DENON

For U.S.A. & Canada model

Ver. 1

SERVICE MANUAL

MODEL DVD-5910

DVD AUDIO-VIDEO / SUPER AUDIO PLAYER

注　意

サービスをおこなう前に、このサービスマニュアルを必ずお読みください。本機は、火災、感電、けがなどに対する安全性を確保するために、さまざまな配慮をおこなっており、また法的には「電気用品安全法」にもとづき、所定の許可を得て製造されております。
従ってサービスをおこなう際は、これらの安全性が維持されるよう、このサービスマニュアルに記載されている注意事項を必ずお守りください。

- **For purposes of improvement, specifications and design are subject to change without notice.**
- ● 本機の仕様は性能改良のため、予告なく変更することがあります。
- ● 補修用性能部品の保有期間は、製造打切後8年です。

- **Please use this service manual with referring to the operating instructions without fail.**
- ● 修理の際は、必ず取扱説明書を参照の上、作業を行ってください。

- **Some illustrations using in this service manual are slightly different from the actual set.**
- ● 本文中に使用しているイラストは、説明の都合上現物と多少異なる場合があります。

DENON, Ltd.

TOKYO JAPAN

X0223-1V.01 DE/CDM 0412

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

LASER RADIATION

Do not stare into beam or view directly with optical instruments, class 3A laser product.

注　意　サービス、点検時には次のことにご注意願います。

◉注意事項をお守りください！

サービスのとき特に注意を必要とする個所については、キャビネット、部品、シャーシなどにラベルや捺印で、注意事項を表示しています。これらの注意書きおよび取扱説明書などの注意事項を必ずお守りください。

◉感電に注意！

(1) このセットは、交流電圧が印加されていますので、通電時に内部金属部に触れると感電することがあります。従って通電サービス時には、絶縁トランスの使用や手袋の着用、部品交換には、電源プラグを抜くなどして、感電にご注意ください。

(2) 内部には、高電圧の部分がありますので、通電時の取扱には、十分ご注意ください。

◉指定部品の使用！

セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は、使用されていたものと同じ特性の部品を使用してください。特に配線図、部品表に⚠印で指定されている安全上重要な部品は必ず指定のものをご使用ください。

◉部品の取付けや配線の引きまわしは、元どおりに！

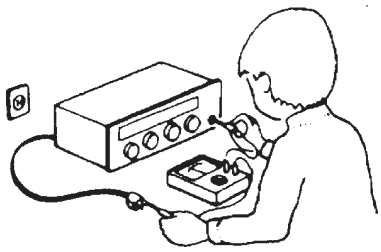
安全上、テープやチューブなどの絶縁材料を使用したり、プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパーによって発熱部品や高圧部品に接近しないように配慮されていますので、これらは必ず元どおりにしてください。

◉サービス後は安全点検を！

サービスのために取り外したねじ、部品、配線などが元どおりになっているか、またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し、外部金属端子部と、電源プラグの刃の間の絶縁チェックをおこなうなど、安全性が確保されていることを確認してください。

（絶縁チェックの方法）

電源コンセントから電源プラグを抜き、アンテナや、プラグなどを外し、電源スイッチを入れます。500V絶縁抵抗計を用いて、電源プラグのそれぞれの端子と、外部露出金属部〔アンテナ端子、ヘッドホン端子、マイク端子、入力端子など〕との間で、絶縁抵抗値が1MΩ以上であること、この値以下のときは、セットの点検修理が必要です。



注　意　安全上重要な部品について

本機に使用している多くの電気部品、および機構部品は安全上、特別な特性を持っています。この特性はほとんどの場合、外観では判別つきにくく、また、もとの部品より高い定格（定格電力、耐圧）を持ったものを使用しても安全性が維持されるとは、限りません。安全上の特性を持った部品は、このサービスマニュアルの配線図、部品表につぎのように表示していますので、必ず指定されている部品番号のものを使用願います。

(1)配線図…　⚠マークで表示しています。

(2)部品表…　⚠マークで表示しています。
指定された部品と異なるものを使用した場合には、感電、火災などの危険を生じる恐れがあります。

WIRE ARRANGEMENT

If wire bundles are untied or moved to perform adjustment or parts replacement etc.,be sure to rearrange them neatly as they were originally bundled or placed afterward. Otherwise, incorrect arrangement can be a cause of noise generation.

Wire arrangement viewed from the top

ワイヤー整形図

調整や部品の交換等により、ワイヤー類の結束をはずしたり移動させた場合には、それらの作業が完了した時点でワイヤーの整形をおこなってください。正しく整形されていないとノイズ発生の原因となることがあります。

上面からみたワイヤー整形

Front Panel side

DISASSEMBLY

(Follow the procedure below in reverse order when reassembling.)

1. Top Cover

(1) Remove 2 rear screws (s1) and 8 top screws (s2), then detach the Top cover.

(2) Remove 2 side screws (s3) and 3 top screws (s4), then detach the Side cover(L).

(3) Remove 2 side screws (s5) and 3 top screws (s6), then detach the Side cover(R).

各部のはずしかた

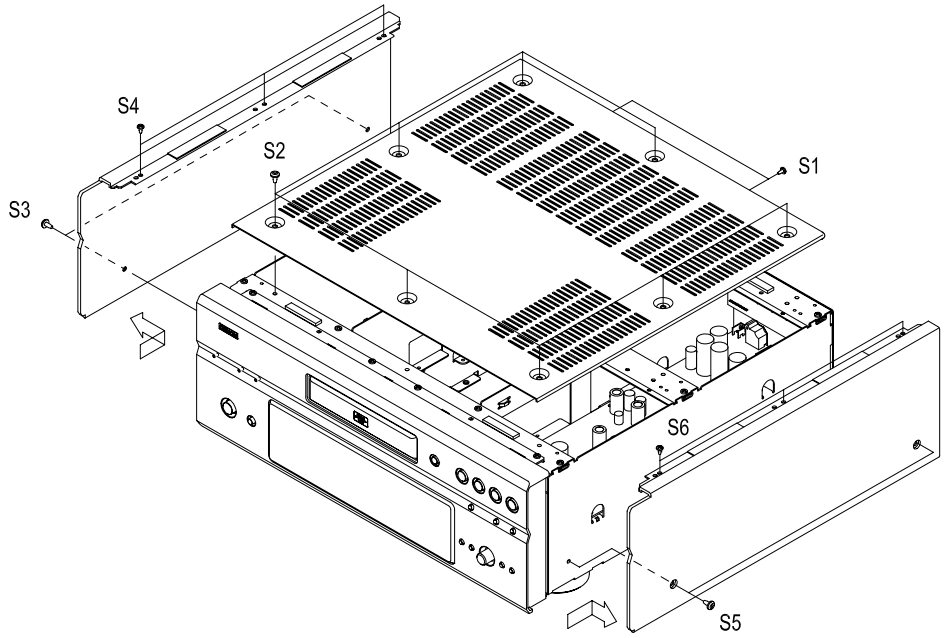
（組み立てるときは、逆の順序で行ってください。）

1. Top Cover

(1) 背面側からネジ s1 を 2 本と、天面からネジ s2 を 8 本はずし、TOP COVER をはずします。

(2) 側面側からネジ s3 を 2 本と、天面からネジ s4 を 3 本はずし、SIDE COVER(L) をはずします。

(3) 側面側からネジ s5 を 2 本と、天面からネジ s6 を 3 本はずし、SIDE COVER(R) をはずします。



2. Front Panel sub Ass'y

2.1. When the Disc tray can be ejected electrically.

(1) Switch on, and press [OPEN/CLOSE] button to open the Disc tray.

(2) Detach the Loader panel ass'y (c1) by lifting.

(3) Close the Disc tray.

(4) Disconnect the wires [CX026] [CX035] from the Front panel sub ass'y (a1).

(5) Remove 4 top screws (s1) and 4 bottom screws (s1), then detach the Front panel sub ass'y (a1).

(6) Disconnect the FFC [CX211] from the Front panel sub ass'y (a1).

(7) Remove 4 top screws (s2), then detach the Angle (m1).
(Note: This Angle provide on Front and Rear.)

(8) Remove both 2 top screws (s3) and (s4), then detach the Angle (m2).
(Note: The 2 top screws of s4 provide only Japan model.)

2.2. When the Disc tray cannot be ejected electrically.

(1) Insert a driver into the side hole of DVD Mechanism, and push the Plate Gear of the DVD Mechanism, to open the Disc Tray. (Arrow direction)

(2) The same steps described on 2-1.(2)~(8).

2. Front Panel sub Ass'y

2.1. ディスクトレイが電動でオープン出来る場合

(1) 電源を入れ「 OPEN/CLOSE 」ボタンを押して、ディスクトレイを開きます。

(2) c1：Loader panel ass'y を持ち上げてはずします。

(3) ディスクトレイを閉じます。

(4) a1：Front panel sub ass'y からのワイヤー [CX026] [CX035] をはずします。

(5) 天・底面からネジ s1 各 4 本をはずし、a1：Front panel sub ass'y をはずします。

(6) a1：Front panel sub ass'y からの FFC[CX211] をはずします。

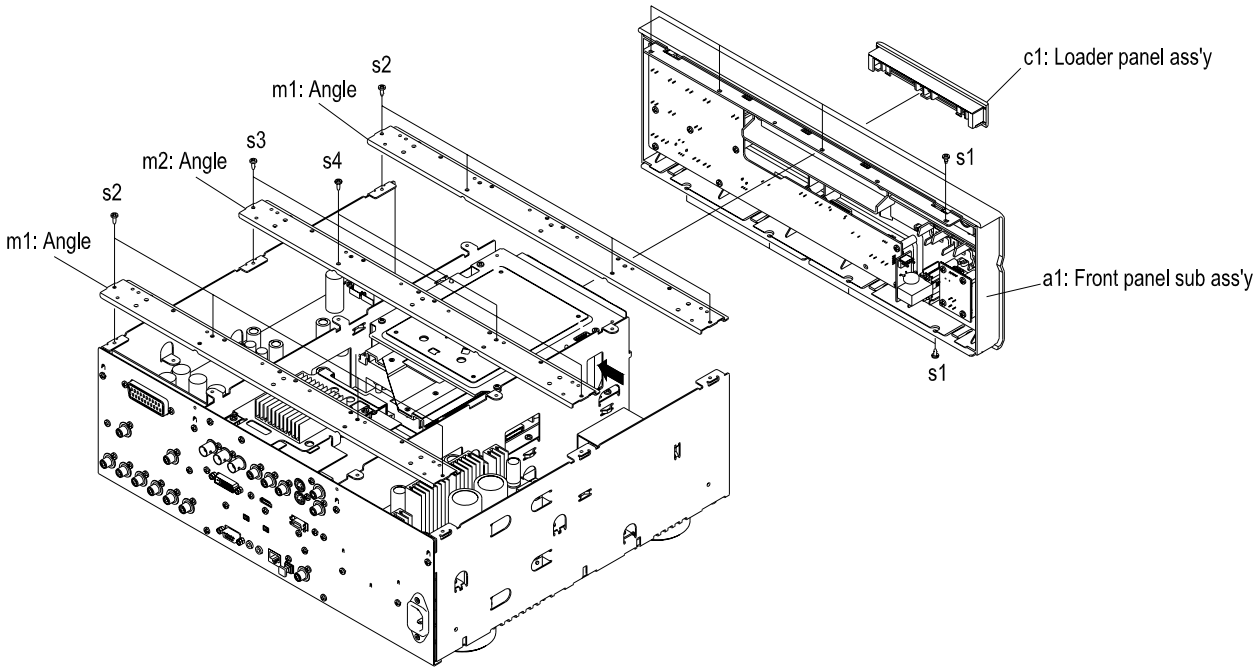
(7) 天面からネジ s2 を各 4 本をはずし、m1：Angle を 2 個はずします。

(8) 天面からネジ s3 を 2 本、ネジ s4 を 2 本はずし (日本向けは、s3 のネジ 2 本のみ)、m2：Angle をはずします。

2.2. ディスクトレイが電動でオープン出来ない場合

(1) メカユニット側面の孔よりドライバー等を挿し込みメカユニットのプレートギアを押してディスクトレイを開きます。(矢印方向)

(2) 2-1.(2) 〜 (8) の作業に同じ



3. DVD mechanism Ass'y

(1) Remove 4 top screws (s1).

(2) Disconnect the wires [CY251] [CY301] [CY171] [CX331] [CY101] connecting the MAIN P.W.B.(GU-3618).

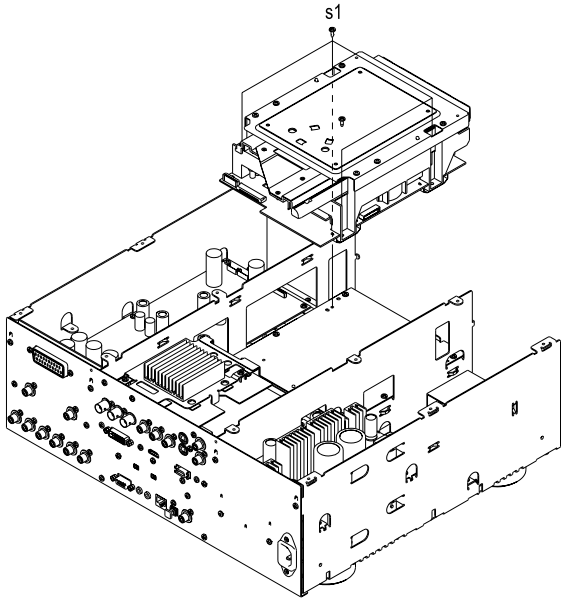
(3) Detach the DVD mechanism ass'y.

3. DVD mechanism Ass'y

(1) 天面側からネジ s1 を 4 本はずします。

(2) メイン基板 (GU-3618) よりワイヤー [CY251] [CY301] [CY171][CX331] [CY101] をはずします。

(3) DVD mechanism ass'y をはずします。



4. Analog Power unit / Power trans

4.1. Power trans

(1) Disconnect the wire [CX025] connecting Digital Power unit(GU-3656-2).

(2) Disconnect the wire [CX062] connecting Analog Power unit(GU-3656-1).

(3) Remove 2(Japan: 4) top screws (s1).

(4) Detach the Power trans (m1).

4.2. Analog Power unit

(1) Disconnect the wire [CX031] [CX032] [CX042] [CX037] connecting Analog Power unit(GU-3656-1).

(2) Remove 4 top screws (s2), then detach the Analog Power unit (u1).

(3) Remove 4 top screws (s3), then detach the Shield plate (m2).

4. Analog Power unit / Power trans

4.1. Power Trans

(1) Digital Power unit(GU-3656-2) よりワイヤー [CX025] をはずします。

(2) Analog Power unit(GU-3656-1) よりワイヤー [CX062] をはずします。

(3) 天面側からネジ s1 を 2 本 (日本向けは 4 本) はずします。

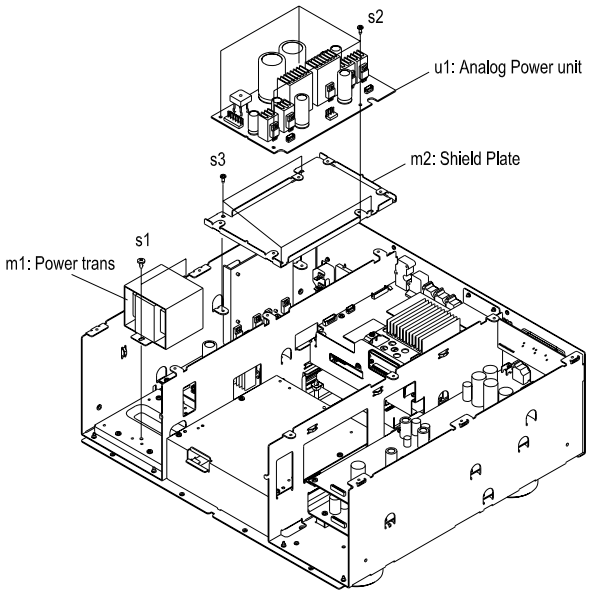
(4) m1:Power trans をはずします。

4.2. Analog Power unit

(1) Analog Power unit(GU-3656-1) よりワイヤー [CX031][CX032][CX042][CX037] をはずします。

(2) 天面側からネジ s2 を 4 本はずし、u1:Analog Power unit をはずします。

(3) 天面側からネジ s3 を 4 本はずし、m2:Shield Plate をはずします。



5. Digital Power unit

5.1. Digital Power unit

(1) Remove 2 side screws (s1).

(2) Disconnect the wires [CX024] [CX081] [CX101] [CX121] [CX063] connecting Digital Power unit.

(3) Remove 4 top screws (s2), then detach the Digital Power unit (u1).

5.2. 1.5V Power unit

(1) Remove 2 rear screws (s3).

(2) Disconnect the wire [CX059] connecting 1.5V Power unit.

(3) Remove 1 top screw (s4), then detach the 1.5V Power unit (u2).

(4) Remove 2 rear screws (s5), then detach the AC Inlet (m1).

5. Digital Power unit

5.1. Digital Power unit

(1) 側面側からネジ s1 を 2 本をはずします。

(2) Digital Power unit からワイヤー [CX024][CX081][CX101][CX121][CX063] をはずします。

(3) 天面側から s2 のネジ 4 本をはずし、u1:Digital Power unit をはずします。

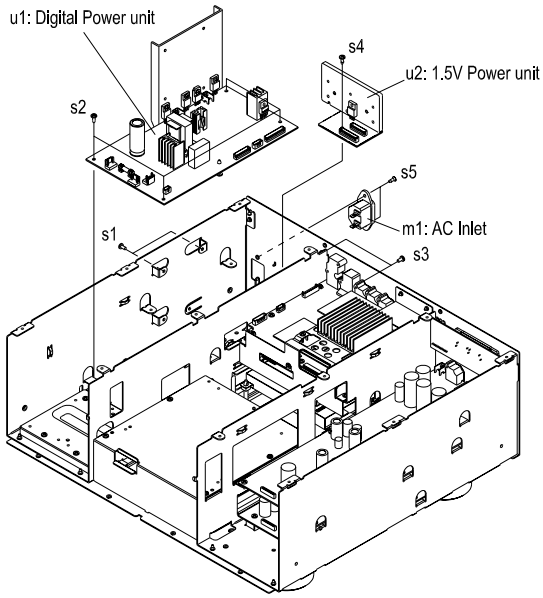
5.2. 1.5V Power unit

(1) 背面側から s3 のネジ 2 本をはずします。

(2) 1.5V Power unit からワイヤー [CX059] をはずします。

(3) 天面側から s4 のネジ 1 本をはずし、u2:1.5V Power unit をはずします。

(4) 背面側から s5 のネジ 2 本をはずし、m1:AC Inlet をはずします。



6. Video Unit

(1) Disconnect the wire [CY059] connecting the I/P unit, the FFC [CY331] and the wires [CY081] [CX031] [CX102] connecting the Video2 unit, the FFC [CX174] connecting the Video1 unit.
(Note: The wire [CX102] only Europe & China model.)

(2) Remove 9 screws (s1), 6 screws (s2), 2 screws (s3) and 1 screw (s4) on the rear side.
(Note: The 1 screw of s4 provide only Japan model.)

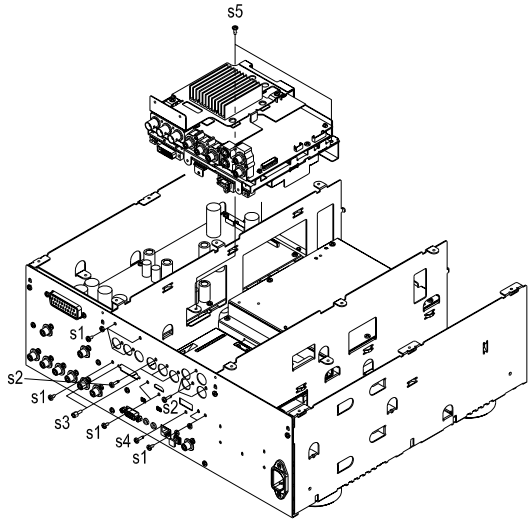
(3) Remove 2 top screws (s5), then detach the Video unit.

6. Video unit

(1) I/P unit からワイヤー [CY059]、Video2 unit から FFC[CY331] とワイヤー [CY081],[CX031]、(E2、E1C 仕向けは、さらに [CX102])、Video1 unit から FFC[CX174] をはずします。

(2) 背面側からネジ s1 を 9 本、ネジ s2 を 6 本、ネジ s3 を 2 本、(日本向けのみ、ネジ s4 を 1 本) はずします。

(3) 天面側からネジ s5 を 2 本はずし、Video unit をはずします。



7. IEEE1394 unit / System unit

7.1. IEEE1394 unit

(1) Disconnect the FFCs [CY191] [CY173] from the IEEE1394 unit.

(2) Remove 2 rear screws (s1) and 1 side screw (s2).

(3) Remove Locking Card Spacer, then detach the IEEE1394 unit.

7.2. System unit

(1) Remove 2 top screws (s3), then detach the EMC Angle (m1). (This EMC Angle provide only U.S.A. & Canada model.)

(2) Remove 4 top screws (s4), then detach the Mecha Base (m2).

(3) Remove 2 screws (s5), 2 screws (s6) on the rear side.

(4) Remove 6 top screws (s7), then detach the System unit.

7. IEEE1394 unit / System unit

7.1. IEEE1394 unit

(1) IEEE1394 unit から FFC[CY191][CY173] をはずします。

(2) 背面側からネジ s1 を 2 本、天面側からネジ s2 を 1 本はずします。

(3) Locking Card Spacer をはずし、IEEE1394 unit をはずします。

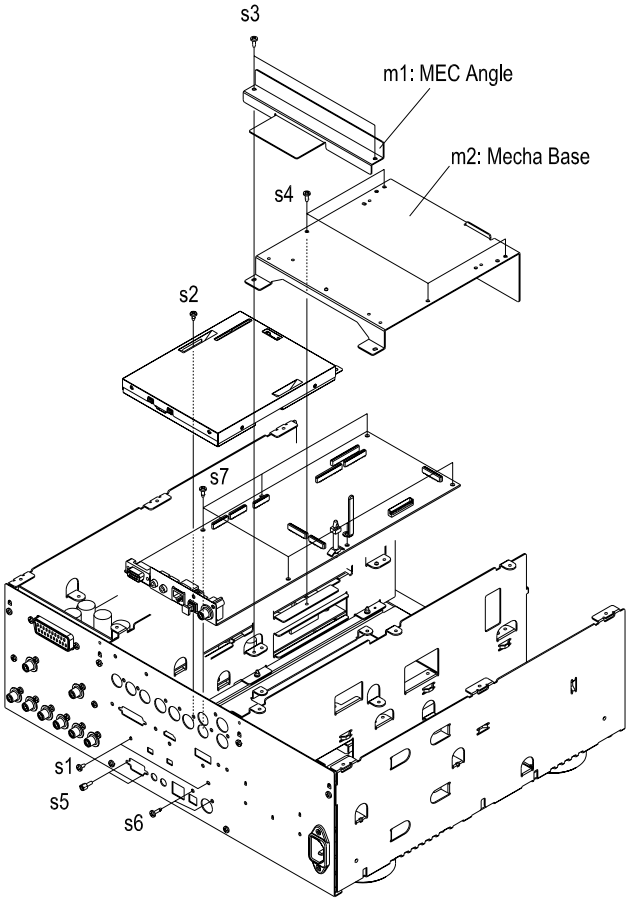
7.2. System unit

(1) 天面側からネジ s3 を 2 本はずし、m1:EMC Angle をはずします。(EMC Angle は E3 向けのみ付いています。)

(2) 天面側からネジ s4 を 4 本はずし、m2:Mecha Base をはずします。

(3) 背面側からネジ s5 を 2 本、ネジ s6 を 2 本はずします。

(4) 天面側からネジ s7 を 6 本はずし、System unit をはずします。



8. SCART unit / Audio unit

8.1. SCART unit (for Europe & China model only.)

(1) Remove 2 rear screws (s1), then detach the SCART unit (u1).

8.2. Mix Audio unit

(1) Disconnect the FFC [CY192] and the wire [CX053] [CY042] from the Mix Audio unit (u2).

(2) Remove 2 screws (s2), 2 screws (s3) on the rear side.

(3) Remove 4 top screws (s4), then detach the Mix Audio unit (u2).

8.3. 5.1Ch Audio unit

(1) Remove 6 rear screws (s5).

(2) Remove 4 top screws (s6), then detach the 5.1ch Audio unit (u3).

8. SCART unit / Audio unit

8.1. SCART unit (E2,E1C 向けのみ)

(1) 背面側からネジ s1 を 2 本はずし、u1:SCART unit をはずします。

8.2. Mix Audio unit

(1) u2:Mix Audio unit から FFC[CY192] とワイヤー [CX053][CY042] をはずします。

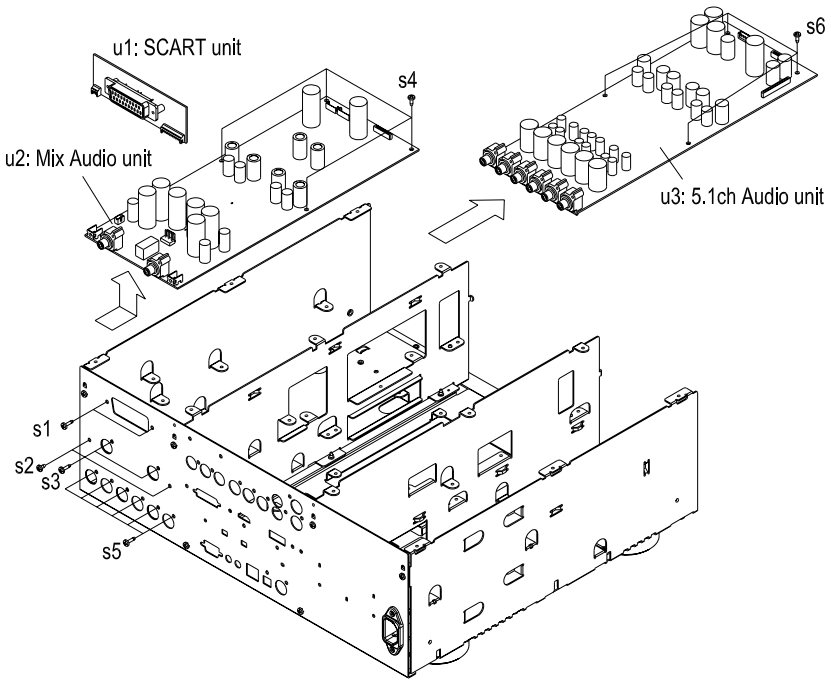
(2) 背面側からネジ s2 を 2 本、ネジ s3 を 2 本はずします。

(3) 天面側からネジ s4 を 4 本はずし、u2:Mix Audio unit をはずします。

8.3. 5.1Ch Audio unit

(1) 背面側からネジ s5 を 6 本はずします。

(2) 天面側からネジ s6 を 4 本はずし、u3:5.1ch Audio unit をはずします。



9. I/P unit

9.1. Support bracket

(1) Remove 2 top screws (s1) and 3 side screws (s2), then detach the Support bracket (m1).

9.2. I/P unit

(1) Release the I/p unit (u1) from 2 Locking card spacers.

(2) Disconnect the wire [Board to Board], then detach the I/P unit (u1) to the arrow direction.

9. I/P unit

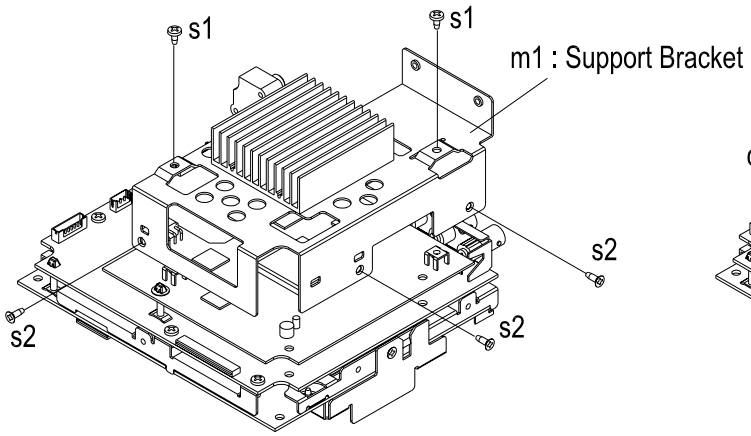
9.1. Support bracket

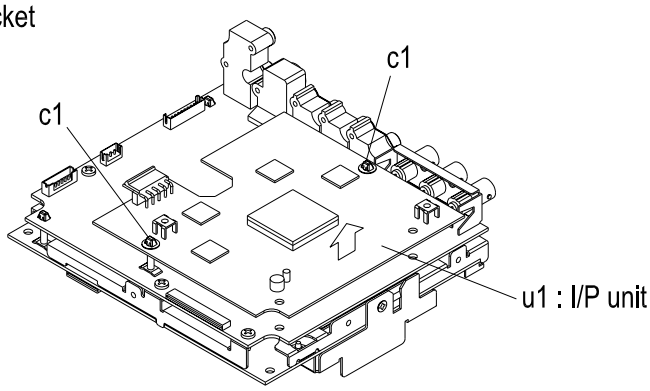
(1) 上面からネジ s1 を 2 本と、側面からネジ s2 を 3 本はずし、m1:Support bracket をはずします。

9.2. I/P unit

(1) c1:Locking card spacer を 2 箇所はずします。

(2) Board to Board のコネクタをはずしながら、u1:I/P unit を上方向にはずします。





10. Video unit

10.1. Video 1 unit

(1) Remove 3 top screws (s1).

(2) Release the Video 1 unit (u1) from 2 Locking card spacers.

(3) Disconnect the wire [Board to Board], then detach the Video 1 unit (u1) to the arrow direction.

10.2. Support Bridge

(1) Turn over the unit.

(2) Detach 2 Locking card spacers (c2).

(3) Remove 3 top screws (s2).

(4) Remove 1 side screw (s3), then detach the Support bridge (m1).

10. Video unit

10.1. Video1 unit

(1) 上面からネジ s1 を 3 本はずします。

(2) c1:Locking card spacer を 2 箇所はずします。

(3) Board to Board のコネクタをはずしながら、u1:Video1 unit を上方向にはずします。

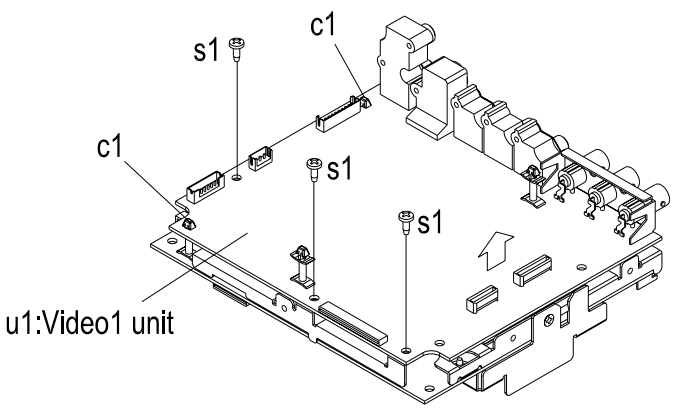
10.2. Support Bridge

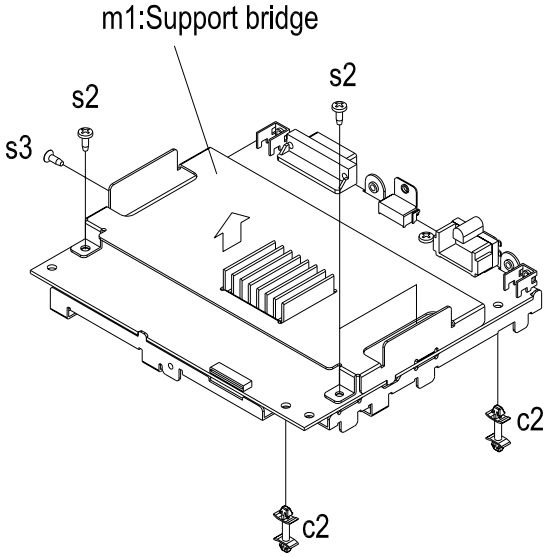
(1) ユニットを反転します。

(2) c2:Locking card spacer を 2 箇所はずします。

(3) 上面からネジ s2 を 3 本はずします。

(4) 側面からネジ s3 を 1 本はずし、m1:Support bridge をはずします。





Iop Measurement (Judging for Traverse Unit Replacement)

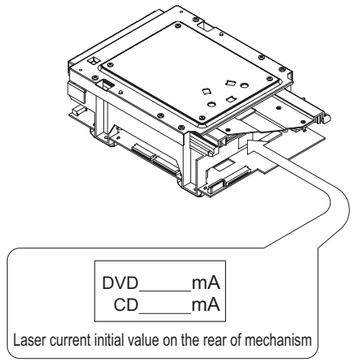
As to deciding whether optical pickup is defect or not (for replacing traverse unit), follow the steps below.

1. Judging Step

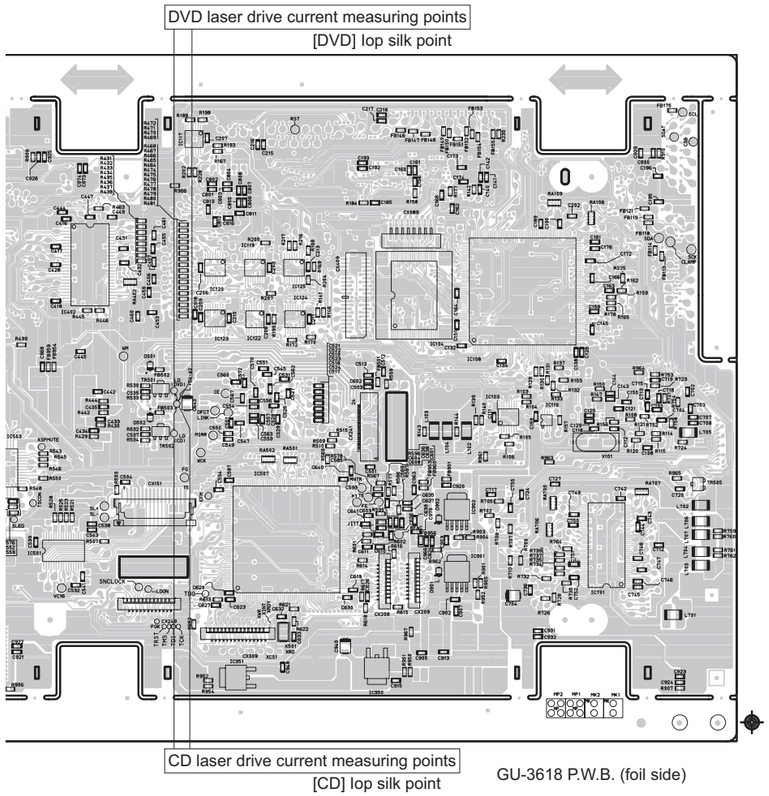
(1) Disc play abnormal
Problems such as disc no read, unsteady playback, etc.

(2) Laser drive current (Iop) check.
Check Iop according to the measuring method described in step 2 below.
If the checked value is 1.5 times or more than the initial Iop indicated on the rear of mechanism unit, the traverse unit should be replaced.

(3) Replacing traverse unit
Referring to “How to Replace Traverse Unit”, replace the traverse unit.
No mechanism adjustment is required as the whole unit is replaced with a new one.



2. Iop Measuring Method



(1) DVD laser drive current measurement
- Playback the title-1/chapter-1 of DVDT-S01 or commercially available DVD disc.
- Connect an oscilloscope to the test point above and measure the voltage.
- DVD laser drive current is calculated by:
  Iop = Measured Voltage Value / 14 (Resistance Value)

(2) CD laser drive current measurement
- Playback the track-1 of TCD-784 or commercially available CD disc.
- Connect an oscilloscope to the test point above and measure the voltage.
- CD laser drive current is calculated by:
  Iop = Measured Voltage Value / 12 (Resistance Value)

Iop 測定（トラバースユニット交換判定）

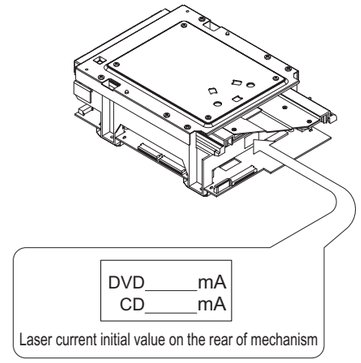
光ピックアップの故障（トラバースユニットの交換）判定は、下記の手順でおこなってください。

1. 判定手順

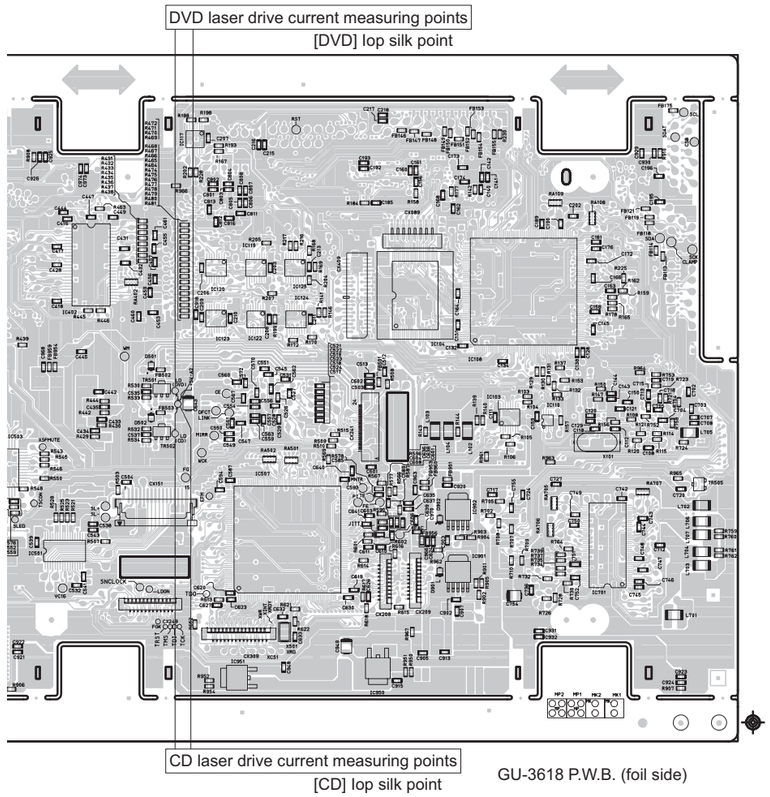
(1) ディスク再生不具合
ディスクを読み込まない、スムーズに再生しない等の不具合発生

(2) レーザー駆動電流（Iop）の確認
下記、2 項の Iop 測定方法に従い電流値を確認する。
メカ背面のレーザー電流初期値の 1.5 倍以上になっている場合は、
トラバースユニット交換の目安となります。

(3) トラバースユニット交換
「トラバースユニットのはずしかた」を参照して、トラバースユニットを
交換します。
トラバースユニット単位での交換となりますので、メカ部の調整は不要です。



2. Iop の測定方法



(1) DVD レーザー駆動電流の測定
・DVDT-S01 または市販の DVD ディスクのタイトル 1・チャプター 1 を再生します。
・上記テストポイントをオシロスコープに接続し、電圧値を測定します。
・DVD レーザー駆動電流値　＝「測定した電圧値」/「14（合成抵抗値）」

(2) CD レーザー駆動電流の測定
・TCD-784 または同等市販 CD ディスクのトラック 1 を再生します。
・上記テストポイントをオシロスコープに接続し、電圧値を測定します。
・CD レーザー駆動電流値　＝「測定した電圧値」/「12（合成抵抗値）」

Diagnostics of Optical Pickup and Replacing Traverse Unit

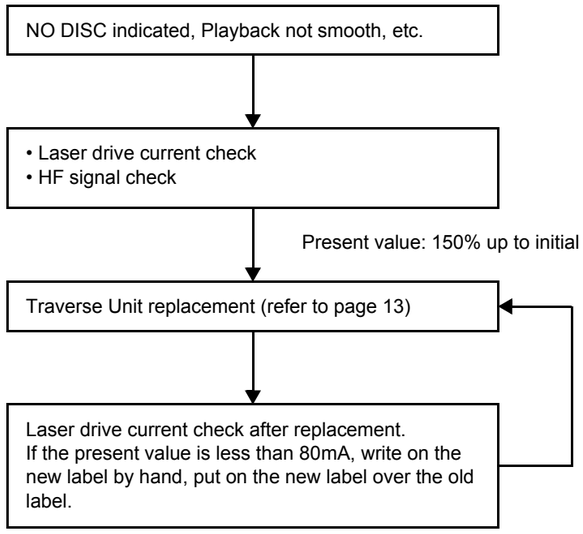
1. Note for Handling the Laser Pick-up

The protection for the damage of laser diode.
If you want to change the optical device unit from any other units, you must keep the following.

(1) It should be done at the desk already took measures the static electricity in care of removing the OPU's (Optical deice unit) connector cable.
(2) Workers should be put on the "Earth Band".
(3) It should be done to add the solder to the short land to prevent the broken Laser diode before removing the 24P FFC cable.
(4) Don't touch OPU's connector parts carelessly.

2. Optical Pick-up Diagnostics and Replacement

When repairing, carry out failure diagnostics by following the procedure described below.
If the present value of the laser drive current is 150% up to initial value, it is the point of the pickup replacement.
In case of the pickup replacement, replace the Traverse Unit with no adjustment.
The initial value is indicated on the label on back side of Mecha.



※ If the present value exceeds 80mA,replace the Traverse Unit with a new one.
Cause ：Damaged electrostatically when replaced.

光ピックアップ取扱注意と交換

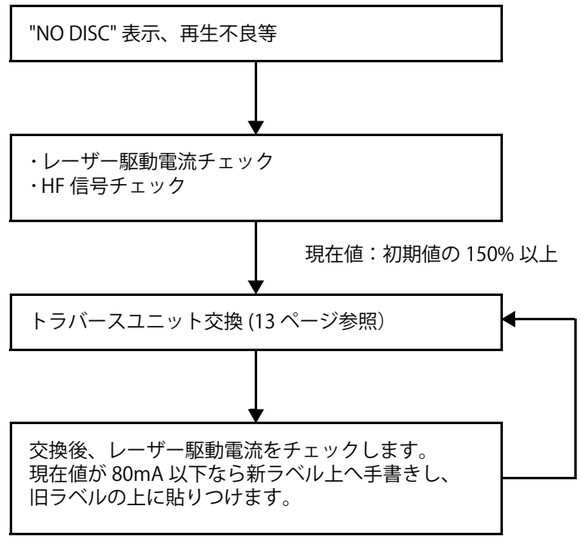
1. 光ピックアップの取扱注意

レーザーダイオードの破壊防止。
光素子ユニットを交換するときは、以下を遵守してください。

(1) 光素子ユニットの接続ケーブルをはずすときは、静電対策を行ったデスクの上で作業をしてください。
(2) 作業者はリストストラップを使用してください。
(3) レーザーダイオードの破壊防止のため、24P FFC ケーブルをはずす前にランドを半田付けショートしてください。
(4) 光素子ユニットのコネクタ部に触れないでください。

2. トラバースユニットの交換

交換時、以下の手順で故障診断をおこなってください。
・レーザー駆動電流の現在値が初期値の 150% 以上なら、ピックアップを交換してください。
ピックアップ交換の場合はトラバースユニットを交換し、調整は不要です。初期値はメカの後部のラベルに表示されています。



※ 現在値が 80mA 以上なら、再度トラバースユニットを交換してください。
原因：交換時、静電破壊された。

How to Replace Traverse Unit

1. Preparing for Replacement

(1) Removing Clamp Base Damper
Remove 4 pcs of 2.6mm machine screw (a), and detach the Clamp Base Damper upward.

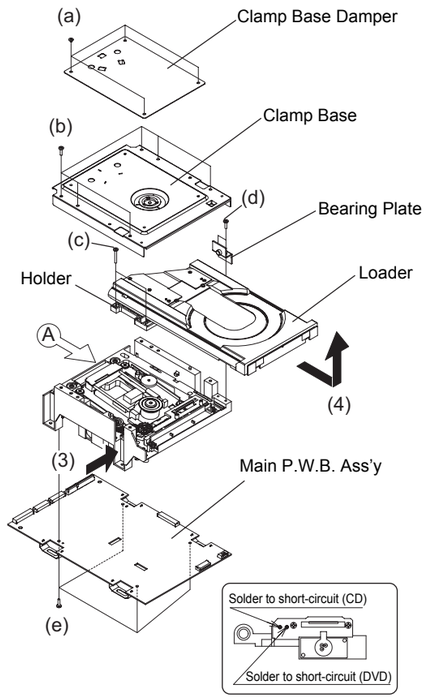
(2) Removing Clamp Base
Remove 6 pcs of 3mm P-tight screw (b), and detach the Clamp Base upward.

(3) Ejecting Loader
Through the left rectangular hole of the Mechanism Unit, push the slider with a ruler or driver unit the Traverse portion lowers and the Loader comes out a little.

(4) Removing Loader
- Remove 2 pcs of 3mm P-tight screw (c) on the Loader Holder left.
- Remove 2 pcs of 3mm P-tight screw (d) on the Loader Holder right, then pull up the Bearing Plate.
- Fully pull out the Loader forward, and lift up to take it out.

(5) Shorting Pickup
To protect the Pickup from static electricity, short-circuit 2 positions as shown in figure.

(6) Removing Main P.W.B. Ass'y
Remove 4 pcs of 3mm P-tight screw (e), and detach the Main P.W.B. Ass'y downward.



