1(/D1/D0)              | A1       | O   |         | A1       | ADDRRES LINE                                    |                       |                                   |

**IC731: M3062LFGPGP**

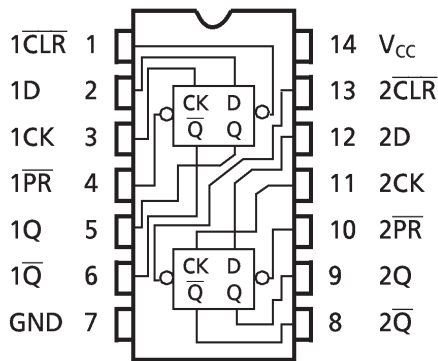
| No. | Pin Port        | Function | I/O | Initial | Mode   | Action                                          | Note                     | Description<br>(USER1:H/USER2:H)                                                                                                       |
|-----|-----------------|----------|-----|---------|--------|-------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 70  | P20/A0(/D0/?)   | A0       | O   |         | A0     | ADDRRES 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<br>Ma:DISPLAY LED(L:ON) | Flash(w:pull<br>up)      | RESET for<br>DXP7001(reset=L)                                                                                                          |
| 76  | P12/D10         | P12      | I   |         | FILT1  | SACD: DAC SYSTEM CLK<br>SWITCHING CONTOROL IN   | (Low:384fs/<br>Hi:192fs) | for FILTER-SW                                                                                                                          |
| 77  | P11/D9          | P11      | O   | H       | MUT2   | MUTING for MULTI<br>CHANNEL(H:MUTE)             | RELAY/TR                 |                                                                                                                                        |
| 78  | P10/D8          | P10      | O   | H       | MUT1   | MUTING for STEREO<br>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<br>SIGNAL(L:CD,SACD:H)        |                          | Switching of digital<br>audio data for SACD<br>and CD(L=CD,<br>H=SACD)<br>Data transwission<br>hold to recognition of<br>the next DISC |
| 88  | P106/AN6/KI2~   | P106     | O   | L       | FCS    | DISPLAY CHIP SRELECT for FL<br>DRIVER           |                          | ML9207-01GP chip<br>select                                                                                                             |
| 89  | P105/AN5/KI1~   | P105     | O   | H       | DSRST2 | DSP RESET2 for SURROUND<br>CHANNEL or ATT       |                          | Mute signal fo Search                                                                                                                  |
| 90  | P104/AN4/KI0~   | P104     | O   | H       | DSRST1 | DSP RESET1 for FRONT CHANNEL                    |                          | RESET for DAC<br>(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<br>data                                                                                                            |
| 100 | P95/ANEX0/CLK4  | CLK4     | O   | L       | FCLK   | DISPLAY CLOCK for FL DRIVER                     |                          | ML9207-01GP control<br>clock                                                                                                           |

IC733: S-80843C

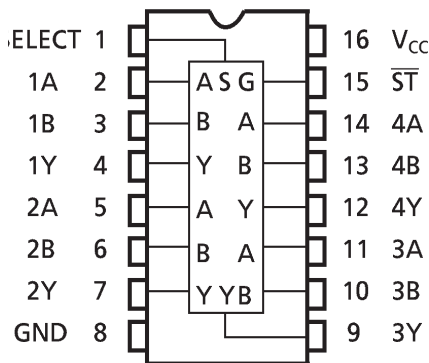


|   |      |
|---|------|
| 1 | OUT  |
| 2 | VDD  |
| 3 | N.C. |
| 4 | VSS  |

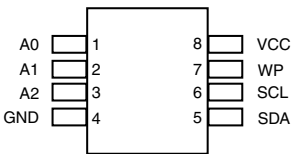
IC734: TC74VHC74FT



IC736: TC74VHC157FT



IC737: AT24C04

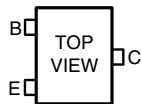


Pin Configurations

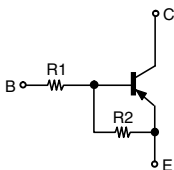
| Pin Name | Function            |
|----------|---------------------|
| A0 - A2  | Address Inputs      |
| SDA      | Sedrial Data        |
| SCL      | Sedrial Clock Input |
| WP       | Write Protect       |
| NC       | No Connect          |

TRASISTORS

DTA114EK — PNP  
DTC114EK — NPN

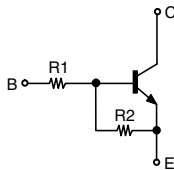


DTA Series



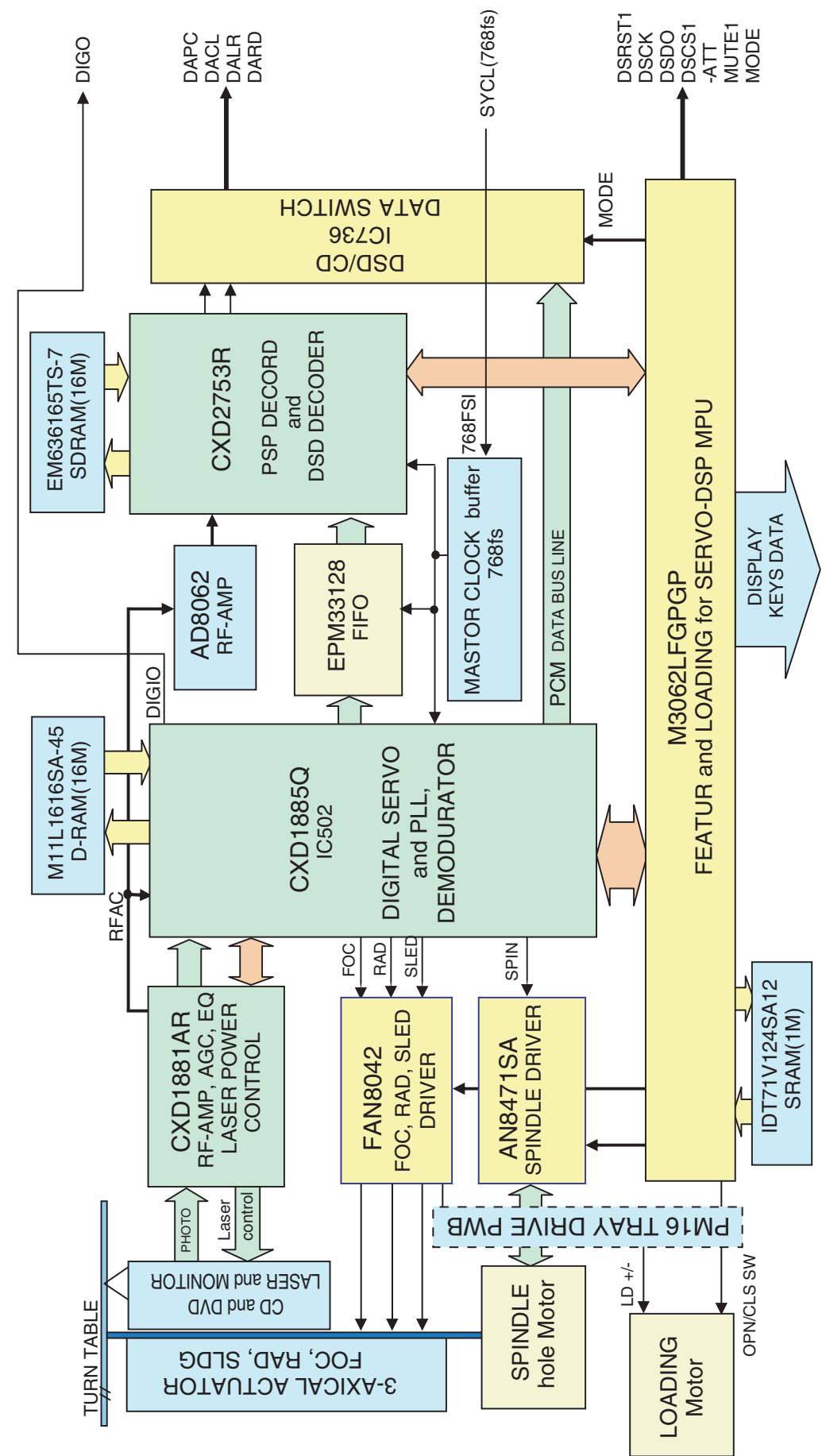
|          | R1     | R2     |
|----------|--------|--------|
| DTA114EK | 10kohm | 10kohm |

DTC Series



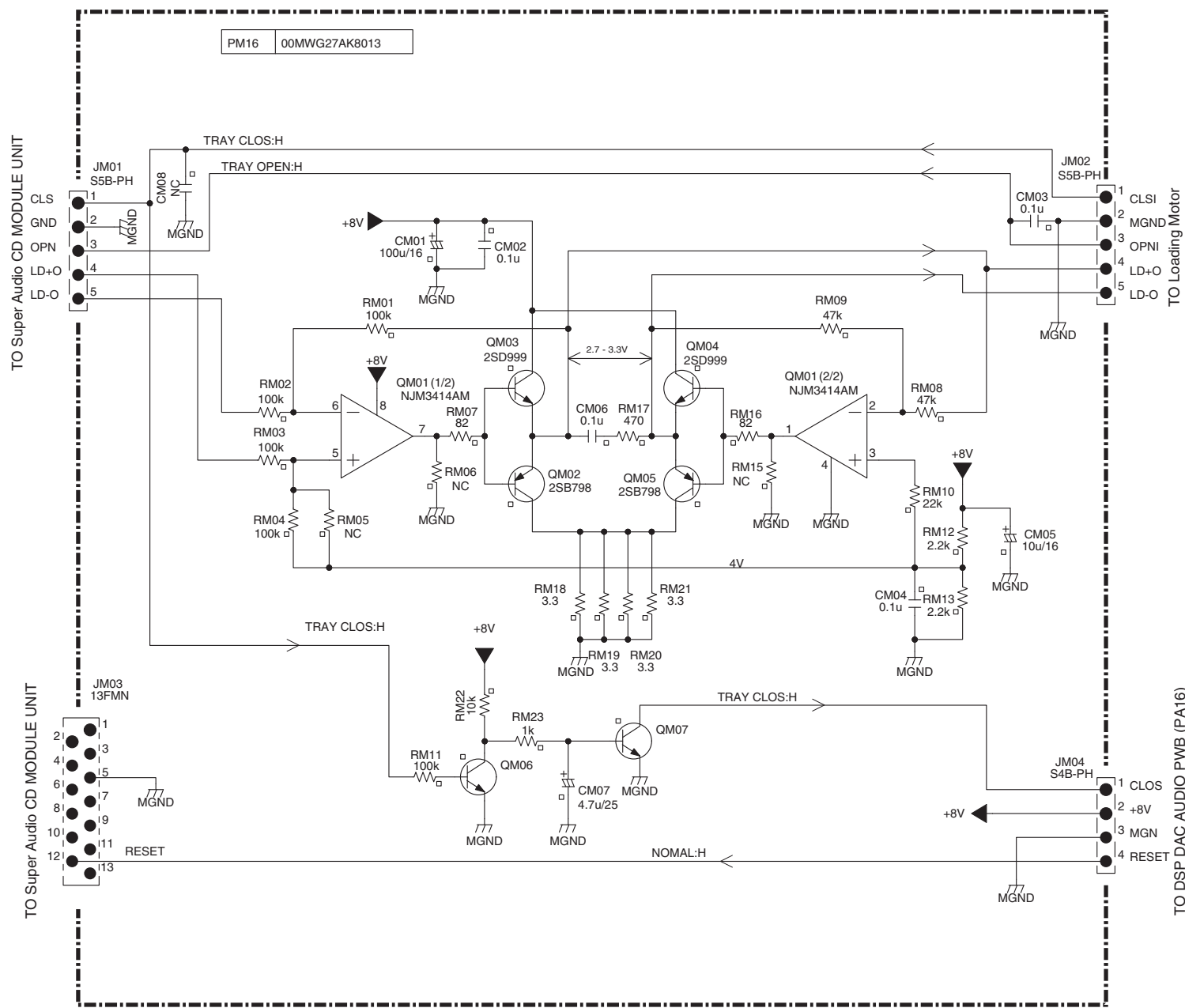
|          | R1     | R2     |
|----------|--------|--------|
| DTC114EK | 10kohm | 10kohm |