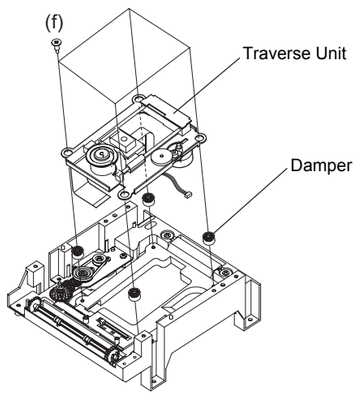
Short-circuit with solder (enlarged fig. A)

2. Replacing Traverse Unit

(1) Removing Wires
- CX241: 24P-FFC for Pickup
- CX151: 15P-FFC for Spindle
- CX031: 3P-PH wire for PU Side

(2) Removing Traverse Unit
Remove 4 pcs of special screw (f) and dampers, then take out the Traverse Unit upward.

(3) Mounting Traverse Unit
Mount the Traverse Unit following the reverse order.



トラバースユニットの交換方法

1. トラバースユニット交換準備

(1) クランプベースダンパーのはずしかた
2.6mm マシンネジ (a) 4 本をずして、クランプベースダンパーを上へはずします。

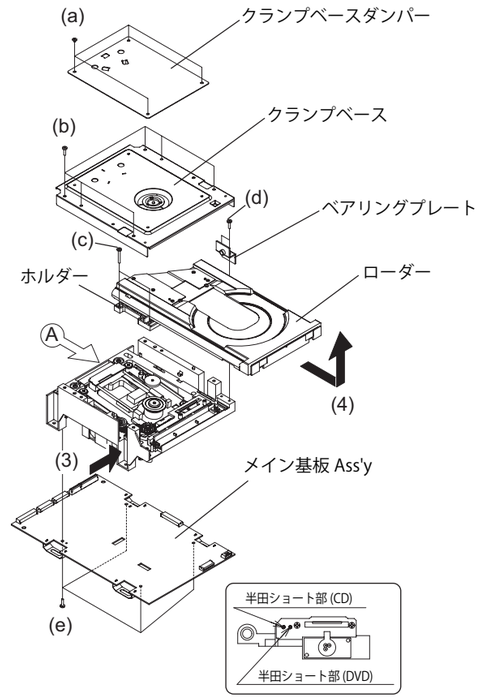
(2) クランプベースのはずしかた
3mmP タイトネジ (b) 6 本をはずして、クランプベースを上へはずします。

(3) ローダーを開く
メカユニットの左側角孔より、スライダーを定規やドライバーでトラバース部が下がってローダーが少し開くまで押します。

(4) ローダーのはずしかた
・ローダー左のホルダー部より 3mmP タイトネジ (c) 2 本をはずします。
・ローダー右側より 3mmP タイトネジ (d) 2 本をはずし、ベアリングプレートを上へはずします。
・ローダーを前面へ引き出し、止まった所で上へはずします。

(5) ピックアップのショート
トラバースユニットのピックアップの静電保護のため、2 箇所ショートします。
（ショート箇所は、右図参照）

(6) メイン基板 ASS'Y のはずしかた
3mmP タイトネジ (e) 4 本をはずし、基板を下へはずします。



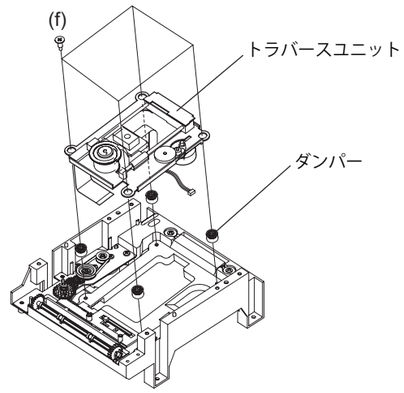
半田ショート拡大図

2. トラバースユニットの交換

(1) トラバースユニットのワイヤーをはずす
・CX241：ピック用 24P-FFC
・CX151：スピンドル用 15P-FFC
・CX031：PU スライド用 3P-PH ワイヤー

(2) トラバースユニットをはずす
特殊ネジ (f) 4 本とダンパー 4 個をはずし、トラバースユニットを上にはずします。

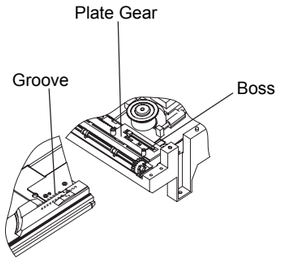
(3) トラバースユニットの取り付け
逆の手順で、トラバースユニットを取り付けます。

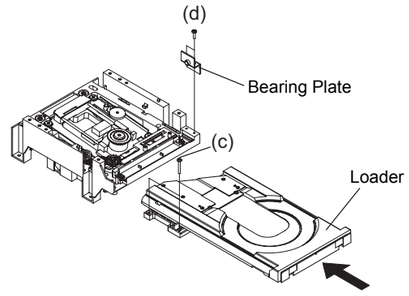


3. Installing Loader

(1) Inserting Loader
Set and push the Loader to the arrow direction until it stops. When installing the Loader, move Plate Gear to right beforehand so as that the boss of the Plate Gear fits in the backside groove of the Loader. (See figure right)

(2) Fixing Loader
Fix the Loader with each 2 screws (c) and (d).





4. Assembly (1)

(1) Assembling Main P.W.B. Ass'y
Fix the Main P.W.B. Ass'y with 4 pcs of 3mm P-tight screw (e).

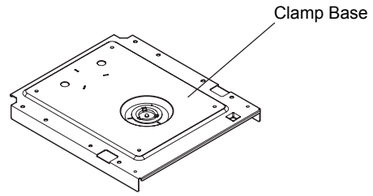
(2) Removing Pickup-short Solder
After connecting 24P-FFC of the Pickup with P.W.B., remove solder from 2 shorted positions.

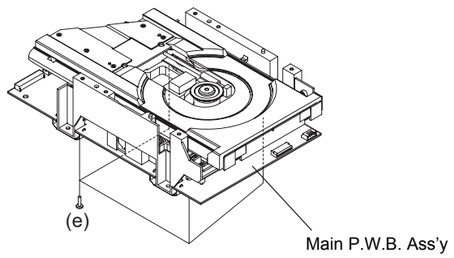
(3) Temporary Positioning Clamp Base
To protect your eyes from laser light, put the Clamp Base temporarily.

(4) Positioning up Traverse Unit
Connect the following wires of the Mechanism Unit, and operate it.

• CX141: 14P-PH wire for power
• CX131: 13P-FFC wire from Display P.W.B.

Turn on the power to the unit, and press "OPEN/CLOSE" button to close the Loader.
The Traverse Unit rises up. (display: 0h00m00s)
Pull out Loader forward, and life up to take it out.

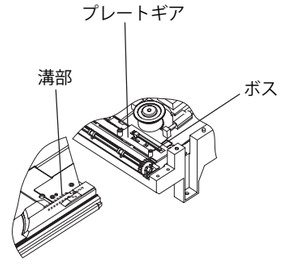


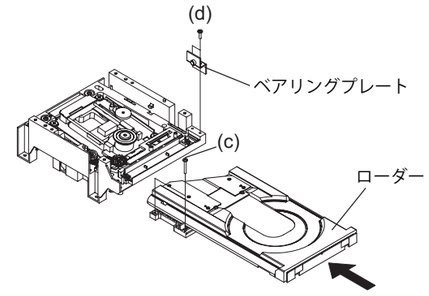


3. ローダーの組み立て

(1) ローダーの挿入
ローダーを矢印の方向へ止まるまで押しこみます。
ローダーを組み込み時、プレートギアのボスがトレイ裏面の溝に合うようにプレートギアを右側へ寄せておきます。
（右図参照）

(2) ローダーの取り付け
(c)、(d) のネジ各 2 本を取り付けます。





4. 組み立て（1）

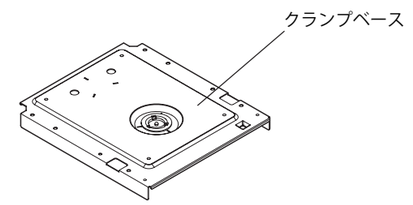
(1) メイン基板 ASS'Y の取り付け
3mm P タイトネジ (e) 4 本で基板を取り付けます。

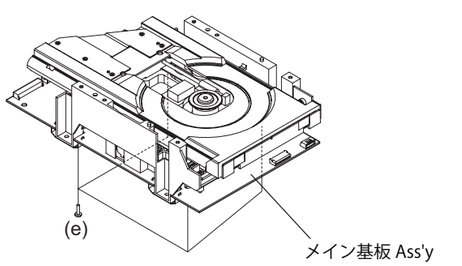
(2) ピックアップのショートをはずす
ピックアップの 24PFFC を基板へ接続後、2 箇所のショートをはずします。

(3) クランプベースの仮置き
レーザーから目を保護するため、クランプベースを仮置きします。

(4) トラバースユニットをアップする
メカユニットの下記ワイヤーを接続し、メカを動作させます。

・CX141：電源用の 14P-PH ワイヤー接続
・CX131：ディスプレイ基板からの 13P-FFC ワイヤー接続
セットの電源を入れ、ローダー開閉ボタンで、CLOSE させます。
トラバースユニットがアップします。
(0h00m00s：表示)
ローダーを前後に引き出し、止まったところで上へはずします。

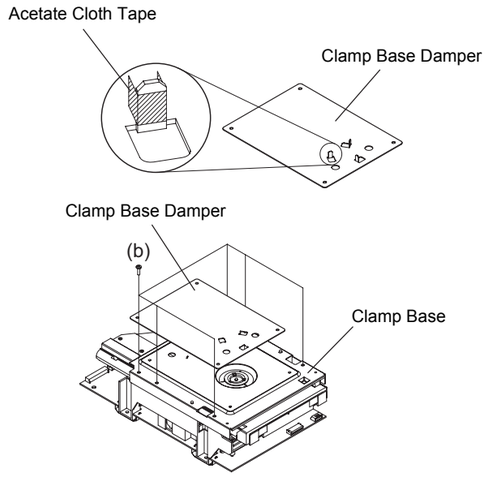




5. Assembly (2)

(1) Attaching Tape to Clamp Base Damper
Attach acetate cloth tape to 3 projections of the Clamp Base Damper backside.

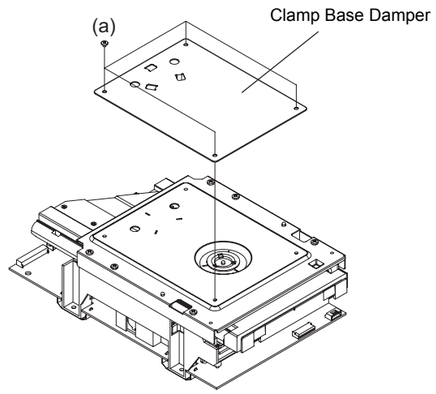
(2) Assembling Clamp Base
Set the Clamp Base Damper with positioning for clamper by 3 projections.
Fix the Clamp Base with 6 pcs of 3mm -tight screw (b).



6. Assembly (3)

(1) Detaching Tape from Clamp Base Damper
Detach acetate cloth tape from 3 projections of the Clamp Base Damper backside.

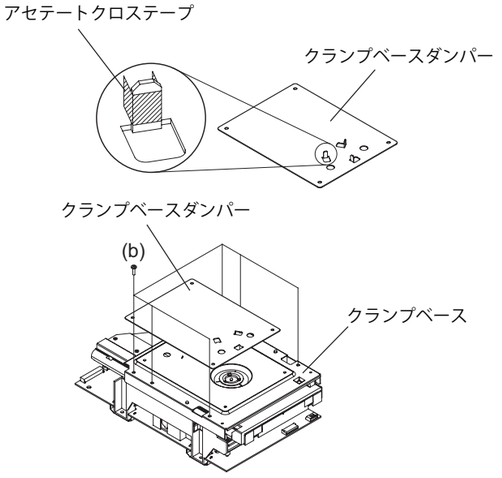
(2) Assembling Clamp Base Damper
Set the Clamp Base Damper to the Clamp Base contrary to the direction set in step above.
Fix the Clamp Base Damper with 4 pcs of 3mm S-tight screw (a).



5. 組み立て（2）

(1) クランプベースダンパーへのアセクロ貼り付け
クランプベースダンパー裏面の突起 3 箇所へアセテートクロステープを貼り付けます。

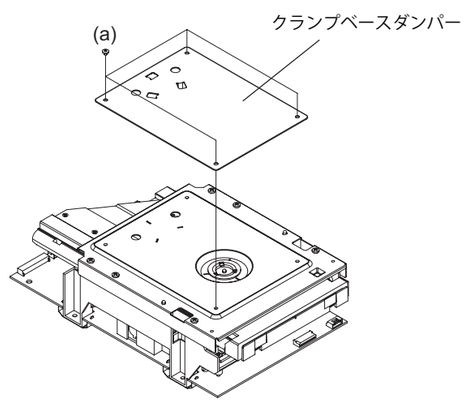
(2) クランプベースの取り付け
クランプベースダンパーを挿入し、3 箇所の突起でクランパーの位置決めをおこないます。3mmP タイトネジ (b) 6 本で、クランプベースを取り付けます。



6. 組み立て（3）

(1) クランプベースダンパーからアセクロをはがす
クランプベースダンパー裏面の突起 3 箇所からアセテートクロステープをはがします。

(2) クランプダンパーベースの取り付け
クランプベースダンパーを、クランプベースに先程と反対向きに挿入します。3mmS タイトネジ (a) 4 本で、クランプベースダンパーを取り付けます。



SERVICE MODE

1. Aging Mode

(1) preparation

(a) Equipment used: Any one of DVD Karaoke Disc (containing more than 10 titles).

(b) Unit setting : No spec other than the following procedure (Aging mode).
At the tray open status, press the “POWER” button to turn on the power while pressing the “PLAY” and “OPEN/CLOSE” buttons for DVD operation simultaneously. ▶II mark on the FL lights, and the unit is set to the heat run mode.

(2) procedure

(a) According the above, set to the aging mode.

(b) Set a DVD Karaoke disc to the tray and press the “PLAY” button once. ▶II mark on the FL blinks, and aging operation(after playback title-1 and title-10 of the disc, the tray open/close is made automatically, then playback the title-1 again) starts. This aging operation continues automatically until it is stopped or it stops caused by an error. In case of some error in DVD, the following error messages are displayed on the FL.

No	Error contents	FL display
1	Bad Disc	ERROR 02
2	Focus Error	ERROR 04
3	Read Error	ERROR 03
4	Tracking Error	ERROR 04
5	Tray Error	ERROR 05
6	Navigation Pack Read Error	ERROR 06
7	Cmmunication Error	ERROR07

サービスモードについて

1. エージングモード

(1) 準備

(a) 使用機器：DVD カラオケディスク（10 タイトル以上の物）。

(b) 本体設定：下記設定以外規定無。
（エージングモード）
トレイを開けた状態で DVD ユニットの「再生ボタン」+「開 / 閉ボタン」を同時に押しながら「電源ボタン」を押してセットの電源を入れると、FL 管の ▶II マークが点灯し、ヒートランモードに設定されます。

(2) 手順

(a) 上記手順でエージングモードに設定する。

(b) トレイに DVD カラオケディスクを入れ、「再生ボタン」を 1 回押して、FL 管の ▶II マークが点滅になると、「ディスクのタイトル 1 とタイトル 10 を再生した後、トレイを自動で開 / 閉し、再度タイトル 1 の再生を行う。」エージング動作になります。停止させるか、エラーにて停止するまでこの動作を自動で繰り返します。DVD 部にエラーが発生した場合は、FL 管に下表のエラーが表示されます。

No.	エラー内容	FL 管表示
1	不良ディスク	ERROR 02
2	フォーカスエラー	ERROR 04
3	リードエラー	ERROR 03
4	トラッキングエラー	ERROR 04
5	トレイエラー	ERROR 05
6	ナビゲーションパックエラー	ERROR 06
7	コマンド通信エラー	ERROR 07

2. Initial Setting Mode

(1) Preparation

(a) Equipment used: None

(b) Unit setting: No spec other than the following procedure

(2) Procedure

(a) Initialize the DVD player when µcom, peripheral parts of µcom, or Main P.W.B. has been replaced in servicing.

(b) Carry out the following to restore factory setting mode.
At the player stop condition, press 3 buttons for DVD operation(“PLAY”,”OPEN/CLOSE”, and “ ▶▶| SKIP”) until “INITIALIZE” appears and disappears in the FL. (“Initialized” appears and disappears on the TV screen.)

(c) All user setting will be lost and its factory setting will be restored when this initialization is made. Be sure to memorize your setting for restoring again after the initialization.

2. 初期設定モード

(1) 準備

(a) 使用機器：無

(b) 本体設定：下記手順以外規定無。

(2) 手順

(a) サービスにて、マイコンやマイコン周辺部分やメイン基板を交換した場合は、ＤＶＤ プレーヤーの初期化を行ってください。

(b) セットの初期化を下記の手順で行い、工場出荷モードに設定する。
セットが停止状態にて、ＤＶＤ 操作部の「再生ボタン」+「開 / 閉ボタン」+「 ▶▶| (スキップ）ボタン」の 3 重押しを ＦＬ 管に "INITIALIZE" が表示され消えるまで押します。（ＴＶ 画面には”初期化しました”が表示され消えます。）

(c) 初期化を行うとお客様が設定した内容が工場出荷状態に戻りますので、あらかじめ設定内容を控えておき初期化後に再設定してください。

3. µcom Firm Check Mode

(1) Preparation

(a) Equipment used: None

(b) Unit setting: No spec other than the following procedure.

(2) Procedure

(a) Press the “POWER” button to turn on the power while pressing the “PLAY” and “OPEN/CLOSE” buttons for DVD operation simultaneously.

(b) FL all light mode.
This mode is for detecting FL defects. Press “STILL/PAUSE ❚❚ ” on the remote control unit once to light all FL segments.

(c) DVD µcom and main unit µcom firm check mode. This mode is for displaying the status of each µcom employed.
- Push remote countroller “3265”
- DVD µcom firm: Press the “MENU” button .
- Each time the “MENU” button on the remote control unit is pressed, µcom firm is displayed one after another.

B/E µcom	ESS 6780
MAKE DAY	MAKE DAY C10
Drive µcom	DRV 030 825
SYSTEM µcom	SYSTEM 6867
Scaler	SCALER 0A02
DSP	DSP 6790
IEEE 1394	C 20041028

3. マイコンファームチェックモード

(1) 準備

(a) 使用機器：無

(b) 本体設定：下記手順以外規定無。

(2) 手順

(a) ＤＶＤ 操作部の「再生ボタン」と「開 / 閉ボタン」を押しながらセットの「電源ボタン」を押し電源を入れます。

(b) ＦＬ 管全点灯モード。
ＦＬ 管の故障判別用のモードで、リモコンの「スティル / ポーズ ❚❚ ボタン」を押すと ＦＬ 管が全点灯します。

(c) ＤＶＤ マイコン及び本体マイコンのファーム確認モード
搭載されている各マイコンのファーム状態を表示します。
- 数字キーで「3265」と入力します。
- ＤＶＤ マイコンのファーム：リモコンの「メニューボタン」を押します。
- リモコンの「メニューボタン」を押すたびにマイコンファームを次々と表示します。

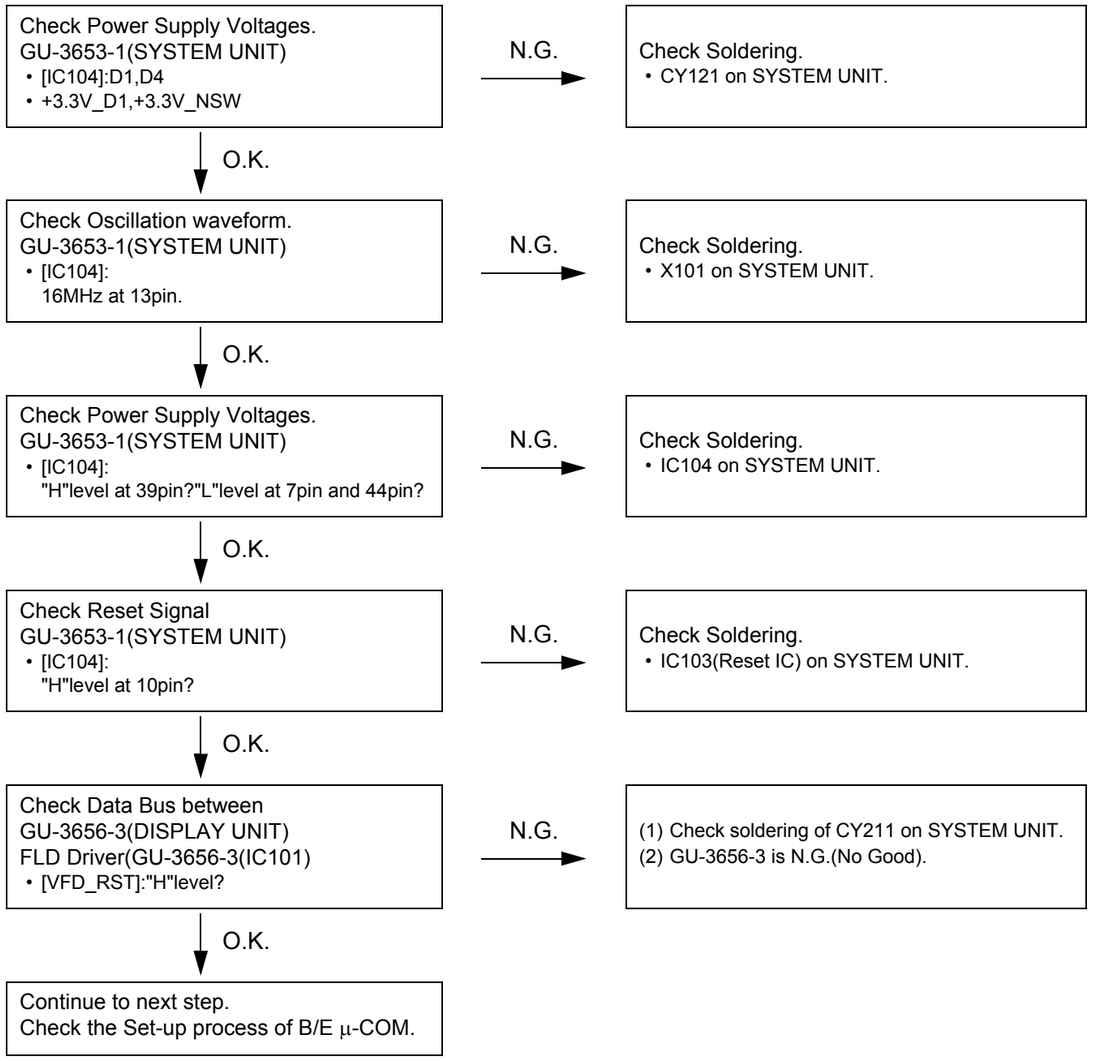
B/E マイコン	ESS 6780
作成日	MAKE DAY C10
ドライブマイコン	DRV 030 825
システムマイコン	SYSTEM 6867
スケーラー	SCALER 0A02
DSP	DSP 6790
IEEE 1394	C 20041028

TROUBLE SHOOTING

1. GU-3618 (MAIN UNIT), GU-3653-1 (SYSTEM UNIT)

1.1. FL TUBE dosen't light

(1) Check the Set-up process of System μ-COM

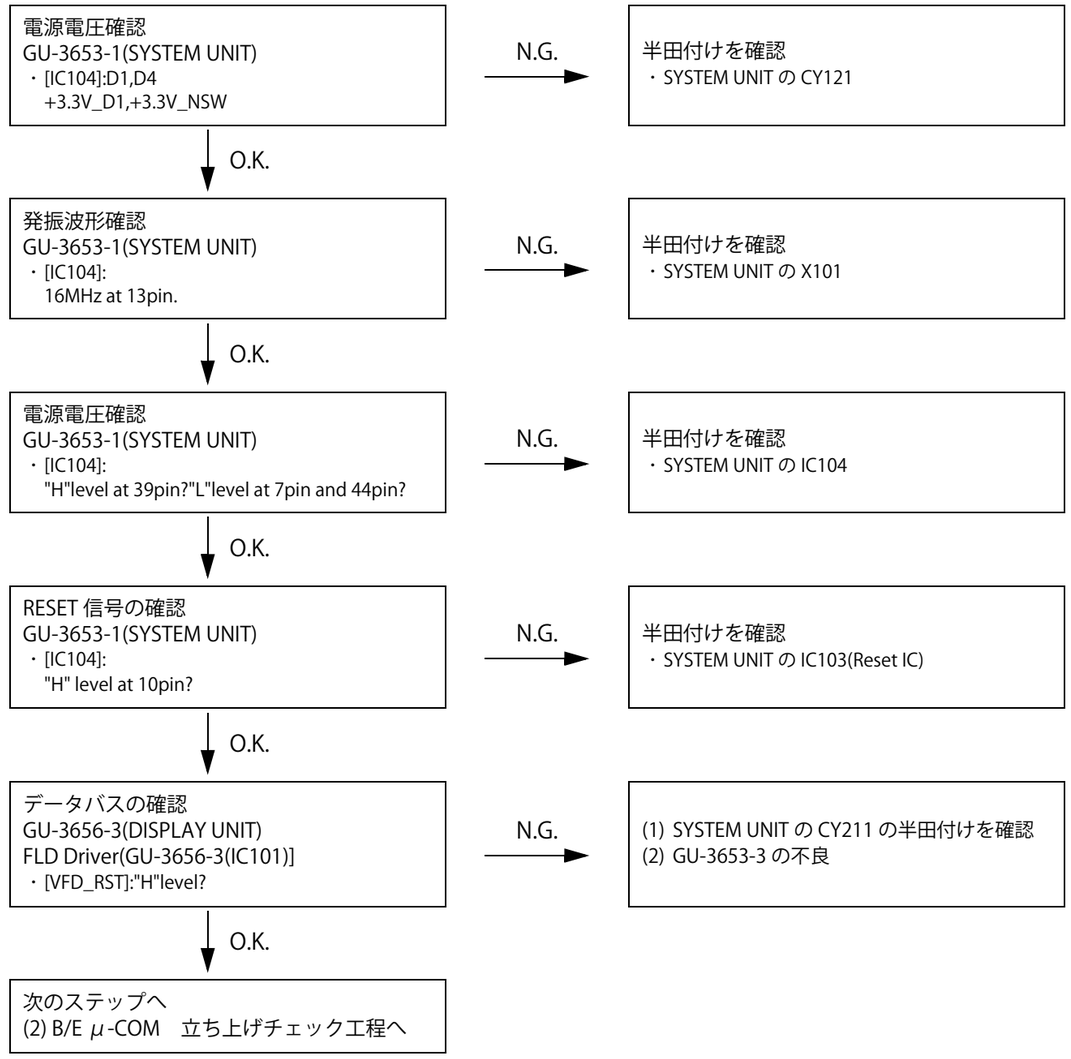


トラブルシューティング

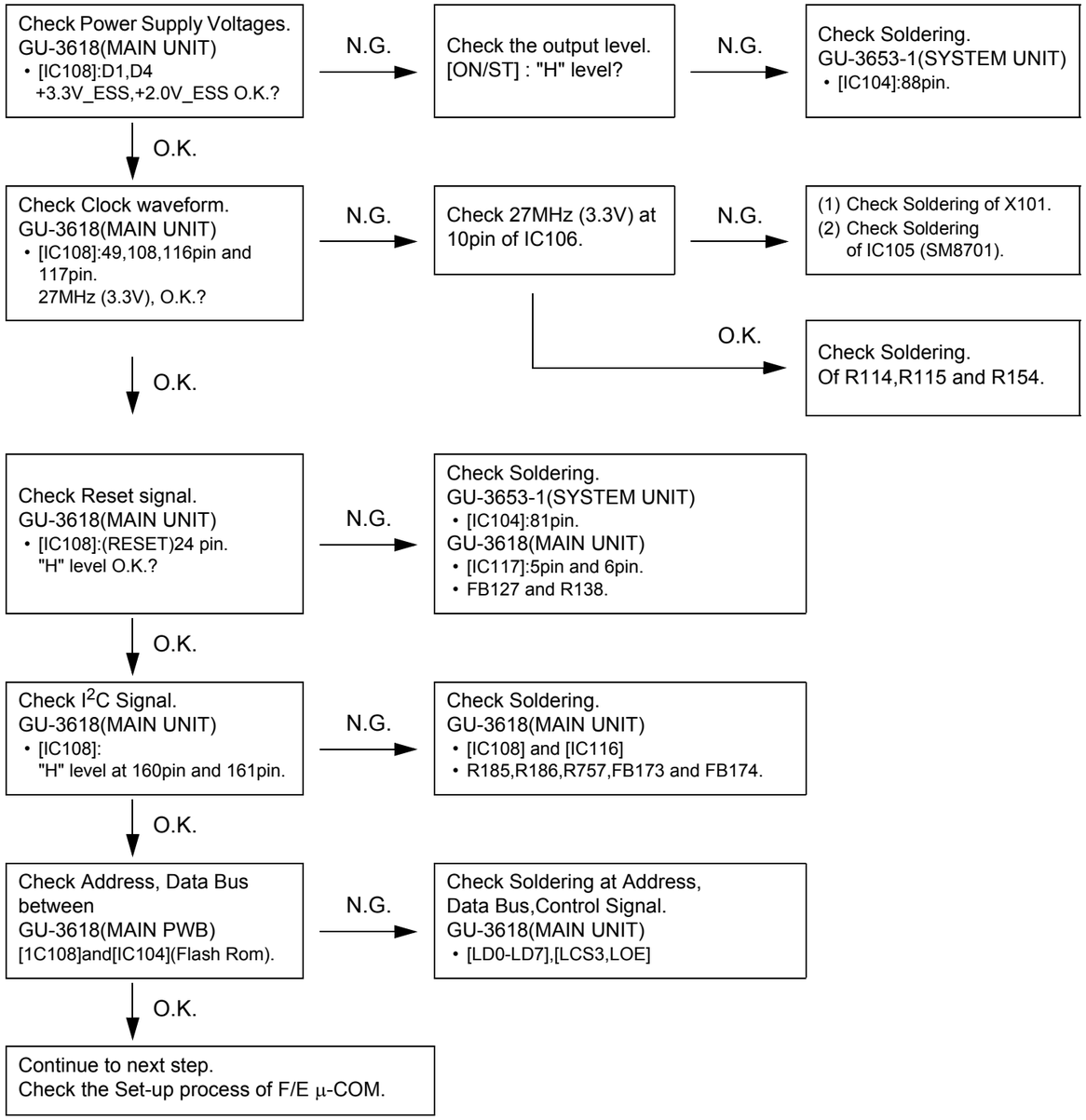
1. GU-3618 (MAIN UNIT) , GU-3653-1 (SYSTEM UNIT)

1.1. FL 管点灯せず

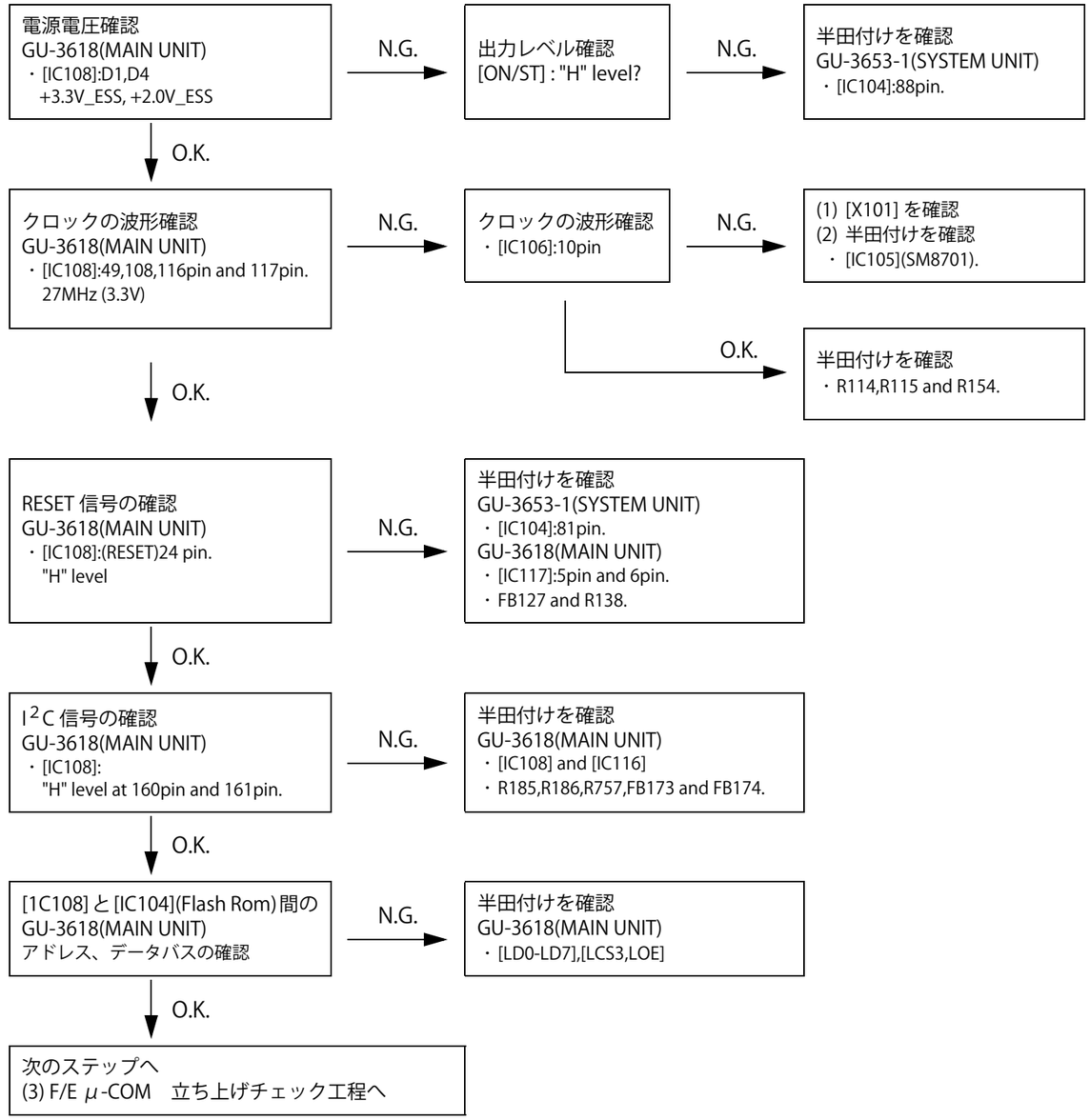
(1) システム μ-COM 立ち上がりチェック工程



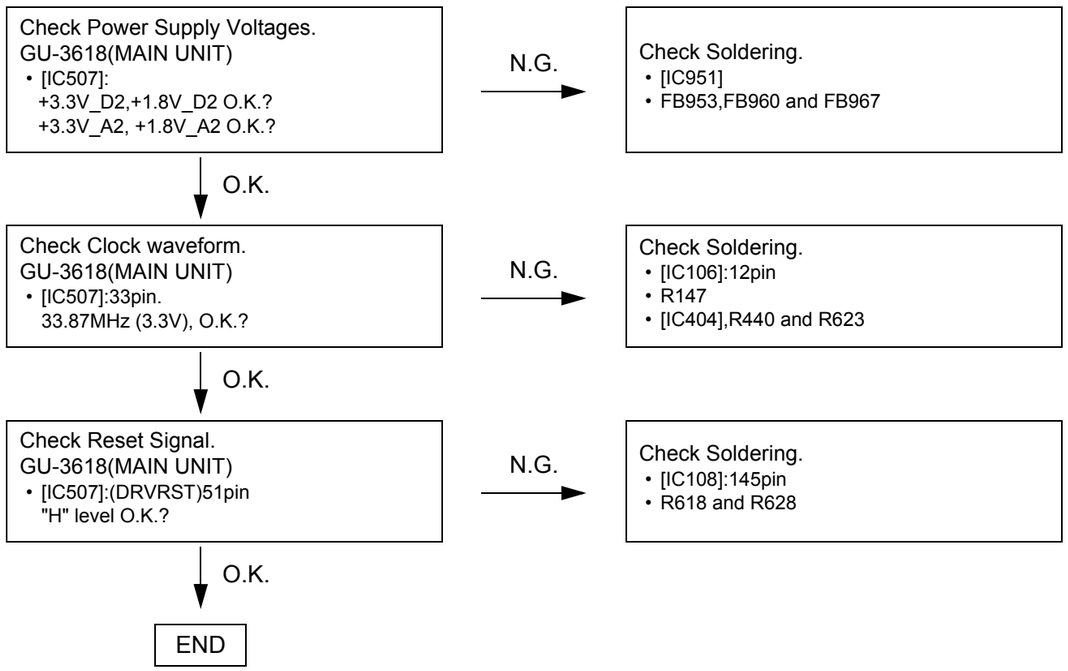
(2) Check the Set-up process of B/E μ-COM



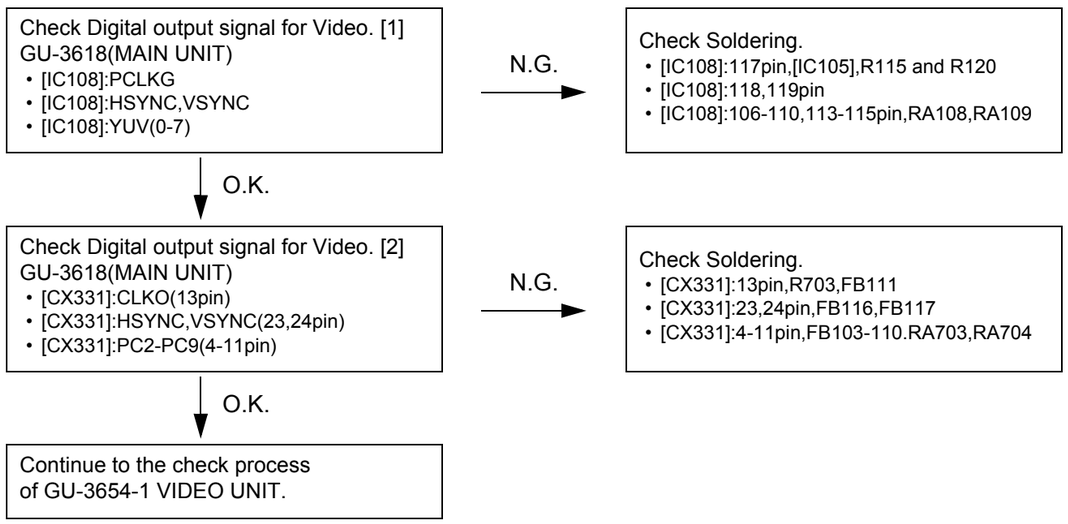
(2) B/E μ-COM　立ち上げチェック工程



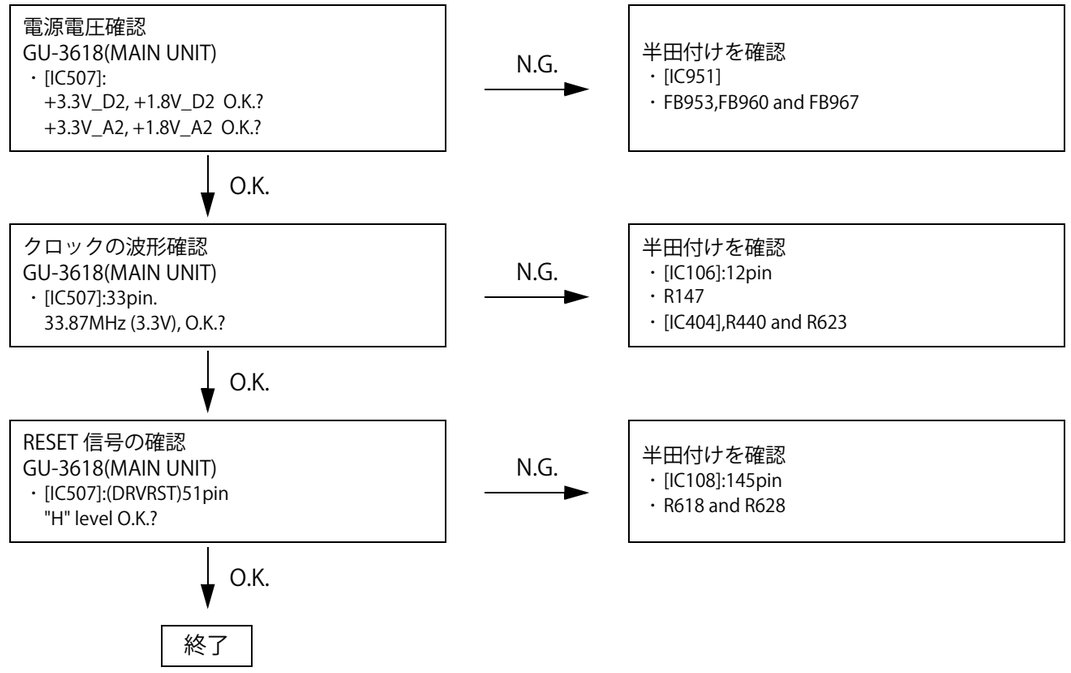
(3) Check the Set-up process of F/E μ-COM



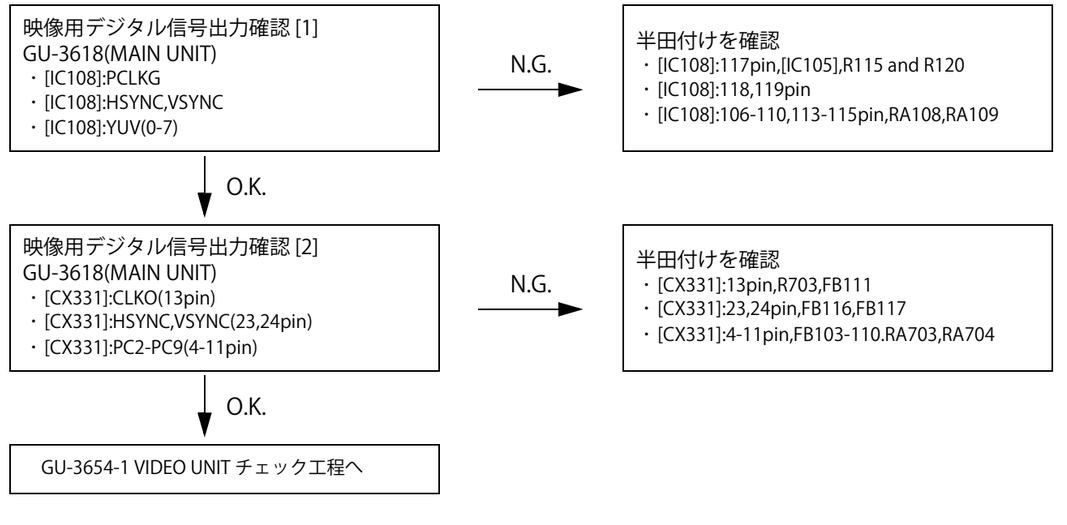
1.2. Image is not displayed. (Blue-back, DENON wallpaper)



(3) F/E μ-COM 立ち上げチェック工程

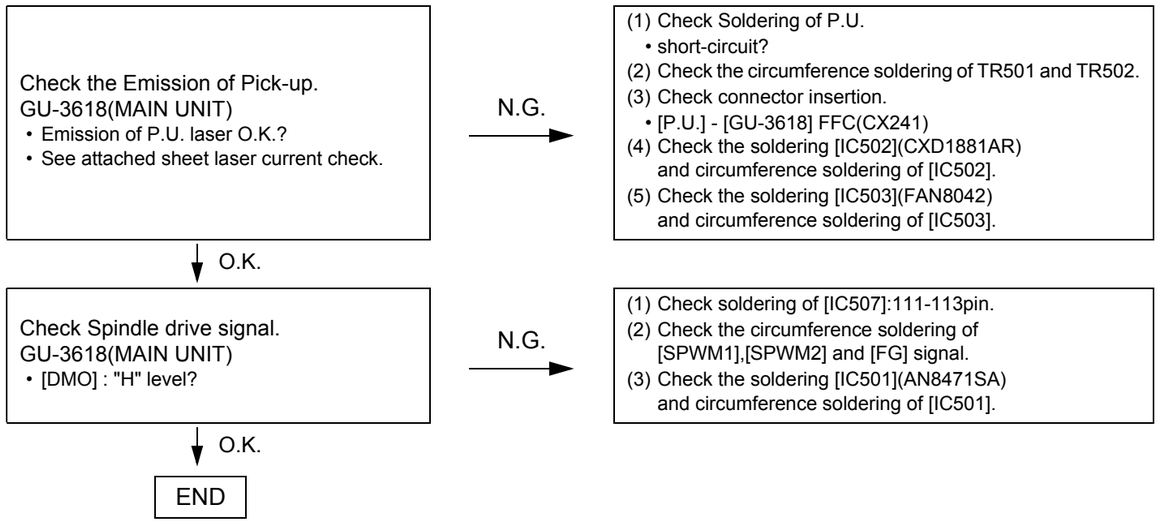


1.2. 映像出力せず。（ブルーバック、DENON 壁紙）

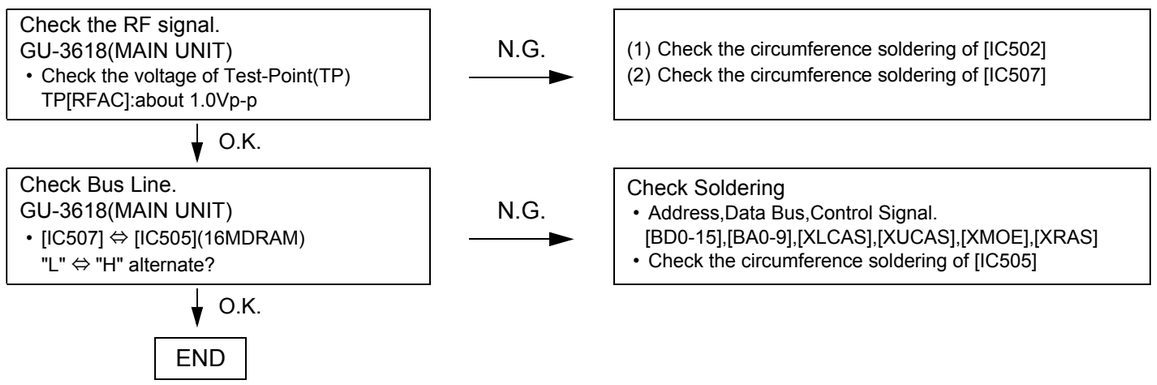


1.3. Does not Read Disc [No Play], [00 00] displayed etc.

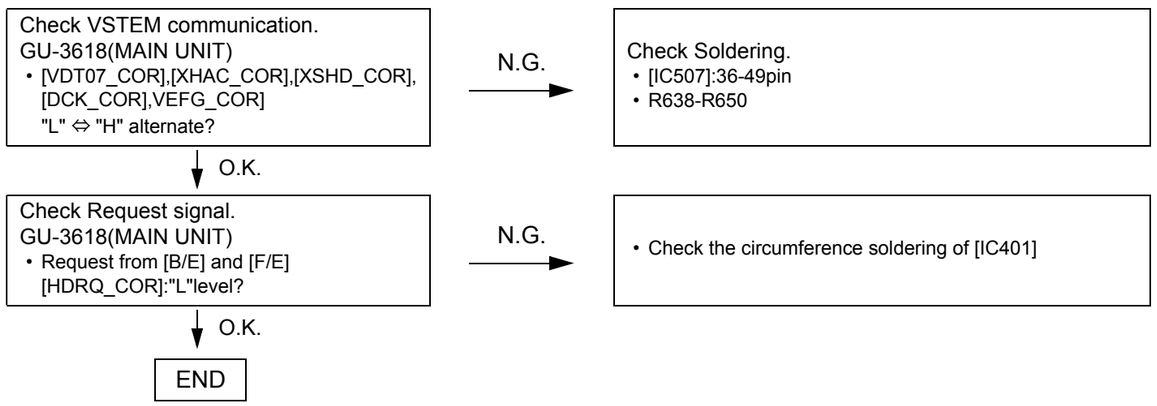
(1) Disc does not Rotate.



(2) CD check process

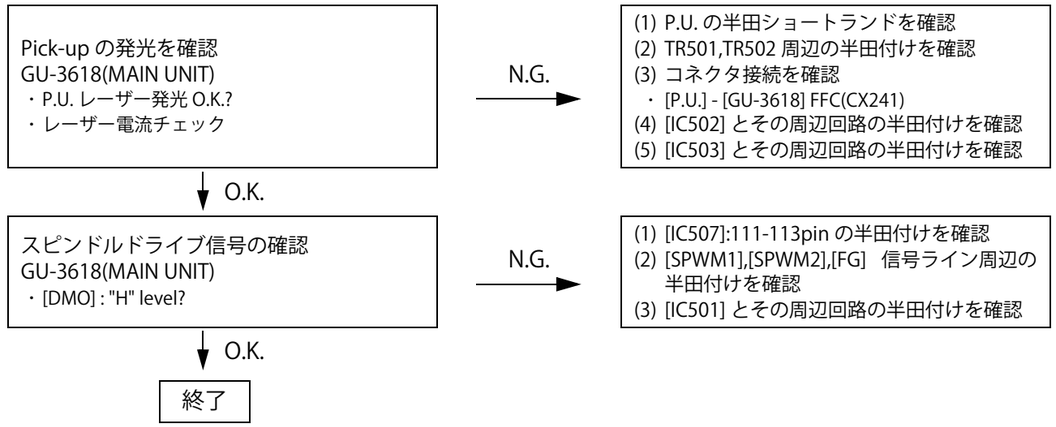


(3) DVD check process

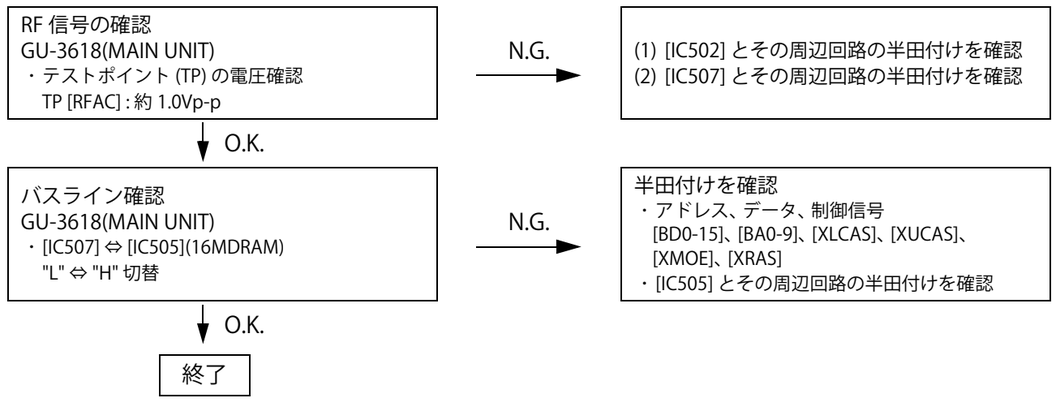


1.3. ディスク読めず [No Play], [00 00] 等の表示

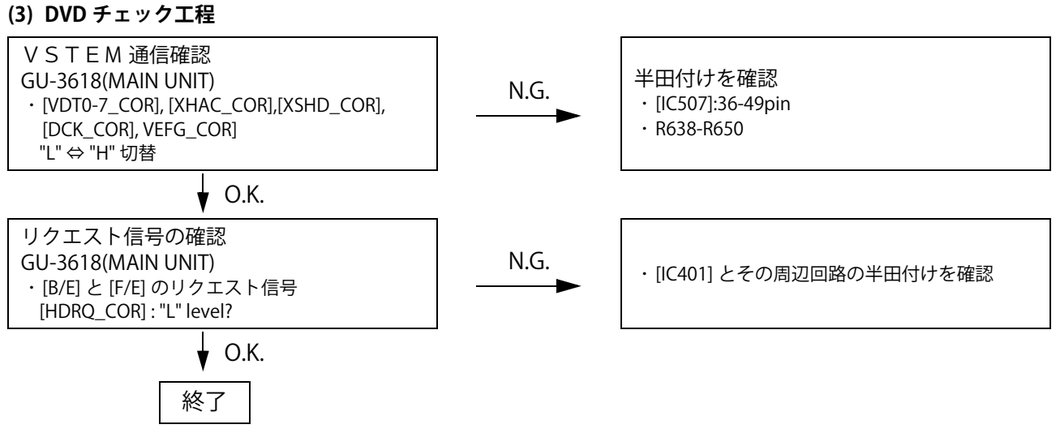
(1) ディスク回転せず



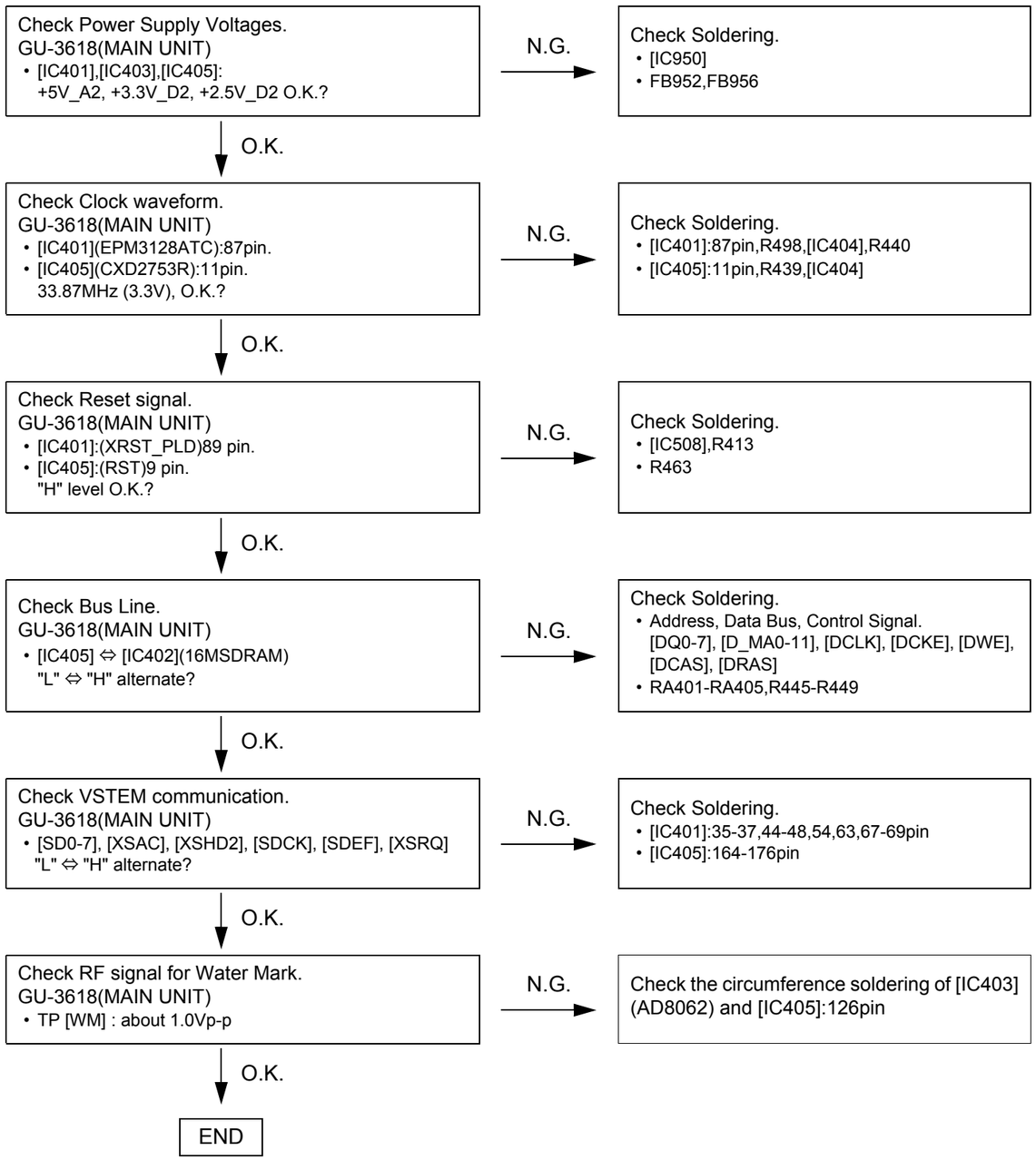
(2) CD チェック工程



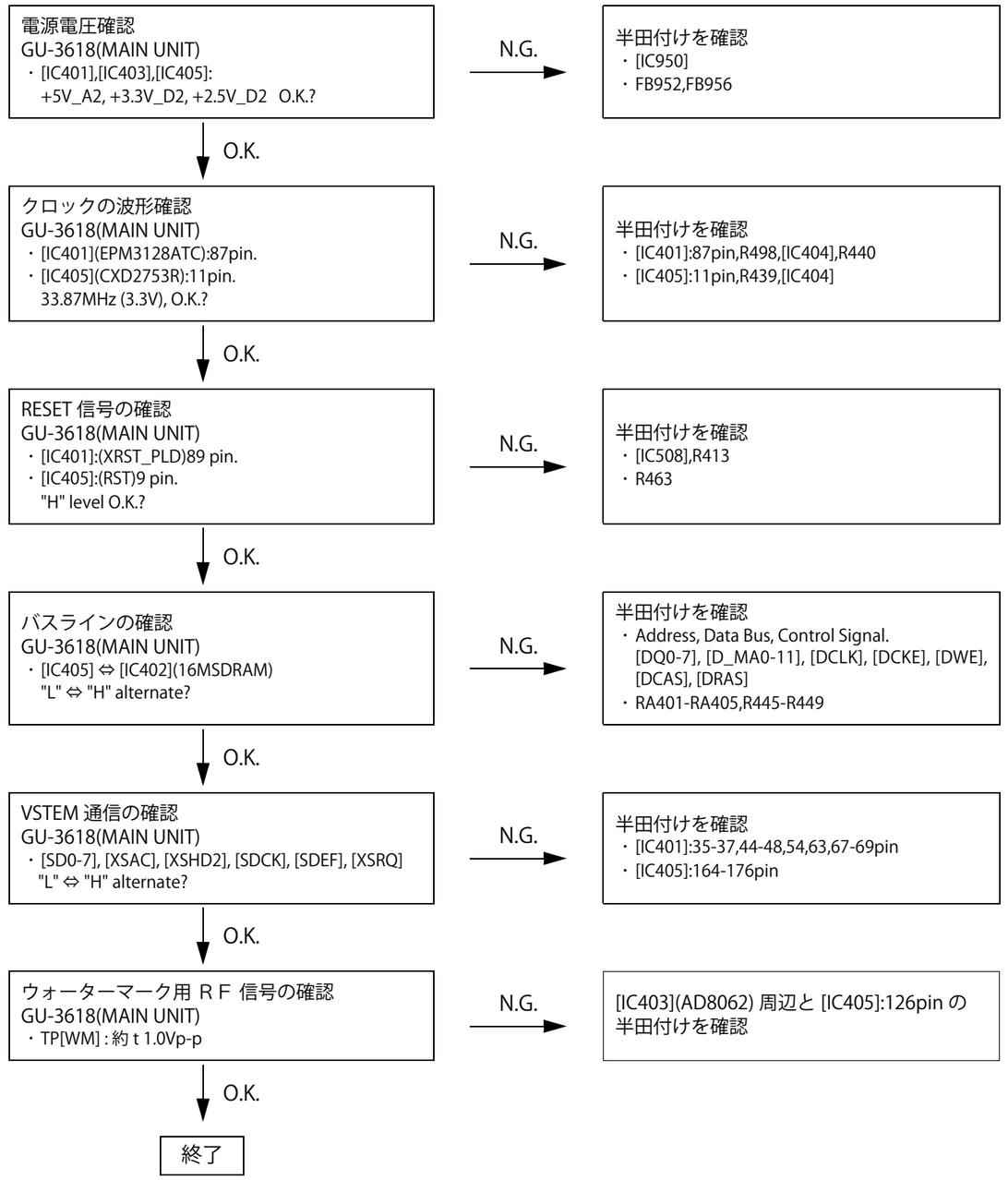
(3) DVD チェック工程



(4) SACD check process

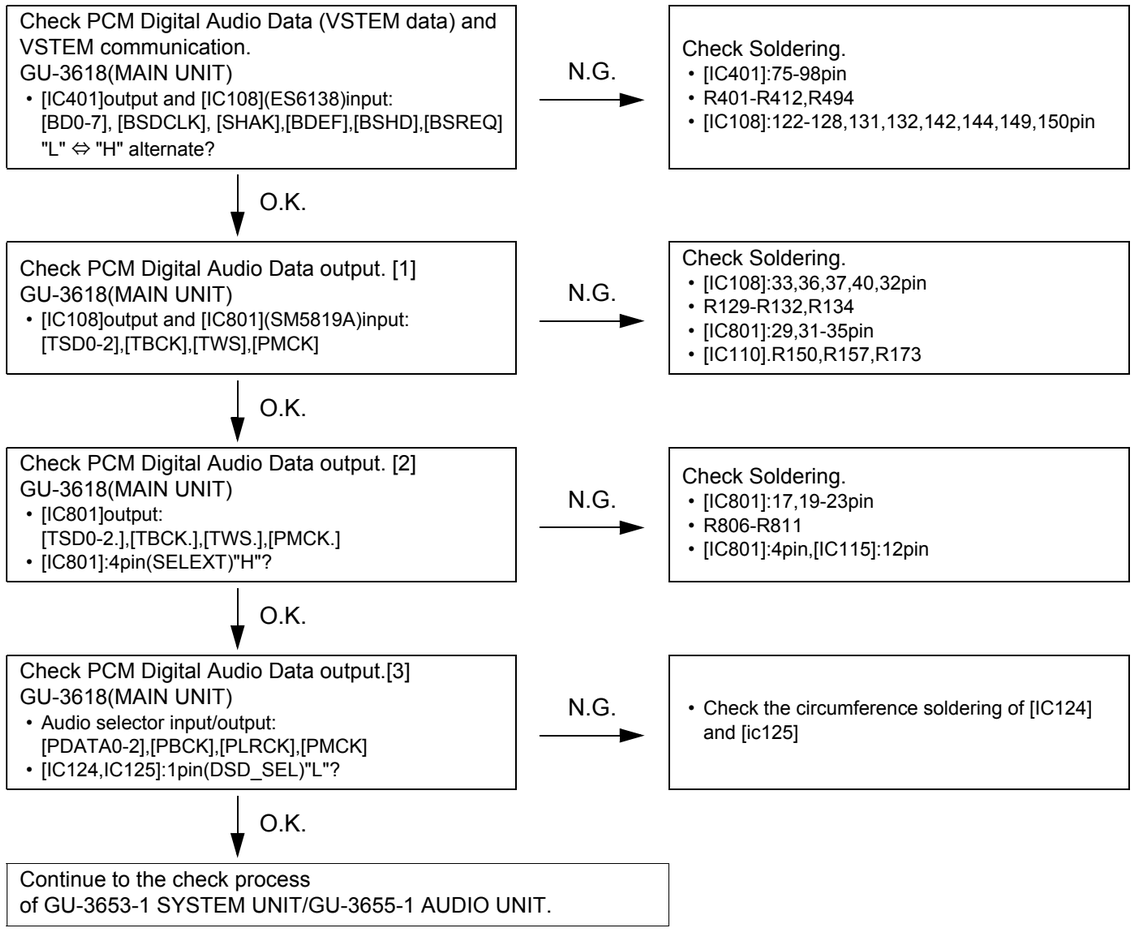


(4) SACD チェック工程



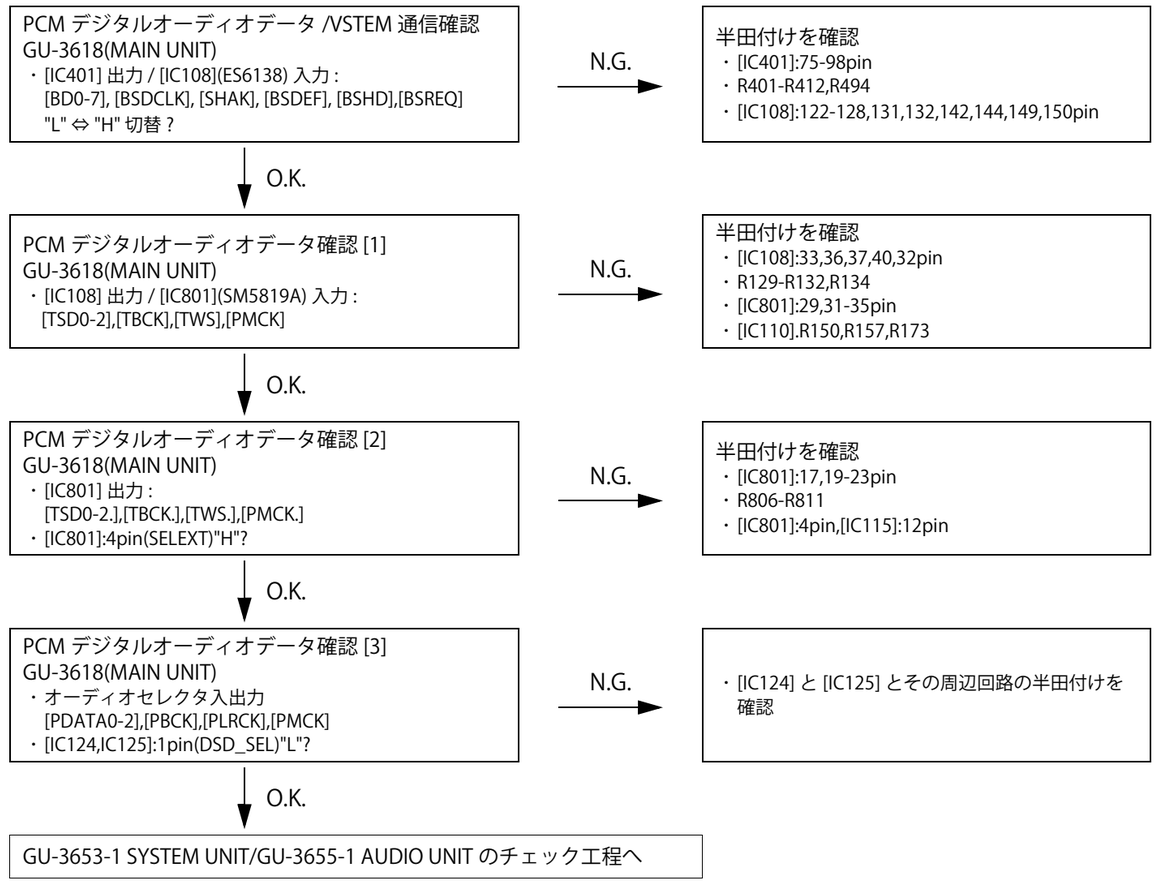
1.4. No Sound,Noise generated

(1) CD, DVD-VIDEO/AUDIO



1.4. 音声出力せず、ノイズ発生

(1) CD, DVD-VIDEO/AUDIO



(2) SACD : SOURCE DIRECT ON MODE

Check SACD Digital Audio Data(VSTEM data)
and VSTEM communication.
GU-3618(MAIN UNIT)
- [IC401]output and [IC405]input:
  [SD0-7],[SDCK],[XSAK],[SDEF],[XSHD2],[XSRQ]

N.G. → Check Soldering.
- [IC401]:35-37,44-48,54,63,67-69pin
- [IC405]:164-176pin
- R414-426

O.K.

Check DSD Data. [1]
GU-3618(MAIN UNIT)
- [IC405]output:[DSARS],[DSALS],[DSASW],[DSAC],
  [DSAR],[DSAL],[BCKAO],[DSAMR],[DSADML],[EXCK01]

N.G. → Check Soldering.
- [IC405]:76,74,71,69,66,64,60,56,55pin
- R464-R473

O.K.

Check DSD Data. [2]
GU-3618(MAIN UNIT)
- Audio selector input/output:
  [DSDFL],[DSDFR],[DSDSW],[DSDC],[DSDSL],[DSDSR],[DSDBCK]
- [IC119,IC120]:1pin(SEL_1394)"L"?

N.G. → • Check the circumference soldering of [IC119]and [IC120]

O.K.

Check DSD Data.[3]
GU-3618(MAIN UNIT)
- Audio selector input/output:
  [DSDFL],[DSDFR],[DSDSW],[DSDC],[DSDSL],[DSDSR],[DSDBCK]
- [IC124,IC125]:1pin(DSD_SEL)"H"?

N.G. → • Check the circumference soldering of [IC124]and [IC125]

O.K.

Continue to the check process
of GU-3653-1 SYSTEM UNIT/GU-3655-1 AUDIO UNIT.

(2) SACD : SOURCE DIRECT ON MODE 時

SACD デジタルオーディオデータ /VSTEM 通信確認
GU-3618(MAIN UNIT)
- [IC401] 出力 / [IC405] 入力 :
  [SD0-7],[SDCK],[XSAK],[SDEF],[XSHD2],[XSRQ]

N.G. → 半田付けを確認
- [IC401]:35-37,44-48,54,63,67-69pin
- [IC405]:164-176pin
- R414-426

O.K.

DSD データ確認 [1]
GU-3618(MAIN UNIT)
- [IC405] 出力 :[DSARS],[DSALS],[DSASW],[DSAC],[DSAR],[DSAL],
  [BCKAO],[DSAMR],[DSADML],[EXCK01]

N.G. → 半田付けを確認
- [IC405]:76,74,71,69,66,64,60,56,55pin
- R464-R473

O.K.

DSD データ確認 [2]
GU-3618(MAIN UNIT)
- オーディオセレクタ入出力
  [DSDFL],[DSDFR],[DSDSW],[DSDC],[DSDSL],[DSDSR],[DSDBCK]
- [IC119,IC120]:1pin(SEL_1394)"L"?

N.G. → • [IC119] と [IC120] とその周辺回路の半田付けを確認

O.K.

DSD データ確認 [3]
GU-3618(MAIN UNIT)
- オーディオセレクタ入出力
  [DSDFL],[DSDFR],[DSDSW],[DSDC],[DSDSL],[DSDSR],[DSDBCK]
- [IC124,IC125]:1pin(DSD_SEL)"H"?

N.G. → • [IC124] と [IC125] とその周辺回路の半田付けを確認

O.K.

GU-3653-1 SYSTEM UNIT/GU-3655-1 AUDIO UNIT のチェック工程へ

(3) SACD : SOURCE DIRECT OFF MODE

Check SACD Digital Audio Data(VSTEM data)
and VSTEM communication.
GU-3618(MAIN UNIT)
- [IC401]output and [IC405]input:
  [SD0-7],[SDCK],[XSAK],[SDEF],[XSHD2],[XSRQ]

N.G. → Check Soldering.
- [IC401]:35-37,44-48,54,63,67-69pin
- [IC405]:164-176pin
- R414-426

O.K.

Check DSD Data. [1]
GU-3618(MAIN UNIT)
- [IC405]output/[IC801]input:
  [DSARS.],[DSALS.],[DSASW.],[DSAC.],[DSAR.],[DSAL.],
  [BCAO.],[EXCK01.]

N.G. → Check Soldering.
- [IC405]:76,74,71,69,66,64,60,56,55,13pin
- R486-R493
- [IC801]:27,38-44pin

O.K.

Check DSD Data. [2]
GU-3618(MAIN UNIT)
- [IC801]output:
  [TSD0-2.],[TWS.],[TBCK.],[PMCK.]
- [IC801]:4pin(SELEXT)"L"?

N.G. → Check Soldering.
- [IC801]:17,19-23pin
- R806-R811
- [IC801]:4pin,[IC115]:12pin

O.K.

Check DSD Data.[3]
GU-3618(MAIN UNIT)
- Audio selector input/output:
  [PDATA0-2],[PBCK],[PLRCK],[PMCK]
- [IC124,IC125]:1pin(DSD_SEL)"L"?

N.G. → • Check the circumference soldering of [IC124]and [IC125]

O.K.

Continue to the check process
of GU-3653-1 SYSTEM UNIT/GU-3655-1 AUDIO UNIT.

(3) SACD : SOURCE DIRECT ON MODE 時

SACD デジタルオーディオデータ /VSTEM 通信確認
GU-3618(MAIN UNIT)
- [IC401] 出力 / [IC405] 入力 :
  [SD0-7],[SDCK],[XSAK],[SDEF],[XSHD2],[XSRQ]

N.G. → 半田付けを確認
- [IC401]:35-37,44-48,54,63,67-69pin
- [IC405]:164-176pin
- R414-426

O.K.

DSD データ確認 [1]
GU-3618(MAIN UNIT)
- [IC405]output/[IC801]input:
  [DSARS.],[DSALS.],[DSASW.],[DSAC.],[DSAR.],[DSAL.],[BCKAO.],[EXCK01.]

N.G. → 半田付けを確認
- [IC405]:76,74,71,69,66,64,60,56,55,13pin
- R486-R493
- [IC801]:27,38-44pin

O.K.

DSD データ確認 [2]
GU-3618(MAIN UNIT)
- [IC801]output:
  [TSD0-2.],[TWS.],[TBCK.],[PMCK.]
- [IC801]:4pin(SELEXT)"L"?

N.G. → 半田付けを確認
- [IC801]:17,19-23pin
- R806-R811
- [IC801]:4pin,[IC115]:12pin

O.K.

DSD データ確認 [3]
GU-3618(MAIN UNIT)
- オーディオセレクタ入出力
  [PDATA0-2],[PBCK],[PLRCK],[PMCK]
- [IC124,IC125]:1pin(DSD_SEL)"L"?

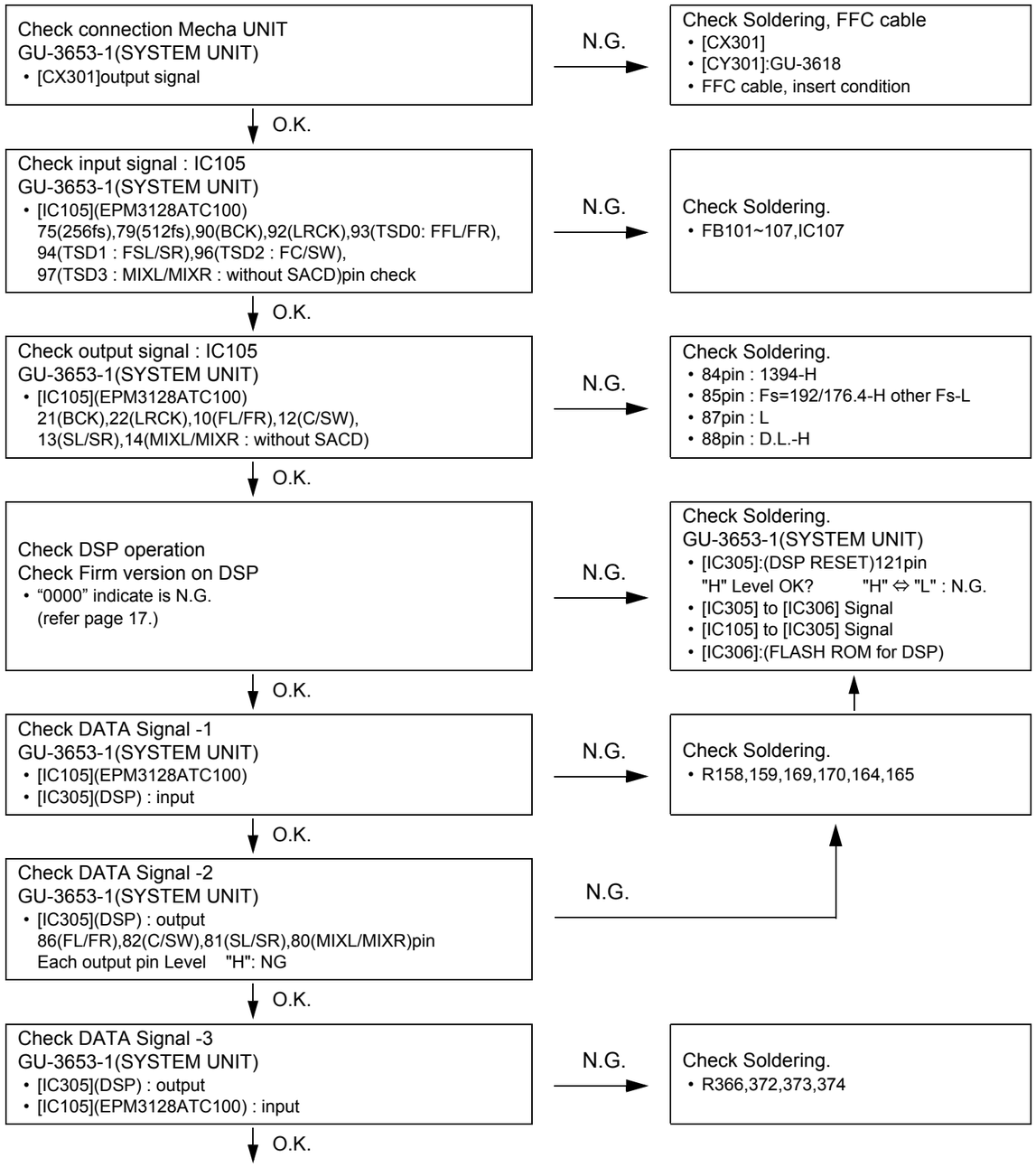
N.G. → • [IC124] と [IC125] とその周辺回路の半田付けを確認

O.K.

GU-3653-1 SYSTEM UNIT/GU-3655-1 AUDIO UNIT のチェック工程へ

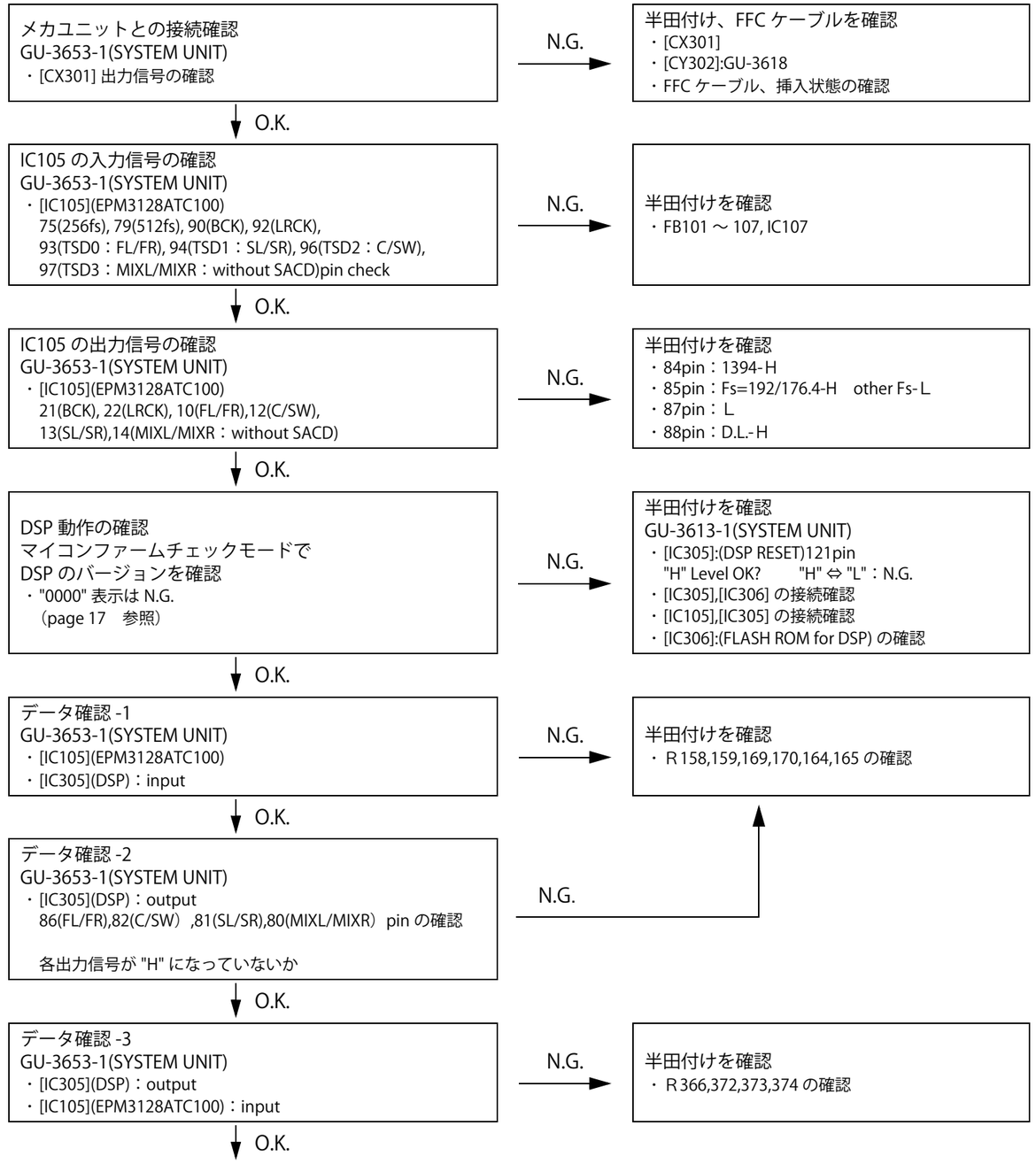
2. GU-3653-1 (SYSTEM UNIT)/GU-3655 (AUDIO UNIT)

(1) CD,DVD-VIDEO/AUDIO,(SACD-SOURCE DIRECT OFF)



2. GU-3653-1 (SYSTEM UNIT)/GU-3655 (AUDIO UNIT)

(1) CD,DVD-VIDEO/AUDIO,(SACD-SOURCE DIRECT OFF)



Check DATA Signal -4
GU-3653-1(SYSTEM UNIT)
- [IC105](EPM3128ATC100) : output to Advanced AL24(MIXL/R) 50~55pin
- [IC502](EP1C12Q240C6) : input 11,28,200,203,206pin
- [IC502](EP1C12Q240C6) : output to DAC(MIXL/R) 95,99,101,104pin
- [IC105](EPM3128ATC100) : output to DAC(FL/FR/C/SW) 44~49,54,55pin

GU-3655-1(AUDIO UNIT)
- [IC401,501](DAC for MIXL / MIXR) : input 4~7pin(WCK,DATA-MIXL / -MIXR,BCK,MCK) ----IC401,501:mono DAC MODE

GU-3655-2(AUDIO UNIT)
- [IC701](DAC for FL/FR) [IC801](DAC for S/SW),[IC901](DAC for SL/SR) : input 4~7pin(LRCK=1fs,DATA,BCK=64fs,MCK=256fs) ----IC701,801,901:stereo DAC MODE

N.G.

Check Soldering.
- CX332,CY332(Connection to 5.1ch AUDIO UNIT) (GU-3653-1 to GU-3655-2)
- CX192,CY192(Connection to MIXch AUDIO UNIT) (GU-3655-1 to GU-3655-2)
- CX173,CX191(Connection to 1394 PWB) (GU-3653-1 to GU-3517)

O.K.

Check DAC output
GU-3655(AUDIO UNIT)
- [IC401][IC501][IC701][IC801][IC901]:output

N.G.

Check Soldering.
/ Check Supply Voltages.
- [IC401][IC501][IC701][IC801][IC901] 10~14pin(control line)

O.K.

Check OP AMP output
GU-3655(AUDIO UNIT)
- [IC403]~[IC406],[IC503~IC506],[IC702~IC705], [IC802~IC805],[IC902~IC905]:output:7pin

N.G.

Check Soldering.
Check Power Supply Voltages.
- [IC403]~[IC406],[IC503~IC506], [IC702~IC705],[IC802~IC805], [IC902~IC905]:output:7pin

O.K.

Check AUDIO OUT
GU-3655(AUDIO UNIT)
- Check OUTPUT terminal (Each channels)

N.G.

Check Soldering.
- MUTE circuit : MUTE TR(TR402~TR403,TR502,TR503, TR703~708,TR803~808,TR903~908) TR-BASE terminal : about -9V (at MUTE off)
- Check Soldering. Output Jack

O.K.

END

データ確認 -4
GU-3653-1(SYSTEM UNIT)
- [IC105](EPM3128ATC100)：output to Advanced AL24(MIXL/R) 50 ～ 55pin
- [IC502](EP1C12Q240C6)：input 11,28,200,203,206pin
- [IC502](EP1C12Q240C6)：output to DAC(MIXL/R) 95,99,101,104pin
- [IC105](EPM3128ATC100)：output to DAC(FL/FR/C/SW) 44 ～ 49,54,55pin

GU-3655-1(AUDIO UNIT)
- [IC401,501](DAC for MIXL / MIXR) : input 4 ～ 7pin(WCK,DATA-MIXL / -MIXR,BCK,MCK ----IC401,501:mono DAC MODE

GU-3655-2(AUDIO UNIT)
- [IC701](DAC for FL/FR) [IC801](DAC for S/SW),[IC901](DAC for SL/SR) : input 4 ～ 7pin(LRCK=1fs,DATA,BCK=64fs,MCK=256fs) ----IC701,801,901:stereo DAC MODE

N.G.

半田付けを確認
- CX332,CY332(Connection to 5.1ch AUDIO UNIT) (GU-3653-1 to GU-3655-2)
- CX192,CY192(Connection to MIXch AUDIO UNIT) (GU-3655-1 to GU-3655-2)
- CX173,CX191(Connection to 1394 PWB) (GU-3653-1 to GU-3517)

O.K.

DAC 出力確認
GU-3655（AUDIO UNIT)
- [IC401][IC501][IC701][IC801][IC901]:output

N.G.

半田付けを確認 / 電源を確認
- [IC401][IC501][IC701][IC801][IC901] 10 ～ 14pin（control line)

O.K.

OP AMP 出力確認
GU-3655（AUDIO UNIT)
- [IC403] ～ [IC406],[IC503 ～ IC506],[IC702 ～ IC705], [IC802 ～ IC805],[IC902 ～ IC905]:output:7pin

N.G.

半田付けを確認
- [IC403] ～ [IC406],[IC503 ～ IC506], [IC702 ～ IC705],[IC802 ～ IC805], [IC902 ～ IC905]:output:7pin

O.K.

出力端子の確認
GU-3655（AUDIO UNIT)
- 各 ch の OUTPUT 端子からの出力信号を確認する

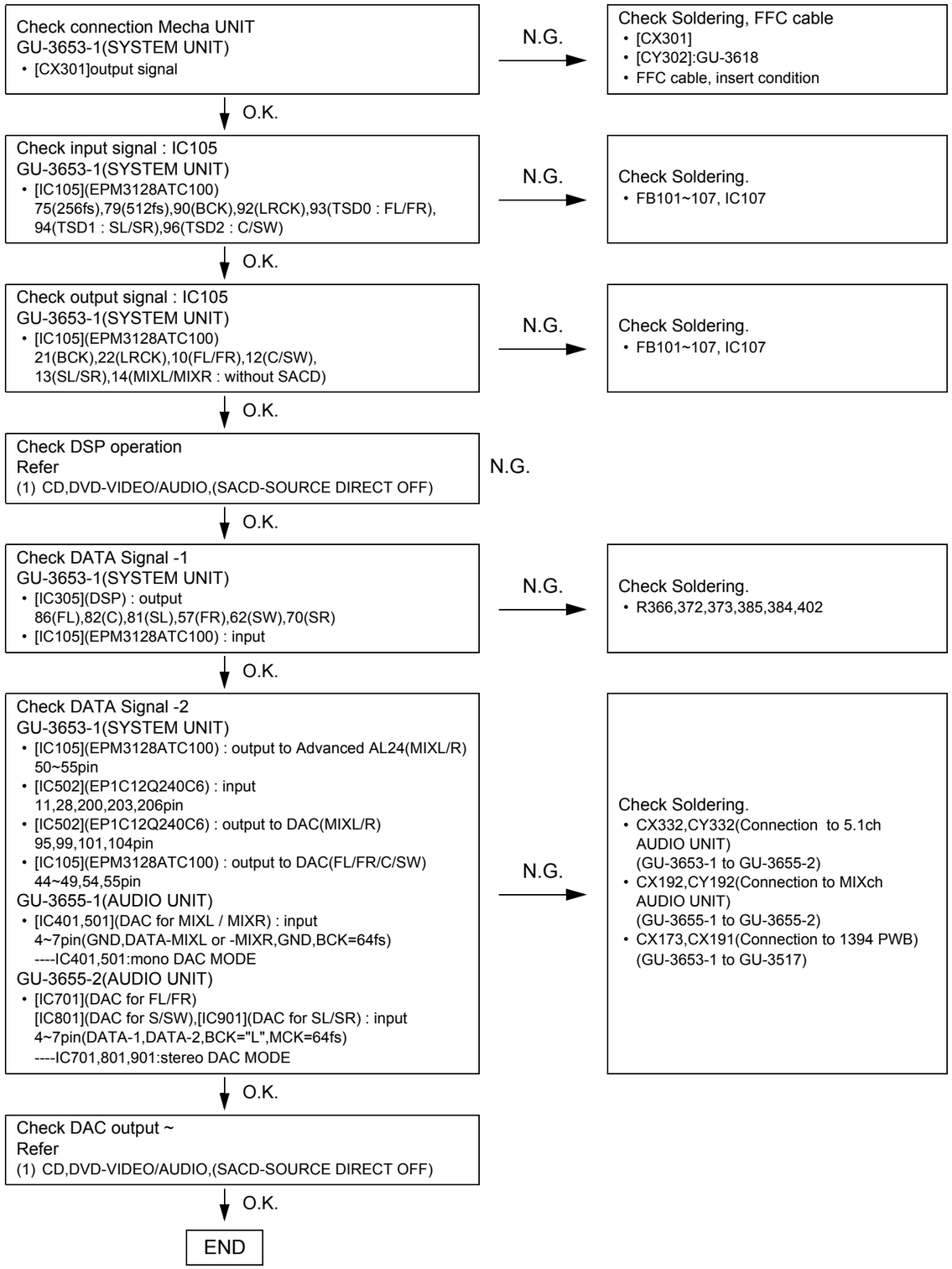
N.G.