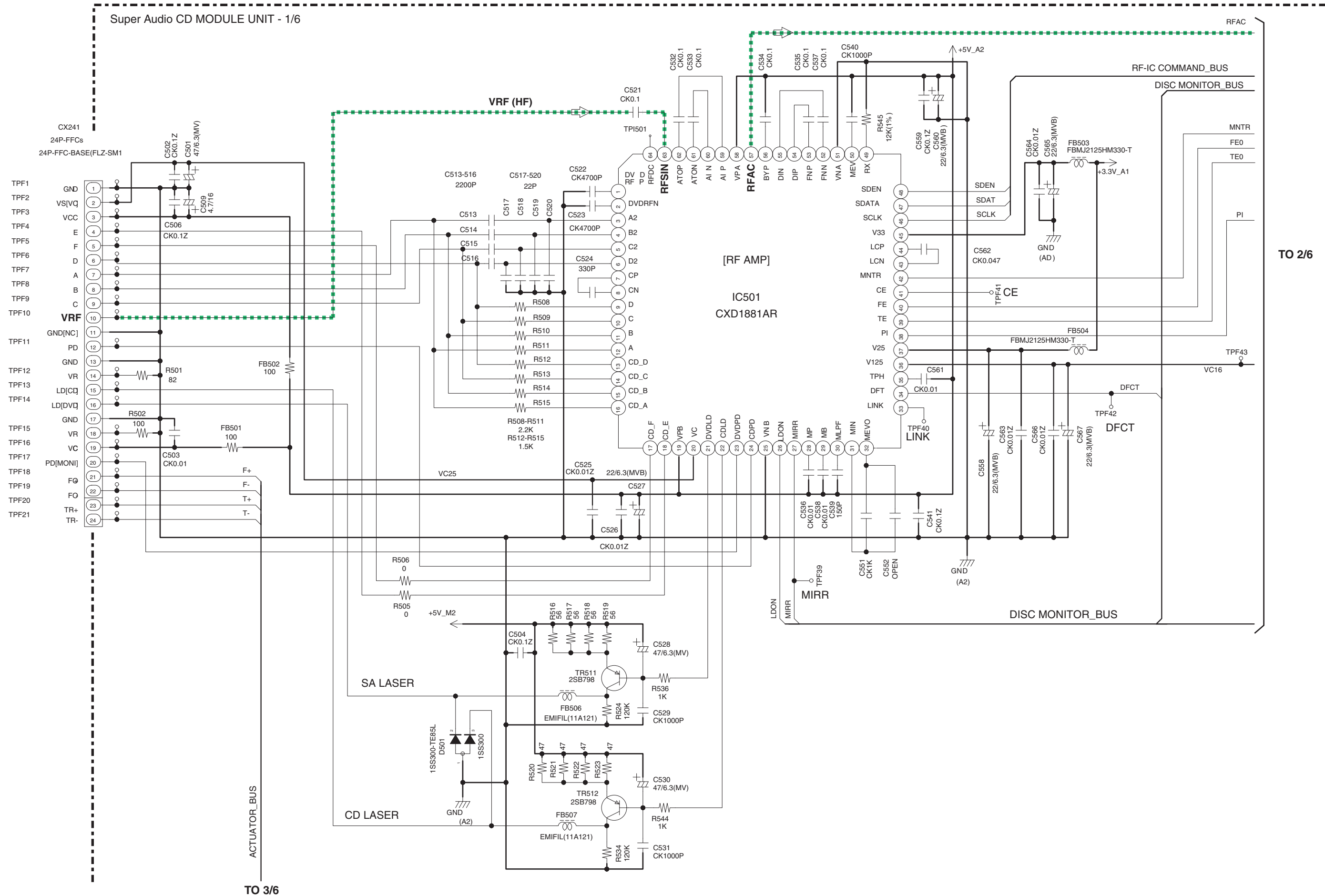
2. BLOCK DIAGRAM



3. SCHEMATIC DIAGRAM

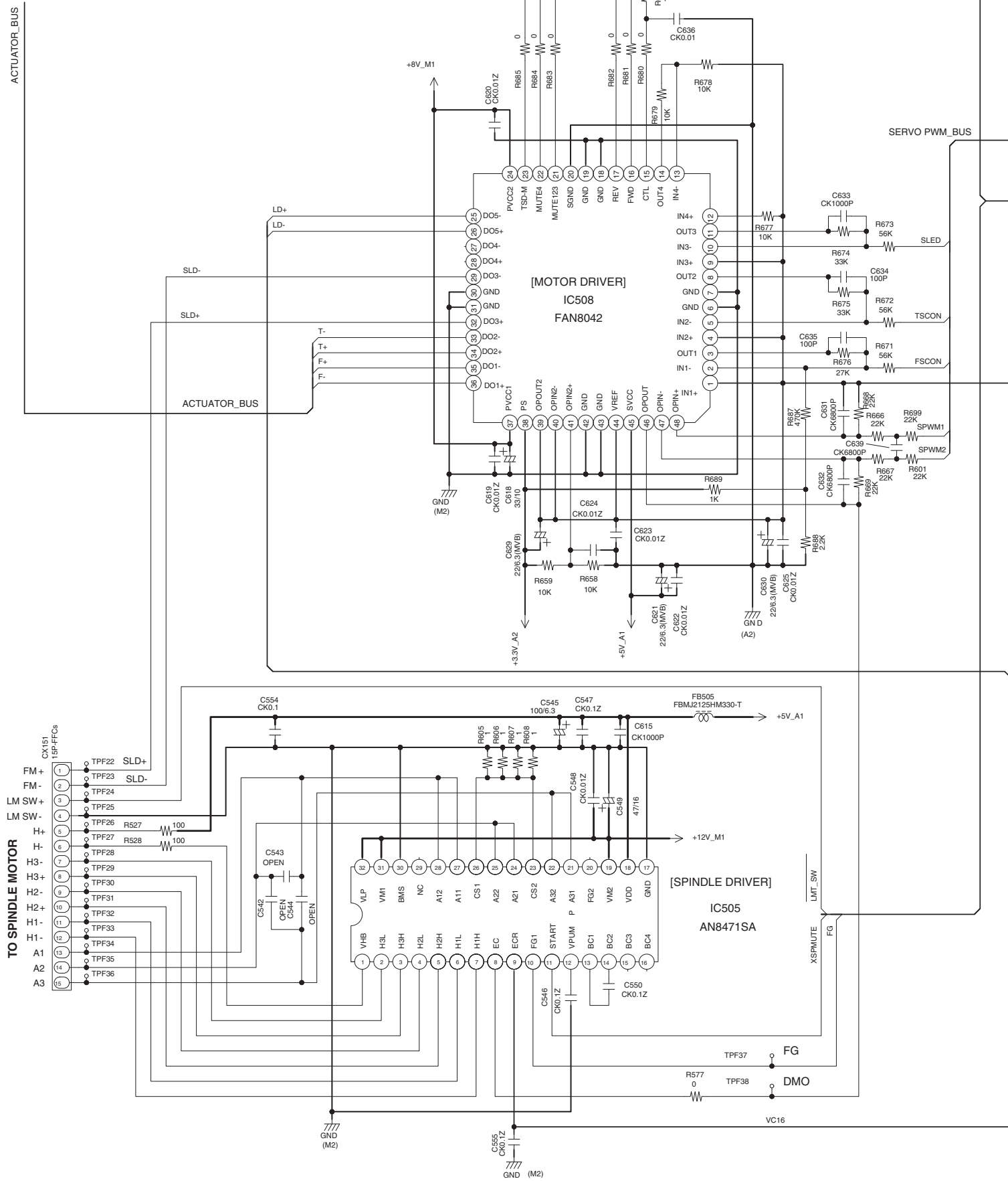
TRAY DRIVE PWB







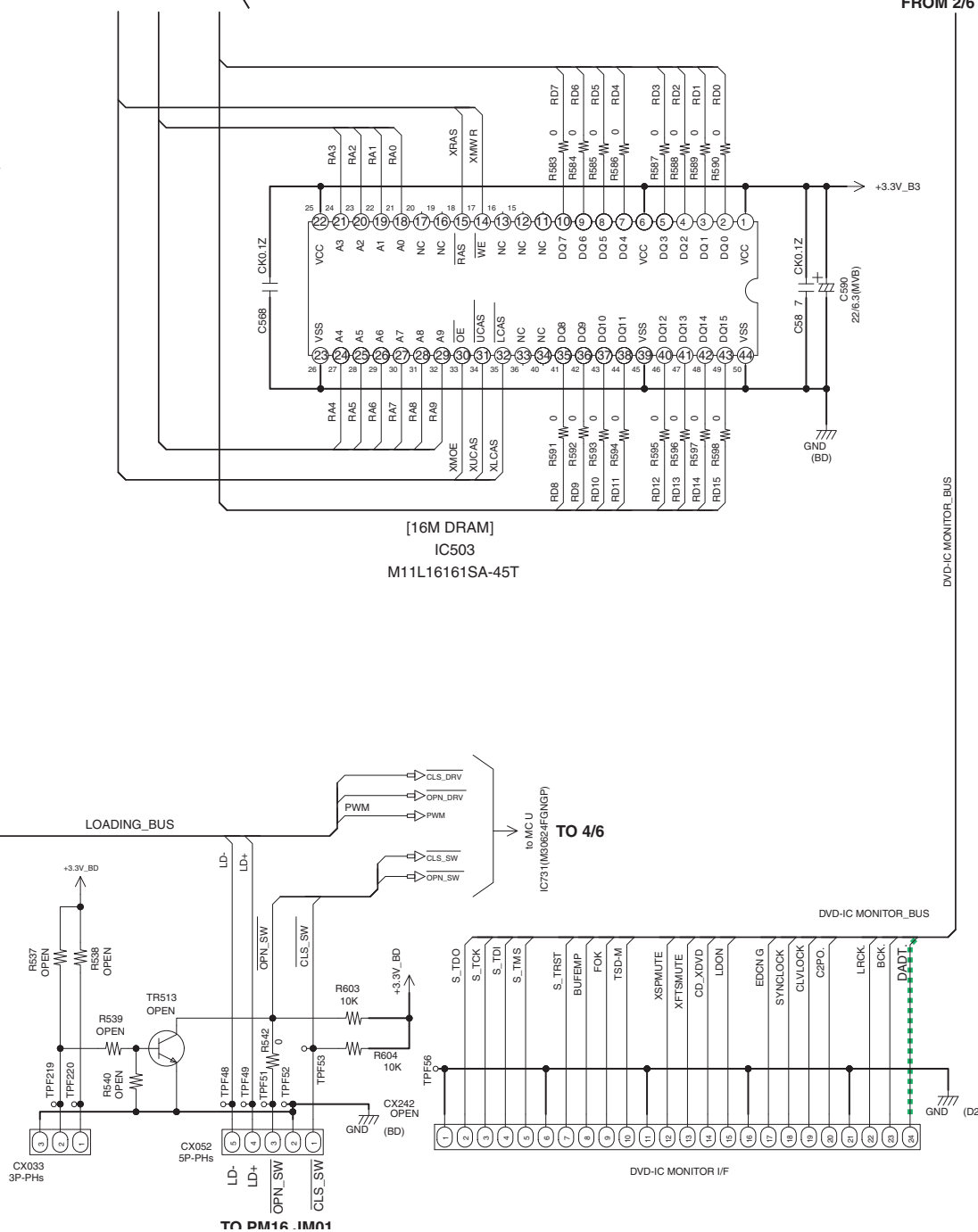
FROM 1/6

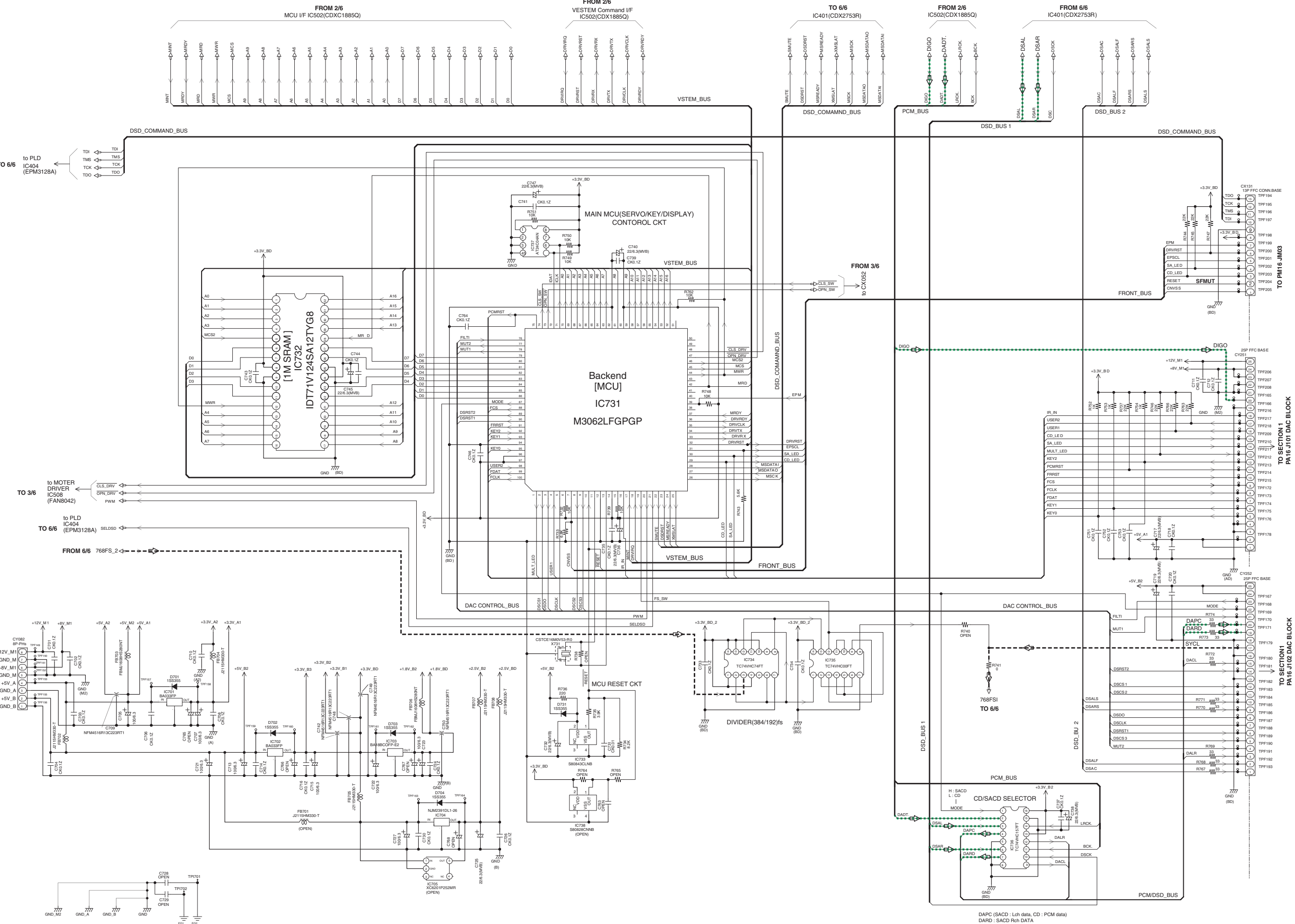


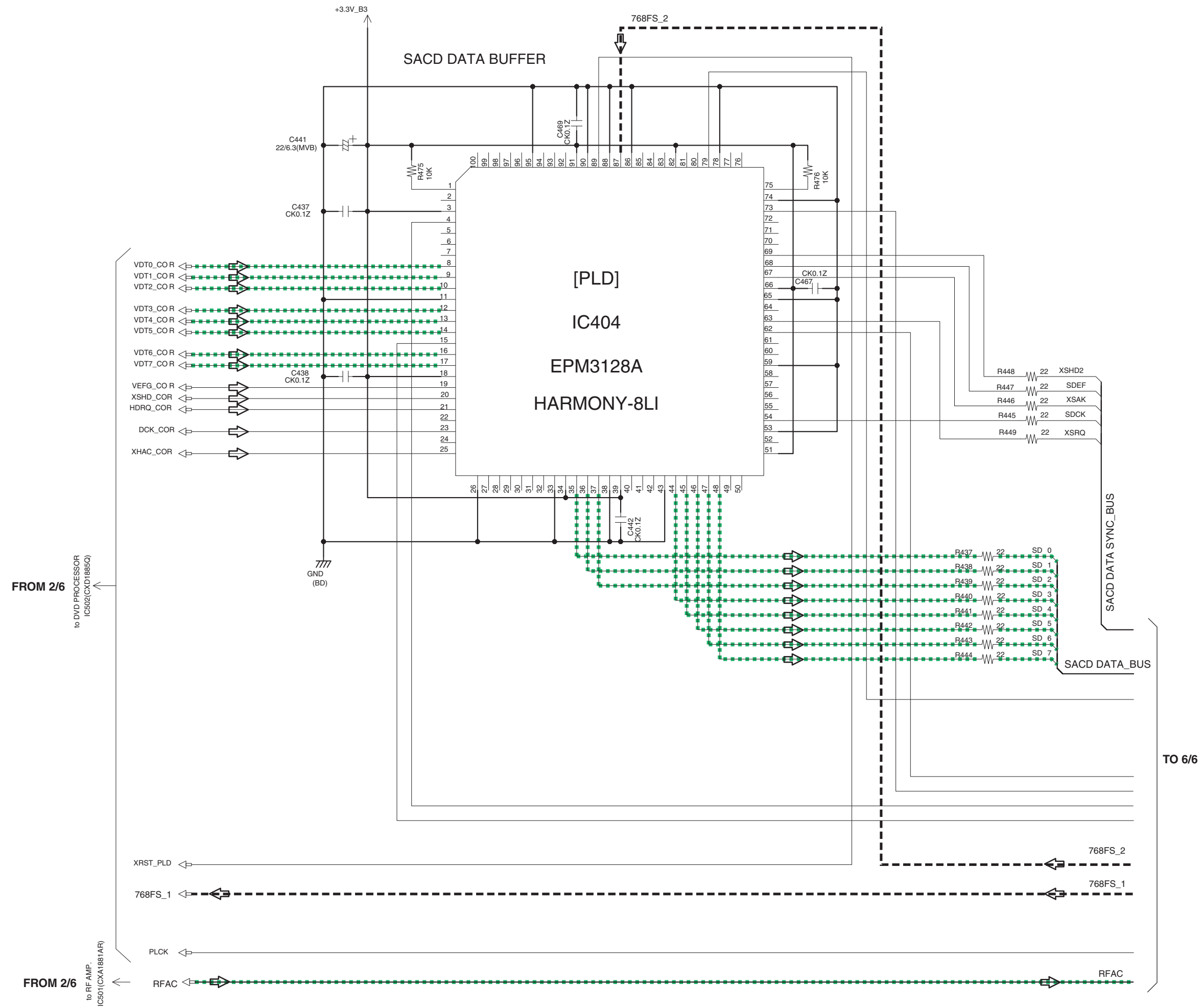
FROM 2/6

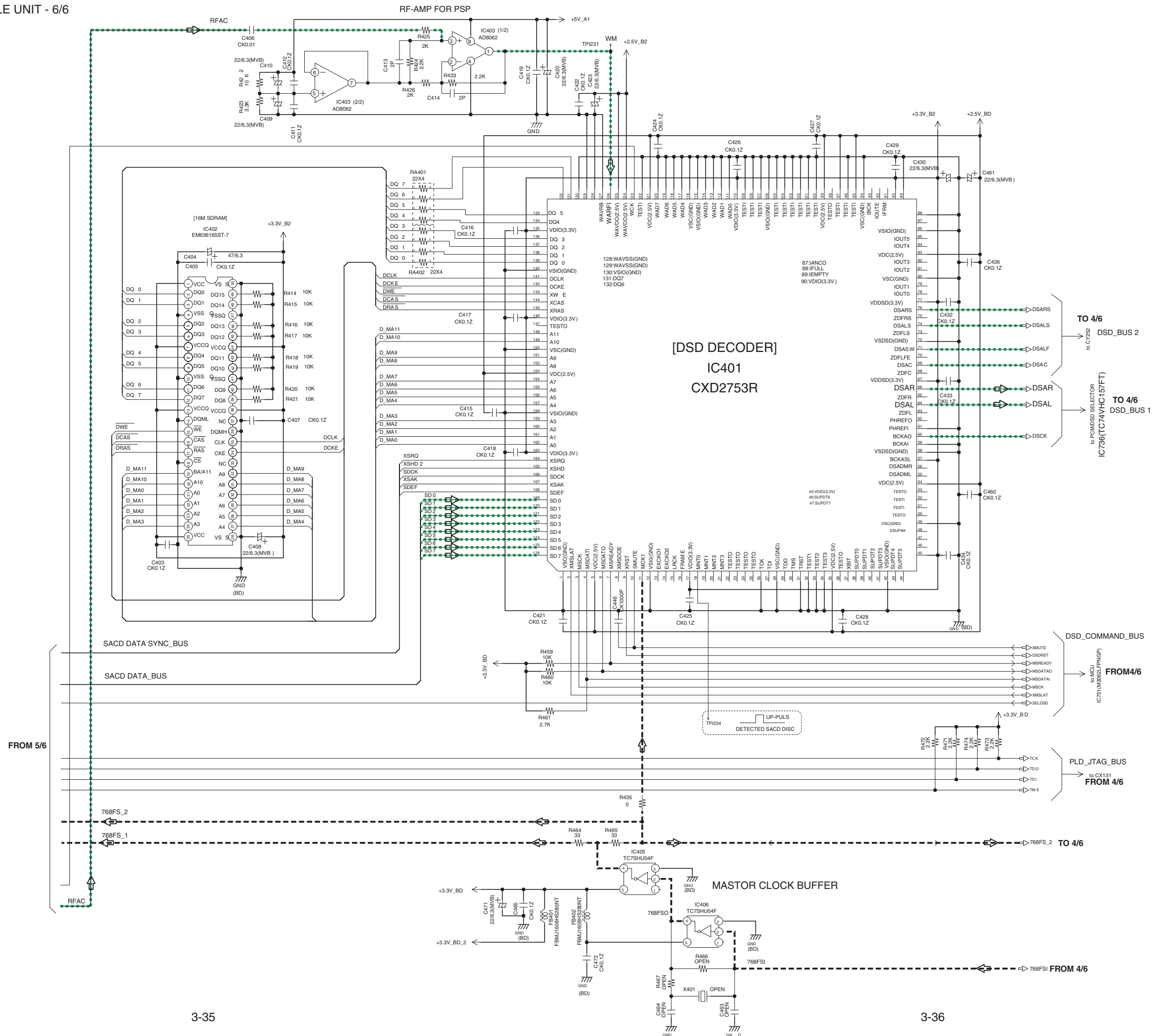
FROM 2/6

FROM 2/6









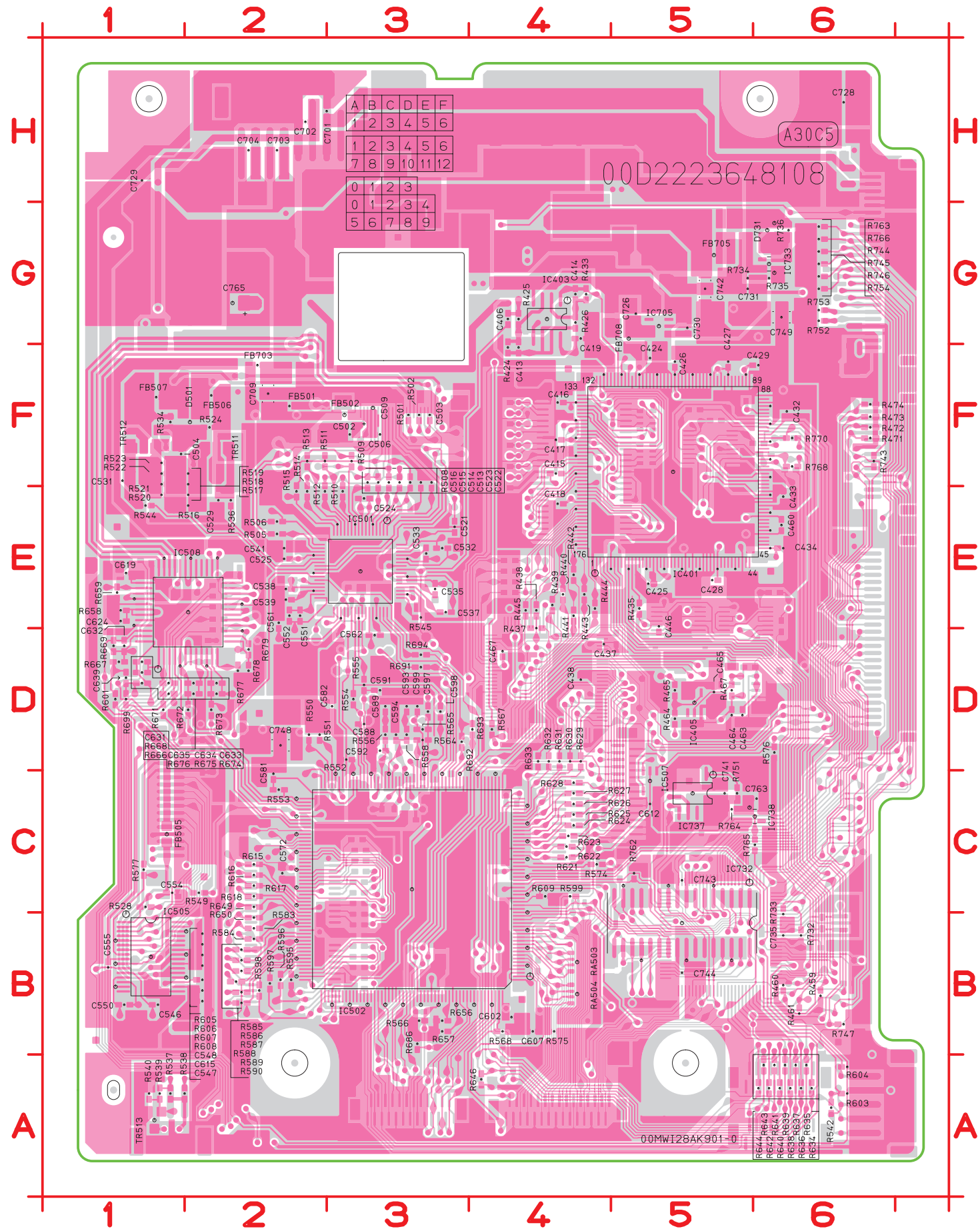
4. PARTS LOCATION

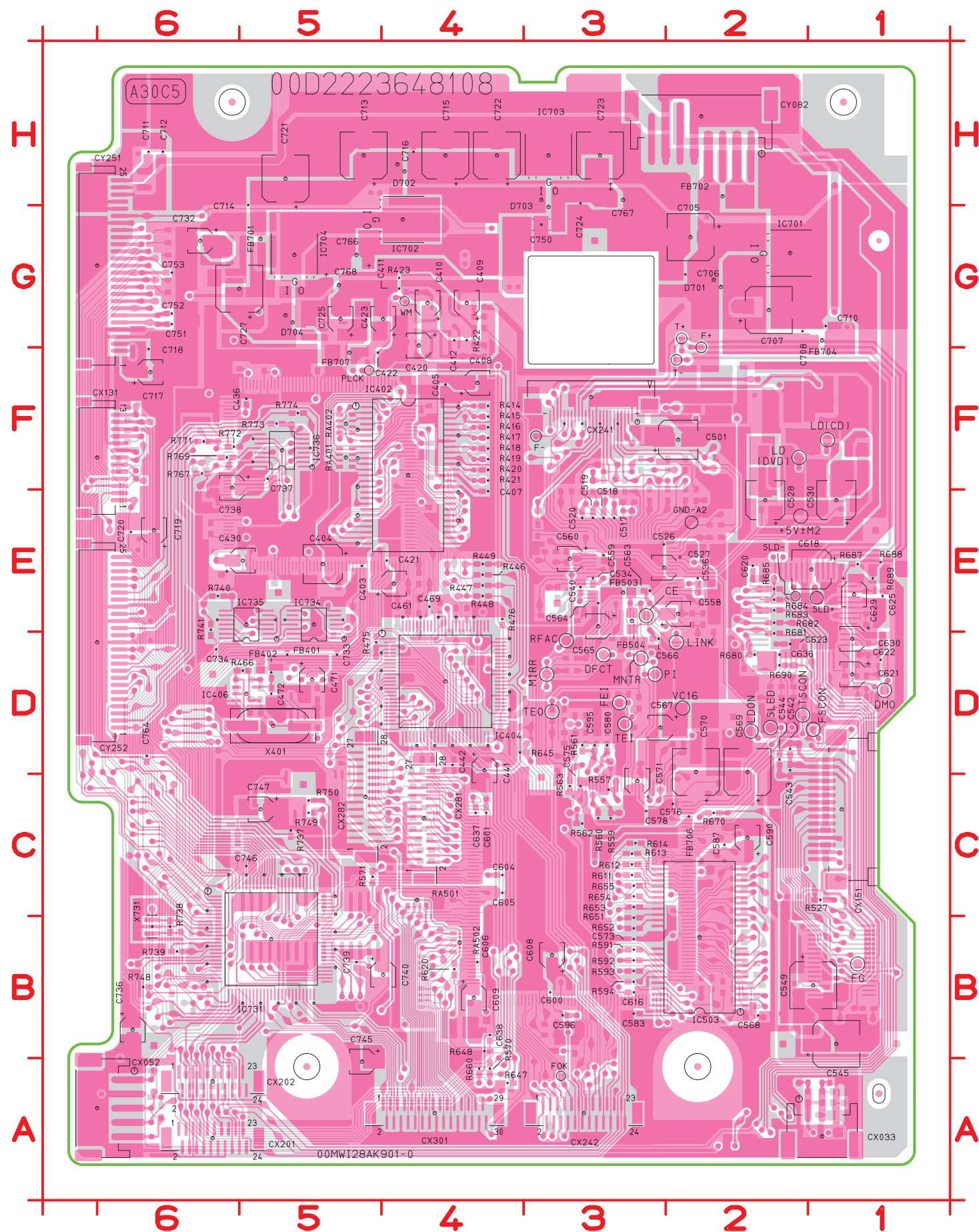
Super Audio CD MODULE UNIT

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

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

|      |    |       |    |      |    |       |    |
|------|----|-------|----|------|----|-------|----|
| C406 | G4 | C624  | E1 | R505 | E2 | R624  | C4 |
| C413 | F4 | C631  | D1 | R506 | E2 | R625  | C4 |
| C414 | G4 | C632  | D1 | R508 | F3 | R626  | C4 |
| C415 | F4 | C633  | D2 | R509 | F3 | R627  | C4 |
| C416 | F4 | C634  | D2 | R510 | E3 | R628  | C4 |
| C417 | F4 | C635  | D1 | R511 | F2 | R629  | D4 |
| C418 | E4 | C639  | D1 | R512 | E2 | R630  | D4 |
| C419 | G4 | C701  | H3 | R513 | F2 | R631  | D4 |
| C424 | F5 | C702  | H2 | R514 | E2 | R632  | D4 |
| C425 | E5 | C703  | H2 | R515 | E2 | R633  | D4 |
| C426 | F5 | C704  | H2 | R516 | E2 | R634  | A6 |
| C427 | F5 | C709  | F2 | R517 | E2 | R635  | A6 |
| C428 | E5 | C726  | G5 | R518 | F2 | R636  | A6 |
| C429 | F6 | C728  | H6 | R519 | F2 | R637  | A6 |
| C432 | F6 | C729  | H1 | R520 | E1 | R638  | A6 |
| C433 | E6 | C730  | G5 | R521 | F1 | R639  | A6 |
| C434 | E6 | C731  | G5 | R522 | F1 | R640  | A6 |
| C437 | D4 | C735  | B6 | R523 | F1 | R641  | A6 |
| C438 | D4 | C741  | C5 | R524 | F2 | R642  | A6 |
| C446 | E5 | C742  | G5 | R528 | C1 | R643  | A6 |
| C460 | E6 | C743  | C5 | R534 | F1 | R644  | A6 |
| C463 | D5 | C744  | B5 | R536 | E2 | R646  | A4 |
| C464 | D5 | C748  | D2 | R537 | A1 | R649  | C2 |
| C465 | D5 | C749  | G6 | R538 | A2 | R650  | B2 |
| C467 | D4 | C763  | C6 | R539 | A1 | R656  | B3 |
| C502 | F3 | C765  | G2 | R540 | A1 | R657  | B3 |
| C503 | F3 | D501  | F2 | R542 | A6 | R658  | E1 |
| C504 | F1 | D731  | G6 | R544 | E1 | R659  | E1 |
| C506 | F3 | FB501 | F2 | R545 | E3 | R666  | D1 |
| C509 | F3 | FB502 | F3 | R549 | C2 | R667  | D1 |
| C513 | F3 | FB505 | C1 | R550 | D2 | R668  | D1 |
| C514 | F3 | FB506 | F2 | R551 | D2 | R669  | D1 |
| C515 | F3 | FB507 | F1 | R552 | D3 | R671  | D1 |
| C516 | F3 | FB703 | F2 | R553 | C2 | R672  | D2 |
| C521 | E3 | FB705 | G5 | R554 | D3 | R673  | D2 |
| C522 | F3 | FB708 | G5 | R555 | D3 | R674  | D2 |
| C523 | F3 | IC401 | F5 | R556 | D3 | R675  | D2 |
| C524 | E3 | IC403 | G4 | R558 | D3 | R676  | D1 |
| C525 | E2 | IC405 | D5 | R564 | D3 | R677  | D2 |
| C529 | E2 | IC501 | E3 | R565 | D3 | R678  | D2 |
| C531 | F1 | IC502 | C3 | R566 | B3 | R679  | D2 |
| C532 | E3 | IC505 | B1 | R567 | D4 | R686  | B3 |
| C533 | E3 | IC507 | C5 | R568 | B4 | R691  | D3 |
| C535 | E3 | IC508 | E2 | R574 | C4 | R692  | D3 |
| C537 | E3 | IC705 | G5 | R575 | B4 | R693  | D4 |
| C538 | E2 | IC732 | B5 | R576 | D6 | R694  | D3 |