半田付けを確認
- MUTE circuit：MUTE TR(TR402、TR403, TR502,TR503,TR703 ～ 708, TR803 ～ 808,TR903 ～ 908) TR-BASE terminal：about -9V (at MUTE off)
- Check Soldering. Output Jack

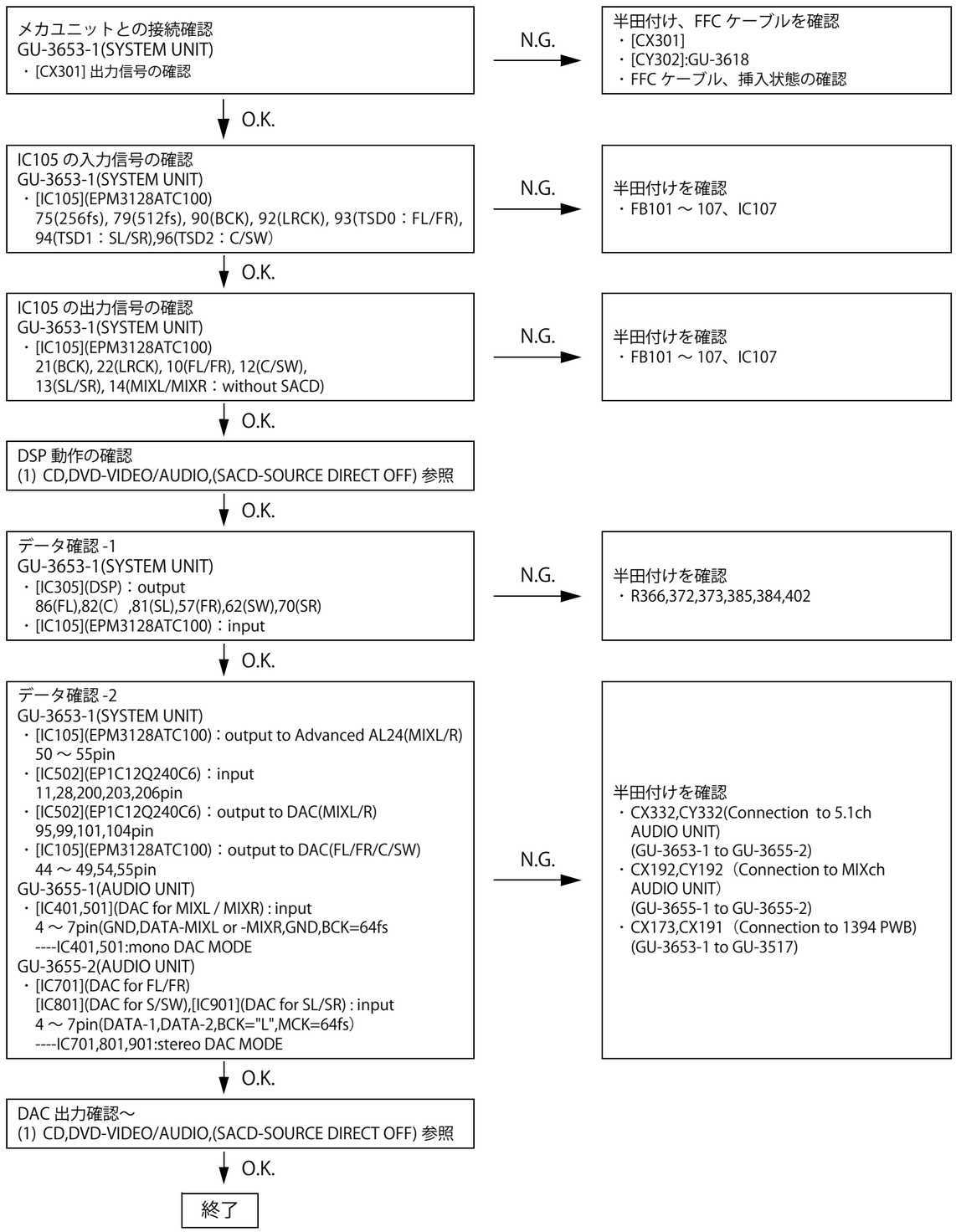
O.K.

終了

(2) SACD-SOURCE DIRECT ON



(2) SACD-SOURCE DIRECT ON

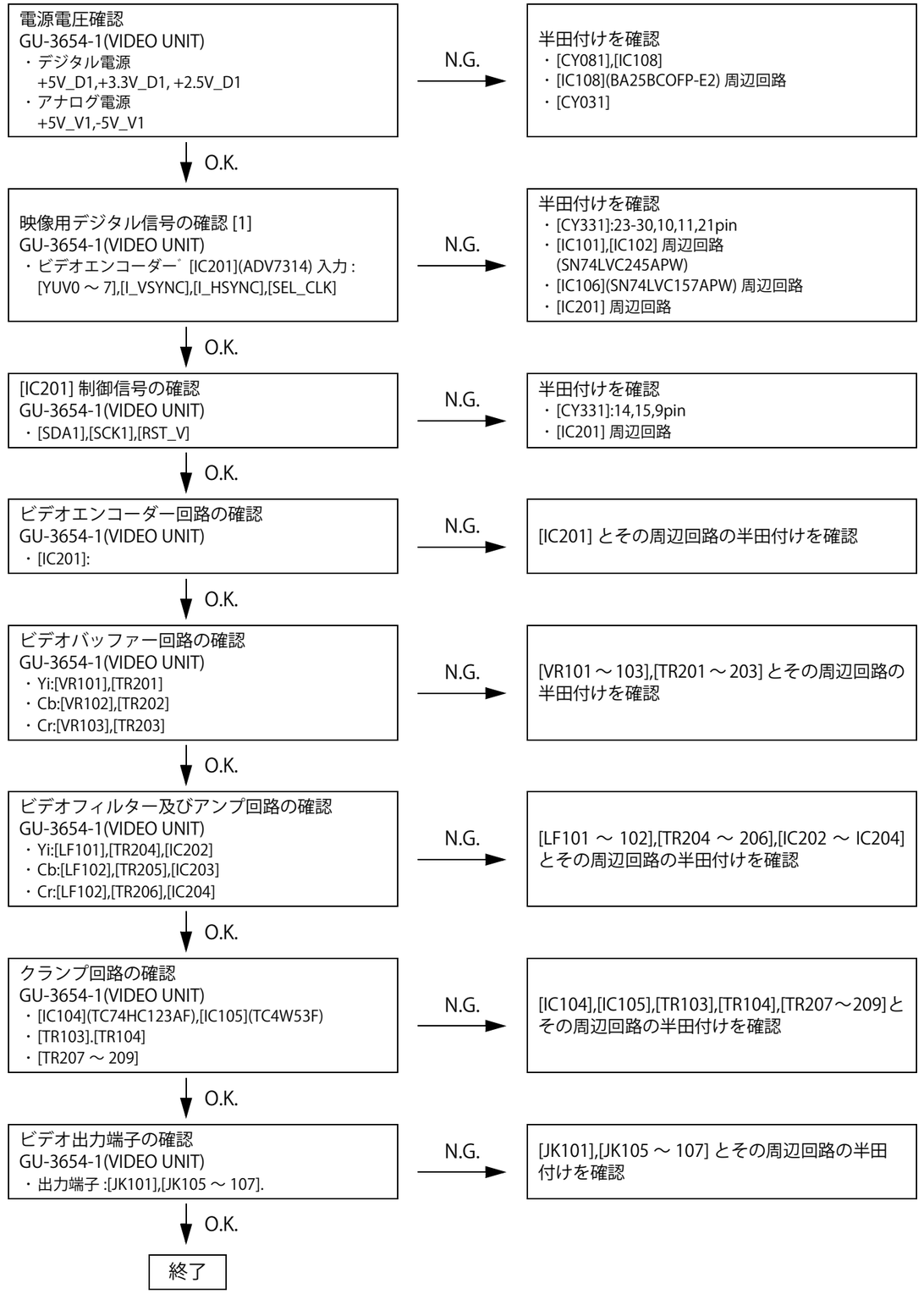


3. GU-3654-1 (VIDEO UNIT)

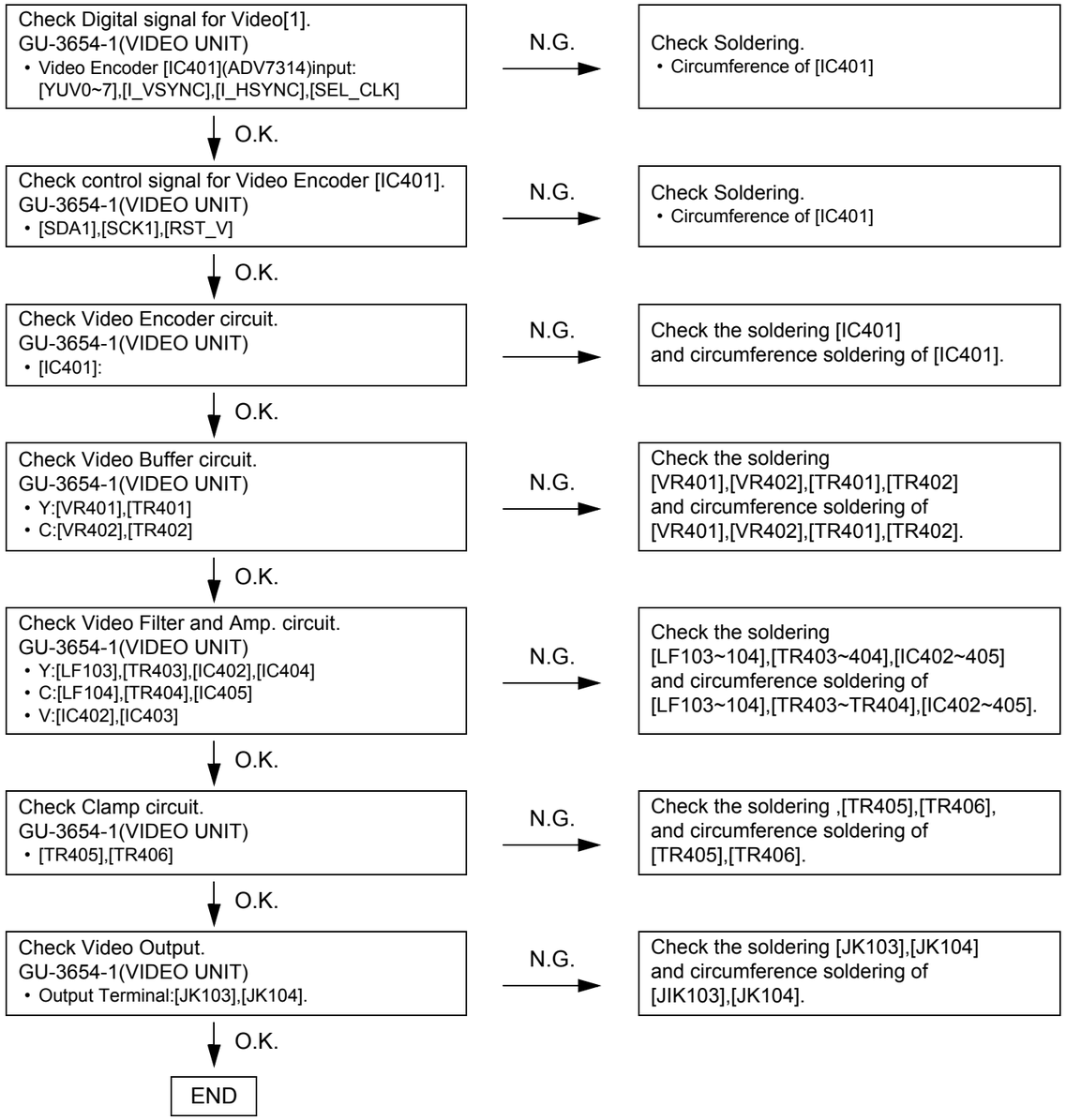
(1) Interlace output [Y,Cb,Cr] does not outputed..

3. GU-3654-1 (VIDEO UNIT)

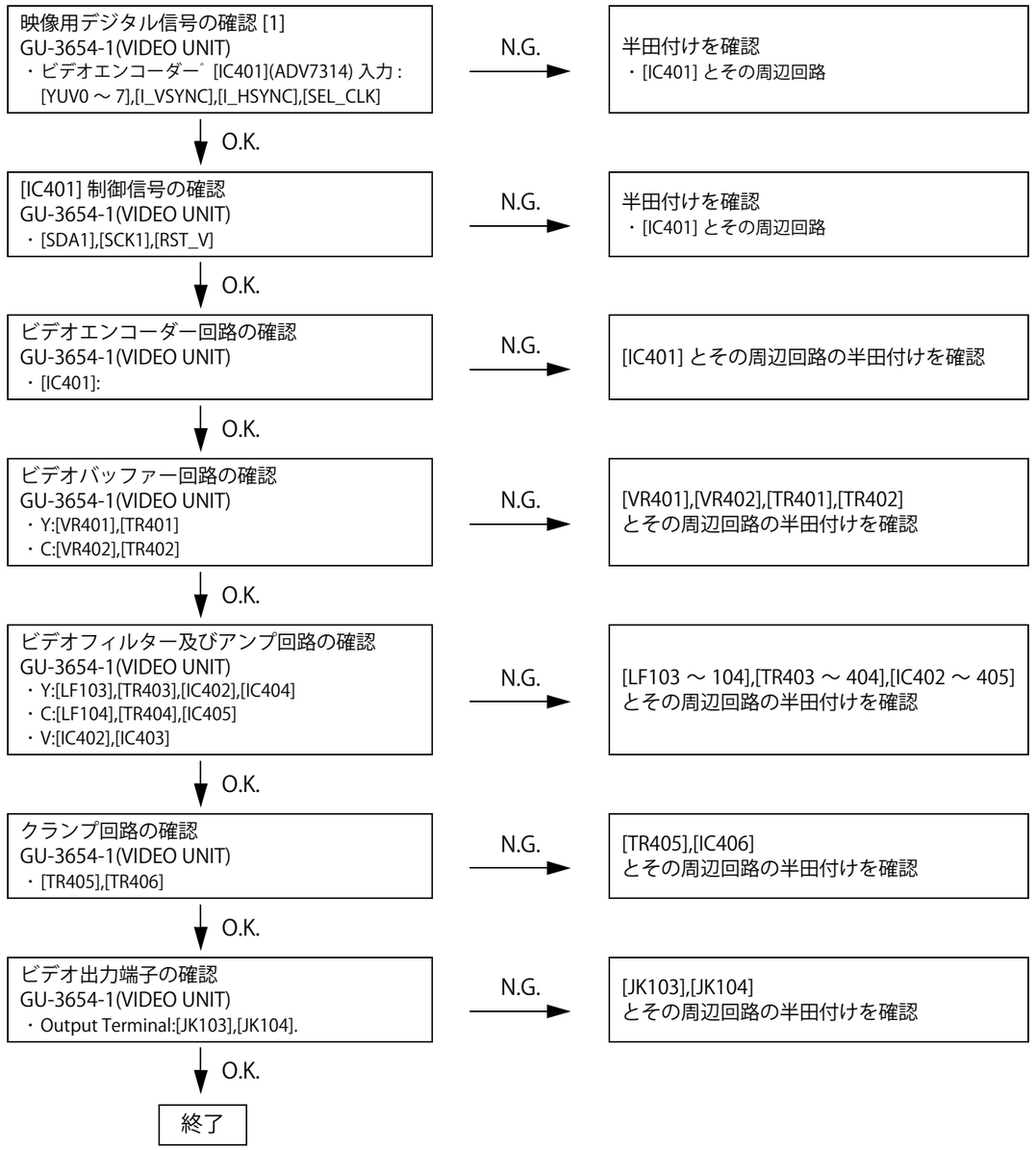
(1) インターレース映像 [Y,Cb,Cr] 出力せず



(2) Interlace output [V-OUT,S-OUT] does not outputed.



(2) インターレース映像 [V-OUT,S-OUT] 出力せず



4. GU-3654-1 (VIDEO UNIT)/GU-3657(IP UNIT)

(1) Progressive output [Y,Pb,Pr] does not outputed.

Check Power Supply Voltages[2].
GU-3657(IP UNIT)
- +3.3V_D2,+2.5V_D3, +1.5V_D1,
- VTT(+1.25V)
- MAVREFR1~2,MBVREFR1~2 (+1.25V)
- VPLL_AVDD,SPLL_AVDD,MPLL_AVDD,SIMD_AVDD

N.G. → Check Soldering.
- [CY059],[CY301]
- Circumference of [IC803](LP2995M)
- R146~R151,C130,C131,C180,C181
- FB101~FB104,C168~C175

O.K. ↓

Check oscillation waveform.
GU-3657(IP UNIT)
- [IC101](sxT2-100):[REFCLKA],[REFCLKB]
  Check point:[R152],[R153]:66.666MHz OK?
- [IC101](sxT2-100):[PCICLK]
  Check point:[R142]:33.333MHz OK?
- [IC701~704](EM6A9320BI-4M):[ACK]
  Check point:[R767]:250MHz OK?

N.G. → Check Soldering.
- Circumference of [X101](66.666MXTAL)
- Circumference of [IC101]
- Circumference of [IC701~704]

O.K. ↓

Check control signal for I/P Convertor [IC101].
GU-3657(IP UNIT)
- [RESETN],[IICO_DAT],[IICO_CLK]

N.G. → Check Soldering.
- [CY301]
- Circumference of [IC103](TC7W241FU)

O.K. ↓

Check Digital signal for Video[2].
GU-3654-1(VIDEO UNIT)
- [IC107],[IC101](SN74LVC243APW)output:
  [YUV0P~7P],[I_VSYNC_P],[I_HSYNC_P],[I_CLK_P]

N.G. → Check Soldering.
- Circumference of [IC101],[IC107]
  (SN74LVC245APW)
- [CX403]

O.K. ↓

Check Digital signal for Video[3].
GU-3657(IP UNIT)
- I/P Convertor [IC101](sxT2-100)input:
  [YUV0~7],[I_VSYNC],[I_HSYNC],[I_CLK]

N.G. → Check Soldering.
- [CY403]
- [RA101],[RA102],[R101~104],[R109~112]

O.K. ↓

Check Digital output for Progressive Video[1].
GU-3657(IP UNIT)
- [IC101]output:
  [YP0~9],[CP0~9],[P_VSYNC],[P_HSYNC],
  [P_DE],[VOACLK]

N.G. → Check Soldering.
- Circumference of [IC101]
- [RA105~8],[R113~120]
- [CY403]

O.K. ↓

Check Digital output for Progressive Video[2].
GU-3654-1(VIDEO UNIT)
- Video Encoder [IC201](ADV7314)input:
  [Y0~9],[C0~9],[P_VSYNC],[P_HSYNC],
  [C_REF],[SEL_CLK]

N.G. → Check Soldering.
- [CX403]
- Circumference of [IC106](SN74LVC157APW)
- Circumference of [IC201]

O.K. ↓

Check Clamp circuit.
GU-3654-1(VIDEO UNIT)
- [IC103],[TR101],[TR102].

N.G. → Check the soldering [IC103],[TR101],[TR102]
and circumference soldering
[IC103],[TR101],[TR102]

O.K. ↓

END

4. GU-3654-1 (VIDEO UNIT)/GU-3657(IP UNIT)

(1) プログレッシブ映像 [Y,Pb,Pr] 出力せず

電源電圧確認 [2]
GU-3657(IP UNIT)
- +3.3V_D2,+2.5V_D3, +1.5V_D1,
- VTT(+1.25V)
- MAVREFR1 ～ 2,MBVREFR1 ～ 2 (+1.25V)
- VPLL_AVDD,SPLL_AVDD,MPLL_AVDD,SIMD_AVDD

N.G. → 半田付けを確認
- [CY059],[CY301]
- [IC803](LP2995M) 周辺回路
- R146 ～ R151,C130,C131,C180,C181
- FB101 ～ FB104,C168 ～ C175

O.K. ↓

発振波形確認
GU-3657(IP UNIT)
- [IC101](sxT2-100):[REFCLKA],[REFCLKB]
  Check point:[R152],[R153]:66.666MHz OK?
- [IC101](sxT2-100):[PCICLK]
  Check point:[R142]:33.333MHz OK?
- [IC701 ～ 704](EM6A9320BI-4M):[ACK]
  Check point:[R767]:250MHz OK?

N.G. → 半田付けを確認
- [X101](66.666MXTAL) 周辺回路
- [IC101] 周辺回路
- [IC701 ～ 704] 周辺回路

O.K. ↓

I/P コンバータ [IC101] 制御信号の確認
GU-3657(IP UNIT)
- [RESETN],[IICO_DAT],[IICO_CLK]

N.G. → 半田付けを確認
- [CY301]
- [IC103](TC7W241FU) 周辺回路

O.K. ↓

映像用デジタル信号の確認 [2]
GU-3654-1(VIDEO UNIT)
- [IC107],[IC101](SN74LVC243APW)output:
  [YUV0P ～ 7P],[I_VSYNC_P],[I_HSYNC_P],[I_CLK_P]

N.G. → 半田付けを確認
- [IC101],[IC107] 周辺回路
- [CX403]

O.K. ↓

映像用デジタル信号の確認 [3]
GU-3657(IP UNIT)
- I/P Convertor [IC101](sxT2-100)input:
  [YUV0 ～ 7],[I_VSYNC],[I_HSYNC],[I_CLK]

N.G. → 半田付けを確認
- [CY403]
- [RA101],[RA102],[R101 ～ 104],[R109 ～ 112]

O.K. ↓

プログレッシブ映像用デジタル信号の確認 [1]
GU-3657(IP UNIT)
- [IC101]output:
  [YP0 ～ 9],[CP0 ～ 9],[P_VSYNC],[P_HSYNC],[P_DE],[VOACLK]

N.G. → 半田付けを確認
- [IC101] 周辺回路
- [RA105 ～ 8],[R113 ～ 120]
- [CY403]

O.K. ↓

プログレッシブ映像用デジタル信号の確認 [2]
GU-3654-1(VIDEO UNIT)
- Video Encoder [IC201](ADV7314)input:
  [Y0 ～ 9],[C0 ～ 9],[P_VSYNC],[P_HSYNC],[C_REF],[SEL_CLK]

N.G. → 半田付けを確認
- [CX403]
- [IC106](SN74LVC157APW) 周辺回路
- [IC201] 周辺回路

O.K. ↓

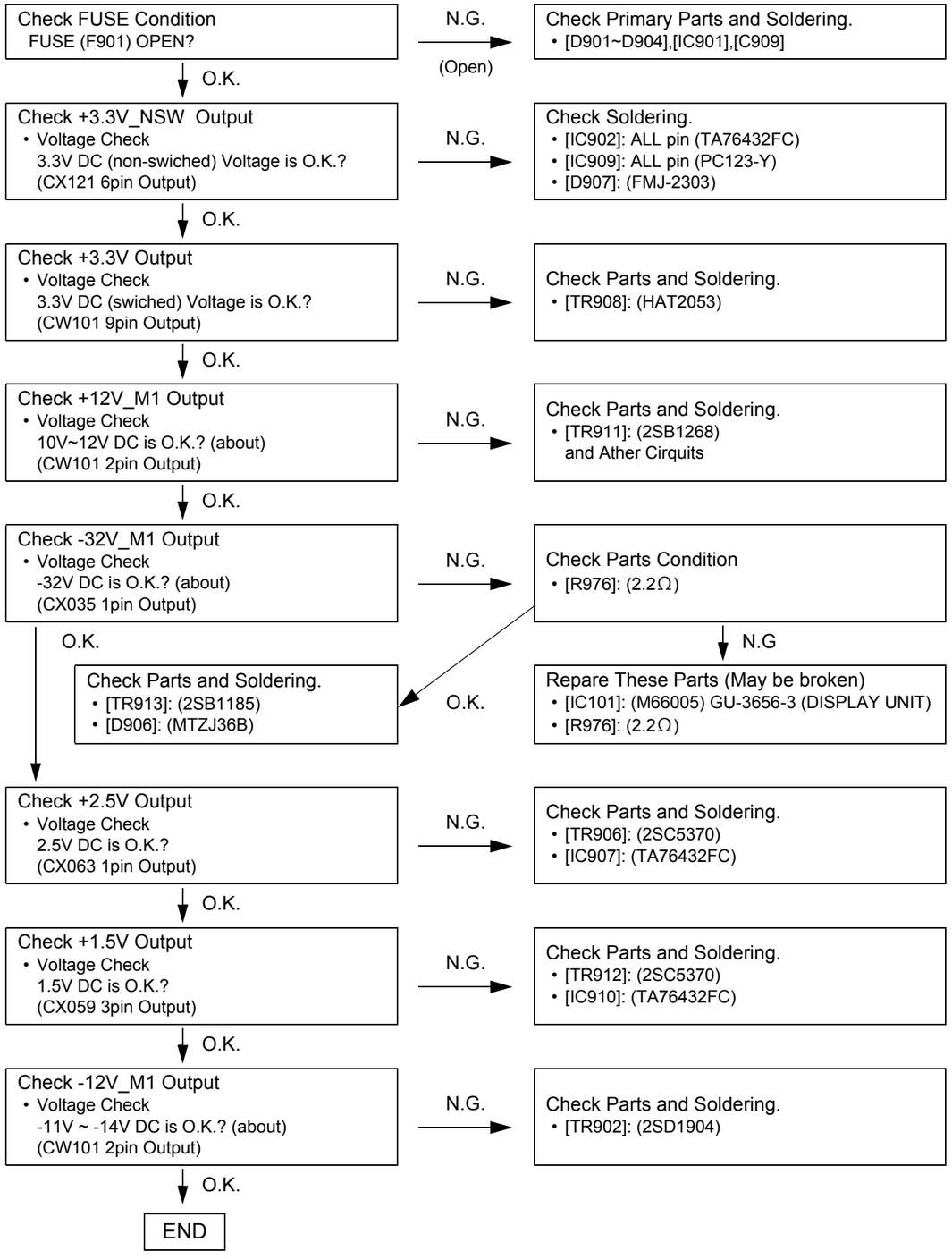
クランプ回路の確認
GU-3654-1(VIDEO UNIT)
- [IC103],[TR101],[TR102].

N.G. → [IC103],[TR101],[TR102] とその周辺回路の
半田付けを確認

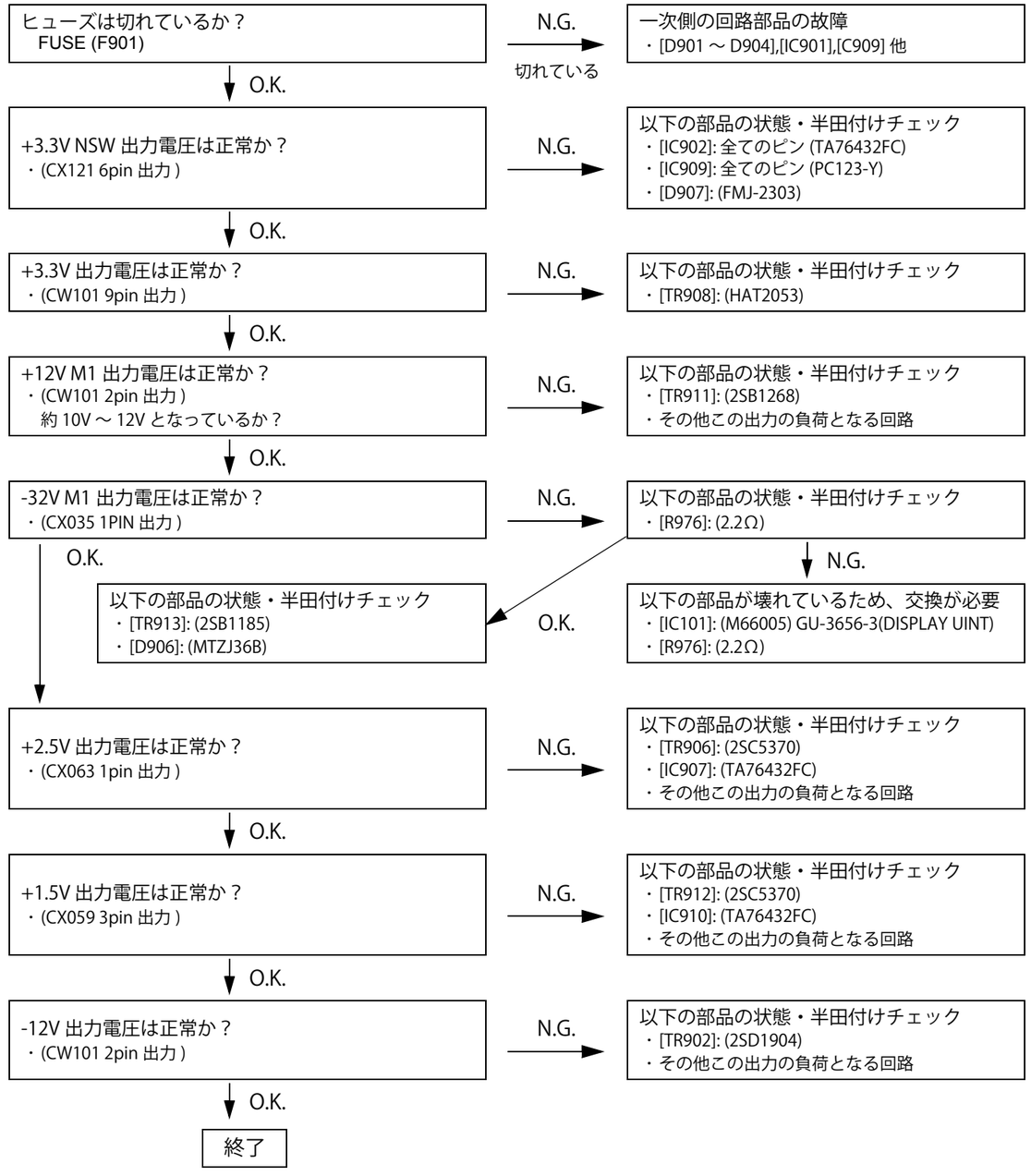
O.K. ↓

終了

5. GU-3656-2 (DIGITAL POWER UNIT)



5. GU-3656-2 (DIGITAL POWER UNIT)



ELECTRICAL ADJUSTMENT FOR VIDEO

1. SETTING

(1) Connect the monitor TV to the video output terminal.

(2) Connect the oscilloscope to the Y-signal and C-signal of S-VIDEO output terminal and each terminate at 75 Ohms.

(3) Connect the oscilloscope to the Y-signal, P_B-signal and P_R-signal of Component video output terminal and each terminate at 75 Ohms.
※ **Use the 75 Ohms resistance must be 1%**

(4) DVD test disc : DVDT-S01

2. BEFORE ADJUSTMENT

2.1. Setting the Oscilloscope as below.

(1) P_B/P_R

(a) TIME/DIV : 20μs

(b) VOLT/DIV : 100mV
(Use the probe : x10)

(2) Y/C

(a) TIME/DIV : 20μs

(b) VOLT/DIV : 50mV
(Use the probe : x10)

Power on. Power Supply

USA & Canada : 120V

Europe : 230V

Japan : 100V

2.2. Preparation

(1) Power on.

(2) Push [OPEN/CLOSE] button, then open the Disc Tray.

(3) Set DVD test disc (DVDT-S01) on the Disc Tray, and then push [CLOSE] button.

(4) FL display appear "STOP", push [PLAY] button to play-back DVD.

(5) Push the [DISPLAY] button of remote control unit and then appear the ON-Screen Display (GUI) on the monitor TV.

(6) Push the [+10] and [2] button, select Title 12 of DVD.

(7) Push the [ENTER] button, playback Title 12.
(color bar 75%)

ビデオ回路の調整

1. セッティング手順

(1) セットの VIDEO OUT 端子にテレビモニターを接続します。

(2) セットの S2 VIDEO OUT 端子から Y 信号と C 信号をそれぞれオシロスコープ（終端抵抗：75Ω）に接続します。

(3) セットの COMPONENT VIDEO OUT の端子（$Y/P_B/P_R$）をそれぞれオシロスコープ（終端抵抗：75Ω）に接続します。
※ **75Ω 抵抗は 1%品を使用する事。**

(4) DVD テストディスク：DVDT-S01 を用意します。

2. 調整のまえに

2.1. オシロスコープを下記に設定

(1) P_B/P_R

(a) TIME/DIV : 20μs

(b) VOLT/DIV : 100mV
（プローブ x10 使用）

(2) Y/C

(a) TIME/DIV : 20μs

(b) VOLT/DIV : 50mV
（プローブ x10 使用）

電源電圧 : 100V

2.2. 準備手順

(1) セットの AC コードをコンセントに挿入し、セットの電源を ON します。

(2) セットの「OPEN/CLOSE」ボタンを押しトレイを開き、トレイ上に DVD テストディスク（DVDT-S01）をセット後、「CLOSE」ボタンを押します。

(3) セット表示管上に "STOP" が表示されてから、「PLAY」ボタンを押し、ディスクを再生します。

(4) リモコンの「DISPLAY」ボタンを押しグラフィカル・ユーザー・インターフェイス（GUI）画面を出します。

(5) 番号ボタンの「+10」「2」ボタンを押し、Title12 を選択します。

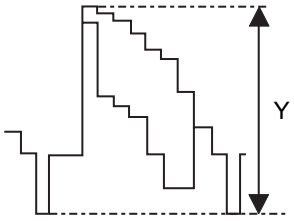
(6) 「ENTER」ボタンを押し、Title12 を再生します。
（75% カラーバー信号）

2.3. Procedure

(1) Adjust the signal of S-VIDEO OUT by the wave of oscilloscope.

(a) Target, Y-signal

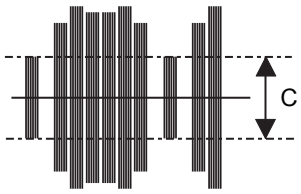
Point : VR104
Adjustment Value : 1000 ± 20mV
Waveform



Y-signal of S-VIDEO OUT

(b) Target, C-signal

Point : VR105
Adjustment Value : *286 ± 5mV
Waveform



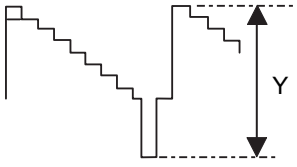
C-signal of S-VIDEO OUT

*300 ± 5mV for Europe model

(2) Adjust the signal of COMPONENT OUT by the wave of oscilloscope.

(a) Target, Y-signal

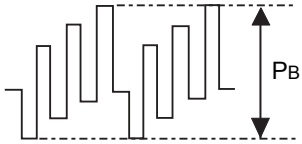
Point : VR101
Adjustment Value : 1000 ± 20mV
Waveform



Y-signal

(b) Target, PB-signal

Point : VR102
Adjustment Value : *525 ± 10mV
Waveform



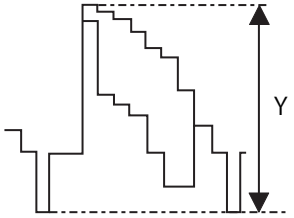
PB-signal

2.3. 手順

(1) セットの S2 VIDEO OUT の信号レベルをオシロスコープ上の波高値で調整します。

(a) Y 信号レベル

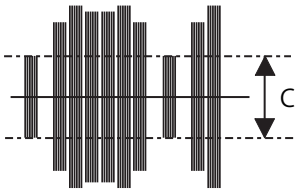
調整個所 : VR104
調整値 : 1000 ± 20mV
波形



S2 VIDEO OUT の Y 信号レベル

(b) C 信号レベル

調整個所 : VR105
調整値 : 286 ± 5mV
波形

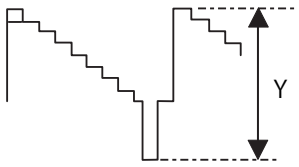


S2 VIDEO OUT の C 信号レベル

(2) COMPONENT OUT の信号レベルをオシロスコープ上の波高値で調整します。

(a) Y 信号レベル

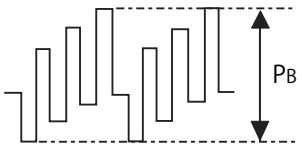
調整個所 : VR101
調整値 : 1000 ± 20mV
波形



プログレッシブの Y 信号レベル

(b) PB 信号レベル

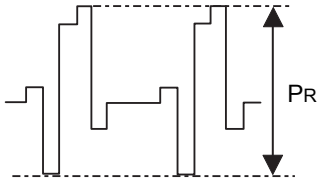
調整個所 : VR102
調整値 : 525 ± 10mV
波形



PB 信号レベル

(c) Target, PR-signal

Point	:	VR103
Adjustment Value	:	*525 ± 10mV
Waveform		

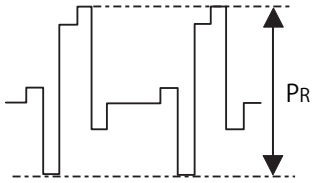


PR-signal

*486 ± 10mV for U.S.A. & Canada model

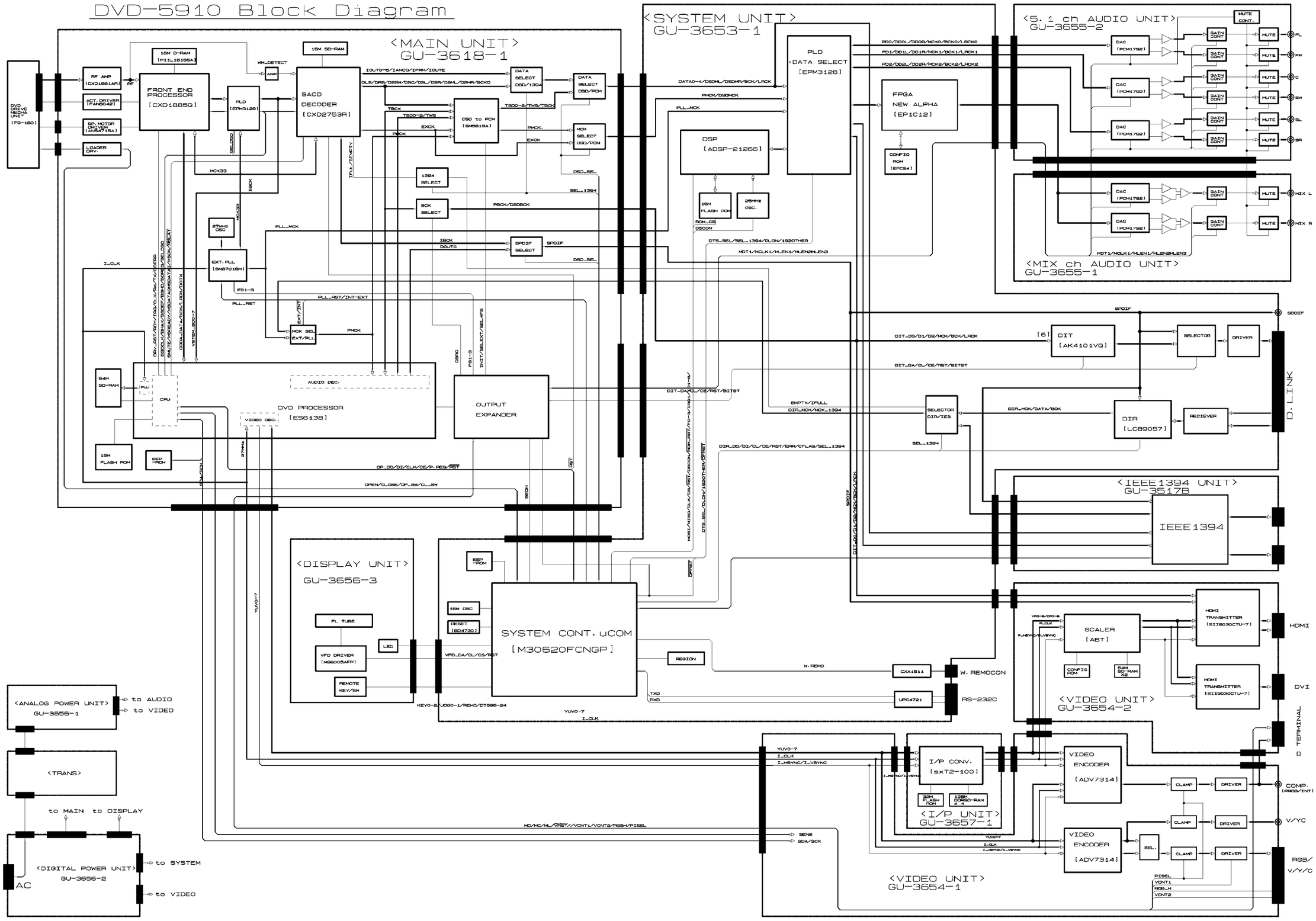
(c) PR/CR 信号レベル

調整個所	:	VR103
調整値	:	525 ± 10mV
波形		



PR 信号レベル

BLOCK DIAGRAM



SEMICONDUCTORS / 半導体一覧表

Only major IC's are shown, general IC's etc. are omitted to list.
主な半導体を記載しています。汎用の半導体等は記載を省略しています。

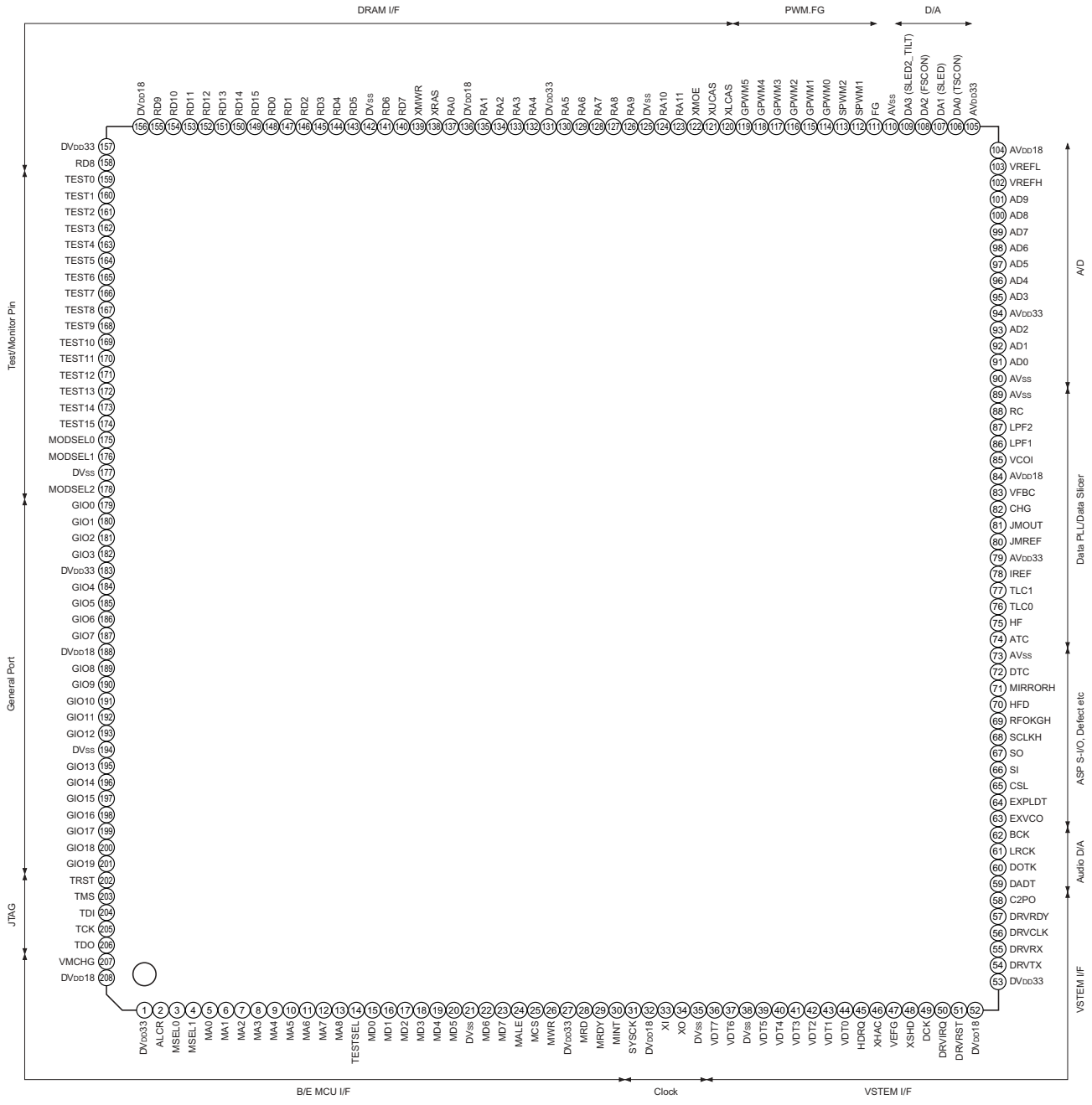
● IC's

Note: Abbreviation ahead of IC No. indicates the name of P.W.B., etc.
注) : IC No. の前の記号は、基板の名称を表します。

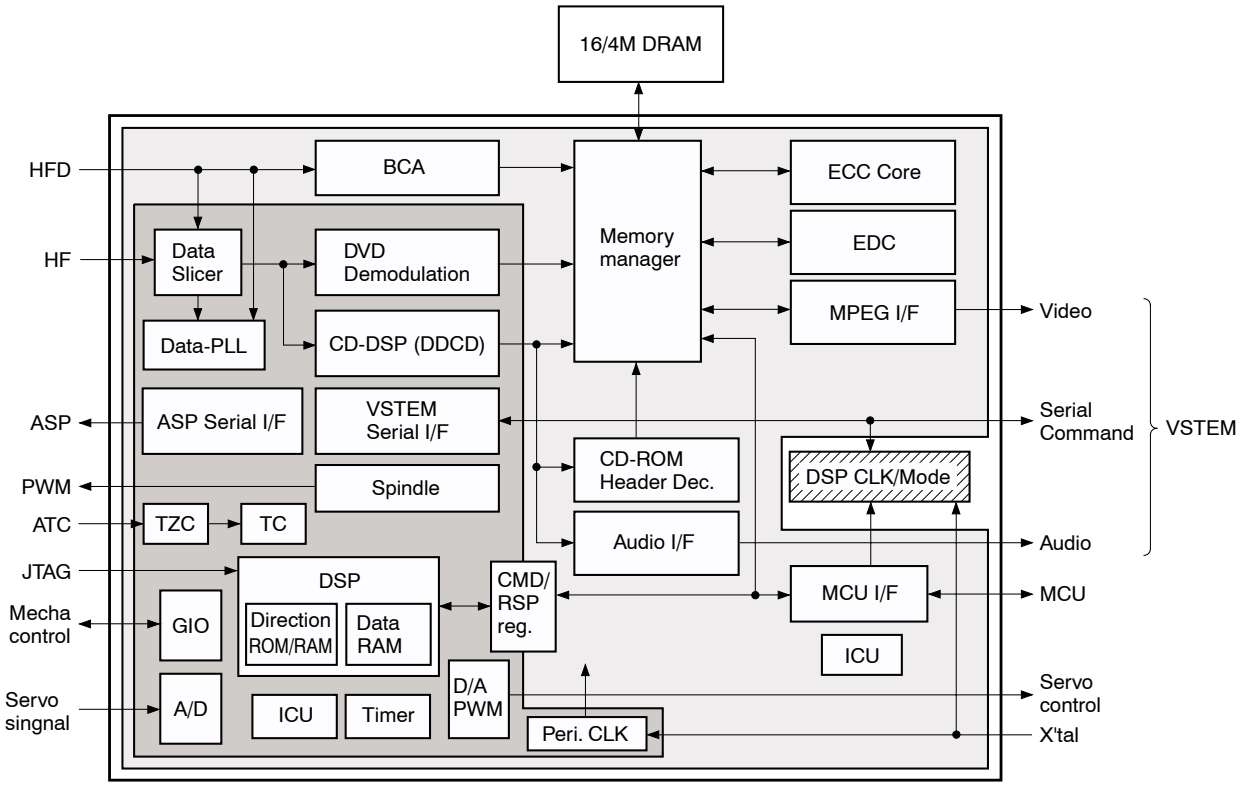
MA: Main P.W.B.　IE : IEEE1394 P.W.B.　VI: VIDEO P.W.B.　PO: POWER P.W.B.
SY: System P.W.B.　AP: Audio/Power P.W.B.　IP: IP P.W.B.