| C539 | E2 | IC733 | G6 | R577 | C1 | R699  | D1 |
| C541 | E2 | IC737 | C5 | R583 | B2 | R732  | B6 |
| C546 | B1 | IC738 | C6 | R584 | B2 | R733  | B6 |
| C547 | B2 | R424  | F4 | R585 | B2 | R734  | G5 |
| C548 | B2 | R425  | G4 | R586 | B2 | R735  | G6 |
| C550 | B1 | R426  | G4 | R587 | B2 | R736  | G6 |
| C551 | E2 | R433  | G4 | R588 | B2 | R743  | F6 |
| C552 | E2 | R435  | E5 | R589 | B2 | R744  | G6 |
| C554 | C1 | R437  | E4 | R590 | B2 | R745  | G6 |
| C555 | B1 | R438  | E4 | R595 | B2 | R746  | G6 |
| C561 | E2 | R439  | E4 | R596 | B2 | R747  | B6 |
| C562 | D3 | R440  | E4 | R597 | B2 | R751  | C5 |
| C572 | C2 | R441  | E4 | R598 | B2 | R752  | G6 |
| C581 | C2 | R442  | E4 | R599 | C4 | R753  | G6 |
| C582 | D3 | R443  | E4 | R601 | D1 | R754  | G6 |
| C588 | D3 | R444  | E4 | R603 | A6 | R762  | C5 |
| C589 | D3 | R445  | E4 | R604 | A6 | R763  | G6 |
| C591 | D3 | R459  | B6 | R605 | B2 | R764  | C5 |
| C592 | D3 | R460  | B6 | R606 | B2 | R765  | C6 |
| C593 | D3 | R461  | B6 | R607 | B2 | R766  | G6 |
| C594 | D3 | R464  | D5 | R608 | B2 | R768  | F6 |
| C597 | D3 | R465  | D5 | R609 | C4 | R770  | F6 |
| C598 | D3 | R467  | D5 | R615 | C2 | RA503 | B4 |
| C599 | D3 | R471  | F6 | R616 | C2 | RA504 | B4 |
| C602 | B4 | R472  | F6 | R617 | C2 | TR511 | F2 |
| C607 | B4 | R473  | F6 | R618 | C2 | TR512 | F1 |
| C612 | C5 | R474  | F6 | R621 | C4 | TR513 | A1 |
| C615 | B2 | R501  | F3 | R622 | C4 |       |    |
| C619 | E1 | R502  | F3 | R623 | C4 |       |    |