CXD1885Q(MA:IC507)

Top View



Block Diagram



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

No.	Terminal Name	I/O	A/D	Classification	Function	PU	PD	SMT
1	DVDD33	P		VDD & GND	Digital 3.3V Power for I/O.			
2	ALCR	I	D	MCU I/F	Chip select input. (L: Reset)	*		*
3	MSEL0	I	D	MCU I/F	MCU I/F mode select 0.			*
4	MSEL1	I	D	MCU I/F	MCU I/F mode select 1.			*
5	MA0	I/O	D	MCU I/F	MCU Adress input 0 / data I/O 0 <LSB>.			*
6	MA1	I/O	D	MCU I/F	MCU Adress input 1 / data I/O 1.			*
7	MA2	I/O	D	MCU I/F	MCU Adress input 2 / data I/O 2.			*
8	MA3	I/O	D	MCU I/F	MCU Adress input 3 / data I/O 3.			*
9	MA4	I/O	D	MCU I/F	MCU Adress input 4 / data I/O 4.			*
10	MA5	I/O	D	MCU I/F	MCU Adress input 5 / data I/O 5.			*
11	MA6	I/O	D	MCU I/F	MCU Adress input 6 / data I/O 6.			*
12	MA7	I/O	D	MCU I/F	MCU Adress input 7 / data I/O 7.			*
13	MA8	I	D	MCU I/F	MCU Adress 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 Adress 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)			

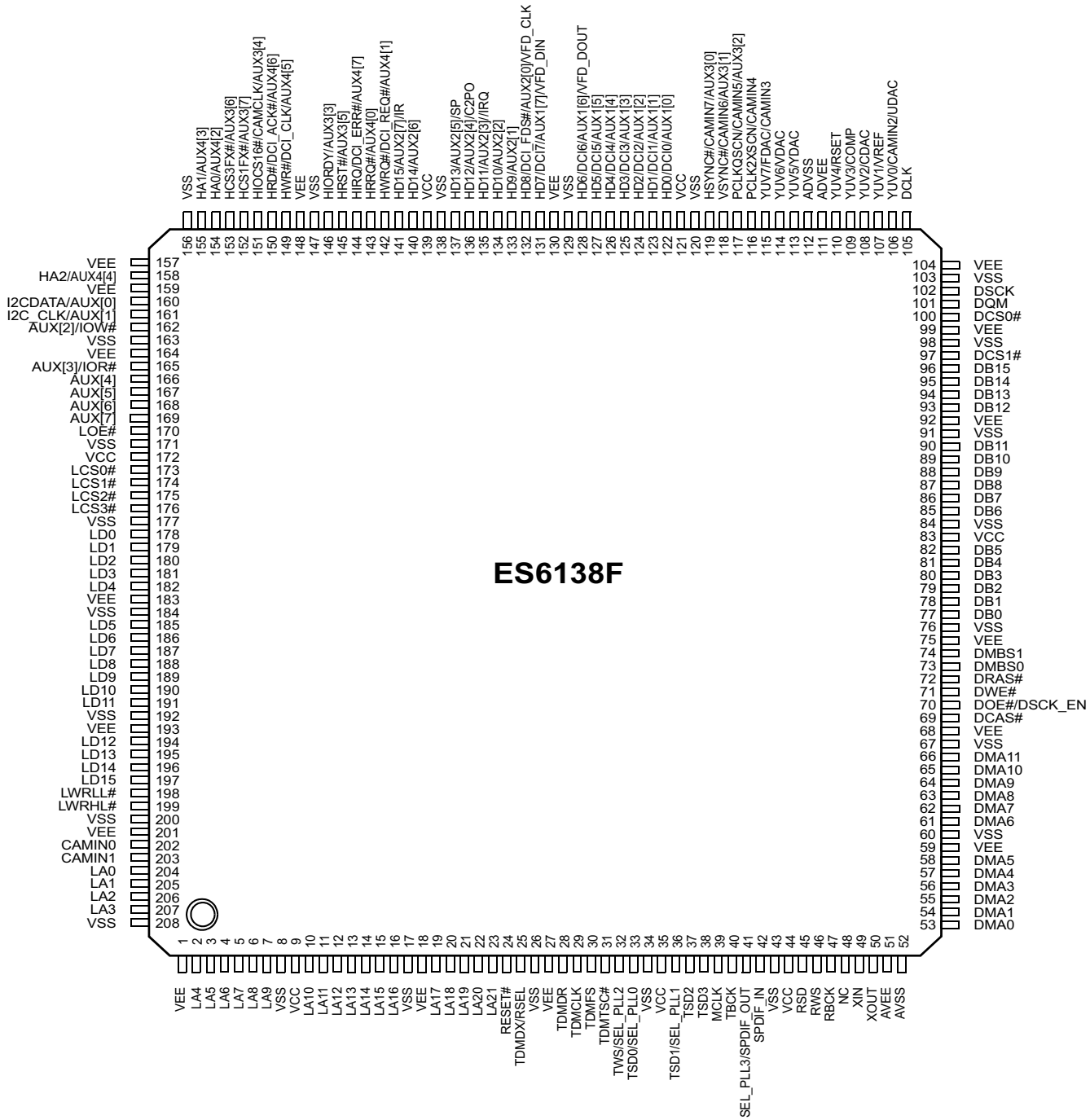
No.	Terminal Name	I/O	A/D	Classification	Function	PU	PD	SMT
31	SYSCK	O	D	Clock	Clock Monitor output.			
32	DVDD18	P		VDD & GND	Digital 1.8V Power. (Internal logic system power)			
33	XI	I	D	Clock	Crystal oscillation input.			
34	XO	O	D	Clock	Crystal oscillation output.			
35	DVSS	P		VDD & GND	Digital Ground.			
36	VDT7	O	D	VSTEM A/V	MPEG data output 7.			
37	VTD6	O	D	VSTEM A/V	MPEG data output 6.			
38	DVSS	P		VDD & GND	Digital Ground.			
39	VDT5	O	D	VSTEM A/V	MPEG data output 5.			
40	VDT4	O	D	VSTEM A/V	MPEG data output 4.			
41	VDT3	O	D	VSTEM A/V	MPEG data output 3.			
42	VDT2	O	D	VSTEM A/V	MPEG data output 2.			
43	VDT1	O	D	VSTEM A/V	MPEG data output 1.			
44	VDT0	O	D	VSTEM A/V	MPEG data output 0.			
45	HDRQ	I	D	VSTEM A/V	MPEG data Request input.	*		
46	XHAC	O	D	VSTEM A/V	Data Valid output.			
47	VEFG	O	D	VSTEM A/V	ECC Error-sector Flag output. (L: error sector)			
48	XSHD	O	D	VSTEM A/V	DVD Sector Head Flag output.			
49	DCK	O	D	VSTEM A/V	Data Strobe output.			
50	DRVIRQ	O	D	VSTEM Command	Interrupt Request output for Host. (L: interruption is demanded)			
51	DRVRST	I	D	VSTEM Command	Drive H/W Reset input. (L: reset)	*		*
52	DVDD18	P		VDD & GND	Digital 1.8V power for Internal logic system.			
53	DVDD33	P		VDD & GND	Digital 3.3V Power for I/O.			
54	DRVTX	O	D	VSTEM Command	Transmitting serial data output to Host.			
55	DRVRX	I	D	VSTEM Command	Reception serial data input from Host.			
56	DRVCLK	I	D	VSTEM Command	Clock input from Host.			*
57	DRVRDY	O	D	VSTEM Command	Drive Ready signal output. (L: ready)			
58	C2PO	O	D	Audio I/F	CD-DSP C2 Pointer output.			
59	DADT	O	D	Audio I/F	Audio serial data output.			
60	DOTX	O	D	Audio I/F	Digital audio output.			
61	LRCK	O	D	Audio I/F	L/R Clock output.			
62	BCK	O	D	Audio I/F	Audio Bit Clock output.			
63	EXVCO	I	D	TEST/Monitor	External Channel clock input.			
64	EXPLDT	I	D	TEST/Monitor	External RF data input. (Logic level)			
65	CSL	O	D	ASP I/F	SIO for RF signal processing LSI control. Latch signal output.			
66	SI	I	D	ASP I/F	SIO for RF signal processing LSI control. Serial data input.			
67	SO	O	D	ASP I/F	SIO for RF signal processing LSI control. Serial data output.			
68	SCLKH	O	D	ASP I/F	SIO for RF signal processing LSI control. Serial clock output.			
69	RFOKGH	I	D	ASP I/F	RF O.K. Signal input.			*
70	HFD	I	D	ASP I/F	RF lack Signal input.			*
71	MIRRORH	I	D	ASP I/F	Mirror detected signal input.(H: Mirror detected)			*
72	DTC	I	D	ASP I/F	Track cross signal input. (Logic level input)			*
73	AVSS	P		VDD & GND	Analog Ground.			
74	ATC	I	A	Data PLL	Track Cross signal input. (Analog level input)			
75	HF	I	A	Data PLL	RF signal input.			
76	TLC0	O	A	Data PLL	Asymmetry Charge-pump output 0.			
77	TLC1	O	A	Data PLL	Asymmetry Charge-pump output 1			
78	IREF	I	A	Data PLL	Reference current setting terminal for Asymmetry Circuit.			
79	AVDD33	P		VDD & GND	Analog 3.3V Power.			
80	JMREF	I	A	Data PLL	Reference current setting terminal for Jitter Monitor			
81	JMOUT	O	A	Data PLL	Jitter Monitor output.			
82	CHG	I	A	Data PLL	Reference current setting terminal for data PLL.			
83	VFBC	I	A	Data PLL	VCO offset frequency setting terminal for data PLL.			
84	AVDD18	P		VDD & GND	Analog 1.8V Power.			
85	VCOI	I	A	Data PLL	VCO Control voltage input terminal for data PLL.			
86	LPF1	O	A	Data PLL	VCO Loop-filter connection terminal 1 for data PLL.			
87	LPF2	O	A	Data PLL	VCO Loop-filter connection terminal 2 for data PLL			
88	RC	I	A	Data PLL	VCO gain setting terminal for data PLL.			
89	AVSS	P		VDD & GND	Analog Ground.			
90	AVSS	P		VDD & GND	Analog Ground.			
91	AD0	I	A	ADC	AD0 Input.			

No.	Terminal Name	I/O	A/D	Classification	Function	PU	PD	SMT
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.			
102	VREFH	I/O	A	ADC	Max Reference Voltage input for ADC. (Internal Reference Voltage mode, it will be an output state)			
103	VREFL	I/O	A	ADC	Min Reference Voltage input for ADC. (Internal Reference Voltage mode, it will be an output state)			
104	AVDD18	P		VDD & GND	Analog 1.8V Power.			
105	AVDD33	P		VDD & GND	Analog 3.3V Power.			
106	DA0 (TSCON)	O	A	DAC	DA0 output. (Track Servo output)			
107	DA1 (SLED)	O	A	DAC	DA1 output. (Sled Servo output)			
108	DA2 (FSCON)	O	A	DAC	DA2 output. (Forcus Servo output)			
109	DA3 (SLED2_ TILT)	O	A	DAC	DA3 output. (Sled Servo / Tilt Servo output)			
110	AVSS	P		VDD & GND	Analog Ground			
111	FG	I	D	SPM	FG signal input.			*
112	SPWM1	O	D	SPM	Spindle motor PWM output 1.			
113	SPWM2	O	D	SPM	Spindle motor PWM output 2.			
114	GPWM0	O	D	General PWM	Multi-purpose PWM output 0.			
115	GPWM1	O	D	General PWM	Multi-purpose PWM output 1.			
116	GPWM2	O	D	General PWM	Multi-purpose PWM output 2.			
117	GPWM3	O	D	General PWM	Multi-purpose PWM output 3.			
118	GPWM4	O	D	General PWM	Multi-purpose PWM output 4.			
119	GPWM5	O	D	General PWM	Multi-purpose PWM output 5.			
120	XLCAS	O	D	DRAM I/F	DRAM LCAS output. (Low-Byte row address strobe output)			
121	XUCAS	O	D	DRAM I/F	DRAM UCAS output. (Upper-Byte row address strobe output)			
122	XMOE	O	D	DRAM I/F	DRAM output enable.			
123	RA11	O	D	DRAM I/F	DRAM address output terminal 11.			
124	RA10	O	D	DRAM I/F	DRAM address output terminal 10.			
125	DVSS	P		VDD & GND	Digital Ground.			
126	RA9	O	D	DRAM I/F	DRAM address output terminal 9.			
127	RA8	O	D	DRAM I/F	DRAM address output terminal 8.			
128	RA7	O	D	DRAM I/F	DRAM address output terminal 7.			
129	RA6	O	D	DRAM I/F	DRAM address output terminal 6.			
130	RA5	O	D	DRAM I/F	DRAM address output terminal 5.			
131	DVDD33	P		VDD & GND	Digital 3.3V Power. (for I/O)			
132	RA4	O	D	DRAM I/F	DRAM address output terminal 4.			
133	RA3	O	D	DRAM I/F	DRAM address output terminal 3.			
134	RA2	O	D	DRAM I/F	DRAM address output terminal 2.			
135	RA1	O	D	DRAM I/F	DRAM address output terminal 1.			
136	DVDD18	P		VDD & GND	Digital 1.8V Power. (for Internal Logic power)			
137	RA0	O	D	DRAM I/F	DRAM address output terminal 0.			
138	XRAS	O	D	DRAM I/F	DRAM RAS output. (Column address strobe output)			
139	XMWR	O	D	DRAM I/F	DRAM Write enable.			
140	RD7	I/O	D	DRAM I/F	DRAM data input/output terminal 7.	*		
141	RD6	I/O	D	DRAM I/F	DRAM data input/output terminal 6.	*		
142	DVSS	P		VDD & GND	Digital Ground.			
143	RD5	I/O	D	DRAM I/F	DRAM data input/output terminal 5.	*		
144	RD4	I/O	D	DRAM I/F	DRAM data input/output terminal 4.	*		
145	RD3	I/O	D	DRAM I/F	DRAM data input/output terminal 3.	*		
146	RD2	I/O	D	DRAM I/F	DRAM data input/output terminal 2.	*		
147	RD1	I/O	D	DRAM I/F	DRAM data input/output terminal 1.	*		
148	RD0	I/O	D	DRAM I/F	DRAM data input/output terminal 0.	*		
149	RD15	I/O	D	DRAM I/F	DRAM data input/output terminal 15.	*		

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

ES6138F (MA: IC108)

PINOUT DIAGRAM



ES6138F Pin Description

<table>
<tr><th>Name</th><th>Pin Numbers</th><th>I/O</th><th>Definition</th></tr>
<tr><td>VEE</td><td>1,18, 27, 59, 68, 75, 92, 99, 104, 130, 148, 157, 159, 164, 183, 193, 201</td><td>P</td><td>I/O power supply.</td></tr>
<tr><td>LA[21:0]</td><td>2:7, 10:16, 19:23, 204:207</td><td>O</td><td>RISC port address bus.</td></tr>
<tr><td>VSS</td><td>8, 17, 26, 34, 43, 60, 67, 76, 84, 91, 98, 103, 120, 129, 138, 147, 156, 163, 171, 177, 184, 192, 200, 208</td><td>G</td><td>Ground.</td></tr>
<tr><td>VCC</td><td>9, 35, 44, 83, 121, 139, 172</td><td>P</td><td>Core power supply.</td></tr>
<tr><td>RESET#</td><td>24</td><td>I</td><td>Reset input (active-low).</td></tr>
<tr><td>TDMDX</td><td rowspan="2">25</td><td>O</td><td>TDM transmit data output.</td></tr>
<tr><td>RSEL</td><td>I</td><td>LCS3 ROM Boot Data Width Select. Strapped to VCC or ground via 4.7-kΩ resistor; read only during reset.
<table>
<tr><th>RSEL</th><th>Selection</th></tr>
<tr><td>0</td><td>16-bit ROM</td></tr>
<tr><td>1</td><td>8-bit ROM</td></tr>
</table></td></tr>
<tr><td>TDMDR</td><td>28</td><td>I</td><td>TDM receive data input.</td></tr>
<tr><td>TDMCLK</td><td>29</td><td>I</td><td>TDM clock input.</td></tr>
<tr><td>TDMFS</td><td>30</td><td>I</td><td>TDM frame sync input.</td></tr>
<tr><td>TDMTSC#</td><td>31</td><td>O</td><td>TDM output enable (active-low).</td></tr>
<tr><td>TWS</td><td rowspan="2">32</td><td>O</td><td>Audio transmit frame sync output.</td></tr>
<tr><td>SEL_PLL2</td><td>I</td><td>System and DSCK output clock frequency selection is made at the rising edge of RESET#. The matrix below lists the available clock frequencies and their respective PLL bit settings. Strapped to VCC or ground via 4.7-kΩ resistor; read only during reset.
<table>
<tr><th>SEL_PLL2</th><th>SEL_PLL1</th><th>SEL_PLL0</th><th>PLL Settings</th></tr>
<tr><td>0</td><td>0</td><td>0</td><td>DCLK × 4.5</td></tr>
<tr><td>0</td><td>0</td><td>1</td><td>DCLK × 5.0</td></tr>
<tr><td>0</td><td>1</td><td>0</td><td>Bypass</td></tr>
<tr><td>0</td><td>1</td><td>1</td><td>DCLK × 4.0</td></tr>
<tr><td>1</td><td>0</td><td>0</td><td>DCLK × 4.25</td></tr>
<tr><td>1</td><td>0</td><td>1</td><td>DCLK × 4.75</td></tr>
<tr><td>1</td><td>1</td><td>0</td><td>DCLK × 5.5</td></tr>
<tr><td>1</td><td>1</td><td>1</td><td>DCLK × 6.0</td></tr>
</table></td></tr>
</table>

ES6138F Pin Description (Continued)

<table>
<tr><th>Name</th><th>Pin Numbers</th><th>I/O</th><th>Definition</th></tr>
<tr><td>TSD0</td><td rowspan="2">33</td><td>O</td><td>Audio transmit serial data port 0.</td></tr>
<tr><td>SEL_PLL0</td><td>I</td><td>Refer to the description and matrix for SEL_PLL2 pin 32.</td></tr>
<tr><td>TSD1</td><td rowspan="2">36</td><td>O</td><td>Audio transmit serial data port 1.</td></tr>
<tr><td>SEL_PLL1</td><td>I</td><td>Refer to the description and matrix for SEL_PLL2 pin 32.</td></tr>
<tr><td>TSD2</td><td>37</td><td>O</td><td>Audio transmit serial data output 2.</td></tr>
<tr><td>TSD3</td><td>38</td><td>O</td><td>Audio transmit serial data output 3.</td></tr>
<tr><td>NC</td><td>48</td><td>—</td><td>No connect pins. Leave open.</td></tr>
<tr><td>MCLK</td><td>39</td><td>I/O</td><td>Audio master clock for audio DAC.</td></tr>
<tr><td>TBCK</td><td>40</td><td>O</td><td>Audio transmit bit clock.</td></tr>
<tr><td>SEL_PLL3</td><td rowspan="2">41</td><td>I</td><td>Clock source select. Strapped to VCC or ground via 4.7-kΩ resistor; read only during reset.
<table><tr><th>SEL_PLL3</th><th>Clock Source</th></tr><tr><td>0</td><td>Crystal oscillator</td></tr><tr><td>1</td><td>DCLK input</td></tr></table></td></tr>
<tr><td>SPDIF_OUT</td><td>O</td><td>S/PDIF output.</td></tr>
<tr><td>SPDIF_IN</td><td>42</td><td>I</td><td>S/PDIF input.</td></tr>
<tr><td>RSD</td><td>45</td><td>I</td><td>Audio receive serial data.</td></tr>
<tr><td>RWS</td><td>46</td><td>I</td><td>Audio receive frame sync.</td></tr>
<tr><td>RBCK</td><td>47</td><td>I</td><td>Audio receive bit clock.</td></tr>
<tr><td>XIN</td><td>49</td><td>I</td><td>27-MHz crystal input.</td></tr>
<tr><td>XOUT</td><td>50</td><td>O</td><td>27-MHz crystal output.</td></tr>
<tr><td>AVEE</td><td>51</td><td>P</td><td>Analog power for PLL.</td></tr>
<tr><td>AVSS</td><td>52</td><td>G</td><td>Analog ground for PLL.</td></tr>
<tr><td>DMA[11:0]</td><td>53:58, 61:66</td><td>O</td><td>DRAM address bus.</td></tr>
<tr><td>DCAS#</td><td>69</td><td>O</td><td>DRAM column address strobe.</td></tr>
<tr><td>DOE#</td><td rowspan="2">70</td><td>O</td><td>DRAM output enable (active-low).</td></tr>
<tr><td>DSCK_EN</td><td>O</td><td>DRAM clock enable.</td></tr>
<tr><td>DWE#</td><td>71</td><td>O</td><td>DRAM write enable (active-low).</td></tr>
<tr><td>DRAS#</td><td>72</td><td>O</td><td>DRAM row address strobe (active-low).</td></tr>
<tr><td>DMBS0</td><td>73</td><td>O</td><td>DRAM bank select 0.</td></tr>
<tr><td>DMBS1</td><td>74</td><td>O</td><td>DRAM bank select 1.</td></tr>
<tr><td>DB[15:0]</td><td>77:82, 85:90, 93:96</td><td>I/O</td><td>DRAM data bus.</td></tr>
<tr><td>DCS[1:0]#</td><td>97,100</td><td>O</td><td>DRAM chip select (active-low).</td></tr>
<tr><td>DQM</td><td>101</td><td>O</td><td>Data input/output mask.</td></tr>
</table>

ES6138F Pin Description (Continued)

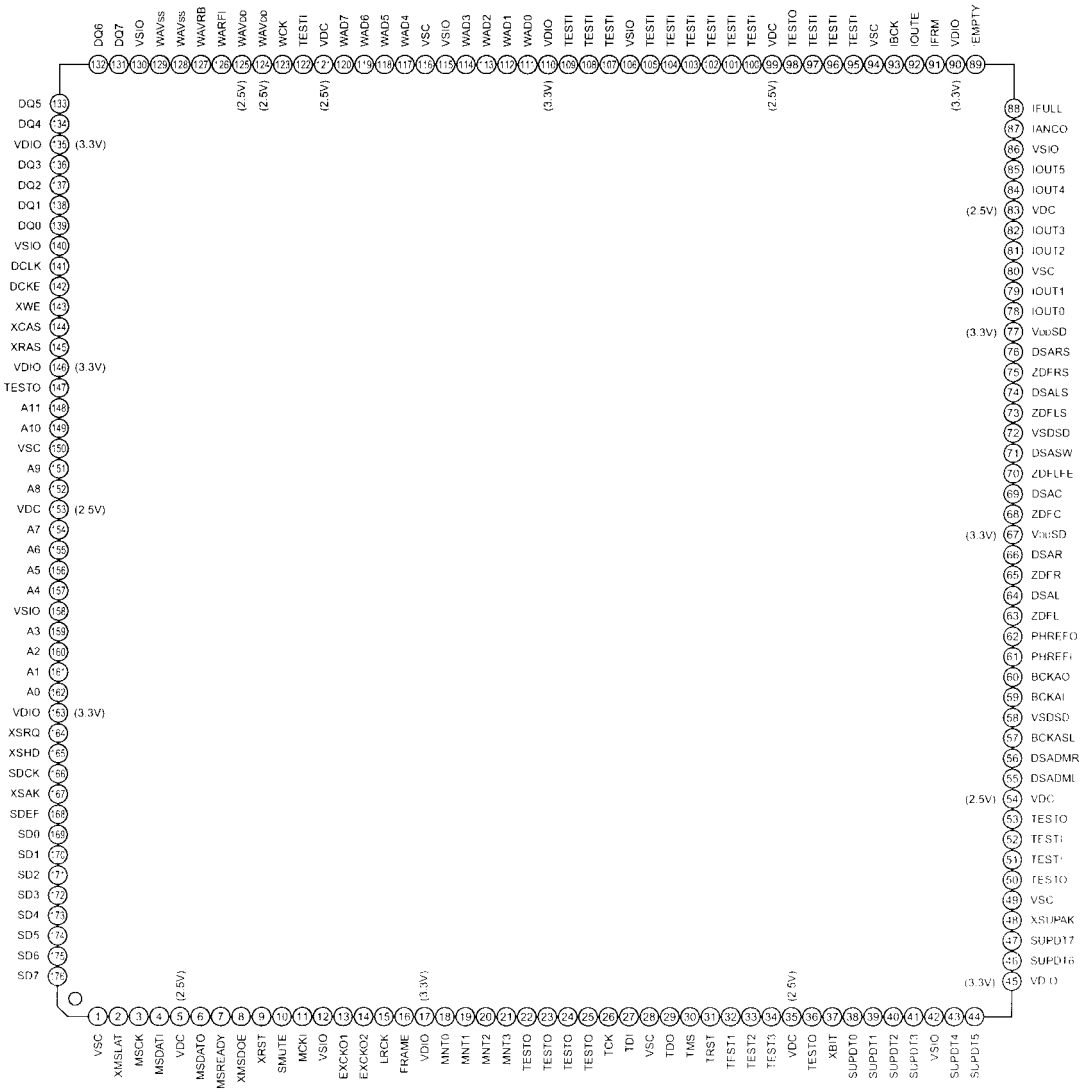
<table>
<tr><th>Name</th><th>Pin Numbers</th><th>I/O</th><th>Definition</th></tr>
<tr><td>DSCK</td><td>102</td><td>O</td><td>Output clock to DRAM.</td></tr>
<tr><td>DCLK</td><td>105</td><td>I</td><td>Clock input to PLL.</td></tr>
<tr><td>YUV0</td><td rowspan="3">106</td><td>O</td><td>YUV pixel 2 output data.</td></tr>
<tr><td>CAMIN2</td><td>I</td><td>Camera YUV 2.</td></tr>
<tr><td>UDAC</td><td>O</td><td>Video DAC output.
<table>
<tr><th>Pin</th><th>115</th><th>114</th><th>113</th><th>108</th><th>106</th></tr>
<tr><th>Value</th><th>F DAC</th><th>V DAC</th><th>Y DAC</th><th>C DAC</th><th>U DAC</th></tr>
<tr><td>0</td><td>CVBS/Chroma</td><td>CVBS1</td><td>Y</td><td>C</td><td>N/A</td></tr>
<tr><td>1</td><td>CVBS/Chroma</td><td>CVBS1</td><td>Y</td><td>C</td><td>CVBS2</td></tr>
<tr><td>2</td><td>CVBS/Chroma</td><td>N/A</td><td>Y</td><td>C</td><td>N/A</td></tr>
<tr><td>3</td><td>CVBS/Chroma</td><td>CVBS1</td><td>N/A</td><td>N/A</td><td>CVBS2</td></tr>
<tr><td>4</td><td>CVBS/Chroma</td><td>CVBS1</td><td>N/A</td><td>N/A</td><td>N/A</td></tr>
<tr><td>5</td><td>CVBS/Chroma</td><td>CVBS1</td><td>Y</td><td>Pb</td><td>Pr</td></tr>
<tr><td>6</td><td>CVBS/Chroma</td><td>N/A</td><td>Y</td><td>Pb</td><td>Pr</td></tr>
<tr><td>7</td><td>N/A</td><td>SYNC</td><td>G</td><td>B</td><td>R</td></tr>
<tr><td>8</td><td>CVBS/Chroma</td><td>Chroma</td><td>Y</td><td>Pb</td><td>Pr</td></tr>
<tr><td>9</td><td>CVBS</td><td>CVBS1</td><td>G</td><td>B</td><td>R</td></tr>
<tr><td>10</td><td>CVBS</td><td>CVBS1</td><td>G</td><td>R</td><td>B</td></tr>
<tr><td>11</td><td>N/A</td><td>SYNC</td><td>G</td><td>R</td><td>B</td></tr>
<tr><td>12</td><td>CVBS/Chroma</td><td>N/A</td><td>Y</td><td>Pr</td><td>Pb</td></tr>
<tr><td>13</td><td>CVBS/Chroma</td><td>CVBS1</td><td>Y</td><td>Pr</td><td>Pb</td></tr>
<tr><td>14</td><td>Chroma</td><td>Y</td><td>G</td><td>R</td><td>B</td></tr>
</table>
F: CVBS/chroma signal for simultaneous mode.
Y: Luma component for YUV and Y/C processing.
C: Chrominance signal for Y/C processing.
U: Chrominance component signal for YUV mode.
V: Chrominance component signal for YUV mode.</td></tr>
<tr><td>YUV1</td><td rowspan="2">107</td><td>O</td><td>YUV pixel 1 output data.</td></tr>
<tr><td>VREF</td><td>I</td><td>Internal voltage reference to video DAC. Bypass to ground with 0.1-μF capacitor.</td></tr>
<tr><td>YUV2</td><td rowspan="2">108</td><td>O</td><td>YUV pixel 2 output data.</td></tr>
<tr><td>CDAC</td><td>O</td><td>Video DAC output. Refer to description and matrix for UDAC pin 106.</td></tr>
<tr><td>YUV3</td><td rowspan="2">109</td><td>O</td><td>YUV pixel 3 output data.</td></tr>
<tr><td>COMP</td><td>I</td><td>Compensation input. Bypass to ADVEE with 0.1-μF capacitor.</td></tr>
<tr><td>YUV4</td><td rowspan="2">110</td><td>O</td><td>YUV pixel 4 output data.</td></tr>
<tr><td>RSET</td><td>I</td><td>DAC current adjustment resistor input.</td></tr>
<tr><td>ADVEE</td><td>111</td><td>P</td><td>Analog power for video DAC.</td></tr>
</table>

ES6138F Pin Description (Continued)

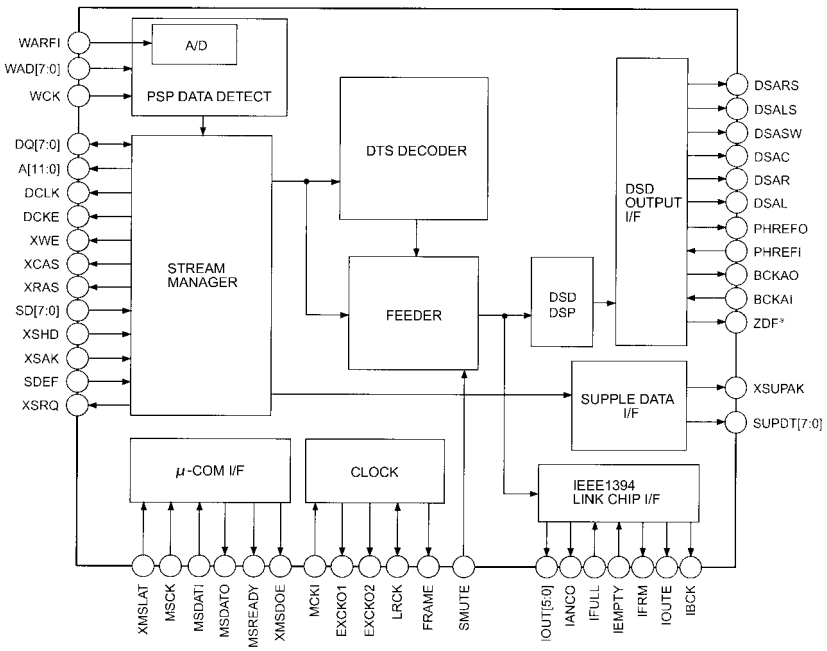
Name	Pin Numbers	I/O	Definition
ADVSS	112	G	Analog ground for video DAC.
YUV5	113	O	YUV pixel 5 output data.
YDAC		O	Video DAC output. Refer to description and matrix for UDAC pin 106.
YUV6	114	O	YUV pixel 6 output data.
VDAC		O	Video DAC output. Refer to description and matrix for UDAC pin 106.
YUV7	115	O	YUV pixel 7 output data.
FDAC		O	Video DAC output. Refer to description and matrix for UDAC pin 106.
CAMIN3		I	Camera YUV 3.
PCLK2XSCN	116	I/O	27-MHz video output pixel clock.
CAMIN4		I	Camera YUV 4.
PCLKQSCN	117	O	13.5-MHz video output pixel clock.
CAMIN5		I	Camera YUV 5.
AUX3[2]		I/O	Aux3 data I/O.
VSYNC#	118	I/O	Vertical sync (active-low).
CAMIN6		I	Camera YUV 6.
AUX3[1]		I/O	Aux3 data I/O.
HSYNC#	119	I/O	Horizontal sync (active-low).
CAMIN7		I	Camera YUV 7.
AUX3[0]		I/O	Aux3 data I/O.
HD[5:0]	122:127	I/O	Host data bus lines 5:0.
DCI[5:0]		I/O	DVD channel data I/O.
AUX1[5:0]		I/O	Aux1 data I/O.
HD6	128	I/O	Host data bus line 6.
DCI6		I/O	DVD channel data I/O.
AUX1[6]		I/O	Aux1 data I/O.
VFD_DOUT		I	VFD data output.
HD7	131	I/O	Host data bus line 7.
DCI7		I/O	DVD channel data I/O.
AUX1[7]		I/O	Aux1 data I/O.
VFD_DIN		I	VFD data input.
HD8	132	I/O	Host data bus line 8.
DCI_FDS#		I/O	DVD input sector start (active-low).
AUX2[0]		I/O	Aux2 data I/O.
VFD_CLK		I	VFD clock input.

CXD2753R (MA: IC405)

Pin Assignment



Block Diagram



PIN Description

	Pin Name	I/O	Functions
1	VSC	-	It fixed to ground.(for Core)
2	XMSLAT	I	Latch input for μCOM serial communication.
3	MSCK	I	Shift clock input for μCOM serial communication.
4	MSDATI	I	Data input for μCOM serial communication.
5	VDC	-	+2.5V Power for Core.
6	MSDATO	O	Data output for μCOM serial communication. “Hi-Z” potential except the output mode.
7	MSREADY	O	Completion flag of output preparation for μCOM serial communication. “L” is outputted at the time of completion.
8	XMSDOE	O	Output enable pin for μCOM serial communication. “L” is outputted at the time of MSDATO mode.
9	XRST	I	Reset pin. The whole IC is reset by at the time of “L” potential.
10	SMUTE	Ipd	Soft Mute. Soft mute of the audio output is carried out at the time of “H” potential. It releases at the time of “L” potential.
11	MCKI	I	Master Clock input.
12	VSIO	-	It fixed to Ground. Ground for I/O.
13	EXCKO1	O	External output Clock 1.
14	EXCKO2	O	External output Clock 2.
15	LRCK	O	44.1kHz, 1Fs Clock output.
16	FRAME	O	Frame signal output.
17	VDIO	-	+3.3V Power for I/O.
18	MNT0	O	Monitor output.
19	MNT1	O	Monitor output.
20	MNT2	O	Monitor output.
21	MNT3	O	Monitor output.
22	TESTO	O	Output terminal for a Test. (open)
23	TESTO	O	Output terminal for a Test.(open)
24	TESTO	O	Output terminal for a Test.(open)
25	TESTO	O	Output terminal for a Test.(open)
26	TCK	I	Clock input for a Test. It fixed to “L” potential.
27	TDI	Ipu	Input pin(pull-up) for a Test.(open)
28	VSC	-	It fixed to Ground. Ground for CORE.
29	TDO	O	Output for a Test.(open).
30	TMS	Ipu	Input pin(pull-up) for a Test.(open)
31	TRST	Ipu	Reset pin(pull-up) for a Test. Input the Power-on reset signal or fixed to “L” potential.
32	TEST1	I	Test input pin. It fixed to “L” potential.
33	TEST2	I	Test input pin. It fixed to “L” potential.
34	TEST3	I	Test input pin. It fixed to “L” potential.
35	VDC	-	+2.5V Power for CORE.
36	TESTO	O	Out put for TEST. It fixed to open.
37	XBIT	O	DST monitor.
38	SUPDT0	O	Supplementary data output. (LSB)
39	SUPDT1	O	Supplementary data output.
40	SUPDT2	O	Supplementary data output.
41	SUPDT3	O	Supplementary data output.
42	VSIO	-	Ground for I/O.
43	SUPDT4	O	Supplementary data output.
44	SUPDT5	O	Supplementary data output.
45	VDIO	-	+3.3V Power for I/O.
46	SUPDT6	O	Supplementary data output.
47	SUPDT7	O	Supplementary data output. (MSB)
48	XSUPAK	O	Supplementary data Acknowledge output terminal.
49	VSC	-	Ground for CORE.

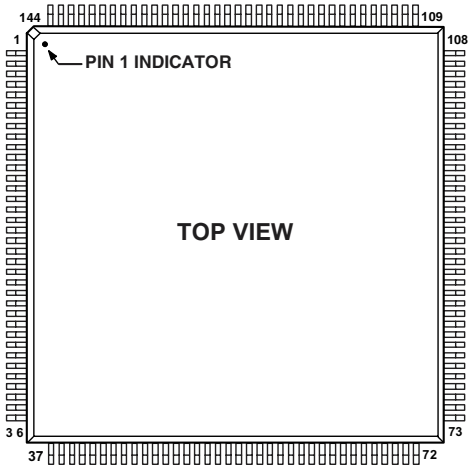
	Pin Name	I/O	Functions
50	TESTO	O	Output for TEST. (open)
51	TESTI	I	Input for TEST. It fixed to “L” potential.
52	TESTI	I	Input for TEST. It fixed to “L” potential.
53	TESTO	O	Output for TEST. (open)
54	VDC	-	+2.5V Power for CORE.
55	DSADML	O	DSD Data output terminal for Lch Down Mix.
56	DSADMR	O	DSD 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.
63	ZDFL	O	Lch zero-data detection flag (at the time of µcom 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 µcom 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 µcom 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 µcom 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 µcom 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 µcom 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.

	Pin Name	I/O	Functions
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 Powe for CORE.
122	TESTI	I	TEST input terminal. It fixed to “L” potential.
123	WCK	I	Operation clock for PSP physical disc mark detection.
124	WAV_{DD}	-	+2.5V Power. A/D Power supply for PSP physical disc mark detection.
125	WAV_{DD}	-	+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	WAV_{SS}	-	A/D Ground terminal for PSP physical disc mark detection.
129	WAV_{SS}	-	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	Colomn 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)

	Pin Name	I/O	Functions
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

ADSP-21266SKSTZ1B-DVD (SY: IC305)

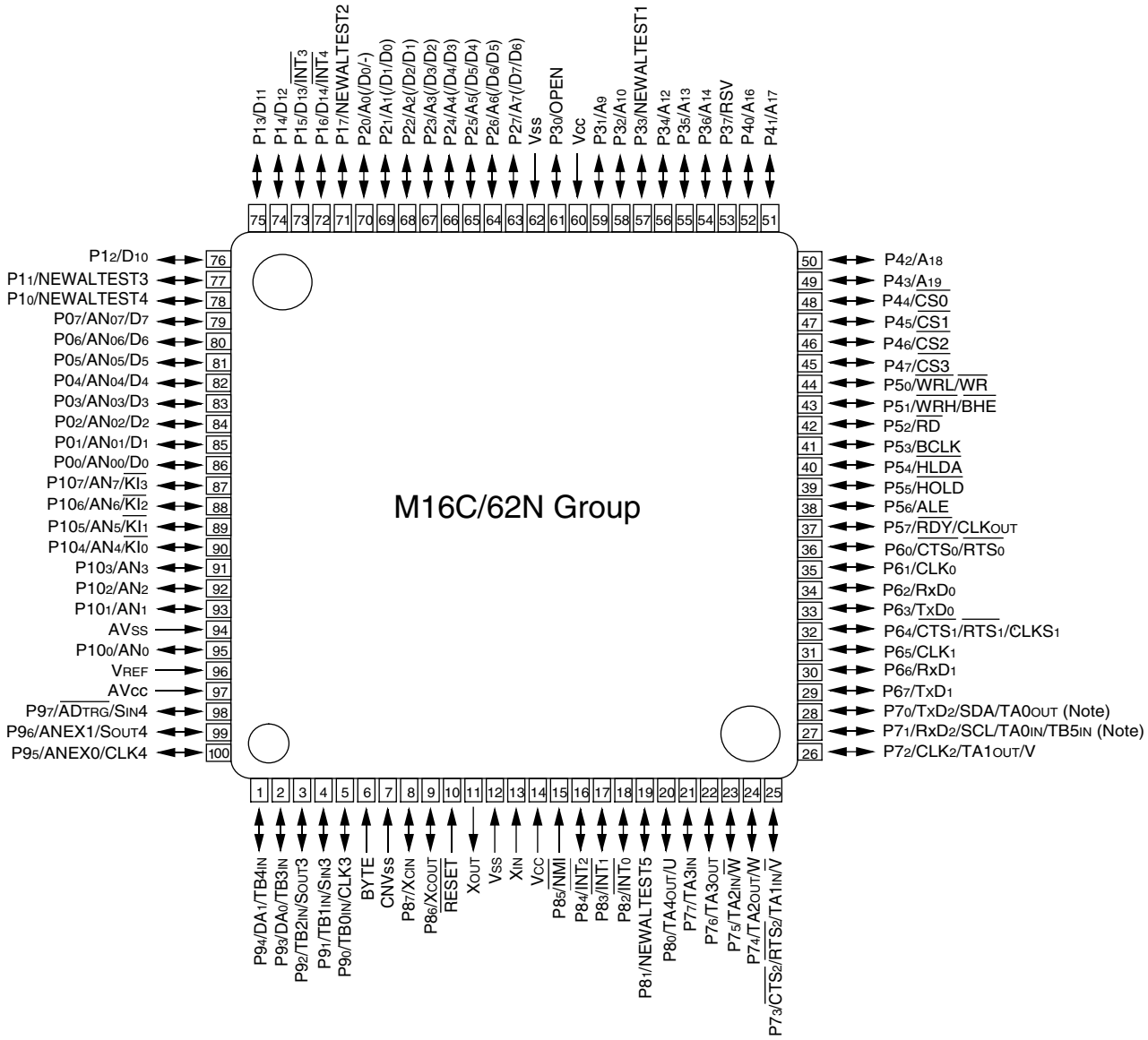


Terminal Function

Pin Name	LQFP Pin #	Pin Name	LQFP Pin #	Pin Name	LQFP Pin #	Pin Name	LQFP Pin #
V_{DDINT}	1	V_{DDINT}	37	V_{DDEXT}	73	GND	109
CLKCFG0	2	GND	38	GND	74	V_{DDINT}	110
CLKCFG1	3	$\overline{RD}$	39	V_{DDINT}	75	GND	111
BOOTCFG0	4	ALE	40	GND	76	V_{DDINT}	112
BOOTCFG1	5	AD15	41	DAI_P10 (SD2B)	77	GND	113
GND	6	AD14	42	DAI_P11 (SD3A)	78	V_{DDINT}	114
V_{DDEXT}	7	AD13	43	DAI_P12 (SD3B)	79	GND	115
GND	8	GND	44	DAI_P13 (SCLK23)	80	V_{DDEXT}	116
V_{DDINT}	9	V_{DDEXT}	45	DAI_P14 (SFS23)	81	GND	117
GND	10	AD12	46	DAI_P15 (SD4A)	82	V_{DDINT}	118
V_{DDINT}	11	V_{DDINT}	47	V_{DDINT}	83	GND	119
GND	12	GND	48	GND	84	V_{DDINT}	120
V_{DDINT}	13	AD11	49	GND	85	$\overline{RESET}$	121
GND	14	AD10	50	DAI_P16 (SD4B)	86	$\overline{SPIDS}$	122
FLAG0	15	AD9	51	DAI_P17 (SD5A)	87	GND	123
FLAG1	16	AD8	52	DAI_P18 (SD5B)	88	V_{DDINT}	124
AD7	17	DAI_P1 (SD0A)	53	DAI_P19 (SCLK45)	89	SPICLK	125
GND	18	V_{DDINT}	54	V_{DDINT}	90	MISO	126
V_{DDINT}	19	GND	55	GND	91	MOSI	127
GND	20	DAI_P2 (SD0B)	56	GND	92	GND	128
V_{DDEXT}	21	DAI_P3 (SCLK0)	57	V_{DDEXT}	93	V_{DDINT}	129
GND	22	GND	58	DAI_P20 (SFS45)	94	V_{DDEXT}	130
V_{DDINT}	23	V_{DDEXT}	59	GND	95	A_{VDD}	131
AD6	24	V_{DDINT}	60	V_{DDINT}	96	A_{VSS}	132
AD5	25	GND	61	FLAG2	97	GND	133
AD4	26	DAI_P4 (SFS0)	62	FLAG3	98	CLKOUT	134
V_{DDINT}	27	DAI_P5 (SD1A)	63	V_{DDINT}	99	EMU	135
GND	28	DAI_P6 (SD1B)	64	GND	100	TDO	136
AD3	29	DAI_P7 (SCLK1)	65	V_{DDINT}	101	TDI	137
AD2	30	V_{DDINT}	66	GND	102	TRST	138
V_{DDEXT}	31	GND	67	V_{DDINT}	103	TCK	139
GND	32	V_{DDINT}	68	GND	104	TMS	140
AD1	33	GND	69	V_{DDINT}	105	GND	141
AD0	34	DAI_P8 (SFS1)	70	GND	106	CLKIN	142
$\overline{WR}$	35	DAI_P9 (SD2A)	71	V_{DDINT}	107	XTAL	143
V_{DDINT}	36	V_{DDINT}	72	V_{DDINT}	108	V_{DDEXT}	144