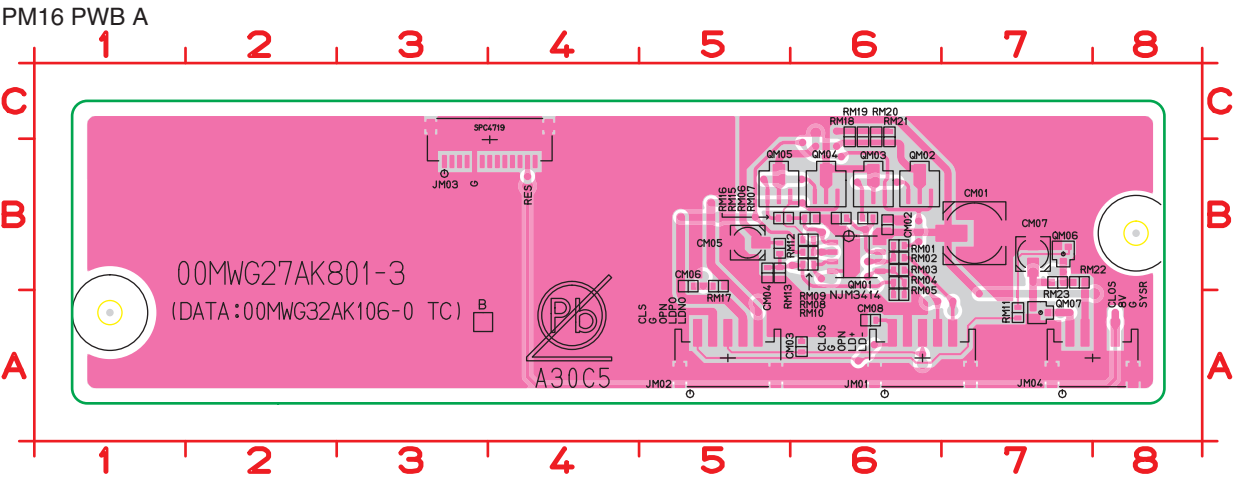




|      |    |       |    |       |    |       |    |
|------|----|-------|----|-------|----|-------|----|
| C403 | E5 | C630  | D1 | IC701 | G2 | R773  | F5 |
| C404 | E5 | C636  | D2 | IC702 | G4 | R774  | F5 |
| C405 | F4 | C637  | C4 | IC703 | H3 | RA401 | F5 |
| C407 | E4 | C638  | B4 | IC704 | G5 | RA402 | F5 |
| C408 | F4 | C705  | G2 | IC731 | B5 | RA501 | C4 |
| C409 | G4 | C706  | G2 | IC734 | E5 | RA502 | B4 |
| C410 | G4 | C707  | G2 | IC735 | E5 | X401  | D5 |
| C411 | G4 | C708  | G2 | IC736 | F5 | X731  | B6 |
| C412 | G4 | C710  | G1 |       |    |       |    |
| C420 | G4 | C711  | H6 |       |    |       |    |
| C421 | E4 | C712  | H6 |       |    |       |    |
| C422 | F5 | C713  | H5 |       |    |       |    |
| C423 | G4 | C714  | H5 |       |    |       |    |
| C430 | E5 | C715  | H4 |       |    |       |    |
| C436 | F5 | C716  | H4 |       |    |       |    |
| C441 | D4 | C717  | F6 |       |    |       |    |
| C442 | D4 | C718  | F6 |       |    |       |    |
| C461 | E4 | C719  | E6 |       |    |       |    |
| C469 | E4 | C720  | E6 |       |    |       |    |
| C471 | D5 | C721  | H5 |       |    |       |    |
| C472 | D5 | C722  | H4 |       |    |       |    |
| C501 | F2 | C723  | H3 |       |    |       |    |
| C517 | E3 | C724  | H3 |       |    |       |    |
| C518 | E3 | C725  | G5 |       |    |       |    |
| C519 | E3 | C727  | G6 |       |    |       |    |
| C520 | E3 | C732  | G6 |       |    |       |    |
| C526 | E3 | C733  | D5 |       |    |       |    |
| C527 | E3 | C734  | D6 |       |    |       |    |
| C528 | E2 | C736  | B6 |       |    |       |    |
| C530 | E1 | C737  | F5 |       |    |       |    |
| C534 | E3 | C738  | F6 |       |    |       |    |
| C536 | E2 | C739  | B5 |       |    |       |    |
| C540 | E3 | C740  | B4 |       |    |       |    |
| C542 | D2 | C745  | A5 |       |    |       |    |
| C543 | D2 | C746  | C5 |       |    |       |    |
| C544 | D2 | C747  | C5 |       |    |       |    |
| C545 | B1 | C750  | G3 |       |    |       |    |
| C549 | B1 | C751  | G6 |       |    |       |    |
| C558 | E2 | C752  | G6 |       |    |       |    |
| C559 | E3 | C753  | G6 |       |    |       |    |
| C560 | E3 | C764  | D6 |       |    |       |    |
| C563 | E3 | C766  | G5 |       |    |       |    |
| C564 | E3 | C767  | H3 |       |    |       |    |
| C565 | E3 | C768  | G5 |       |    |       |    |
| C566 | D3 | CX033 | A1 |       |    |       |    |
| C567 | D3 | CX052 | A7 |       |    |       |    |
| C568 | B2 | CX131 | F7 |       |    |       |    |
| C569 | D2 | CX151 | C1 |       |    |       |    |
| C570 | D2 | CX201 | A6 |       |    |       |    |
| C571 | C3 | CX202 | A6 |       |    |       |    |
| C573 | B3 | CX241 | F3 |       |    |       |    |
| C575 | C3 | CX242 | A3 |       |    |       |    |
| C576 | C2 | CX281 | C4 |       |    |       |    |
| C578 | C3 | CX282 | C5 |       |    |       |    |
| C580 | D3 | CX301 | A4 |       |    |       |    |
| C583 | B3 | CY082 | H2 |       |    |       |    |
| C587 | C2 | CY251 | G7 |       |    |       |    |
| C590 | C2 | CY252 | D7 |       |    |       |    |
| C595 | D3 | D701  | G2 |       |    |       |    |
| C596 | B3 | D702  | H4 |       |    |       |    |
| C600 | B3 | D703  | G3 |       |    |       |    |
| C601 | C4 | D704  | G5 |       |    |       |    |
| C604 | C4 | FB401 | D5 |       |    |       |    |
| C605 | C4 | FB402 | D5 |       |    |       |    |
| C606 | B4 | FB503 | E3 |       |    |       |    |
| C608 | B3 | FB504 | E3 |       |    |       |    |
| C609 | B4 | FB701 | G5 |       |    |       |    |
| C616 | B3 | FB702 | H2 |       |    |       |    |
| C618 | E1 | FB704 | G1 |       |    |       |    |
| C620 | E2 | FB706 | C2 |       |    |       |    |
| C621 | D1 | FB707 | F5 |       |    |       |    |
| C622 | D1 | IC402 | F4 |       |    |       |    |
| C623 | D2 | IC404 | D4 |       |    |       |    |
| C625 | E1 | IC406 | D5 |       |    |       |    |
| C629 | E1 | IC503 | B2 |       |    |       |    |

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

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



- CM01 B7

CM02 B6

CM03 A6

CM04 B5

CM05 B5

CM06 B5

CM07 B7

CM08 A6

CM09 A6

CM10 A6

CM11 A6

CM12 A5

CM13 B4

CM14 A8

CM15 B6

CM16 B6

CM17 B5

CM18 C6

CM19 C6

CM20 C6

CM21 C6

CM22 B7

CM23 B7

CM24 B6
- RM03 B6

RM04 B6

RM05 A6

RM06 B6

RM07 B6

RM08 B6

RM09 B6

RM10 B6

RM11 A7

RM12 B5

RM13 B5

RM15 B6

RM16 B5

RM17 B5

RM18 C6

RM19 C6

RM20 C6

RM21 C6

RM22 B7

RM23 B7

鉛フリー半田

半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

**Lead-free Solder**

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

5. ELECTRICAL PARTS LIST

| P.W.B. NAME | POS. NO. | VERS. COLOR | PART NO. (FOR EUR) | PART NO. (MZ) | PART NAME                                | DESCRIPTION               |
|-------------|----------|-------------|--------------------|---------------|------------------------------------------|---------------------------|
|             |          |             |                    |               | SACD MODULE PWB 1U-3648B (00D2223648108) |                           |
| 1U-3648B    | C-403    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-404    |             | nsp                | 00D2544464964 | ELECT CAP.                               | CE67C0J470MT(MV) +REF     |
| 1U-3648B    | C-405    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-406    |             | nsp                | 00D2570501901 | CHIP CAP.                                | CK73B1H103KT (1608) +1608 |
| 1U-3648B    | C-407    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-408    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-409    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-410    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-411    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-412    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-413    |             | nsp                | 00D2570502942 | CHIP CAP.                                | CC73CH1H2R0CT +1608       |
| 1U-3648B    | C-414    |             | nsp                | 00D2570502942 | CHIP CAP.                                | CC73CH1H2R0CT +1608       |
| 1U-3648B    | C-415    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-416    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-417    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-418    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-419    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-420    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-421    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-422    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-423    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-424    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-425    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-426    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-427    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-428    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-429    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-430    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-432    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-433    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-434    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-436    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-437    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-438    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-441    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-442    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-446    |             | nsp                | 00D2570509929 | CHIP CAP.                                | CK73B1H102KT +1608        |
| 1U-3648B    | C-460    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-461    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-465    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-467    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-469    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-471    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-472    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-501    |             | nsp                | 00D2544464964 | ELECT CAP.                               | CE67C0J470MT(MV) +REF     |
| 1U-3648B    | C-502    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-503    |             | nsp                | 00D2570501901 | CHIP CAP.                                | CK73B1H103KT (1608) +1608 |
| 1U-3648B    | C-504    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-506    |             | nsp                | 00D2570512903 | CHIP CAP.                                | CK73F1E104ZT +1608        |
| 1U-3648B    | C-509    |             | nsp                | 00D2572015945 | CHIP CAP.                                | CS77B1A475MT              |
| 1U-3648B    | C-513    |             | nsp                | 00D2570509990 | CHIP CAP.                                | CK73B1H222KT +1608        |
| 1U-3648B    | C-514    |             | nsp                | 00D2570509990 | CHIP CAP.                                | CK73B1H222KT +1608        |
| 1U-3648B    | C-515    |             | nsp                | 00D2570509990 | CHIP CAP.                                | CK73B1H222KT +1608        |
| 1U-3648B    | C-516    |             | nsp                | 00D2570509990 | CHIP CAP.                                | CK73B1H222KT +1608        |
| 1U-3648B    | C-517    |             | nsp                | 00D2570504908 | CHIP CAP.                                | CC73CH1H220JT +1608       |
| 1U-3648B    | C-518    |             | nsp                | 00D2570504908 | CHIP CAP.                                | CC73CH1H220JT +1608       |
| 1U-3648B    | C-519    |             | nsp                | 00D2570504908 | CHIP CAP.                                | CC73CH1H220JT +1608       |
| 1U-3648B    | C-520    |             | nsp                | 00D2570504908 | CHIP CAP.                                | CC73CH1H220JT +1608       |
| 1U-3648B    | C-521    |             | nsp                | 00D2570516954 | CHIP CAP.                                | CK73B1E104KT +1608        |
| 1U-3648B    | C-522    |             | nsp                | 00D2570510934 | CHIP CAP.                                | CK73B1H472KT +1608        |
| 1U-3648B    | C-523    |             | nsp                | 00D2570510934 | CHIP CAP.                                | CK73B1H472KT +1608        |
| 1U-3648B    | C-524    |             | nsp                | 00D2570507976 | CHIP CAP.                                | CC73CH1H331JT +1608       |
| 1U-3648B    | C-525    |             | nsp                | 00D2570511904 | CHIP CAP.                                | CK73F1H103ZT +1608        |
| 1U-3648B    | C-526    |             | nsp                | 00D2570511904 | CHIP CAP.                                | CK73F1H103ZT +1608        |
| 1U-3648B    | C-527    |             | nsp                | 00D2544464951 | ELECT CAP.                               | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B    | C-528    |             | nsp                | 00D2544464964 | ELECT CAP.                               | CE67C0J470MT(MV) +REF     |