M30620FCPGP(5910) (SY: IC104)

PIN CONFIGURATION (top view)



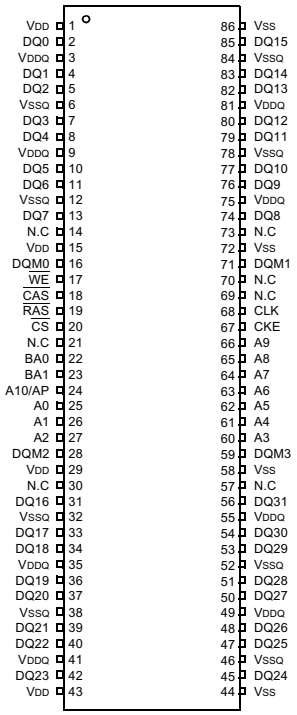
PIN Description

PIN No	FUNCTION			DESCRIPTION
	PIN NAME	SYMBOL	I/O	
1	TB4IN	DSPSPICS	O	DSP CONTROL SIGNAL
2	P93	V-CS	I/O	VFD CONTROL SIGNAL(CS) / H=NEGATE , L=ASSERT
3	SOUT3	V-DATA	I/O	VFD CONTROL SIGNAL(DATA)
4	SIN3	ROM CONT 1	I/O	NOT USED
5	CLK3	V-CLK	I/O	VFD CONTROL SIGNAL(CLK)
6	BYTE	BUS WIDTH SEL	I	EXT DATA BUS WIDTH SELECT L=16bit (width) H=8bit (width)
7	CNVss	CNVss	I	MODE SELECT SIGNAL SINGLE CHIP MODE=Vss CONNECTION, MICRO PROSECER MODE=Vcc CONNECTION
8	P87	NCS_1394	I/O	1394 CONTROL SIGNAL(CS) / H=NEGATE , L=ASSERT
9	P86	48_96	I/O	AUDIO STATUS SELECT SIGNAL1
10	RESET-	RESET	I	RESET INPUT/ H=NEGATE , L=ASSERT *RESET IC OUT = OPEN DRAIN
11	XOUT	CLOCK OUT	O	X'TAL CONNECTION
12	VSS	GND	I	IMPRESS: 0V
13	XIN	CLOCK IN	I	X'TAL CONNECTION
14	VCC	VCC	I	IMPRESS: 2.4-3.6V
15	NMI	MN TERMINAL	I/O	NON USABLE
16	INT2-	OP_CS	I/O	BE CONTROL SIGNAL(CS) / H=NEGATE , L=ASSERT
17	INT1-	W.REM	I/O	WIRED REMOTE INPUT
18	INT0-	REMO	I/O	REMOTE INPUT
19	P81	NEWALTEST5	I/O	NEW ALPHA CONTROL SIGNAL 5
20	TA4OUT	OPN_DRV	I/O	TRAY CONTROL SIGNAL1
21	P77	LD CONT	I/O	PICK UP LASER ON/OFF CONTROL OUTPUT H=DVD L=CD
22	TA3OUT	CLS_DRV	I/O	TRAY CONTROL SIGNAL2
23	TA2IN	DFRESET	I/O	INTERRUPT INPUT FOR BE / H=NEGATE , L=ASSERT
24	P74	+1.8V_ON/OFF	I/O	+1.8V POWER CONTROL SIGNAL FOR DSP / H=ON , L=OFF
25	RTS2-	PANEL_REQ	I/O	BE CONTROL SIGNAL(REQ) / H=ASSERT , L=NEGATE
26	CLK2	OP_CLK	I/O	BE CONTROL SIGNAL(CLK)
27	RXD2	OP_DI	I/O	BE CONTROL SIGNAL(DI)
28	TXD2	OP_DO	I/O	BE CONTROL SIGNAL(DO)
29	TXD1	SYSTXD	I/O	TXD
30	RXD1	SYSRXD	I/O	RXD
31	CLK1	CLK1	I/O	CLOCK MODE SELECT
32	RTS1	1394_RST	I/O	RESET OUTPUT FOR 1394 / H=NEGATE , L=ASSERT
33	TXD0	TXD1394	I/O	1394 CONTROL SIGNAL(DO)
34	RXD0	RXD1394	I/O	1394 CONTROL SIGNAL(DI)
35	CLK0	CLK1394	I/O	1394 CONTROL SIGNAL(CLK)
36	P60	SEL_1394	I/O	AUDIO STATUS SELECT SIGNAL2
37	P57	EXTMIXIN	I/O	AUDIO STATUS SELECT SIGNAL3
38	P56	192_OTHER	I/O	AUDIO STATUS SELECT SIGNAL4
39	FRASH_EPM	FRASH_EPM	I/O	INTERNAL FLASH CONTROL SIGNAL1 / H=NOMAL , L=BOOT
40	P54	D.L.ON	I/O	AUDIO STATUS SELECT SIGNAL5
41	P53	DSD_SEL	I/O	AUDIO STATUS SELECT SIGNAL6
42	P52	FILM_ON	I/O	VIDEO STATUS SELECT SIGNAL
43	P51	EMUTE	I/O	MUTE CONTROL SIGNAL / H=MUTE ON , L=MUTE OFF
44	FRASH_HCE	FRASH_HCE	I/O	INTERNAL FLASH CONTROL SIGNAL1 / H=BOOT , L=NOMAL
45	P47	DIR_CLK	I/O	DIR CONTROL SIGNAL(CLK)
46	P46	DIR_DI	I/O	DIR CONTROL SIGNAL(DI)
47	P45	DIR_DO	I/O	DIR CONTROL SIGNAL(DO)
48	P44	DIR_CS	I/O	DIR CONTROL SIGNAL(CS)
49	P43	ERROR	I/O	ERROR DETECT SIGNAL
50	P42	CFLUG	I/O	CH STATUS DETECT SIGNAL

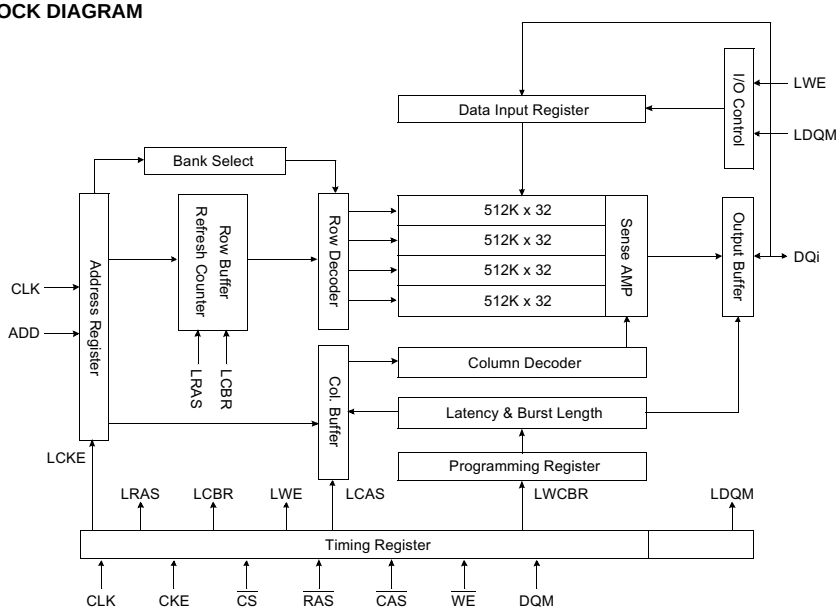
PIN No	FUNCTION			DESCRIPTION
	PIN NAME	SYMBOL	I/O	
51	P41	EXT_INT	I/O	SPDIF OUTPUT CONTROL H=EXT IN, L=INT
52	P40	SW_HGAIN	I/O	SUB WOOFER HGAIN
53	P37	RSV	I/O	NEW ALPHA CONTROL SIGNAL RESENED
54	P36	VPP	I/O	NORMAL: "H" FLASH WRITING FOR DSP: "L"
55	P35	DSP_RST	I/O	DSP RESET OUTPUT TERMINAL (RESET: "L")
56	P34	ROMRST	I/O	MEMORY RESET FOR DSP (RESET: "L")
57	P33	NEW ALTEST 1	I/O	NEW ALPHA CONTROL SIGNAL 1
58	P32	FLUG 0A	I/O	E2ROM CHIP SELECT CONTROL FOR DSP
59	P31	FLUG 1A	I/O	NOT USED
60	VCC	POWER INPUT 3	I	IMPRESS: 2.4-3.6V
61	P30	OPEN	I/O	NOT USED
62	VSS	POWER INPUT 4	I/O	IMPRESS: 0V
63	P27	FLUG 3A	I/O	Special Flag for ROM update (ADSP 21266SKST: FLAG 3A)
64	P26	+3.3V_ON/OFF	I/O	H=ON, L=OFF
65	P25	232CONT1	I/O	232C/1394 COMMUNICATION PATHWAY SWITCHING OUTPUT 1
66	P24	232CONT2	I/O	232C/1394 COMMUNICATION PATHWAY SWITCHING OUTPUT 2
67	P23	HD_2ch/Mch	I/O	HDMI CONTROL 2ch (Low)/Mch (High)
68	P22	HD_ON/OFF	I/O	HDMI CONTROL ON (Low)/OFF (High)
69	P21	LED1	I/O	LED CONTROL (AL24)
70	P20	LED2	I/O	LED CONTROL (D.L.)
71	P17	NEW ALTEST 2	I/O	NEW ALPHA CONTROL SIGNAL 2
72	P16	ROM_CONT 2	I/O	NOT USED
73	INT3	INTERRUPT	I/O	IEEE 1394 INTERRUPT DETECTION PORT
74	P14	LED3	I/O	LED CONTROL (DVD)
75	P13	LED4	I/O	LED CONTROL (SACD)
76	P12	G_LED	I/O	POWER INDICATOR LED (Green) CONTROL L: ON/H: OFF
77	P11	NEW ALTEST 3	I/O	EW ALPHA CONTROL SIGNAL 3
78	P10	NEW ALTEST 4	I/O	EW ALPHA CONTROL SIGNAL 4
79	P07	PLL_RST	I/O	RESET OUTPUT FOR PLL_IC / H=NEGATE , L=ASSERT
80	P06	PDET	I/O	POWER DETECT SIGNAL / H=ON , L=OFF
81	P05	RST	I/O	RESET OUTPUT FOR PERIPHERAL DEVICE / H=NEGATE , L=ASSERT
82	P04	BE_ON	I/O	BE STATUS DETECT SIGNAL / H=ACTIVE , L=STANBY
83	P03	1394_ON/OFF	I/O	+3.3V' POWER ON/OFF CONTROL SIGNAL FOR 1394 / H=ON , L=OFF
84	P02	1394_YOBI	I/O	1394 SPARE TERMINAL
85	P01	CL_SW	I/O	CLOSE_SW DETECT SIGNAL / H=NOT CLOSE , L=CLOSE
86	P00	OP_SW	I/O	OPEN_SW DETECT SIGNAL / H=NOT OPEN , L=OPEN
87	P107	R_LED	I/O	POWER INDICATOR LED (Red) CONTROL L: ON/H: OFF
88	P106	ON/ST	I/O	POWER ON/OFF CONTROL SIGNAL / H=POWER_ON , L=STANBY
89	AN5	JOG1	I/O	JOG SELECT
90	AN4	JOG2	I/O	JOG SELECT
91	AN3	REG	I/O	REGION DETECT SIGNAL
92	AN2	KEY2	I/O	KEY SCAN 2
93	AN1	KEY1	I/O	KEY SCAN 1
94	AVSS	ANA POWER	I	POWER INPUT TERMINAL FOR A-D CONVERTER Vss CONNECTION
95	AN0	KEY0	I/O	KEY SCAN 0
96	VREF	REFERENCE	I	REFERENCE VOLTAGE INPUT TERMINAL FOR A-D CONVERTER
97	AVCC	ANA POWER	I	POWER INPUT TERMINAL FOR A-D CONVERTER Vcc CONNECTION
98	SIN4	DSPMISO	I/O	DSP CONTROL TERMINAL
99	SOUT4	DSPMOSI	I/O	DSP CONTROL TERMINAL
100	CLK4	DSPSPICLK	I/O	DSP CONTROL TERMINAL

K4S643232E (VI: IC502, 503)

PIN CONFIGURATION



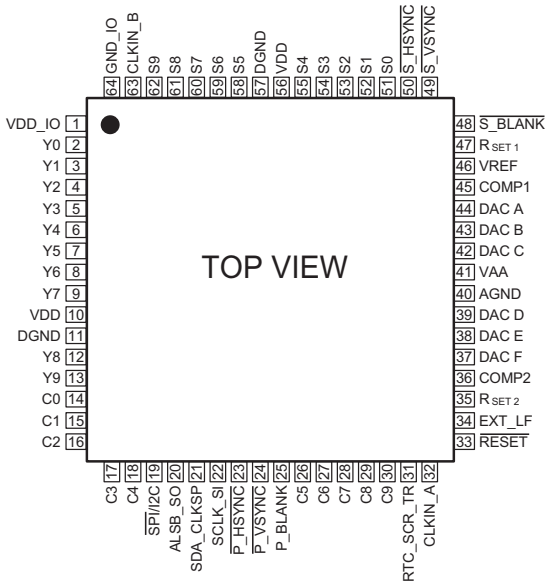
BLOCK DIAGRAM



PIN FUNCTION DESCRIPTION

Pin	Name	Input Function
CLK	*System clock*	Active on the positive going edge to sample all inputs.
$\overline{CS}$	*Chip select*	Disables or enables device operation by masking or enabling all inputs except CLK, CKE and DQM.
CKE	*Clock enable*	Masks system clock to freeze operation from the next clock cycle. CKE should be enabled at least one cycle prior to new command. Disables input buffers for power down mode.
A_0 ~ A_{10}	*Address*	Row/column addresses are multiplexed on the same pins. Row address : RA_0 ~ RA_{10}, Column address : CA_0 ~ CA_7
BA0,1	*Bank select address*	Selects bank to be activated during row address latch time. Selects bank for read/write during column address latch time.
$\overline{RAS}$	*Row address strobe*	Latches row addresses on the positive going edge of the CLK with $\overline{RAS}$ low. Enables row access & precharge.
$\overline{CAS}$	*Column address strobe*	Latches column addresses on the positive going edge of the CLK with $\overline{CAS}$ low. Enables column access.
$\overline{WE}$	*Write enable*	Enables write operation and row precharge. Latches data in starting from $\overline{CAS}$, $\overline{WE}$ active.
DQM0 ~ 3	*Data input/output mask*	Makes data output Hi-Z, t_{SHZ} after the clock and masks the output. Blocks data input when DQM active.
DQ_0 ~ 31	*Data input/output*	Data inputs/outputs are multiplexed on the same pins.
V_{DD}/V_{SS}	*Power supply/ground*	Power and ground for the input buffers and the core logic.
V_{DDQ}/V_{SSQ}	*Data output power/ground*	Isolated power supply and ground for the output buffers to provide improved noise immunity.
NC	*No Connection*	This pin is recommended to be left No connection on the device.

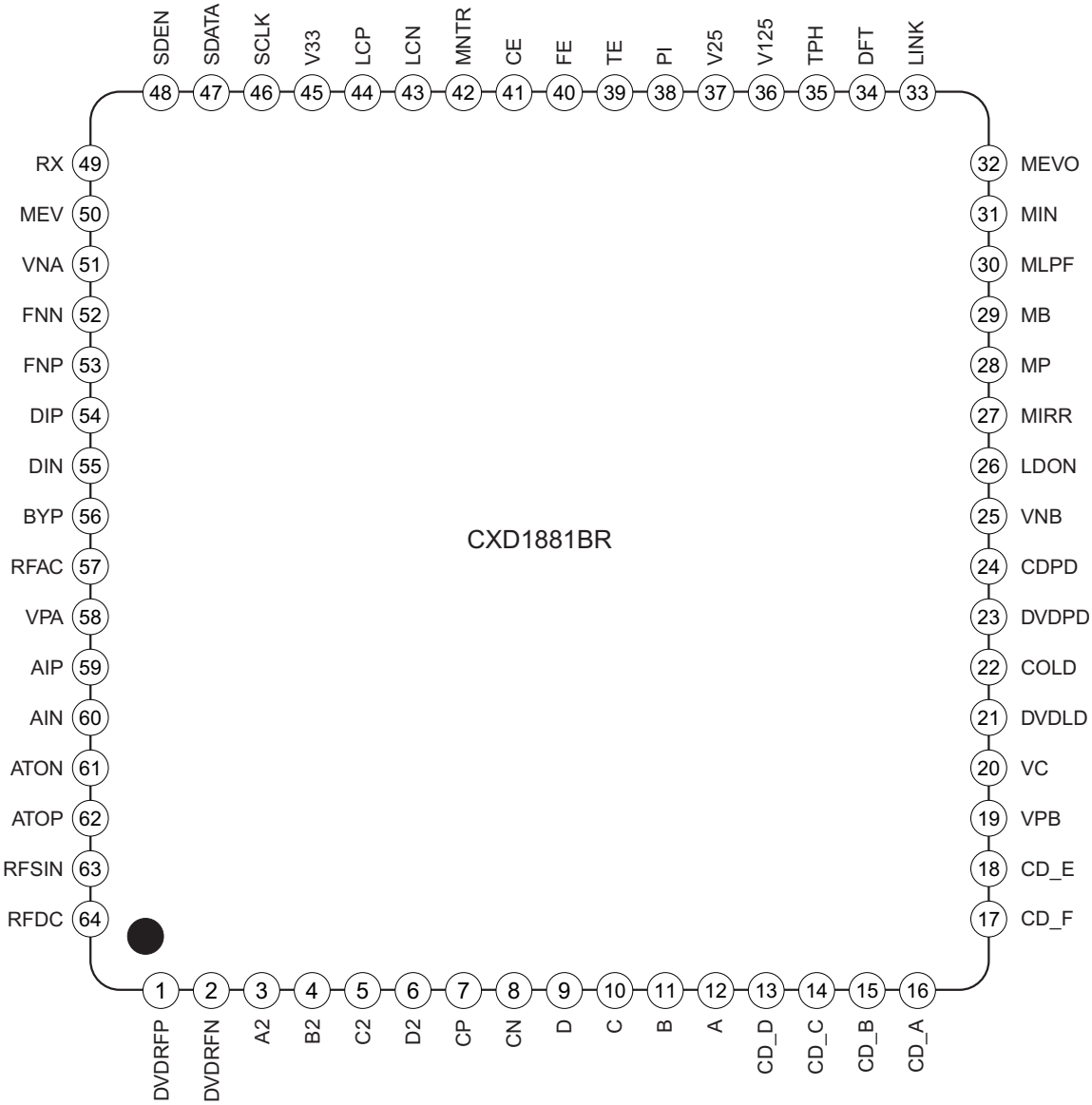
ADV7314/7324 (VI: IC201, 401)

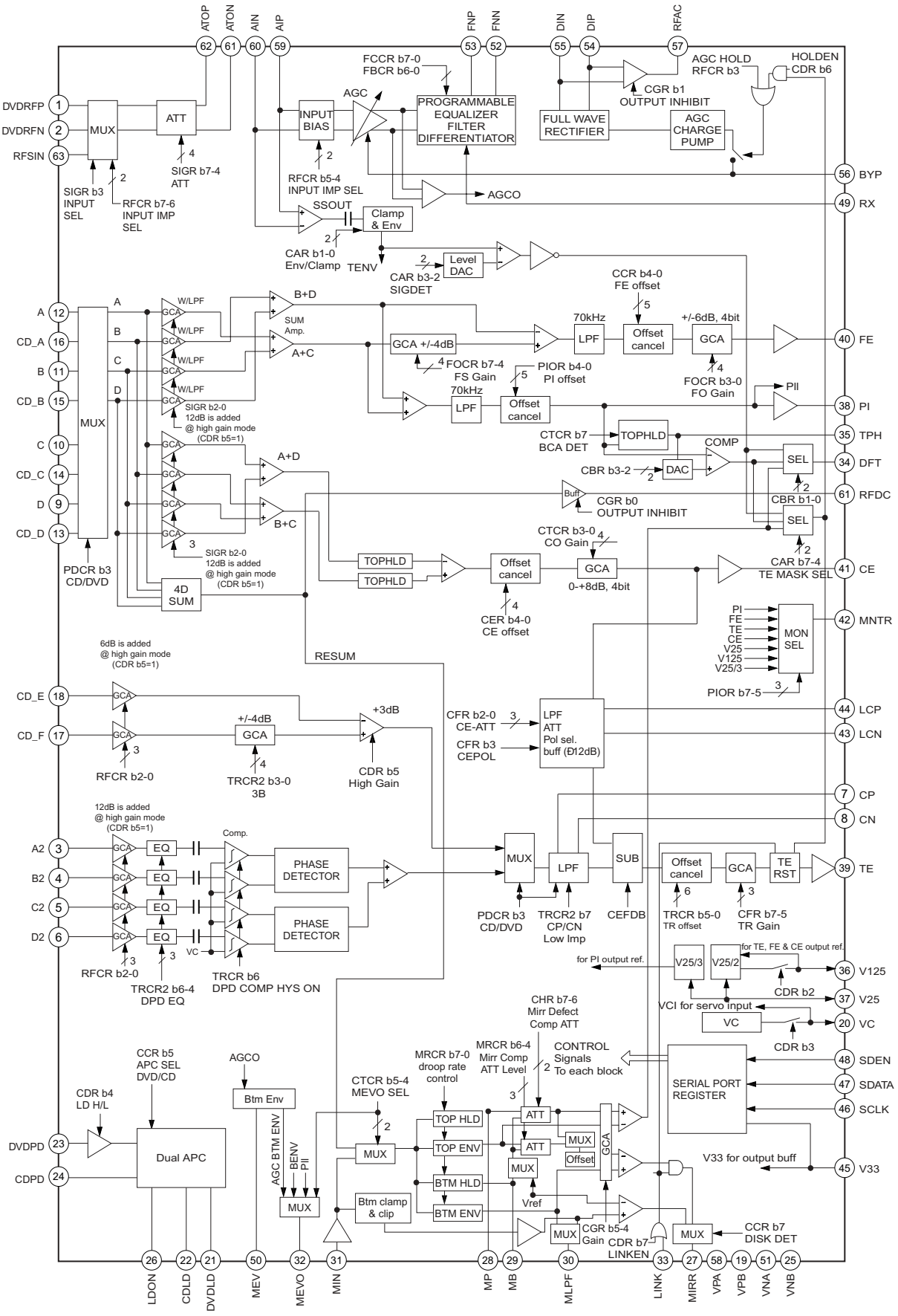


ADV7314/7324 Terminal Function

Pin No.	Pin Name	I/O	Function
1	V_{DD_IO}	P	Digital power supply.
2~9, 12, 13	Y9-0	I	10-Bit Progressive scan/ HDTV input port for Y data.
10, 56	V_{DD}	P	Digital power supply.
11, 57	DGND	G	Digital Ground
14~18, 26~30	C9-0	I	10-Bit Progressive scan/ HDTV input port for CrCb color data in 4:2:2 input mode.
19	$\overline{SPI}$/I2C	I	When this input pin is brought low, the ADV7300 interfaces over the SPI port and uses this input as part of the 4 wire SPI interface. When this input pin is tied high [VDD_IO], the ADV7300 interfaces over the I2C port.
20	ALSB_SO	I/O	Multifunctional pin.
21	SDA_CLKSP	I/O	Multifunctional pin.
22	SCLK_SI	I	Multifunctional input.
23	$\overline{P_HSYNC}$	I	Video Horizontal Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
24	$\overline{P_VSYNC}$	I	Video Vertical Sync Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
25	P_BLANK	I	Video Blanking Control Signal for HD sync in simultaneous SD/HD mode and HD only mode.
31	RTC_SCR_TR	I	Multifunctional input.
32	CLKIN_A	I	Pixel Clock Input for HD only or SD only modes.
33	$\overline{RESET}$	I	This input resets the on-chip timing generator and sets the ADV7300 into Default Register setting. Reset is an active low signal.
34	EXT_LF	I	External Loop filter for the internal PLL.
35, 47	$R_{SET1,2}$	I	A1520 Ohms resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.
36,45	COMP	O	Compensation Pin for DACs.
37	DAC F	O	In SD only mode: Chroma/RED/V analog output. In HD only mode and simultaneus HD/SD: Pb/ BLUE (HD) analog output.
38	DAC E	O	In SD only mode: Luma/BLUE/U analog output. In HD only mode and simultaneus HD/SD: Pr/ RED (HD) analog output.
39	DAC D	O	In SD only mode: CVBS/GREEN/Y analog output. In HD only mode and simultaneus HD/SD: Y/ GREEN (HD) analog output.
40	AGND	G	Analog Ground
41	V_{AA}	P	Analog power supply.
42	DAC C	O	Chroma/ RED/ V SD analog output.
43	DAC B	O	Luma/ BLUE/ U SD analog output.
44	DAC A	O	CVBS/ GREEN/ Y SD analog output.
46	V_{REF}	I/O	Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235V).
48	$\overline{S_BLANK}$	I/O	Video Blanking Control Signal for SD.
49	$\overline{S_VSYNC}$	I/O	Video Vertical Sync Control Signal for SD.
50	$\overline{S_HSYNC}$	I/O	Video Horizontal Control Signal for SD.
51~55, 58~62	S9-S0	I	10-Bit Standard Definition input port. Or Progressive Scan/ HDTV input port for Cr [Red/V] color data in 4:4:4 input mode.
63	CLKIN_B	I	Pixel Clock Input.
64	GND_IO	G	Digital Ground

CXD1881BR (MA: IC502)




ATOP
ATON
AIN
AIP
FNP
FNN
DIN
DIP
RFAC
DVDRFP
DVDRFN
RFSIN
MUX
ATT
INPUT BIAS
AGC
PROGRAMMABLE EQUALIZER FILTER DIFFERENTIATOR
FULL WAVE RECTIFIER
AGC CHARGE PUMP
AGC HOLD
RFCR b3
HOLDEN
CDR b6
CGR b1
OUTPUT INHIBIT
FCCR b7-0
FBCR b6-0
SIGR b3
INPUT SEL
RFCR b7-6
INPUT IMP SEL
SIGR b7-4
ATT
RFCR b5-4
INPUT IMP SEL
AGCO
SSOUT
Clamp & Env
CAR b1-0
Env/Clamp
TENV
CAR b3-2
SIGDET
Level DAC
BYP
RX
A
B
C
D
CD_A
CD_B
CD_C
CD_D
W/LPF
GCA
SUM Amp.
B+D
A+C
A+D
B+C
4D SUM
PDCR b3
CD/DVD
SIGR b2-0
12dB is added
@ high gain mode
(CDR b5=1)
GCA +/-4dB
FOCR b7-4
FS Gain
70kHz
LPF
PIOR b4-0
PI offset
Offset cancel
CCR b4-0
FE offset
+/-6dB, 4bit
FOCR b3-0
FO Gain
FE
PII
PI
CTCR b7
BCA DET
TOPHLD
TPH
COMP
CBR b3-2
DAC
SEL
DFT
Buff
CGR b0
OUTPUT INHIBIT
RFDC
CBR b1-0
CTCR b3-0
CO Gain
0-+8dB, 4bit
CAR b7-4
TE MASK SEL
CE
CER b4-0
CE offset
MON SEL
MNTR
V25
V125
V25/3
PIOR b7-5
RESUM
6dB is added
@ high gain mode
(CDR b5=1)
CD_E
CD_F
+/-4dB
+3dB
RFCR b2-0
TRCR2 b3-0
3B
CDR b5
High Gain
CFR b2-0
CE-ATT
CFR b3
CEPOL
LPF
ATT
Pol sel.
buff (Ð12dB)
LCP
LCN
CP
CN
12dB is added
@ high gain mode
(CDR b5=1)
A2
B2
C2
D2
EQ
Comp.
PHASE DETECTOR
VC
RFCR b2-0
TRCR2 b6-4
DPD EQ
TRCR b6
DPD COMP HYS ON
MUX
LPF
SUB
Offset cancel
GCA
TE RST
TE
PDCR b3
CD/DVD
TRCR2 b7
CP/CN
Low Imp
CEFDB
TRCR b5-0
TR offset
CFR b7-5
TR Gain
for PI output ref.
for TE, FE & CE output ref.
V125
CDR b2
V25
VCI for servo input
VC
CDR b3
CHR b7-6
Mirr Defect
Comp ATT
MRCR b7-0
droop rate
control
MRCR b6-4
Mirr Comp
ATT Level
CONTROL
Signals
To each block
SERIAL PORT REGISTER
SDEN
SDATA
SCLK
CCR b5
APC SEL
DVD/CD
CDR b4
LD H/L
AGCO
Btm Env
CTCR b5-4
MEVO SEL
TOP HLD
TOP ENV
BTM HLD
BTM ENV
Btm clamp & clip
AGC BTM ENV
BENV
PII
Dual APC
DVDPD
CDPD
Vref
CGR b5-4
Gain
CDR b7
LINKEN
CCR b7
DISK DET
V33 for output buff
V33
LDON
CDLD
DVDLD
MEV
MEVO
MIN
MP
MB
MLPF
LINK
MIRR
VPA
VPB
VNA
VNB

Terminal Function

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)
LINK	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

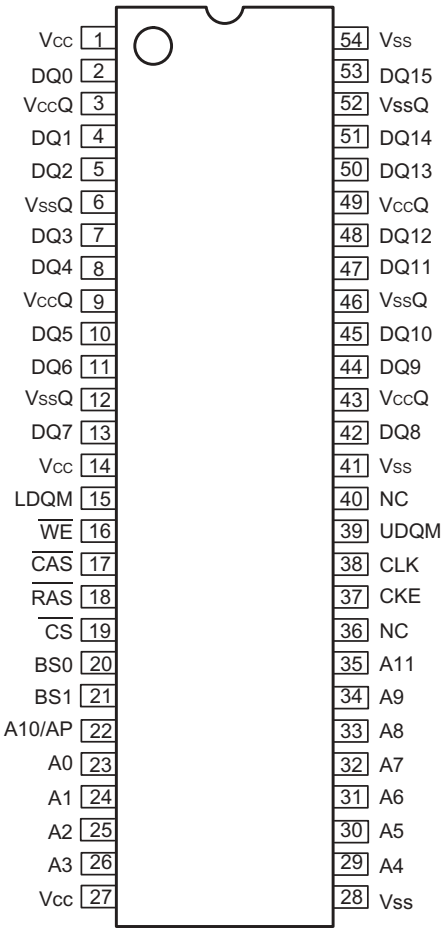
Analog Pins

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

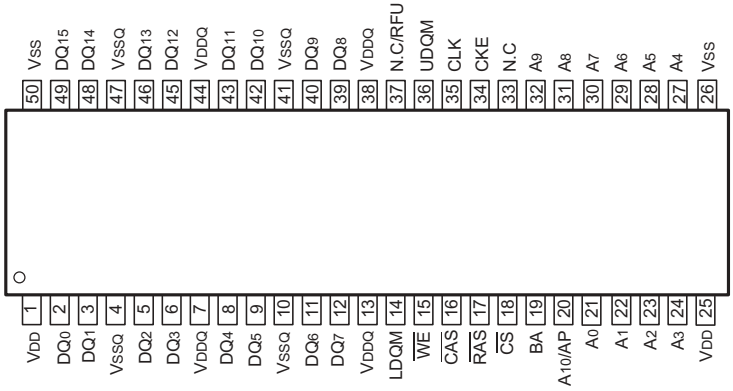
K4S641632H (MA: IC114)



Terminal Function

Pin No.	Pin Name	Function	Description
1, 14, 27	Vcc	Power (+3.3V)	Power for input buffers and logic circuit inside DRAM.
2, 4, 5, 7, 8, 10, 11, 13, 42, 44, 45, 47, 48, 50, 51, 53	DQ0-DQ15	Data Input/Output	Multiplexed pins for data output and input.
3, 9, 43, 49	VccQ	Power (+3.3V) for I/O buffer	Separated power from VCC, to improve DQ noise immunity.
6, 12, 46, 52	VssQ	Ground for I/O buffer	Separated ground from VSS, to improve DQ noise immunity.
16	$\overline{WE}$	Write Enable	Referred to $\overline{RAS}$.
17	$\overline{CAS}$	Column Address Strobe	Referred to $\overline{RAS}$.
18	$\overline{RAS}$	Row Address Strobe	Command input. When sampled at the rising edge of the clock $\overline{RAS}$, $\overline{CAS}$ and $\overline{WE}$ define the operation to be executed.
19	$\overline{CS}$	Chip Select	Disable or enable the command decoder. When command decoder is disabled, new command is ignored and previous operation continues.
20, 21	BS0, BS1	Bank Select	Select bank to activate during row address latch time, or bank to read/write during address latch time.
23~26, 22 29~35	A0-A11	Address	Multiplexed pins for row and column address. Row address: A0-A11. Column address: A0-A7. A10 is sampled during a precharge command to determine if all banks are to be precharged or bank selected by BS0, BS1.
28, 41, 54	Vss	Ground	Ground for input buffers and logic circuit inside DRAM.
36, 40	NC	No Connection	No Connection
37	CKE	Clock Enable	CKE controls the clock activation and deactivation. When CKE is low, Power Down mode, Suspend mode, or Self Refresh mode is entered.
38	CLK	Clock Inputs	System clock used to sample inputs on the rising edge of clock.
39, 15	UDQM, LDQM	Input/Output mask	The output buffer is placed at Hi-Z (with latency of 2) when DQM is sampled high in read cycle. In write cycle, sampling DQM high will block the write operation with zero latency.

16M SDRAM (MA: IC402)

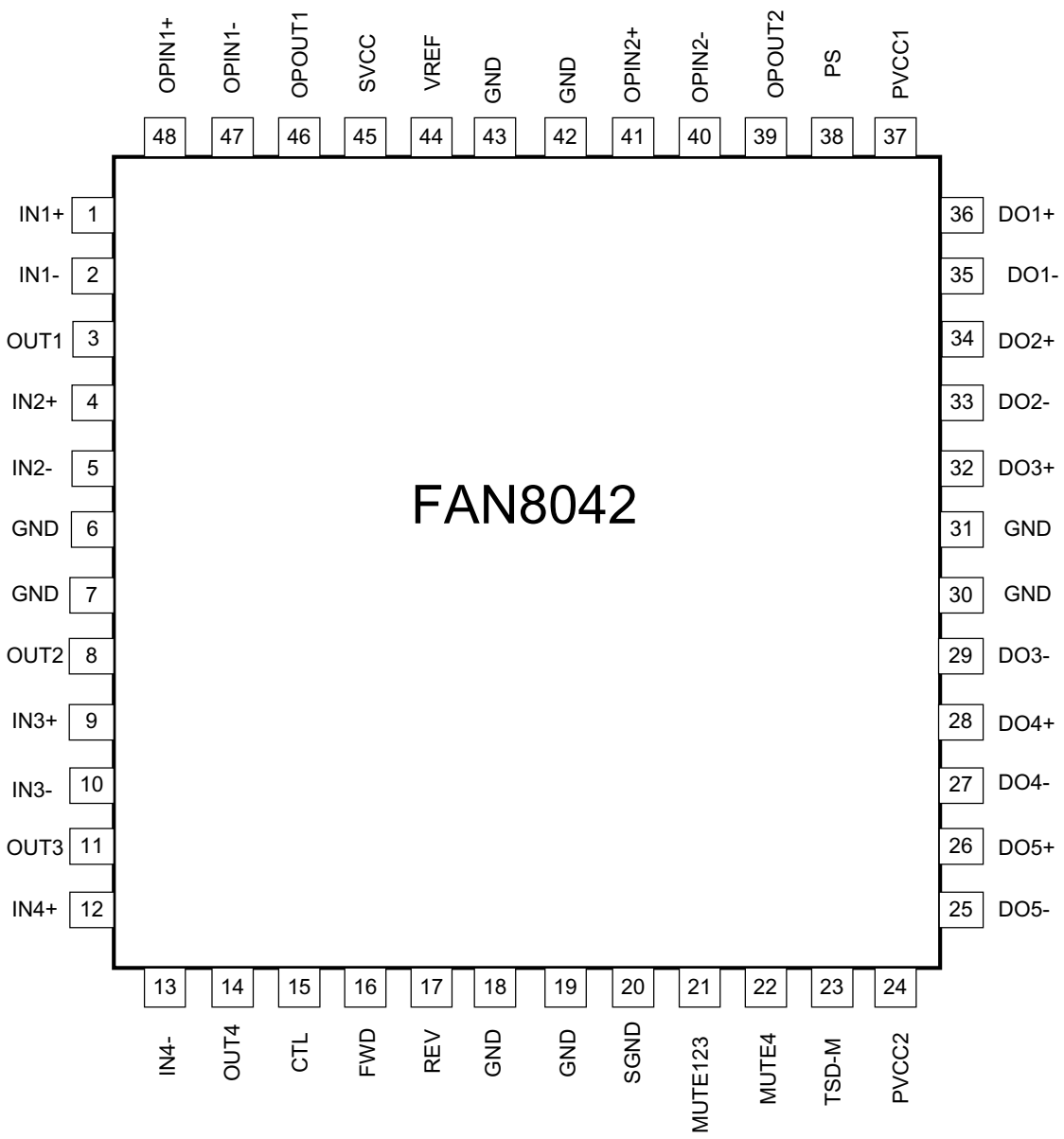


Terminal Function

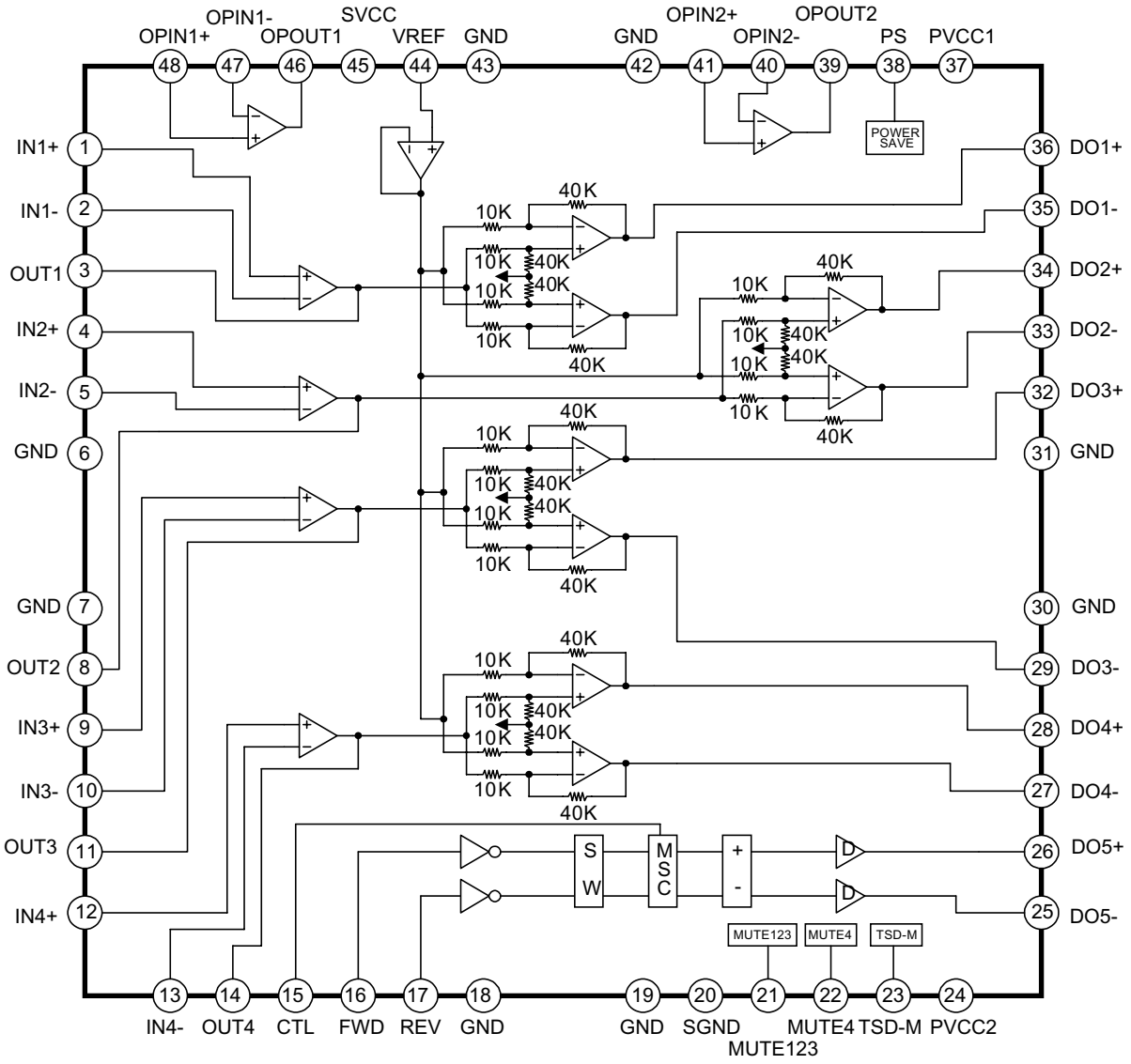
Pin No.	Pin Name	Symbol	Function
1	V_{DD}	Power Supply/Ground	Power and ground for the input buffer and the core logic
2	DQ_0	Data Input/Output	Data input/output are mutiplexed on the same pin
3	DQ_1	Data Input/Output	Data input/output are mutiplexed on the same pin
4	V_{SSQ}	Data Output Power/Ground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

FAN8042 (MA: IC503)

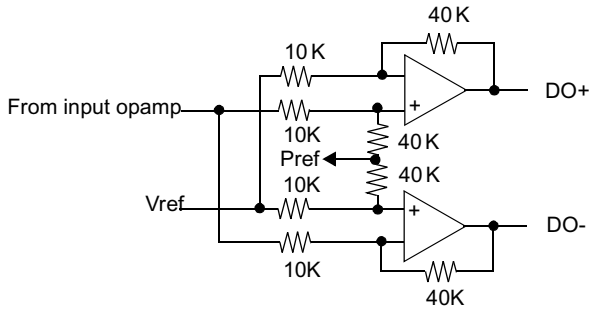
Pin Assignments



Block Diagram



Note. Detailed circuit of the output power amp

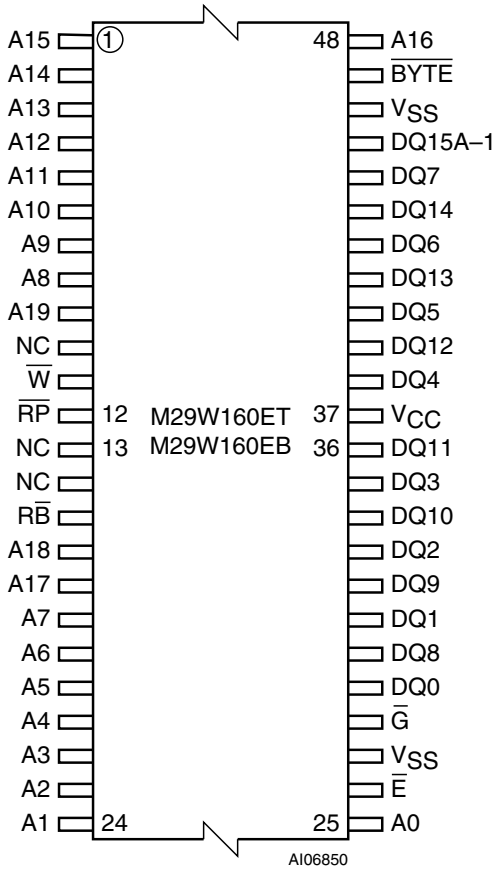


Pref1 is almost PVCC1 / 2
Pref2 is almost PVCC2 / 2

Pin Definitions

Pin Number	Pin Name	I/O	Pin Function Descrition
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 (+)

MBM29LV160BE90TN (MA: IC401 IE: IC104)

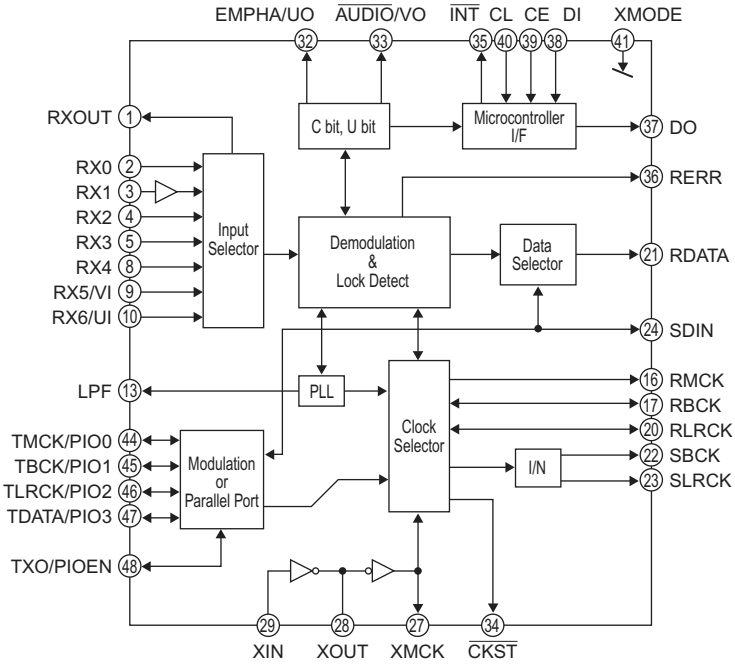


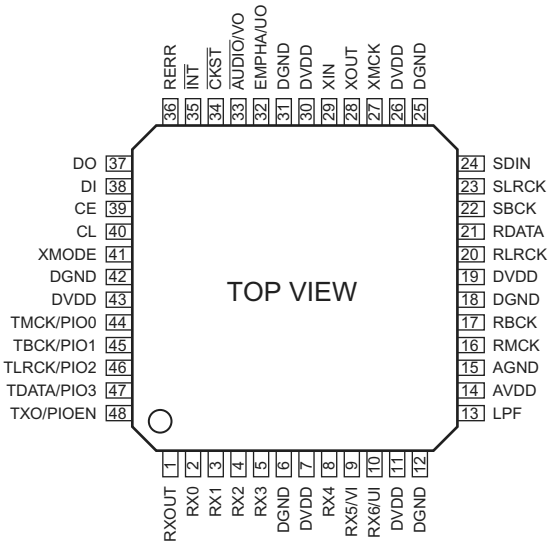
A0-A19	Address Inputs
DQ0-DQ7	Data Inputs/Outputs
DQ8-DQ14	Data Inputs/Outputs
DQ15A–1	Data Input/Output or Address Input
$\overline{E}$	Chip Enable
$\overline{G}$	Output Enable
$\overline{W}$	Write Enable
$\overline{RP}$	Reset/Block Temporary Unprotect
$R\overline{B}$	Ready/Busy Output
$\overline{BYTE}$	Byte/Word Organization Select
V_{CC}	Supply Voltage
V_{SS}	Ground
NC	Not Connected Internally

LH28F160BJE-BTL90 (SY: IC306)

A0-A19	Address Inputs
DQ0-DQ15	Data Inputs/Outpus
DE#	Chip Enable
RP#	Reset
OE#	Output Enable
WE#	Write Enable
WP#	Wraite Protect
BYTE#	Byte Enable
BY/BY#	Ready/Busy
VCCW	Block Erase, Full chip Erase, Word/Byte Write & Lock Bit set up Voltage
VCC	Supply Vootage
GND	Ground
NC	Not Connected

LC89057W (SY: IC309)





LC89057W Terminal Function

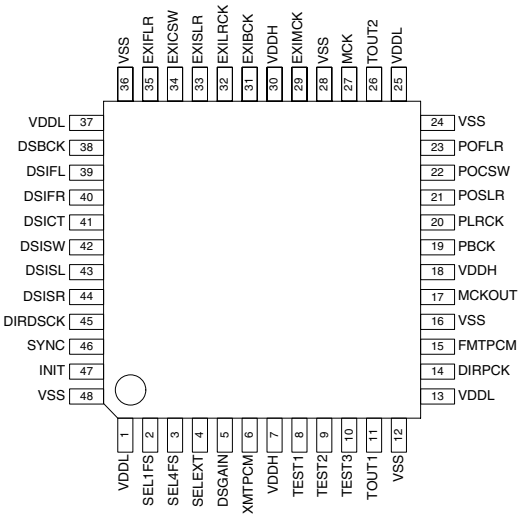
Pin No.	Pin Name	I/O	Function
1	RXOUT	O	Input bi-phase select data output terminal
2	RX0	I	TTL compatible digital data input terminal
3	RX1	I	Coaxial compatible amp built-in digital data input terminal
4	RX2	I	TTL compatible digital data input terminal
5	RX3	I	TTL compatible digital data input terminal
6	DGND	—	Digital GND
7	DVDD	—	Digital power
8	RX4	I	TTL compatible digital data input terminal
9	RX5/VI	I	TTL compatible digital data/Validity flag input terminal for modulation
10	RX6/UI	I	TTL compatible digital data/User data input terminal for modulation
11	DVDD	—	Digital power for PLL
12	DGND	—	Digital GND for PLL
13	LPF	O	PLL loop filter connecting terminal
14	AVDD	—	Analog power for PLL
15	AGND	—	Analog GND for PLL
16	RMCK	O	RMCK clock output terminal (256fs, 512fs, XIN, VCO)
17	RBCK	O/I	RBCK clock in/output terminal (64fs)
18	DGND	—	Digital GND
19	DVDD	—	Digital power
20	RLRCK	O/I	RLRCK clock in/output terminal (fs)
21	RDATA	O	Serial audio data output terminal
22	SBCK	O	SBCK clock output terminal (32fs, 64fs, 128fs)
23	SLRCK	O	SLRCK clock output terminal (fs/2, fs, 2fs)
24	SDIN	I	Serial audio data input terminal
25	DGND	—	Digital GND
26	DVDD	—	Digital power
27	XMCK	O	Osc. amp output terminal

Pin No.	Pin Name	I/O	Function
28	XOUT	O	X'tal osc. connecting output terminal
29	XIN	I	X'tal osc. connection, external clock input terminal (24.576MHz or 12.288MHz)
30	DVDD	—	Digital power
31	DGND	—	Digital GND
32	EMPHA/UO	I/O	Emphasis information/U-data output/Chip address setting terminal
33	AUDIO/VO	I/O	Non-PCM detect/V-flag output/ Chip address setting terminal
34	CKST	I/O	Clock switch transition period output/Demodulation master or slave function switching terminal
35	INT	I/O	Interrupt output for ∝com (Interrupt factor selectable)/Modulation or general I/O switching terminal
36	RERR	O	PLL lock error, data error flag output
37	DO	O	∝com I/F, read out data output terminal (3-state)
38	DI	I	∝com I/F, write data input terminal
39	CE	I	∝com I/F, chip enable input terminal
40	CL	I	∝com I/F, clock input terminal
41	XMODE	I	System reset input terminal
42	DGND	—	Digital GND
43	DVDD	—	Digital power
44	TMCK/PIO0	I/O	256fs system clock input for modulation/General I/O in/output terminal
45	TBCK/PIO1	I/O	64fs bit clock input for modulation/General I/O in/output terminal
46	TLRCK/PIO2	I/O	fs clock input for modulation/General I/O in/output terminal
47	TDATA/PIO3	I/O	Serial audio data input for modulation/General I/O in/output terminal
48	TXO/PIOEN	O/I	Modulation data output/ General I/O enable input terminal

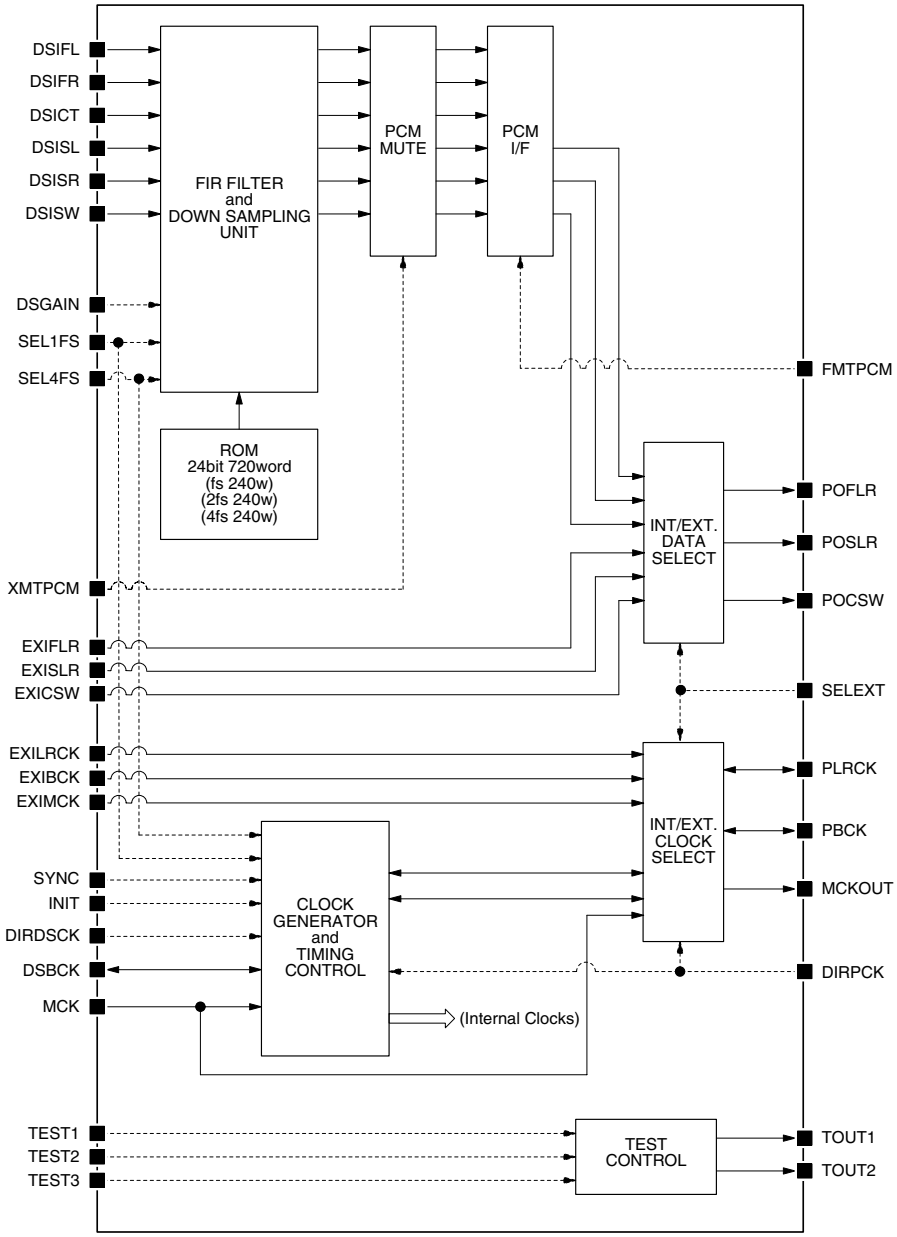
* For latch-up countermeasure, perform each power supply ON/OFF in the same timing.

SM5819A (MA: IC801)

Pin Assignment



BLOCK DIAGRAM



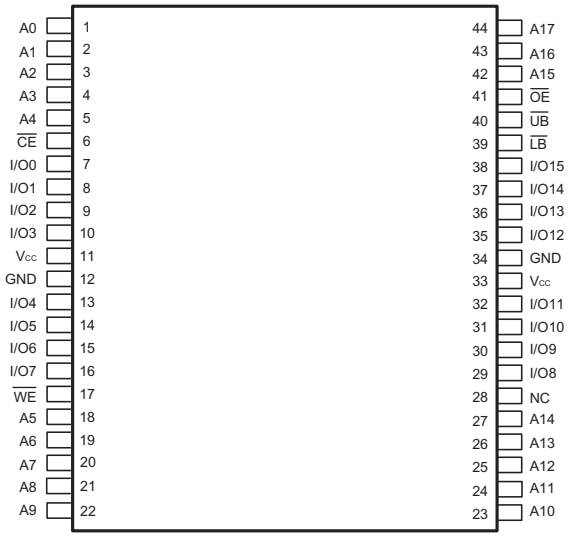
PIN DESCRIPTION

No.	Name	I/O	Property[1]	Input voltage	Description
1	VDDL	–	–	2.5V	Core power supply
2	SEL1FS	I	PD	3.3V	PCM output rate select 1 L: 2fs/4fs, H: fs
3	SEL4FS	I	PD	3.3V	PCM output rate select 2 L: 2fs, H: 4fs
4	SELEXT	I	PD	3.3V	fs/2fs/4fs output and external data output select L: fs/2fs/4fs data, H: external data (EXI**)
5	DSGAIN	I	PD	3.3V	DSD signal gain setting L: 100% modulation = 0dB, H: 50% modulation = 0dB
6	XMTPCM	I	PD	3.3V	PCM output mute control input L: Mute ON, H: Mute OFF
7	VDDH	–	–	3.3V	I/O power supply
8	TEST1	I	PD	3.3V	Test input 1 (must be open or tie LOW for normal operation)
9	TEST2	I	PD	3.3V	Test input 2 (must be open or tie LOW for normal operation)
10	TEST3	I	PD	3.3V	Test input 3 (must be open or tie LOW for normal operation)
11	TOUT1	O	–	–	Test output 1
12	VSS	–	–	–	Ground
13	VDDL	–	–	2.5V	Core power supply
14	DIRPCK	I	PD	3.3V	PCM output PBCK/PLRCK I/O select L: Output (master mode), H: Input (slave mode)
15	FMTPCM	I	PD	3.3V	PCM output format select L: MSB-first left-justified 32-bit, H: IIS 32-bit
16	VSS	–	–	–	Ground
17	MCKOUT	O	12mA	–	System clock output (selected by SELEXT)
18	VDDH	–	–	3.3V	I/O power supply
19	PBCK	I/O	S, 6mA	3.3V	PCM output BCK bit clock
20	PLRCK	I/O	S, 6mA	3.3V	PCM output LRCK word clock
21	POSLR	O	2mA	–	PCM data output: surround left/right-channel
22	POCSW	O	2mA	–	PCM data output: center/subwoofer channel
23	POFLR	O	2mA	–	PCM data output: front left/right-channel
24	VSS	–	–	–	Ground
25	VDDL	–	–	2.5V	Core power supply
26	TOUT2	O	–	–	Test output 2
27	MCK	I	–	3.3V	Master clock input: 512fs (22.5792MHz, fs = 44.1kHz)
28	VSS	–	–	–	Ground
29	EXIMCK	I	–	3.3V	External system clock input
30	VDDH	–	–	3.3V	I/O power supply
31	EXIBCK	I	S	3.3V	External PCM data BCK bit clock input
32	EXILRCK	I	S	3.3V	External PCM data LRCK word clock input
33	EXISLR	I	–	3.3V	External PCM data input: surround left/right-channel
34	EXICSW	I	–	3.3V	External PCM data input: center/subwoofer channel
35	EXIFLR	I	–	3.3V	External PCM data input: front left/right-channel
36	VSS	–	–	–	Ground
37	VDDL	–	–	2.5V	Core power supply
38	DSBCK	I/O	S, 6mA	3.3V	DSD data input bit clock. Controlled by DIRDSCK

No.	Name	I/O	Property[1]	Input voltage	Description
39	DSIFL	I	–	3.3V	DSD data input: front left-channel
40	DSIFR	I	–	3.3V	DSD data input: front right-channel
41	DSICT	I	–	3.3V	DSD data input: center channel
42	DSISW	I	–	3.3V	DSD data input: subwoofer channel
43	DSISL	I	–	3.3V	DSD data input: surround left-channel
44	DSISR	I	–	3.3V	DSD data input: surround right-channel
45	DIRDSCK	I	PD	3.3V	DSBCK I/O select L: input (slave), H: output (master)
46	SYNC	I	S, PU	3.3V	Forced synchronization input (active-HIGH edge)
47	INIT	I	S, PU	3.3V	Initialization input: Active-LOW, Resync on “L” → “H”
48	VSS	–	–	–	Ground

1. S = Schmitt, PU = pull-up resistor, PD = pull-down resistor, mA = output current

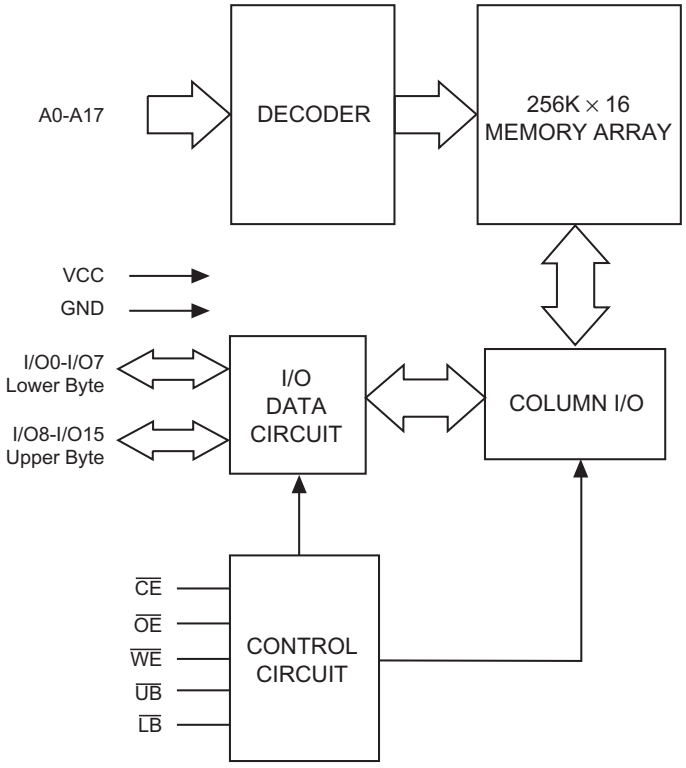
IC61LV25616 (IE: IC402)
/AS7C34098A-10TCN



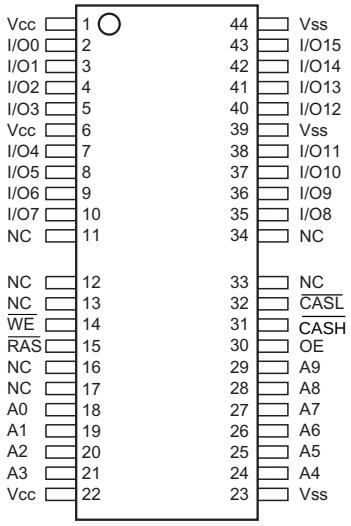
Pin Description

Symbol	Pin Name
A0~A17	Address Inputs
I/O0-I/O15	Data Inputs/Outputs
$\overline{CE}$	Chip Enable Input
$\overline{OE}$	Output Enable Input
$\overline{WE}$	Write Enable Input
$\overline{LB}$	Lower-byte Control (I/O0-I/O7)
$\overline{UB}$	Upper-byte Control (I/O8-I/O15)
NC	No Connection
VCC	Power
GND	Ground

Block Diagram



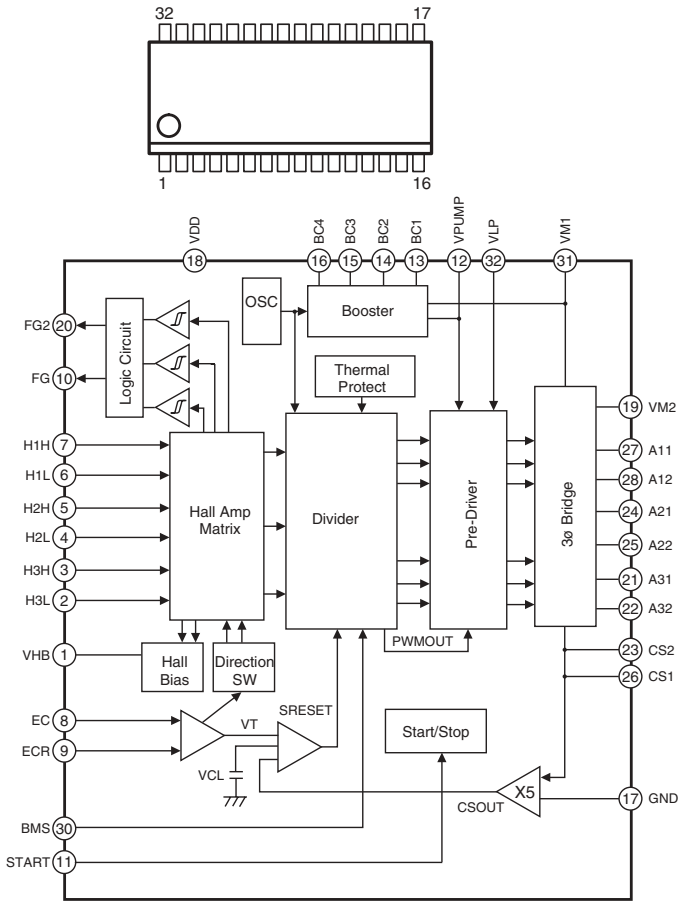
M11L16161SA (MA: IC505)



PIN DESCRIPTIONS

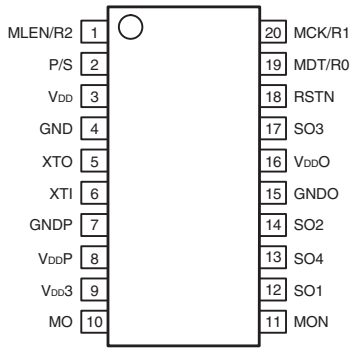
PIN NO.	PIN NAME	TYPE	DESCRIPTION
18~21,24~29	A0~A9	Input	Address Input Row Address:A0~A9 Column Address:A0~A9
15	$\overline{RAS}$	Input	Row Address Strobe
31	$\overline{CASH}$	Input	Column Address Strobe/Upper Byte Control
32	$\overline{CASL}$	Input	Column Address Strobe/Lower Byte Control
14	$\overline{WE}$	Input	Write Enable
30	$\overline{OE}$	Input	Output Enable
2~5,7~10, 35~38,40~43	I/O0~I/O15	Input/Output	Data Input/Output
1,6,22	Vcc	Supply	Power,(5V or 3.3V)
23,39,44	Vss	Ground	Ground
11,12,13,16,17, 33,34	NC	-	No Connect

AN8471SA (MA: IC501)



Pin No.	Pin Name	Function
1	VHB	Hall bias pin
2	H3L	Hall element 3 input (-)
3	H3H	Hall element 3 input (+)
4	H2L	Hall element 2 input (-)
5	H2H	Hall element 2 input (+)
6	H1L	Hall element 1 input (-)
7	H1H	Hall element 1 input (+)
8	EC	Torque command input pin
9	ECR	Torque command ref. input pin
10	FG1	FG signal lout put pin (0.C)
11	START	Start/Stop switching pin
12	VPUMP	Booster pin
13	BC1	Booster cap. connecting pin 1
14	BC2	Torque command input pin 2
15	BC3	Torque command input pin 3
16	BC4	Torque command input pin 4
17	GND	GND pin
18	V_{DD}	Power pin
19	VM2	Motor power pin 2
20	FG2	3x FG signal output pin (0.C)
21	A31	Drive output 3
22	A32	Drive output 3
23	CS2	Current detect pin 2
24	A21	Drive output 2
25	A22	Drive output 2
26	CS1	Current detect pin 1
27	A11	Drive output 1
28	A12	Drive output 1
29	NC	N.C.
30	BMS	Brake mode switching pin
31	VM1	Motor power pin 1
32	VLP	Pre-driver lower power

SM8701BM (MA: IC106)



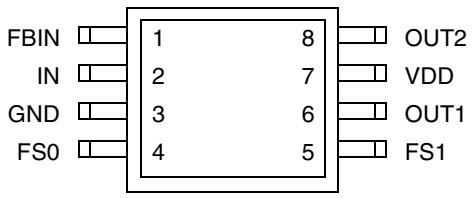
SM8701BM Terminal Function

Pin No.	Pin Name	I/O	Function
1	MLEN/R2	Ip[1]	Control signal input. In serial mode: latch enable signal In parallel mode: sampling rate select signal
2	P/S	Ip[1]	Mode select signal. LOW: serial mode, HIGH: parallel mode
3	VDD	—	5V supply (Digital block)
4	GND	—	Ground (Digital block)
5	XTO	O	Reference signal crystal oscillator element connection
6	XTI	I	Reference signal crystal oscillator element connection or external clock input
7	GNDP	—	Ground (PLL block)
8	VDDP	—	5V supply (PLL block)
9	VDD3	—	3.3V supply (output buffer)
10	MO	O	27 MHz fixed-frequency output
11	MON	O	27 MHz fixed-frequency output (inverted)
12	SO1	O	33.8688 MHz fixed-frequency output
13	SO4	O	768fs output
14	SO2	O	256fs output
15	GNDO	—	Ground (output buffer)
16	VDDO	—	3.3V supply (output buffer)
17	SO3	O	384fs output
18	RSTN	Ip[2]	LOW-level reset input
19	MDT/R0	Ip[1]	Control signal input. In serial mode: control data input signal In parallel mode: sampling frequency select signal
20	MCK/R1	Ip[1]	Control signal input. In serial mode: clock signal In parallel mode: sampling frequency select signal

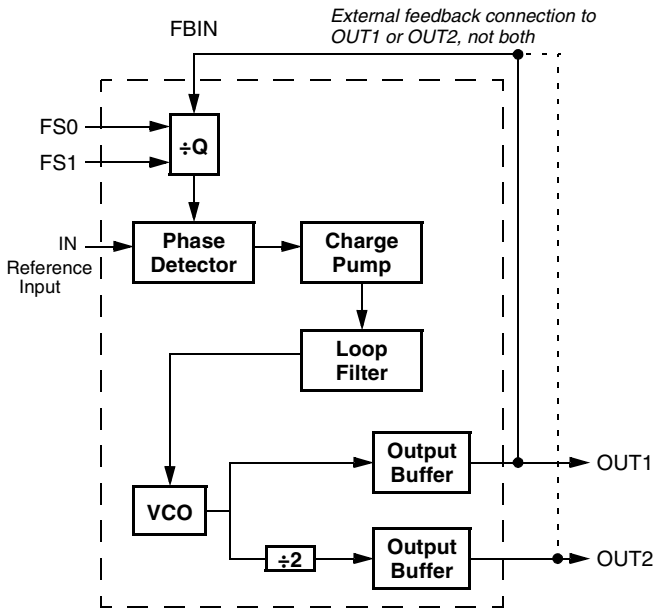
Note: 1. Schmitt trigger input with pull-down resistor
2. Schmitt trigger input with pull-up resistor

CY2302 (IE: IC110, 505 SY: IC107)

Pin Configuration



Block Diagram

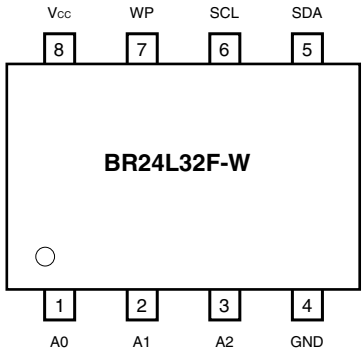


Configuration Options

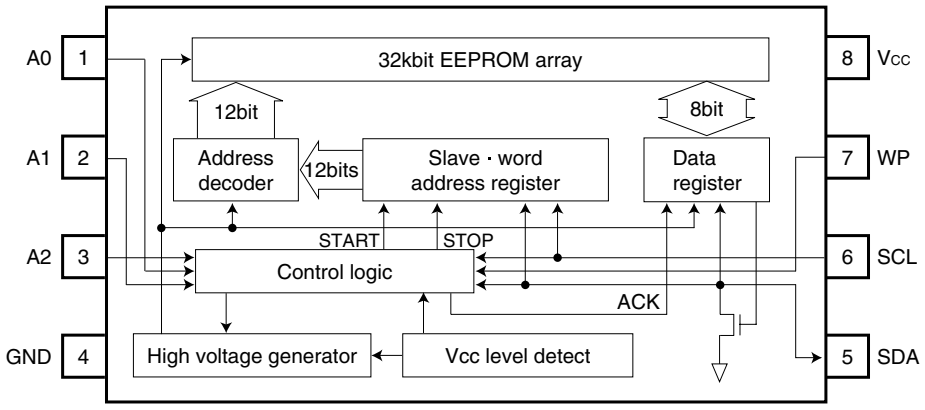
FBIN	FS0	FS1	OUT1	OUT2
OUT1	0	0	2 X REF	REF
OUT1	1	0	4 X REF	2 X REF
OUT1	0	1	REF	REF/2
OUT1	1	1	8 X REF	4 X REF
OUT2	0	0	4 X REF	2 X REF
OUT2	1	0	8 X REF	4 X REF
OUT2	0	1	2 X REF	REF
OUT2	1	1	16 X REF	8 X REF

BR24L32F-W (MA: IC116)

Pin configuration



Block diagram

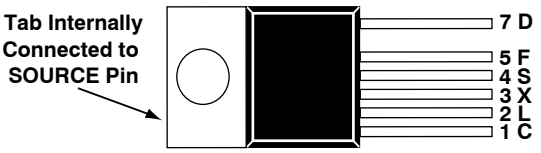


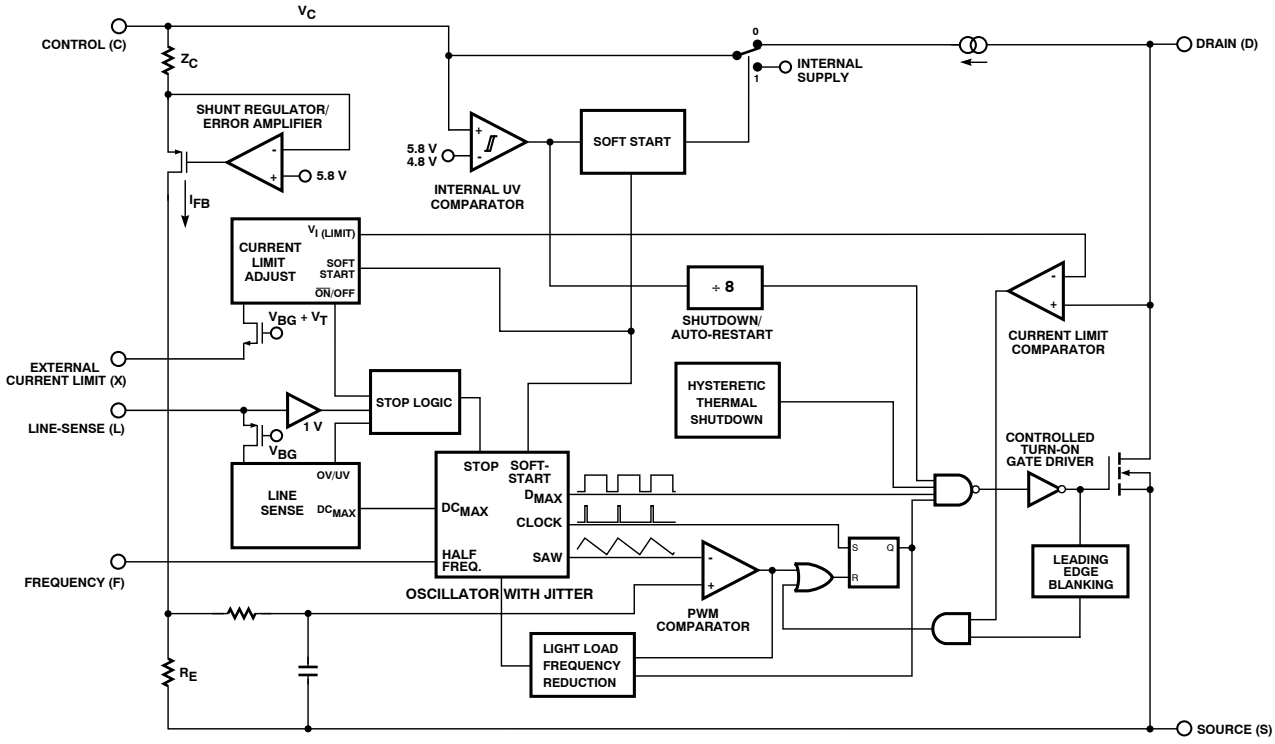
Pin name

Pin name	I / O	Function
Vcc		Power supply
GND		Ground (0V)
A0, A1, A2	IN	Slave address set
SCL	IN	Serial clock input
SDA	IN / OUT	Slave and word address, serial data input, serial data output
WP	IN	Write protect input

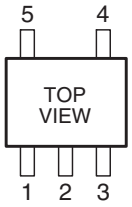
An open drain output requires a pull-up resistor.

TOP247Y (PO: IC901)

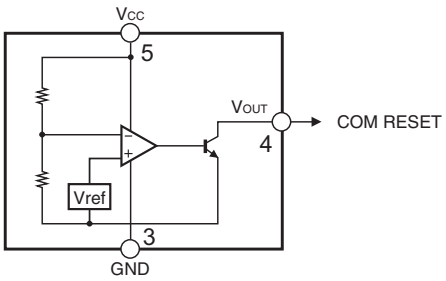




BD4730G (SY: 103)

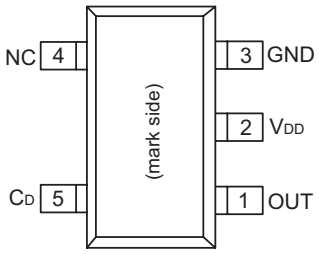


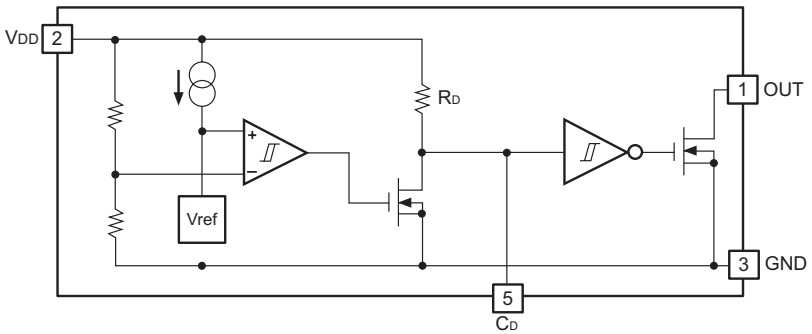
Block diagram



RN5VD30AA (IE: IC206)
RN5VD15AA (IE: IC203)

Block Diagram

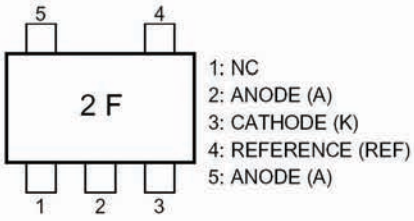




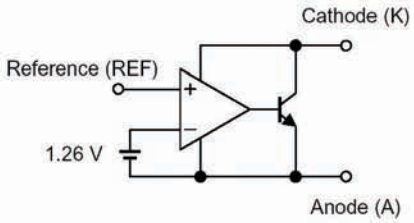
TA76432FC (PO: IC902)

Pin Assignment/Marking

TA76432FT/TA76432FC

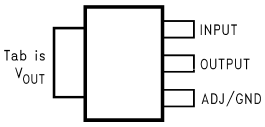


Functional Block Diagram

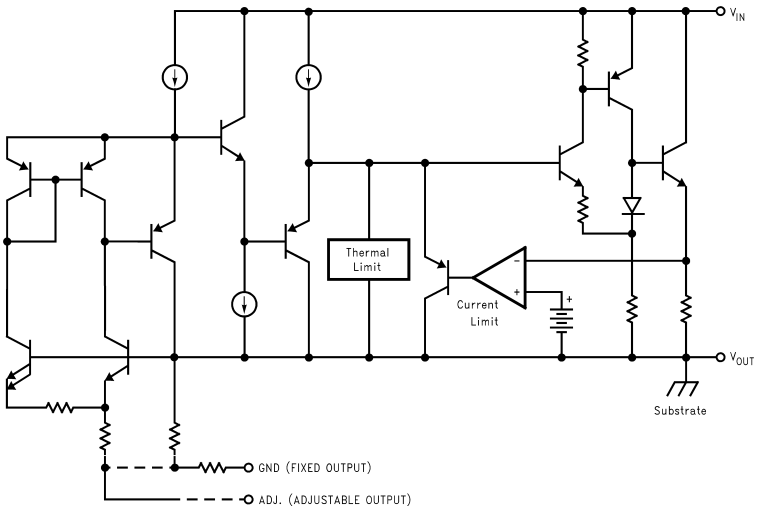


LM1117MPX-1.8 (IE: IC205)

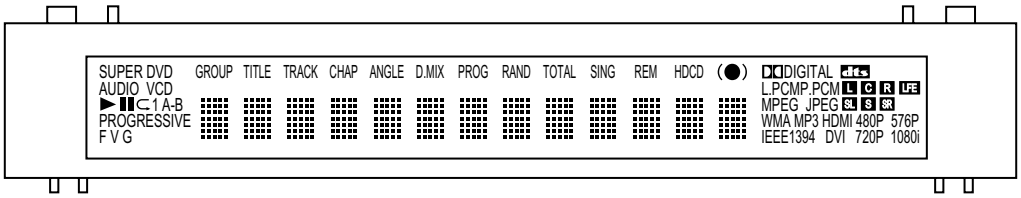
Connection Diagrams

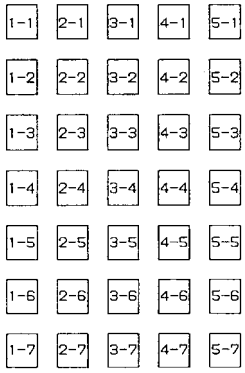


Block Diagram

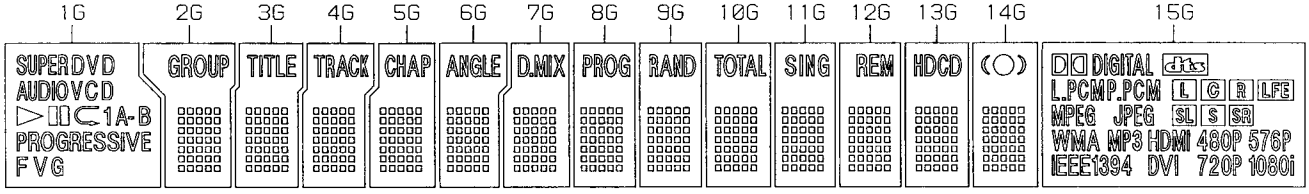


● FL TUBE (15-BT-97GNK) (PO: FL101)





(2G~14G)



PIN CONNECTION

PIN NO.	54 09	44 98	44 76	44 54	44 32	44 10	43 98	33 76	33 54	33 32	33 10	32 98	22 76	22 54	22 32	22 10	21 98	11 76	11 54	11 32	11 10	11 98	87	65	43	21
CONNECTION	P 36	P 35	P 34	P 33	P 32	P 31	P 30	P 29	P 28	P 27	P 26	P 25	P 24	P 23	P 22	P 21	P 20	P 19	P 18	P 17	P 16	P 15	P 14	P 13	P 12	P 11	P 10	P 9	P 8	P 7	P 6	P 5	P 4	P 3	P 2	P 1

PIN NO.	66 21	65 09	55 87	55 65	55 43	55 21
CONNECTION	F-	NX	NP	P 89	23 01	33 23	33 45	33 67	33 89	33 AB

NOTE 1) F-,F+ --- Filament
2) NP ------ No pin
3) DL ------ Datum Line
4) 1G~15G --- Grid

5) NC ------ No connection
(NC pin should be electrically open on the PC board)

(unit in mm)

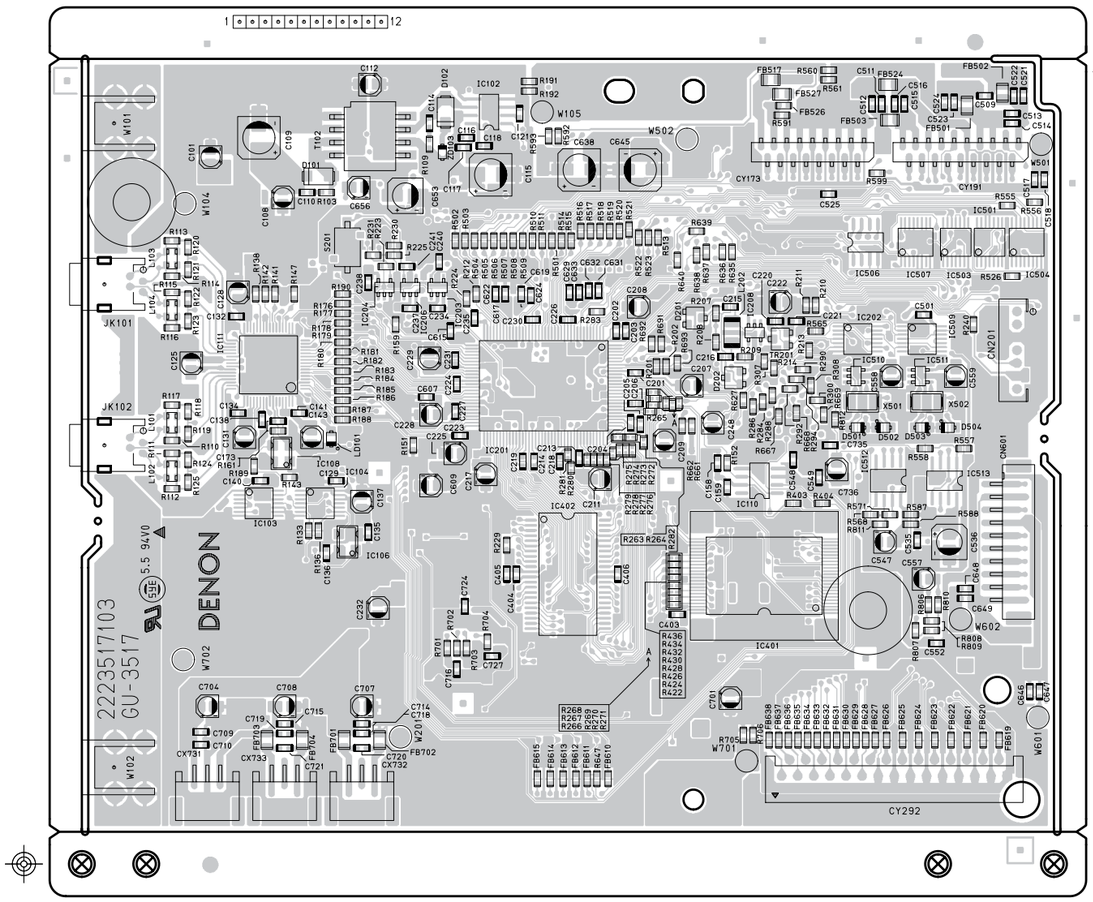
15-BT-97GNK
OUTER DIMENSION

ANODE CONNECTION

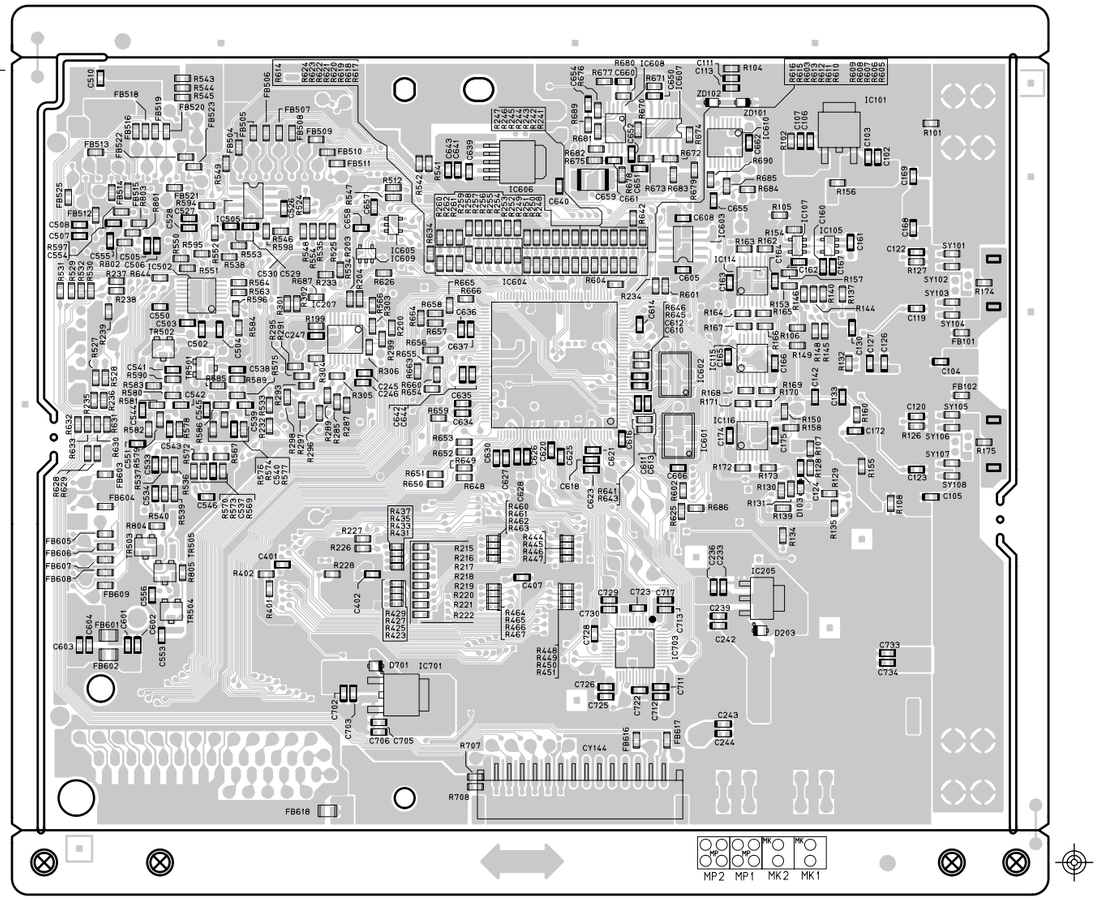
	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	15G
P1	SUPER	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	L
P2	DVD	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	C
P3	AUDIO	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	LFE
P4	V (CD)	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	R
P5	(V)CD	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	SL
P6	▷	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	SR
P7	▯▯	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	S
P8	⊂	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	–
P9	1	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	–
P10	A-	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	–
P11	B	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	WMA
P12	PROGRESSIVE	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	MP3
P13	F	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	DIGITAL
P14	V (FVG)	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	dts
P15	G	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	MPEG
P16	–	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	L.PCM
P17	–	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	P.PCM
P18	–	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	JPEG
P19	–	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	DVI
P20	–	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	HDMI
P21	–	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	IEEE1394
P22	–	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	480P
P23	–	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	720P
P24	–	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	1080i
P25	–	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	576P
P26	–	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	–
P27	–	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	–
P28	–	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	–
P29	–	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	–
P30	–	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	–
P31	–	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	–
P32	–	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	–
P33	–	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	–
P34	–	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	–
P35	–	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	–
P36	–	GROUP	TITLE	TRACK	CHAP	ANGLE	D.MIX	PROG	RAND	TOTAL	SING	REM	HDCD	(○)	–