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME  | DESCRIPTION               |
|----------------|----------|----------------|-----------------------|------------------|------------|---------------------------|
| 1U-3648B       | C-529    |                | nsp                   | 00D2570509929    | CHIP CAP.  | CK73B1H102KT +1608        |
| 1U-3648B       | C-530    |                | nsp                   | 00D2544464964    | ELECT CAP. | CE67C0J470MT(MV) +REF     |
| 1U-3648B       | C-531    |                | nsp                   | 00D2570509929    | CHIP CAP.  | CK73B1H102KT +1608        |
| 1U-3648B       | C-532    |                | nsp                   | 00D2570516954    | CHIP CAP.  | CK73B1E104KT +1608        |
| 1U-3648B       | C-533    |                | nsp                   | 00D2570516954    | CHIP CAP.  | CK73B1E104KT +1608        |
| 1U-3648B       | C-534    |                | nsp                   | 00D2570516954    | CHIP CAP.  | CK73B1E104KT +1608        |
| 1U-3648B       | C-535    |                | nsp                   | 00D2570516954    | CHIP CAP.  | CK73B1E104KT +1608        |
| 1U-3648B       | C-536    |                | nsp                   | 00D2570501901    | CHIP CAP.  | CK73B1H103KT (1608) +1608 |
| 1U-3648B       | C-537    |                | nsp                   | 00D2570516954    | CHIP CAP.  | CK73B1E104KT +1608        |
| 1U-3648B       | C-538    |                | nsp                   | 00D2570501901    | CHIP CAP.  | CK73B1H103KT (1608) +1608 |
| 1U-3648B       | C-539    |                | nsp                   | 00D2570506993    | CHIP CAP.  | CC73CH1H151JT +1608       |
| 1U-3648B       | C-540    |                | nsp                   | 00D2570509929    | CHIP CAP.  | CK73B1H102KT +1608        |
| 1U-3648B       | C-541    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-545    |                | nsp                   | 00D2544464906    | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648B       | C-546    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-547    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-548    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-549    |                | nsp                   | 00D2544465918    | ELECT CAP. | CE67C1C470MT +REF         |
| 1U-3648B       | C-550    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-551    |                | nsp                   | 00D2570521907    | CHIP CAP.  | CK73B1A105KT +1608        |
| 1U-3648B       | C-554    |                | nsp                   | 00D2570516954    | CHIP CAP.  | CK73B1E104KT +1608        |
| 1U-3648B       | C-555    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-558    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-559    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-560    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-561    |                | nsp                   | 00D2570501901    | CHIP CAP.  | CK73B1H103KT (1608) +1608 |
| 1U-3648B       | C-562    |                | nsp                   | 00D2570516941    | CHIP CAP.  | CK73B1E473KT +1608        |
| 1U-3648B       | C-563    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-564    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-565    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-566    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-567    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-568    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-569    |                | nsp                   | 00D2544645903    | ELECT CAP. | CE67C0J221MT(MVA) +REF    |
| 1U-3648B       | C-570    |                | nsp                   | 00D2544645903    | ELECT CAP. | CE67C0J221MT(MVA) +REF    |
| 1U-3648B       | C-571    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-572    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-573    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-575    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-576    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-578    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-580    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-581    |                | nsp                   | 00D2570516941    | CHIP CAP.  | CK73B1E473KT +1608        |
| 1U-3648B       | C-582    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-583    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-587    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-588    |                | nsp                   | 00D2570507976    | CHIP CAP.  | CC73CH1H331JT +1608       |
| 1U-3648B       | C-589    |                | nsp                   | 00D2570520908    | CHIP CAP.  | CK73B1A154KT +1608        |
| 1U-3648B       | C-590    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-591    |                | nsp                   | 00D2570507976    | CHIP CAP.  | CC73CH1H331JT +1608       |
| 1U-3648B       | C-592    |                | nsp                   | 00D2570508917    | CHIP CAP.  | CC73CH1H471JT +1608       |
| 1U-3648B       | C-593    |                | nsp                   | 00D2570520908    | CHIP CAP.  | CK73B1A154KT +1608        |
| 1U-3648B       | C-594    |                | nsp                   | 00D2570508917    | CHIP CAP.  | CC73CH1H471JT +1608       |
| 1U-3648B       | C-595    |                | nsp                   | 00D2570516954    | CHIP CAP.  | CK73B1E104KT +1608        |
| 1U-3648B       | C-596    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-597    |                | nsp                   | 00D2570506951    | CHIP CAP.  | CC73CH1H101JT +1608       |
| 1U-3648B       | C-598    |                | nsp                   | 00D2570516909    | CHIP CAP.  | CK73B1E223KT +1608        |
| 1U-3648B       | C-599    |                | nsp                   | 00D2570516909    | CHIP CAP.  | CK73B1E223KT +1608        |
| 1U-3648B       | C-600    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-601    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-602    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-604    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-605    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-606    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-607    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-608    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-609    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME  | DESCRIPTION               |
|----------------|----------|----------------|-----------------------|------------------|------------|---------------------------|
| 1U-3648B       | C-612    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-615    |                | nsp                   | 00D2570509929    | CHIP CAP.  | CK73B1H102KT +1608        |
| 1U-3648B       | C-616    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-618    |                | nsp                   | 00D2544575905    | ELECT CAP. | CE67C1A330MT +REF         |
| 1U-3648B       | C-619    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-620    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-621    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-622    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-623    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-624    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-625    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-629    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-630    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-631    |                | nsp                   | 00D2570510950    | CHIP CAP.  | CK73B1H682KT +1608        |
| 1U-3648B       | C-632    |                | nsp                   | 00D2570510950    | CHIP CAP.  | CK73B1H682KT +1608        |
| 1U-3648B       | C-633    |                | nsp                   | 00D2570509929    | CHIP CAP.  | CK73B1H102KT +1608        |
| 1U-3648B       | C-634    |                | nsp                   | 00D2570506951    | CHIP CAP.  | CC73CH1H101JT +1608       |
| 1U-3648B       | C-635    |                | nsp                   | 00D2570506951    | CHIP CAP.  | CC73CH1H101JT +1608       |
| 1U-3648B       | C-636    |                | nsp                   | 00D2570501901    | CHIP CAP.  | CK73B1H103KT (1608) +1608 |
| 1U-3648B       | C-637    |                | nsp                   | 00D2570511904    | CHIP CAP.  | CK73F1H103ZT +1608        |
| 1U-3648B       | C-639    |                | nsp                   | 00D2570510950    | CHIP CAP.  | CK73B1H682KT +1608        |
| 1U-3648B       | C-701    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-702    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-703    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-704    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-705    |                | nsp                   | 00D2544464906    | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648B       | C-706    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-707    |                | nsp                   | 00D2544464906    | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648B       | C-708    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-709    |                | 00D2590015901         | 00D2590015901    | EMI FILTER | NFM41CC223R2A3L +C        |
| 1U-3648B       | C-710    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-711    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-712    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-713    |                | nsp                   | 00D2544464906    | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648B       | C-714    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-715    |                | nsp                   | 00D2544464906    | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648B       | C-716    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-717    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-718    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-719    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-720    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-721    |                | nsp                   | 00D2544464906    | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648B       | C-722    |                | nsp                   | 00D2544464906    | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648B       | C-723    |                | nsp                   | 00D2544464906    | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648B       | C-724    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-725    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-726    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-727    |                | nsp                   | 00D2544464906    | ELECT CAP. | CE67C0J101MT +REF         |
| 1U-3648B       | C-730    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-731    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-732    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-733    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-734    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-735    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-736    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-737    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-738    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-739    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-740    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-741    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-742    |                | 00D2590015901         | 00D2590015901    | EMI FILTER | NFM41CC223R2A3L +C        |
| 1U-3648B       | C-743    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-744    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-745    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-746    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608        |
| 1U-3648B       | C-747    |                | nsp                   | 00D2544464951    | ELECT CAP. | CE67C0J220MT(MV-B) +REF   |
| 1U-3648B       | C-748    |                | 00D2590015901         | 00D2590015901    | EMI FILTER | NFM41CC223R2A3L +C        |

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME  | DESCRIPTION                    |
|----------------|----------|----------------|-----------------------|------------------|------------|--------------------------------|
| 1U-3648B       | C-749    |                | 00D2590015901         | 00D2590015901    | EMI FILTER | NFM41CC223R2A3L +C             |
| 1U-3648B       | C-750    |                | 00D2590015901         | 00D2590015901    | EMI FILTER | NFM41CC223R2A3L +C             |
| 1U-3648B       | C-751    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608             |
| 1U-3648B       | C-752    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608             |
| 1U-3648B       | C-753    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608             |
| 1U-3648B       | C-764    |                | nsp                   | 00D2570512903    | CHIP CAP.  | CK73F1E104ZT +1608             |
| 1U-3648B       | CX052    |                | nsp                   | nsp              | CONN.      | 5P PH CON.BASE(L) +REF         |
| 1U-3648B       | CX131    |                | nsp                   | nsp              | CONN.      | 13P FFC BASE(FMNSMT) +REF      |
| 1U-3648B       | CX151    |                | nsp                   | nsp              | CONN.      | 15P FFC BASE(P=1.0)L +REF      |
| 1U-3648B       | CX241    |                | nsp                   | nsp              | CONN.      | 24P FFC BASE(FMZ-SM1 +REF      |
| 1U-3648B       | CY082    |                | nsp                   | nsp              | CONN.      | 8P PH CON.BASE(L) +REF         |
| 1U-3648B       | CY251    |                | nsp                   | nsp              | CONN.      | 25P FFC BASE(FMNSMT) +REF      |
| 1U-3648B       | CY252    |                | nsp                   | nsp              | CONN.      | 25P FFC BASE(FMNSMT) +REF      |
| 1U-3648B       | D-501    |                | 00D2760778900         | 00D2760778900    | DIODE      | 1SS300-TE85L +C                |
| 1U-3648B       | D-701    |                | 00D2760717903         | 00D2760717903    | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648B       | D-702    |                | 00D2760717903         | 00D2760717903    | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648B       | D-703    |                | 00D2760717903         | 00D2760717903    | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648B       | D-704    |                | 00D2760717903         | 00D2760717903    | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648B       | D-731    |                | 00D2760717903         | 00D2760717903    | DIODE      | 1SS355 TE-17 +C                |
| 1U-3648B       | FB401    |                | 00D2350136907         | 00D2350136907    | INDUCTOR   | FBMJ1608HS280NT +1608          |
| 1U-3648B       | FB402    |                | 00D2350136907         | 00D2350136907    | INDUCTOR   | FBMJ1608HS280NT +1608          |
| 1U-3648B       | FB501    |                | nsp                   | 00D2472005903    | CHIP RES.  | RM73B--101JT +1608             |
| 1U-3648B       | FB502    |                | nsp                   | 00D2472005903    | CHIP RES.  | RM73B--101JT +1608             |
| 1U-3648B       | FB503    |                | 00D2350160902         | 00D2350160902    | INDUCTOR   | FB M J2125HM330-T +C           |
| 1U-3648B       | FB504    |                | 00D2350160902         | 00D2350160902    | INDUCTOR   | FB M J2125HM330-T +C           |
| 1U-3648B       | FB505    |                | 00D2350160902         | 00D2350160902    | INDUCTOR   | FB M J2125HM330-T +C           |
| 1U-3648B       | FB506    |                | 00D2350130903         | 00D2350130903    | INDUCTOR   | CHIP EMIFIL(11A121) +1608      |
| 1U-3648B       | FB507    |                | 00D2350130903         | 00D2350130903    | INDUCTOR   | CHIP EMIFIL(11A121) +1608      |
| 1U-3648B       | FB703    |                | 00D2350136907         | 00D2350136907    | INDUCTOR   | FBMJ1608HS280NT +1608          |
| 1U-3648B       | FB704    |                | 00D2350160902         | 00D2350160902    | INDUCTOR   | FB M J2125HM330-T +C           |
| 1U-3648B       | FB705    |                | 00D2350160902         | 00D2350160902    | INDUCTOR   | FB M J2125HM330-T +C           |
| 1U-3648B       | FB706    |                | 00D2350136907         | 00D2350136907    | INDUCTOR   | FBMJ1608HS280NT +1608          |
| 1U-3648B       | FB707    |                | 00D2350160902         | 00D2350160902    | INDUCTOR   | FB M J2125HM330-T +C           |
| 1U-3648B       | FB708    |                | 00D2350160902         | 00D2350160902    | INDUCTOR   | FB M J2125HM330-T +C           |
| 1U-3648B       | IC401    |                | 00D2623217003         | 00D2623217003    | IC         | CXD2753R +C                    |
| 1U-3648B       | IC402    |                | 00D2622875006         | 00D2622875006    | IC         | 16M SDRAM(TSOP)-7/8 +C         |
| 1U-3648B       | IC403    |                | 00D2623195905         | 00D2623195905    | IC         | AD8062-S08 +C                  |
| 1U-3648B       | IC404    |                | 00D2623282009         | 00D2623282009    | IC         | EPM3128ATC100-10N(HARMONY-8LI) |
| 1U-3648B       | IC405    |                | 00D2623203907         | 00D2623203907    | IC         | TC7SHU04F-TE85L +REF           |
| 1U-3648B       | IC406    |                | 00D2623203907         | 00D2623203907    | IC         | TC7SHU04F-TE85L +REF           |
| 1U-3648B       | IC501    |                | 00D2623219001         | 00D2623219001    | IC         | CXD1881AR/BR +C                |
| 1U-3648B       | IC502    |                | 00D2623218002         | 00D2623218002    | IC         | CXD1885Q +C                    |
| 1U-3648B       | IC503    |                | 00D2623409002         | 00D2623409002    | IC         | MSM51V18165F-50TSK-7           |
| 1U-3648B       | IC505    |                | 00D2631109909         | 00D2631109909    | IC         | AN8471SA +C                    |
| 1U-3648B       | IC507    |                | 00D2621782909         | 00D2621782909    | IC         | TC7S08FTE85L +C                |
| 1U-3648B       | IC508    |                | 00D2623221002         | 00D2623221002    | IC         | FAN8042 +C                     |
| 1U-3648B       | IC701    |                | 00D2631079903         | 00D2631079903    | IC         | BA033FP +C                     |
| 1U-3648B       | IC702    |                | 00D2631079903         | 00D2631079903    | IC         | BA033FP +C                     |
| 1U-3648B       | IC703    |                | 00D2622977904         | 00D2622977904    | IC         | BA18BC0FP-E2 +C                |
| 1U-3648B       | IC704    |                | 00D2631182900         | 00D2631182900    | IC         | NJM2391DL1-26-TE1 +REF         |
| 1U-3648B       | IC731    |                | 243010004608M         | 243010004608M    | U-PRO      | M3062LFGPGP-MZ0723             |
| 1U-3648B       | IC732    |                | 00D2623659904         | 00D2623659904    | IC         | IDT71V124SA12TYG8              |
| 1U-3648B       | IC733    |                | 00D2623206904         | 00D2623206904    | IC         | S-80843CLNB-B64-T2 +C          |
| 1U-3648B       | IC734    |                | 00D2623197903         | 00D2623197903    | IC         | TC74VHC74FT-EL +REF            |
| 1U-3648B       | IC735    |                | 00D2623200900         | 00D2623200900    | IC         | TC74VHC00FT-EL +REF            |
| 1U-3648B       | IC736    |                | 00D2623198902         | 00D2623198902    | IC         | TC74VHC157FT-EL +REF           |
| 1U-3648B       | IC737    |                | 00D2623388903         | 00D2623388903    | IC         | AT24C04AN-10SI-1.8 +REF        |
| 1U-3648B       | R-414    |                | nsp                   | 00D2472009983    | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648B       | R-415    |                | nsp                   | 00D2472009983    | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648B       | R-416    |                | nsp                   | 00D2472009983    | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648B       | R-417    |                | nsp                   | 00D2472009983    | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648B       | R-418    |                | nsp                   | 00D2472009983    | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648B       | R-419    |                | nsp                   | 00D2472009983    | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648B       | R-420    |                | nsp                   | 00D2472009983    | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648B       | R-421    |                | nsp                   | 00D2472009983    | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648B       | R-422    |                | nsp                   | 00D2472009983    | CHIP RES.  | RM73B--103JT +1608             |
| 1U-3648B       | R-423    |                | nsp                   | 00D2472008968    | CHIP RES.  | RM73B--332JT +1608             |

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME | DESCRIPTION        |
|----------------|----------|----------------|-----------------------|------------------|-----------|--------------------|
| 1U-3648B       | R-424    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-425    |                | nsp                   | 00D2472008913    | CHIP RES. | RM73B--202JT +1608 |
| 1U-3648B       | R-426    |                | nsp                   | 00D2472008913    | CHIP RES. | RM73B--202JT +1608 |
| 1U-3648B       | R-433    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-435    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-437    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-438    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-439    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-440    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-441    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-442    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-443    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-444    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-445    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-446    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-447    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-448    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-449    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-459    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-460    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-461    |                | nsp                   | 00D2472008942    | CHIP RES. | RM73B--272JT +1608 |
| 1U-3648B       | R-464    |                | nsp                   | 00D2472003989    | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648B       | R-465    |                | nsp                   | 00D2472003989    | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648B       | R-471    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-472    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-473    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-474    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-475    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-476    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-501    |                | nsp                   | 00D2472004988    | CHIP RES. | RM73B--820JT +1608 |
| 1U-3648B       | R-502    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-505    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-506    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-508    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-509    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-510    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-511    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-512    |                | nsp                   | 00D2472007985    | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648B       | R-513    |                | nsp                   | 00D2472007985    | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648B       | R-514    |                | nsp                   | 00D2472007985    | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648B       | R-515    |                | nsp                   | 00D2472007985    | CHIP RES. | RM73B--152JT +1608 |
| 1U-3648B       | R-516    |                | nsp                   | 00D2472004946    | CHIP RES. | RM73B--560JT +1608 |
| 1U-3648B       | R-517    |                | nsp                   | 00D2472004946    | CHIP RES. | RM73B--560JT +1608 |
| 1U-3648B       | R-518    |                | nsp                   | 00D2472004946    | CHIP RES. | RM73B--560JT +1608 |
| 1U-3648B       | R-519    |                | nsp                   | 00D2472004946    | CHIP RES. | RM73B--560JT +1608 |
| 1U-3648B       | R-520    |                | nsp                   | 00D2472004920    | CHIP RES. | RM73B--470JT +1608 |
| 1U-3648B       | R-521    |                | nsp                   | 00D2472004920    | CHIP RES. | RM73B--470JT +1608 |
| 1U-3648B       | R-522    |                | nsp                   | 00D2472004920    | CHIP RES. | RM73B--470JT +1608 |
| 1U-3648B       | R-523    |                | nsp                   | 00D2472004920    | CHIP RES. | RM73B--470JT +1608 |
| 1U-3648B       | R-524    |                | nsp                   | 00D2472012941    | CHIP RES. | RM73B--124JT +1608 |
| 1U-3648B       | R-527    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-528    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-534    |                | nsp                   | 00D2472012941    | CHIP RES. | RM73B--124JT +1608 |
| 1U-3648B       | R-536    |                | nsp                   | 00D2472007943    | CHIP RES. | RM73B--102JT +1608 |
| 1U-3648B       | R-542    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-544    |                | nsp                   | 00D2472007943    | CHIP RES. | RM73B--102JT +1608 |
| 1U-3648B       | R-545    |                | nsp                   | 00D2472019960    | CHIP RES. | RM73B--123FT +1608 |
| 1U-3648B       | R-549    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-550    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-551    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-552    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-553    |                | nsp                   | 00D2472011900    | CHIP RES. | RM73B--333JT +1608 |
| 1U-3648B       | R-554    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-555    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-556    |                | nsp                   | 00D2472007943    | CHIP RES. | RM73B--102JT +1608 |
| 1U-3648B       | R-557    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-558    |                | nsp                   | 00D2472008900    | CHIP RES. | RM73B--182JT +1608 |

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

| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME | DESCRIPTION        |
|----------------|----------|----------------|-----------------------|------------------|-----------|--------------------|
| 1U-3648B       | R-559    |                | nsp                   | 00D2472012925    | CHIP RES. | RM73B--104JT +1608 |
| 1U-3648B       | R-560    |                | nsp                   | 00D2472011942    | CHIP RES. | RM73B--473JT +1608 |
| 1U-3648B       | R-561    |                | nsp                   | 00D2472011984    | CHIP RES. | RM73B--683JT +1608 |
| 1U-3648B       | R-562    |                | nsp                   | 00D2472006960    | CHIP RES. | RM73B--471JT +1608 |
| 1U-3648B       | R-563    |                | nsp                   | 00D2472012967    | CHIP RES. | RM73B--154JT +1608 |
| 1U-3648B       | R-564    |                | nsp                   | 00D2472011942    | CHIP RES. | RM73B--473JT +1608 |
| 1U-3648B       | R-565    |                | nsp                   | 00D2472011968    | CHIP RES. | RM73B--563JT +1608 |
| 1U-3648B       | R-566    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-567    |                | nsp                   | 00D2472003989    | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648B       | R-568    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-570    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-571    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-574    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-577    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-583    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-584    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-585    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-586    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-587    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-588    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-589    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-590    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-591    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-592    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-593    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-594    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-595    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-596    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-597    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-598    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-599    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-601    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-603    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-604    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-605    |                | nsp                   | 00D2472018916    | CHIP RES. | RM73B--010KT +1608 |
| 1U-3648B       | R-606    |                | nsp                   | 00D2472018916    | CHIP RES. | RM73B--010KT +1608 |
| 1U-3648B       | R-607    |                | nsp                   | 00D2472018916    | CHIP RES. | RM73B--010KT +1608 |
| 1U-3648B       | R-608    |                | nsp                   | 00D2472018916    | CHIP RES. | RM73B--010KT +1608 |
| 1U-3648B       | R-609    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-611    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-612    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-613    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-614    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-615    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-616    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-617    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-618    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-620    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-621    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-622    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-623    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-624    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-625    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-626    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-627    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-628    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-629    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-630    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-631    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-632    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-633    |                | nsp                   | 00D2472003947    | CHIP RES. | RM73B--220JT +1608 |
| 1U-3648B       | R-634    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-635    |                | nsp                   | 00D2472003989    | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648B       | R-636    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-637    |                | nsp                   | 00D2472003989    | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648B       | R-638    |                | nsp                   | 00D2472003989    | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648B       | R-639    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |

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| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME | DESCRIPTION        |
|----------------|----------|----------------|-----------------------|------------------|-----------|--------------------|
| 1U-3648B       | R-640    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-641    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-642    |                | nsp                   | 00D2472003989    | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648B       | R-643    |                | nsp                   | 00D2472003989    | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648B       | R-644    |                | nsp                   | 00D2472003989    | CHIP RES. | RM73B--330JT +1608 |
| 1U-3648B       | R-645    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-646    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-647    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-649    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-650    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-651    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-652    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-653    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-654    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-655    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-656    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-657    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-658    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-659    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-666    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-667    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-668    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-669    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-670    |                | nsp                   | 00D2472009912    | CHIP RES. | RM73B--512JT +1608 |
| 1U-3648B       | R-671    |                | nsp                   | 00D2472011968    | CHIP RES. | RM73B--563JT +1608 |
| 1U-3648B       | R-672    |                | nsp                   | 00D2472011968    | CHIP RES. | RM73B--563JT +1608 |
| 1U-3648B       | R-673    |                | nsp                   | 00D2472011968    | CHIP RES. | RM73B--563JT +1608 |
| 1U-3648B       | R-674    |                | nsp                   | 00D2472011900    | CHIP RES. | RM73B--333JT +1608 |
| 1U-3648B       | R-675    |                | nsp                   | 00D2472011900    | CHIP RES. | RM73B--333JT +1608 |
| 1U-3648B       | R-676    |                | nsp                   | 00D2472010985    | CHIP RES. | RM73B--273JT +1608 |
| 1U-3648B       | R-677    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-678    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-679    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-680    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-681    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-682    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-683    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-684    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-685    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-686    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-687    |                | nsp                   | 00D2472013982    | CHIP RES. | RM73B--474JT +1608 |
| 1U-3648B       | R-688    |                | nsp                   | 00D2472008926    | CHIP RES. | RM73B--222JT +1608 |
| 1U-3648B       | R-689    |                | nsp                   | 00D2472007943    | CHIP RES. | RM73B--102JT +1608 |
| 1U-3648B       | R-690    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-691    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-692    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-693    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-694    |                | nsp                   | 00D2472005903    | CHIP RES. | RM73B--101JT +1608 |
| 1U-3648B       | R-699    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-732    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-733    |                | nsp                   | 00D2472009941    | CHIP RES. | RM73B--682JT +1608 |
| 1U-3648B       | R-734    |                | nsp                   | 00D2472009967    | CHIP RES. | RM73B--822JT +1608 |
| 1U-3648B       | R-735    |                | nsp                   | 00D2472008984    | CHIP RES. | RM73B--392JT +1608 |
| 1U-3648B       | R-736    |                | nsp                   | 00D2472005987    | CHIP RES. | RM73B--221JT +1608 |
| 1U-3648B       | R-737    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-739    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-741    |                | nsp                   | 00D2472018903    | CHIP RES. | RM73B--0R0KT +1608 |
| 1U-3648B       | R-743    |                | nsp                   | 00D2472009925    | CHIP RES. | RM73B--562JT +1608 |
| 1U-3648B       | R-744    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-745    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-746    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-747    |                | nsp                   | 00D2472010969    | CHIP RES. | RM73B--223JT +1608 |
| 1U-3648B       | R-748    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-749    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-750    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-751    |                | nsp                   | 00D2472009983    | CHIP RES. | RM73B--103JT +1608 |
| 1U-3648B       | R-752    |                | nsp                   | 00D2472007943    | CHIP RES. | RM73B--102JT +1608 |

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| P.W.B.<br>NAME | POS. NO. | VERS.<br>COLOR | PART NO.<br>(FOR EUR) | PART NO.<br>(MZ) | PART NAME                                  | DESCRIPTION                      |
|----------------|----------|----------------|-----------------------|------------------|--------------------------------------------|----------------------------------|
| 1U-3648B       | R-753    |                | nsp                   | 00D2472007943    | CHIP RES.                                  | RM73B--102JT +1608               |
| 1U-3648B       | R-754    |                | nsp                   | 00D2472007943    | CHIP RES.                                  | RM73B--102JT +1608               |
| 1U-3648B       | R-762    |                | nsp                   | 00D2472009983    | CHIP RES.                                  | RM73B--103JT +1608               |
| 1U-3648B       | R-763    |                | nsp                   | 00D2472010969    | CHIP RES.                                  | RM73B--223JT +1608               |
| 1U-3648B       | R-766    |                | nsp                   | 00D2472010969    | CHIP RES.                                  | RM73B--223JT +1608               |
| 1U-3648B       | R-767    |                | nsp                   | 00D2472003989    | CHIP RES.                                  | RM73B--330JT +1608               |
| 1U-3648B       | R-768    |                | nsp                   | 00D2472003989    | CHIP RES.                                  | RM73B--330JT +1608               |
| 1U-3648B       | R-769    |                | nsp                   | 00D2472003989    | CHIP RES.                                  | RM73B--330JT +1608               |
| 1U-3648B       | R-770    |                | nsp                   | 00D2472003989    | CHIP RES.                                  | RM73B--330JT +1608               |
| 1U-3648B       | R-771    |                | nsp                   | 00D2472003989    | CHIP RES.                                  | RM73B--330JT +1608               |
| 1U-3648B       | R-772    |                | nsp                   | 00D2472003989    | CHIP RES.                                  | RM73B--330JT +1608               |
| 1U-3648B       | R-773    |                | nsp                   | 00D2472003989    | CHIP RES.                                  | RM73B--330JT +1608               |
| 1U-3648B       | R-774    |                | nsp                   | 00D2472003989    | CHIP RES.                                  | RM73B--330JT +1608               |
| 1U-3648B       | RA401    |                | nsp                   | 00D2479003908    | CHIP RES.                                  | MNR14=220JE0AB +C                |
| 1U-3648B       | RA402    |                | nsp                   | 00D2479003908    | CHIP RES.                                  | MNR14=220JE0AB +C                |
| 1U-3648B       | RA501    |                | nsp                   | 00D2479007917    | CHIP RES.                                  | MNR14=103JE0 +C                  |
| 1U-3648B       | RA502    |                | nsp                   | 00D2479007917    | CHIP RES.                                  | MNR14=103JE0 +C                  |
| 1U-3648B       | RA503    |                | nsp                   | 00D2479007917    | CHIP RES.                                  | MNR14=103JE0 +C                  |
| 1U-3648B       | RA504    |                | nsp                   | 00D2479007917    | CHIP RES.                                  | MNR14=103JE0 +C                  |
| 1U-3648B       | TR511    |                | 00D2720166905         | 00D2720166905    | TRS.                                       | 2SB798(DL/DK)-T1 +C              |
| 1U-3648B       | TR512    |                | 00D2720166905         | 00D2720166905    | TRS.                                       | 2SB798(DL/DK)-T1 +C              |
| 1U-3648B       | X-731    |                | 00D3990887903         | 00D3990887903    | X'TAL                                      | CSTCE16MOV53-R0 +2125            |
|                |          |                |                       |                  | <b>TRAY DRIVE PWB PM16 (00MWG27AK801-)</b> |                                  |
| PM16           | CM01     |                | 00D2574010906         | 00D2574010906    | ELECT CAP.                                 | EMV-160ADA101MH63G (100UF/16V)   |
| PM16           | CM02     |                | nsp                   | 00D2570512903    | CHIP CAP.                                  | GRM39F104Z16 0.1UF MURATA        |
| PM16           | CM04     |                | nsp                   | 00D2570512903    | CHIP CAP.                                  | GRM39F104Z16 0.1UF MURATA        |
| PM16           | CM05     |                | 00D2544465921         | 00D2544465921    | ELECT CAP.                                 | EMV-160ADA100MD55G (10UF/16V)    |
| PM16           | CM06     |                | nsp                   | 00D2570512903    | CHIP CAP.                                  | GRM39F104Z16 0.1UF MURATA        |
| PM16           | CM07     |                | 00D2544471902         | 00D2544471902    | ELECT CAP.                                 | EMV-350ADA4R7MD55G (4.7UF/35V)   |
| PM16           | JM01     |                | nsp                   | nsp              | CONN.                                      | S5B-PH-SM4-TB (LF) (SN)          |
| PM16           | JM02     |                | nsp                   | nsp              | CONN.                                      | S5B-PH-SM4-TB (LF) (SN)          |
| PM16           | JM03     |                | nsp                   | nsp              | CONN.                                      | 13FMN-SMT-A-TF (LF) (SN)         |
| PM16           | JM04     |                | nsp                   | nsp              | CONN.                                      | S4B-PH-SM4-TB (LF) (SN)          |
| PM16           | QM01     |                | 00D2631011903         | 00D2631011903    | IC                                         | NJM3414AM-TE DUAL                |
| PM16           | QM02     |                | 00D2720166905         | 00D2720166905    | TRS.                                       | 2SB798-T1 (DL OR DK)             |
| PM16           | QM03     |                | 00D2740204902         | 00D2740204902    | TRS.                                       | 2SD999-T1 (CL OR CM)             |
| PM16           | QM04     |                | 00D2740204902         | 00D2740204902    | TRS.                                       | 2SD999-T1 (CL OR CM)             |
| PM16           | QM05     |                | 00D2720166905         | 00D2720166905    | TRS.                                       | 2SB798-T1 (DL OR DK)             |
| PM16           | QM06     |                | 00D2730470908         | 00D2730470908    | TRS.                                       | 2SC4116-Y OR GR-TE85L            |
| PM16           | QM07     |                | 00D2730470908         | 00D2730470908    | TRS.                                       | 2SC4116-Y OR GR-TE85L            |
| PM16           | RM01     |                | nsp                   | 00D2472011968    | CHIP RES.                                  | RPC05T-563J (56K OHM +5% 1/10W)  |
| PM16           | RM02     |                | nsp                   | 00D2472012925    | CHIP RES.                                  | RPC05T-104J (100K OHM +5% 1/10W) |
| PM16           | RM03     |                | nsp                   | 00D2472012925    | CHIP RES.                                  | RPC05T-104J (100K OHM +5% 1/10W) |
| PM16           | RM04     |                | nsp                   | 00D2472012925    | CHIP RES.                                  | RPC05T-104J (100K OHM +5% 1/10W) |
| PM16           | RM05     |                | nsp                   | 00D2472011968    | CHIP RES.                                  | RPC05T-563J (56K OHM +5% 1/10W)  |
| PM16           | RM06     |                | nsp                   | 00D2472006986    | CHIP RES.                                  | RPC05T-561J (560 OHM +5% 1/10W)  |
| PM16           | RM07     |                | nsp                   | 00D2472006960    | CHIP RES.                                  | RPC05T-471J (470 OHM +5% 1/10W)  |
| PM16           | RM08     |                | nsp                   | 00D2472011942    | CHIP RES.                                  | RPC05T-473J (47K OHM +5% 1/10W)  |
| PM16           | RM09     |                | nsp                   | 00D2472011942    | CHIP RES.                                  | RPC05T-473J (47K OHM +5% 1/10W)  |
| PM16           | RM10     |                | nsp                   | 00D2472010969    | CHIP RES.                                  | RPC05T-223J (22K OHM +5% 1/10W)  |
| PM16           | RM11     |                | nsp                   | 00D2472012925    | CHIP RES.                                  | RPC05T-104J (100K OHM +5% 1/10W) |
| PM16           | RM12     |                | nsp                   | 00D2472008926    | CHIP RES.                                  | RPC05T-222J (2.2K OHM +5% 1/10W) |
| PM16           | RM13     |                | nsp                   | 00D2472008926    | CHIP RES.                                  | RPC05T-222J (2.2K OHM +5% 1/10W) |
| PM16           | RM15     |                | nsp                   | 00D2472006986    | CHIP RES.                                  | RPC05T-561J (560 OHM +5% 1/10W)  |
| PM16           | RM16     |                | nsp                   | 00D2472006960    | CHIP RES.                                  | RPC05T-471J (470 OHM +5% 1/10W)  |
| PM16           | RM17     |                | nsp                   | 00D2472006960    | CHIP RES.                                  | RPC05T-471J (470 OHM +5% 1/10W)  |
| PM16           | RM18     |                | nsp                   | 00D2472001949    | CHIP RES.                                  | RPC05T-3R3J (3.3 OHM +5% 1/10W)  |
| PM16           | RM19     |                | nsp                   | 00D2472001949    | CHIP RES.                                  | RPC05T-3R3J (3.3 OHM +5% 1/10W)  |
| PM16           | RM20     |                | nsp                   | 00D2472001949    | CHIP RES.                                  | RPC05T-3R3J (3.3 OHM +5% 1/10W)  |
| PM16           | RM21     |                | nsp                   | 00D2472001949    | CHIP RES.                                  | RPC05T-3R3J (3.3 OHM +5% 1/10W)  |
| PM16           | RM22     |                | nsp                   | 00D2472009983    | CHIP RES.                                  | RPC05T-103J (10K OHM +5% 1/10W)  |
| PM16           | RM23     |                | nsp                   | 00D2472007943    | CHIP RES.                                  | RPC05T-102J (1K OHM +5% 1/10W)   |

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