PRINTED WIRING BOARDS

GU-3517 IEEE1394 P.W.B. UNIT

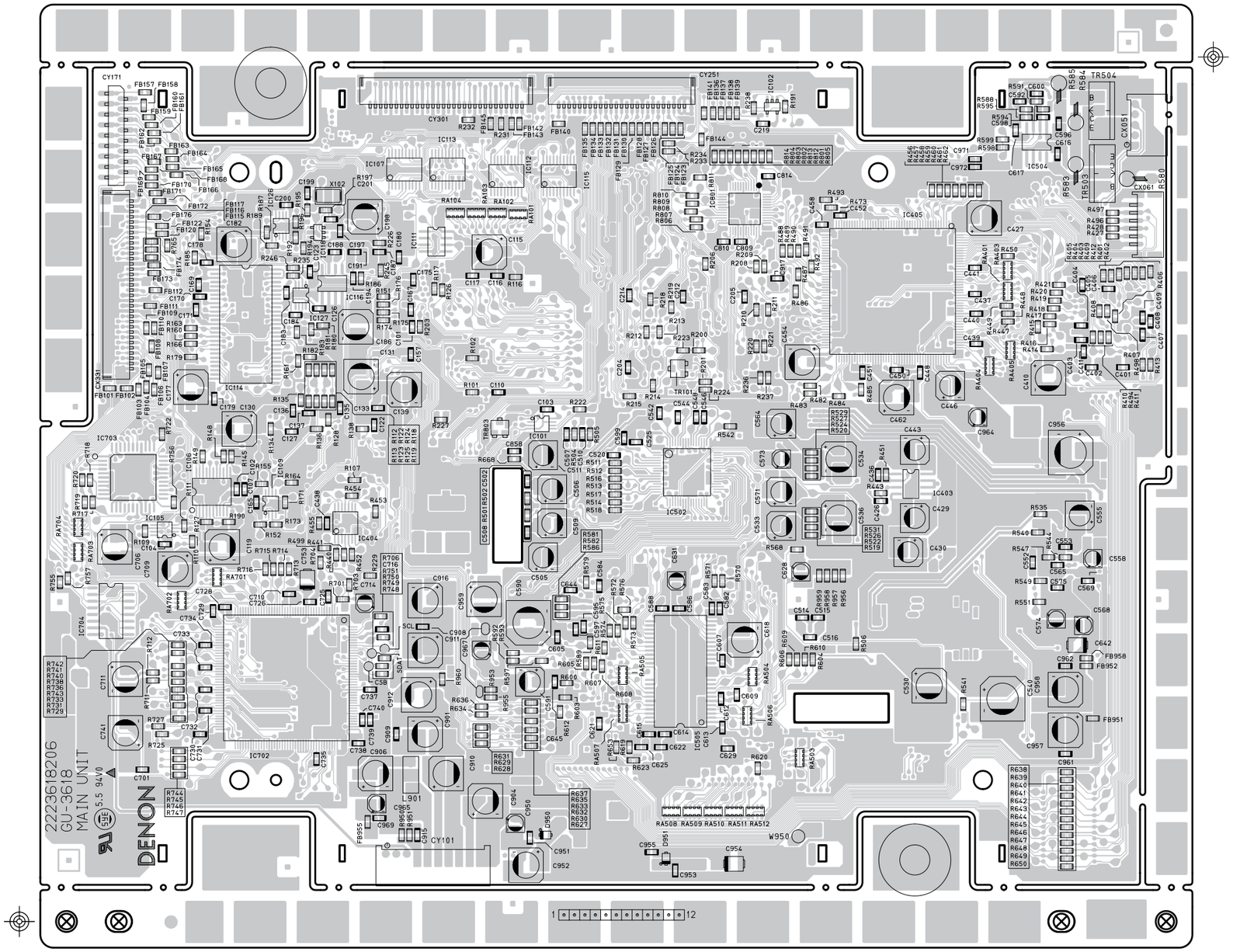


COMPONENT SIDE



FOIL SIDE

GU-3618 MAIN P.W.B. UNIT



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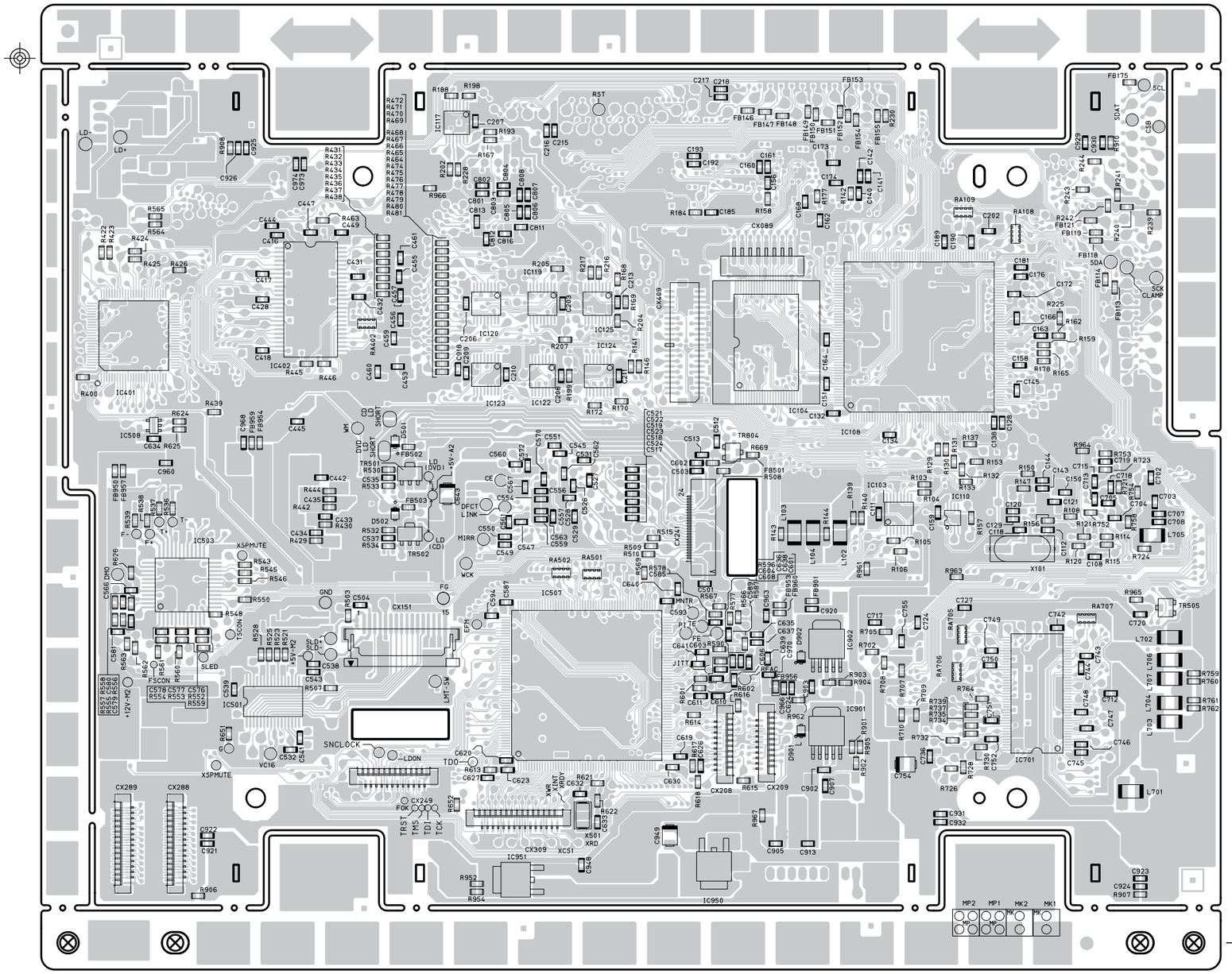
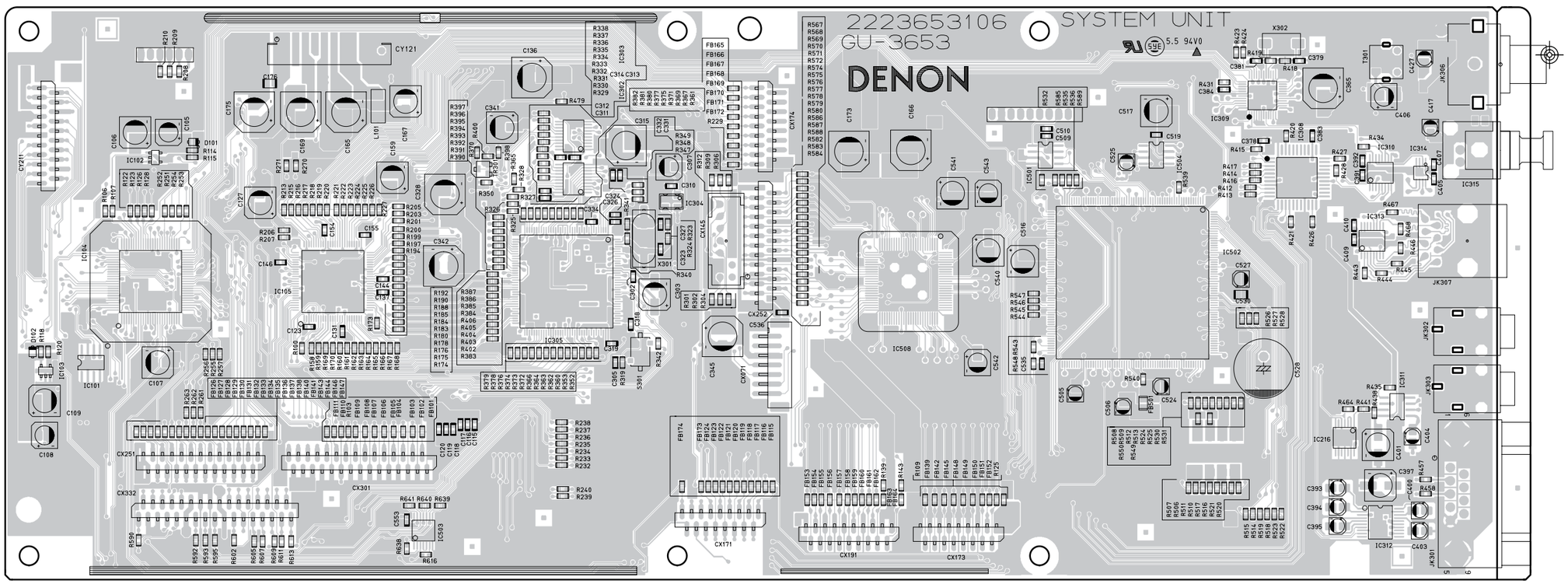
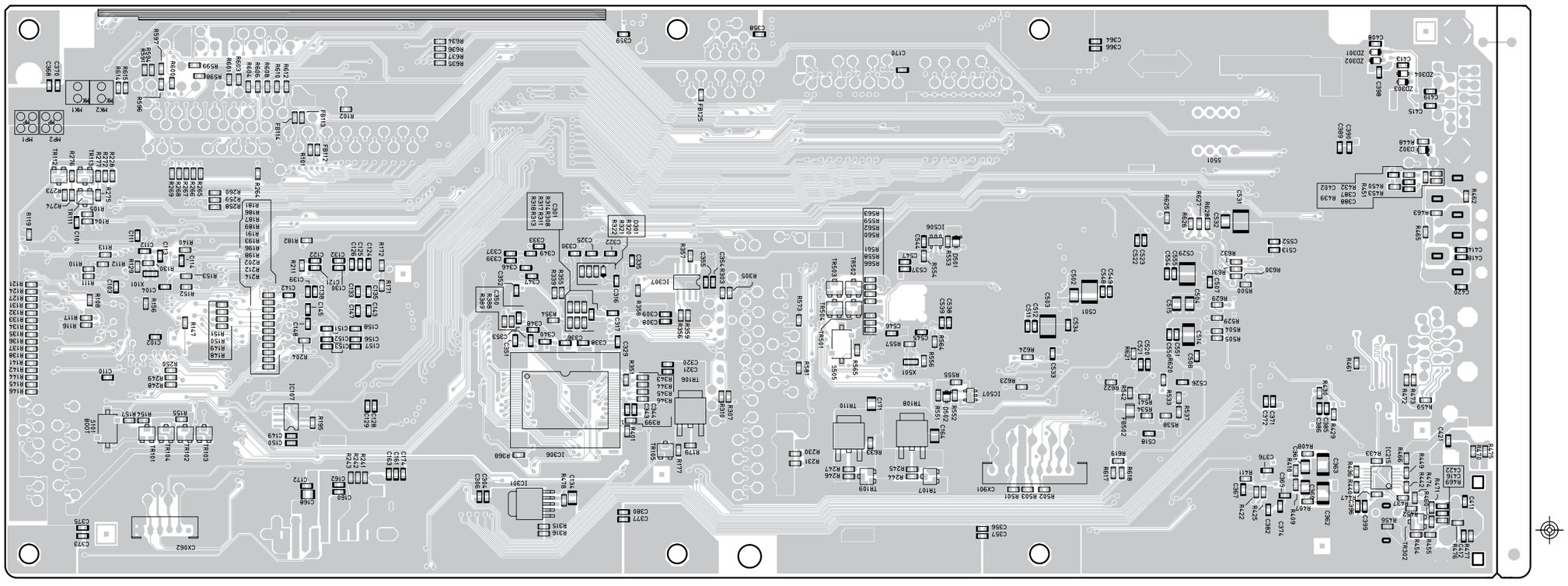


FOIL SIDE

GU-3653 SYSTEM P.W.B. UNIT

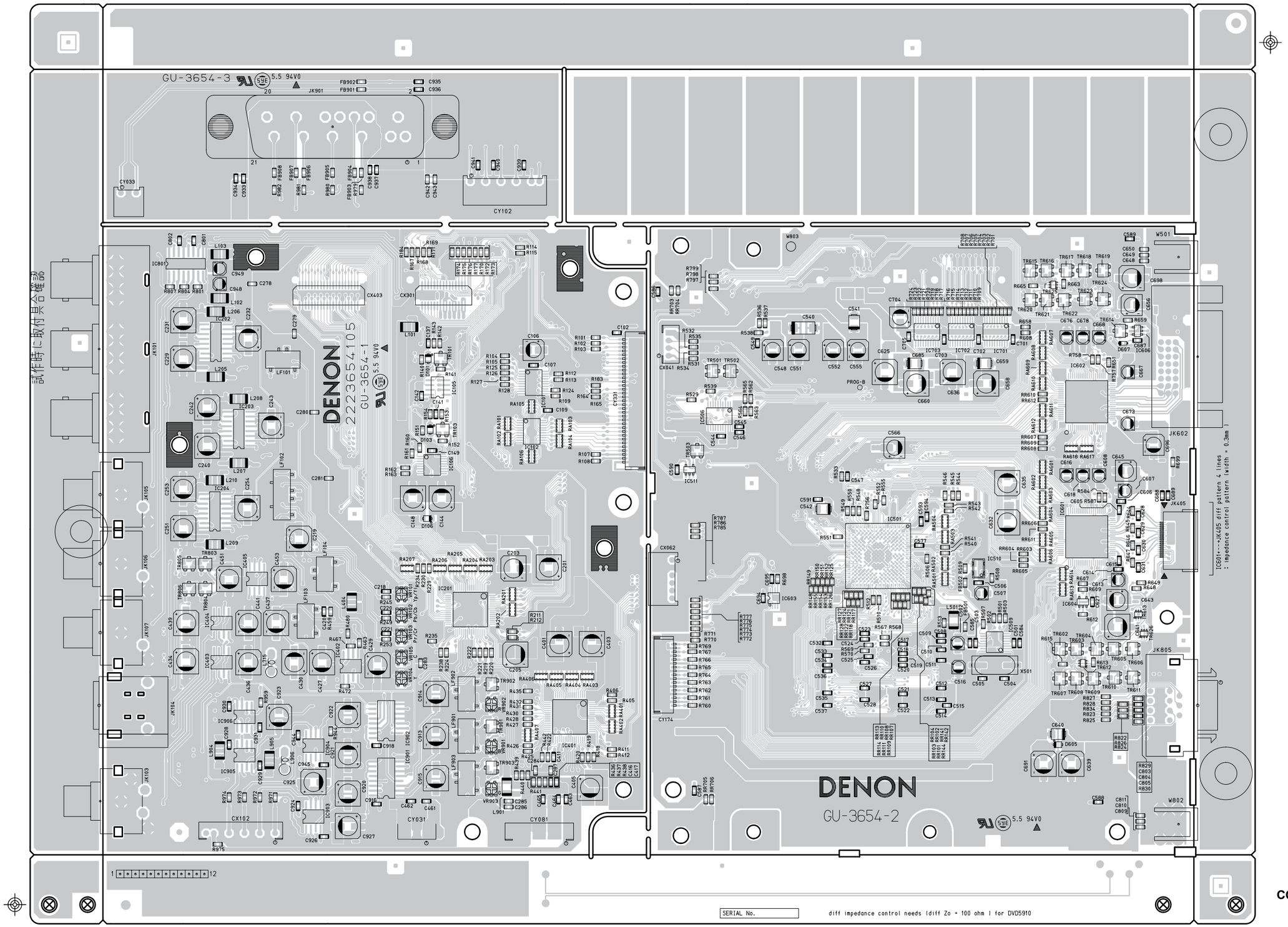


COMPONENT SIDE



FOIL SIDE

GU-3654 VIDEO P.W.B. UNIT



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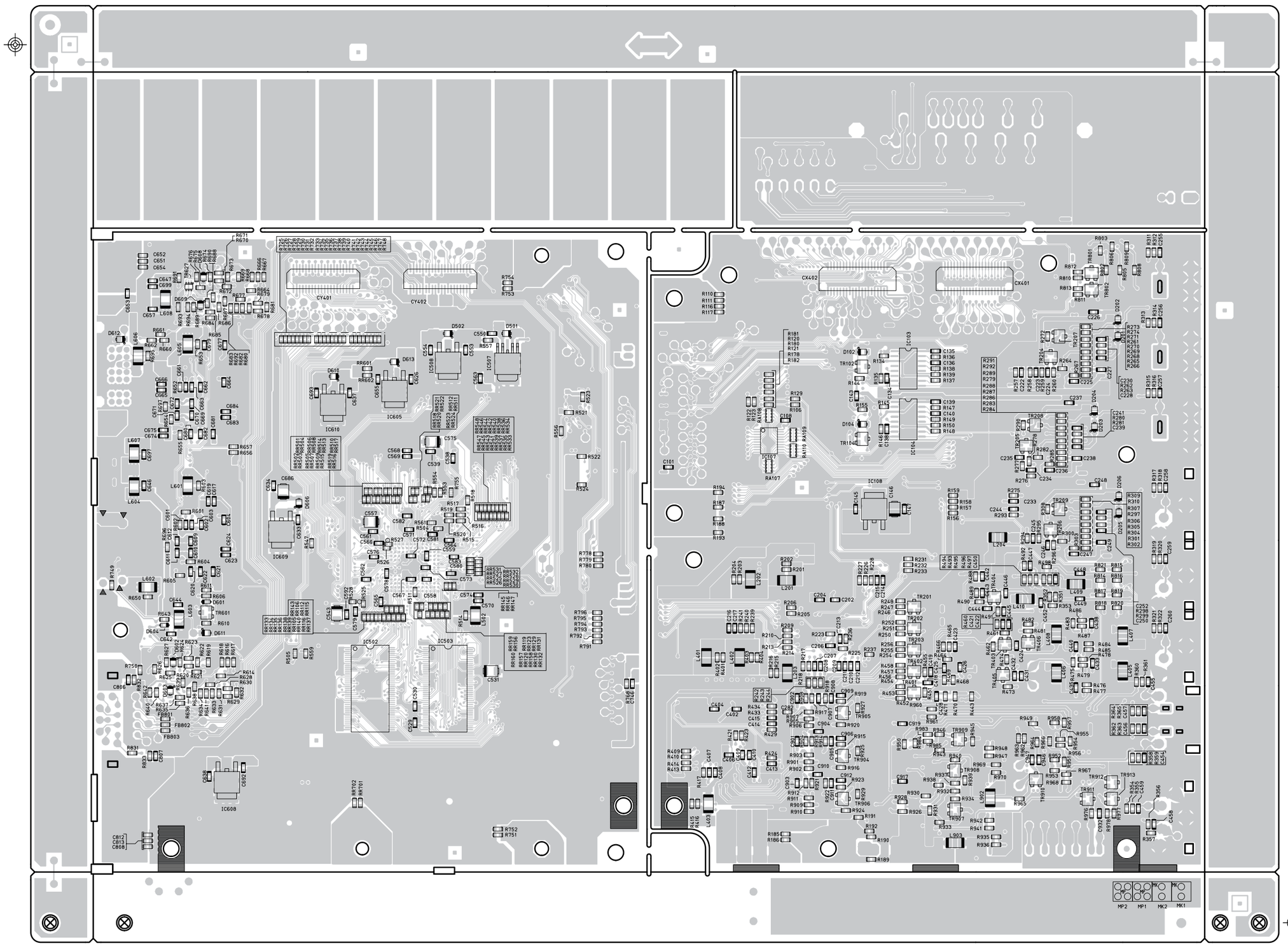
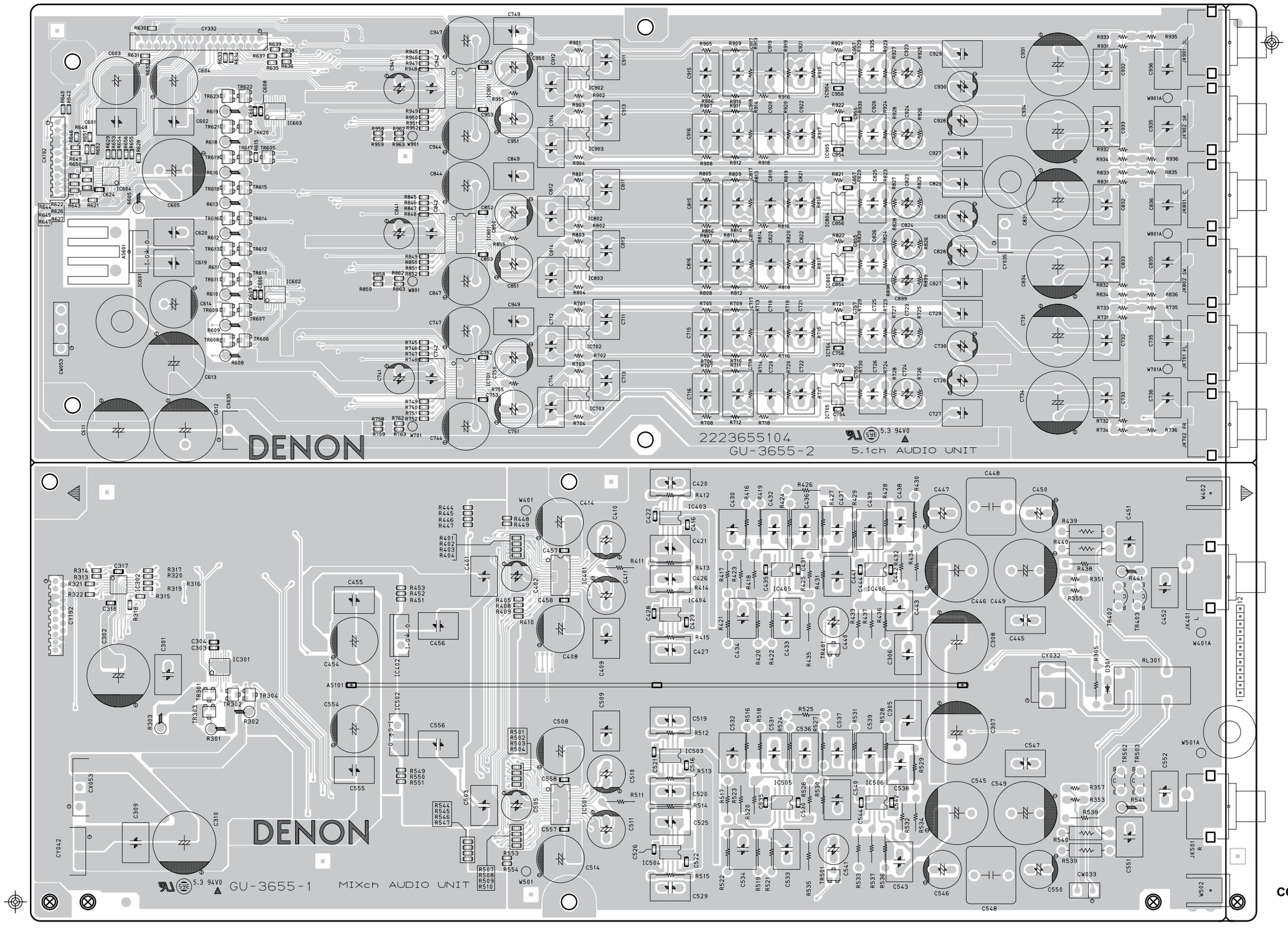
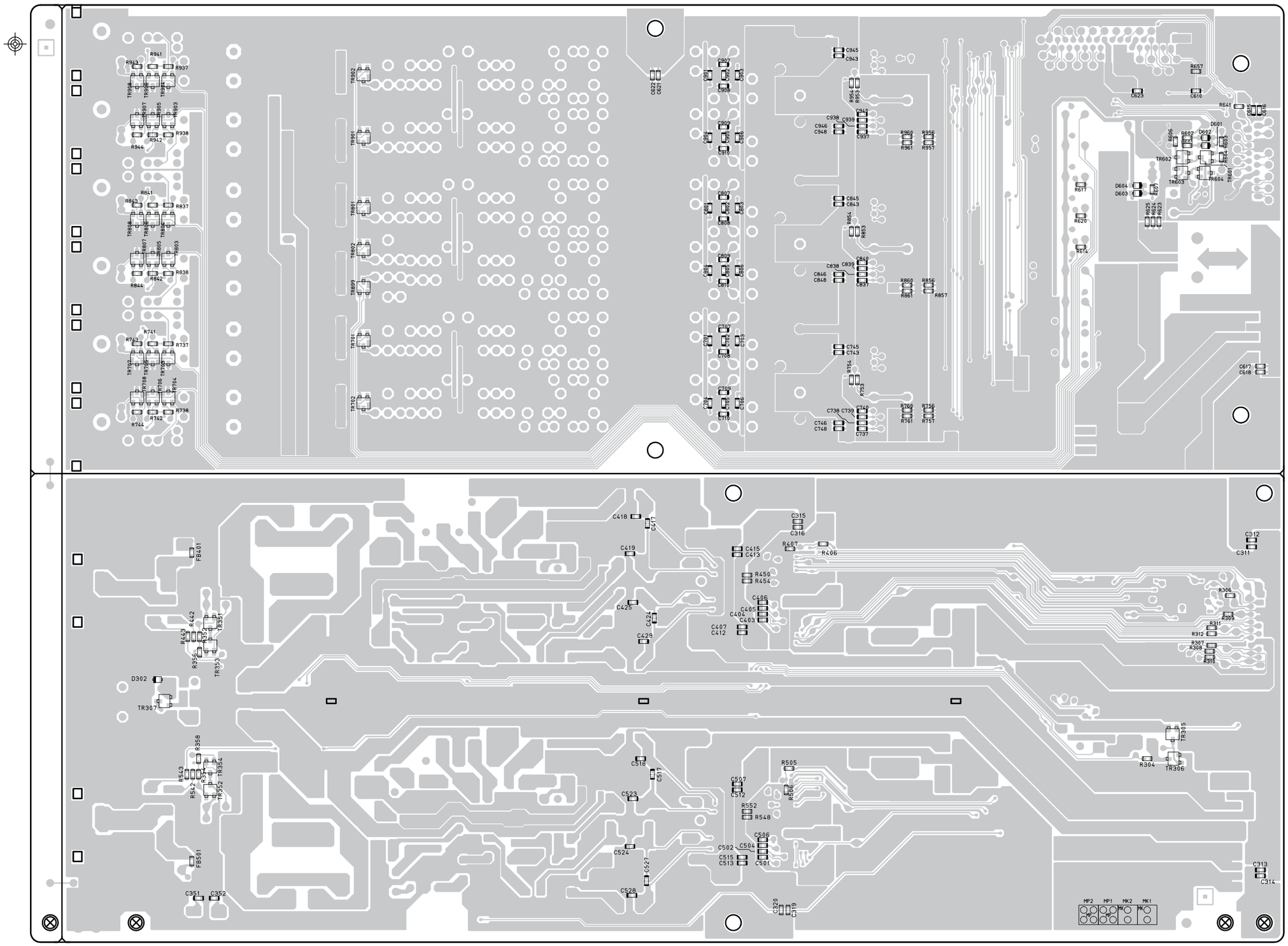


FOIL SIDE

GU-3655 AUDIO P.W.B. UNIT



COMPONENT SIDE


R941
R943
R937
TR808
TR807
TR804
R907
R905
R903
R938
R942
R944
R641
R843
R837
TR808
TR807
TR804
R807
R805
R803
R838
R842
R844
R741
R743
R737
TR708
TR707
TR704
R708
R706
R704
R738
R742
R744
TR802
TR901
TR801
TR802
TR899
TR701
TR702
C822
C821
C907
C903
C908
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C906
C910
C807
C803
C808
C809
C806
C811
C707
C703
C708
C709
C706
C710
C945
C943
R954
R953
C940
C938
C939
C946
C948
C937
R960
R956
R961
R957
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R753
C740
C738
C739
C746
C748
C737
R760
R756
R761
R757
R657
C623
C610
R641
C605
C606
D601
R606
R602
D602
R603
TR602
R604
TR603
TR604
TR601
D604
D603
R607
R625
R624
R623
R617
R620
R674
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C618
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C412
C429
R306
R309
R311
R312
R307
R308
R310
D302
TR307
R358
R543
R542
R534
TR352
TR354
C518
C514
C507
C512
R505
R506
C523
R552
R548
C506
C502
C504
C524
C515
C513
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C527
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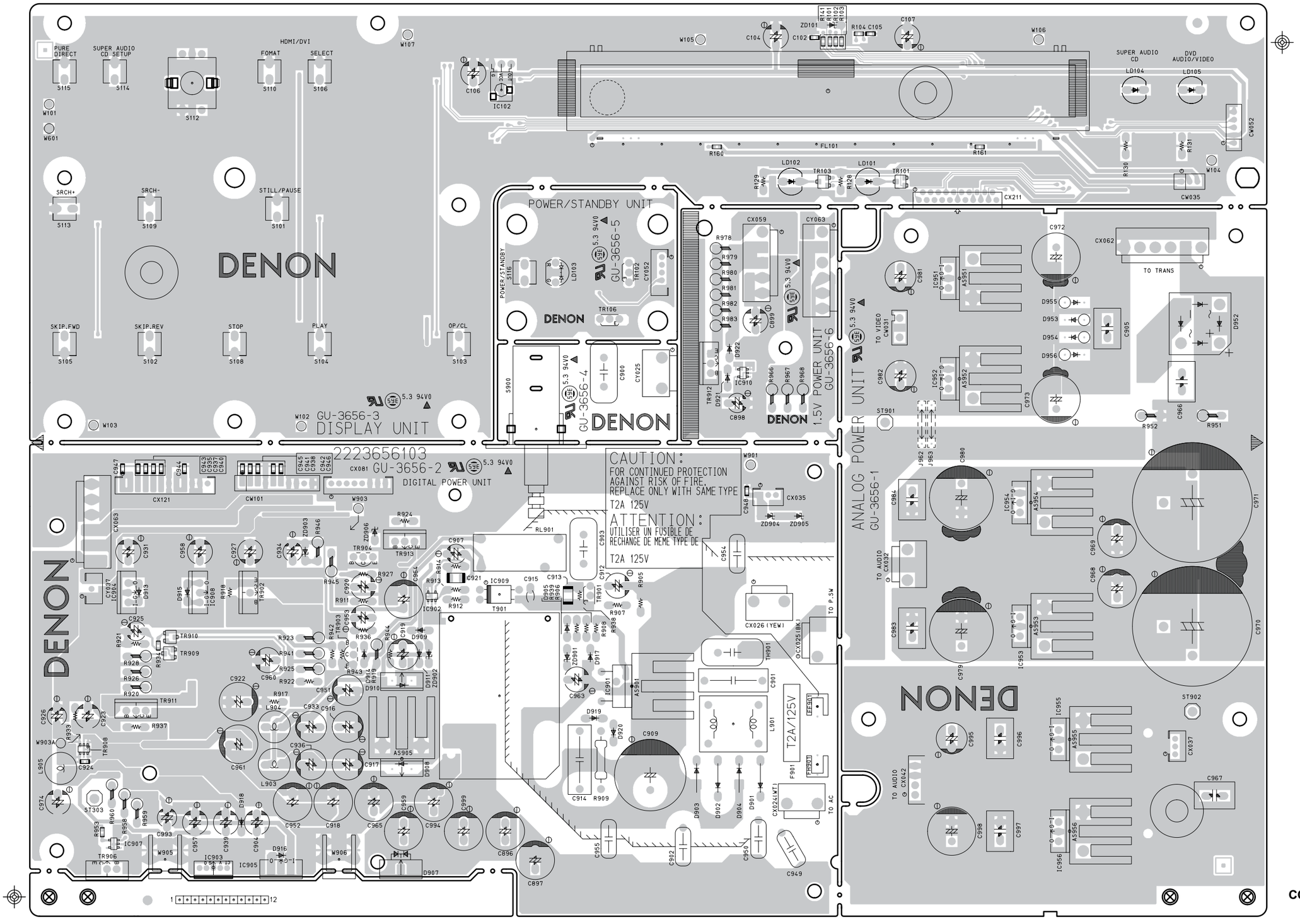
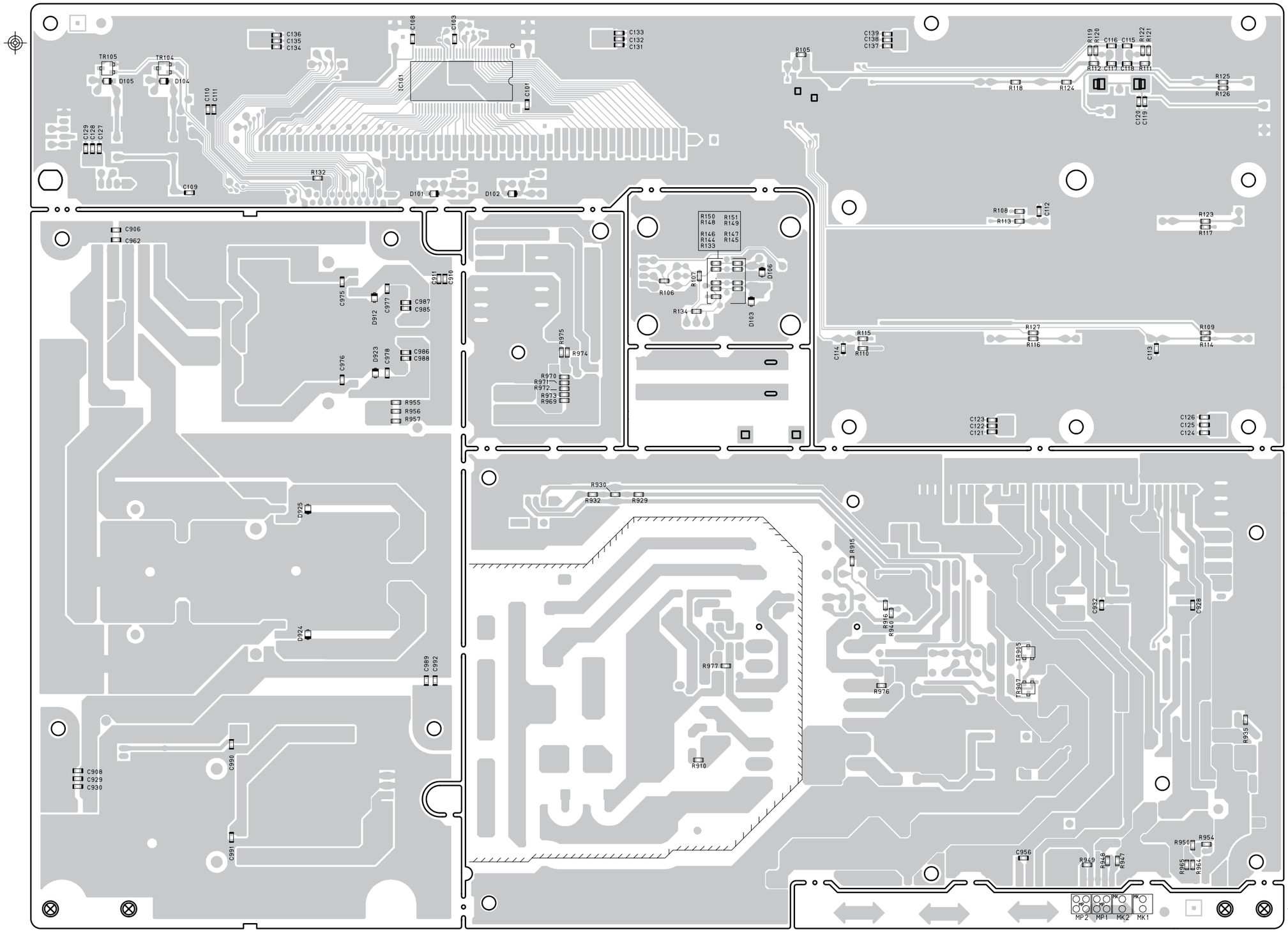
C320
C319
FB401
R443
R442
R432
TR351
R356
TR353
FB501
C351
C352
TR305
R304
TR306
C313
C314
MP2
MP1
MK2
MK1

FOIL SIDE

GU-3656 POWER/DISPLAY P.W.B. UNIT



COMPONENT SIDE


TR105
TR104
D105
D104
C136
C135
C134
C108
C103
C133
C132
C131
C110
C111
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C129
C128
C127
C109
R132
D101
D102
C906
C962
C975
D912
C977
C987
C985
C911
C910
R975
R974
C976
D923
C978
C986
C988
R970
R971
R972
R973
R969
R955
R956
R957
R150
R148
R151
R149
R146
R144
R133
R147
R145
R107
R106
D106
D103
R134
R105
C139
C138
C137
R119
R120
C116
C115
R122
R121
R112
C117
C118
R111
R118
R124
R125
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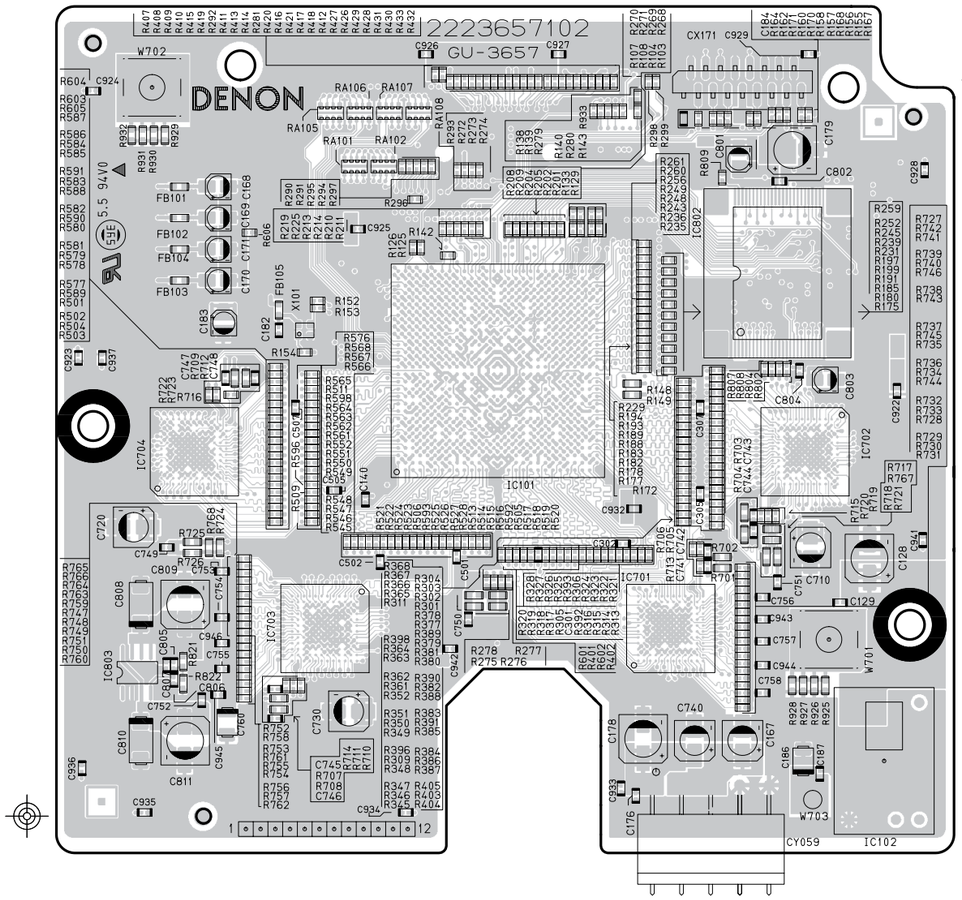
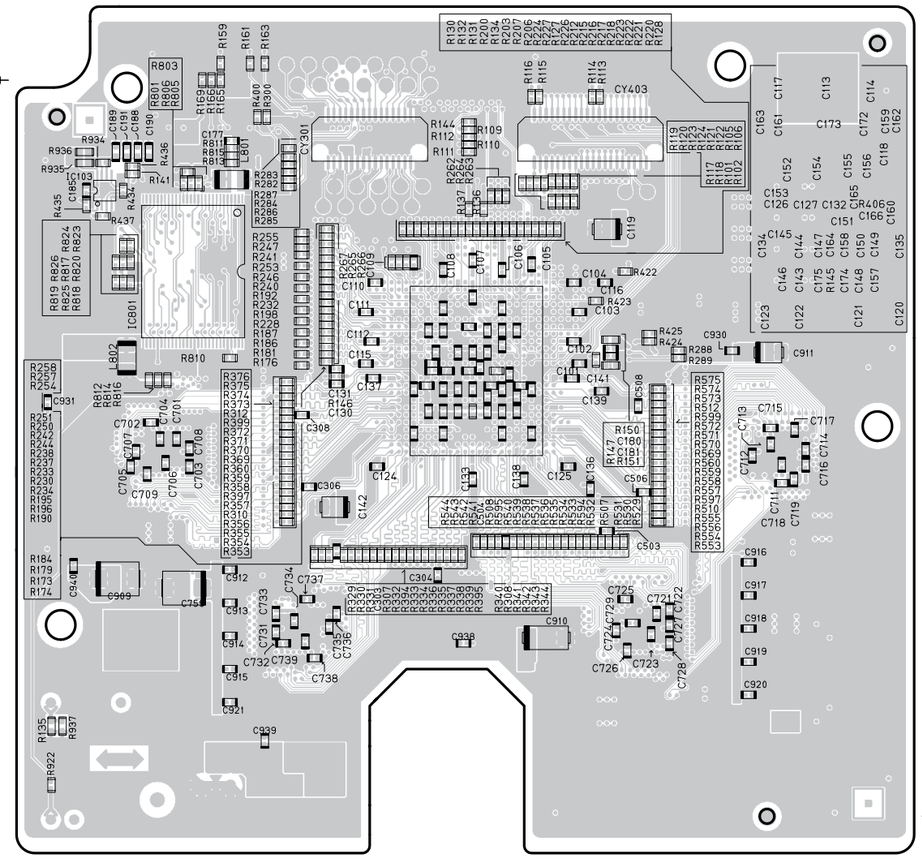
C125
C124
D925
D924
C989
C992
C908
C929
C930
C990
C991
R930
R932
R929
R915
R916
R940
R977
R976
R910
C932
C928
R935
R950
R954
C956
R949
R948
R947
R965
R967
MP2
MP1
MK2
MK1

FOIL SIDE

GU-3657 IP P.W.B. UNIT



COMPONENT SIDE



FOIL SIDE

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film Resister ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- Not including Carbon Chip Resister 1/16W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

部品表について

1．◉印の部品は常時在庫していませんので供給に長時間を要することがあります。
場合によっては、供給をお断りすることがあります。
2．部品を発注する際は特に数字の“1”と英字の“I”との区別をはっきり記入してください。
3．部品番号を表示していない部品は供給できません。
4．⚠ 印の部品は安全上重要な部品です。交換するときは、安全性維持のため必ず指定の部品をご使用ください。
5．★印のついている部品は分解図中には記載していません。
6．カーボン抵抗器± 5%、1/4W 型は記載していません。定数は回路図を参照願います。
7．カーボンチップ抵抗器 1/16W 型は記載していません。定数は回路図を参照願います。
8．部品表の抵抗器、コンデンサの品名記号の読み方は表を参照してください。

● Resistors

Ex.: RN Type / 14K Shape and performance / 2E Power / 182 Resistance / G Allowable error / FR Others

RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

✻ Resistance

1 8 2 ⇒ 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.
• Units: ohm

1 R 2 ⇒ 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: ohm

● Capacitors

Ex.: CE Type / 04W Shape and performance / 1H Dielectric strength / 2R2 Capacity / M Allowable error / BP Others

CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high requency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

✻ Capacity (electrolyte only)

2 2 2 ⇒ 2200μF
Indicates number of zeros after effective number.
2-digit effective number.
• Units: μF.

2 R 2 ⇒ 2.2μF
1-digit effective number.
2-digit effective number, decimal point indicated by R.
• Units: μF.

✻ Capacity (except electrolyte)

2 2 2 ⇒ 2200pF=0.0022μF
(More than 2) Indicates number of zeros after effective number.
2-digit effective number.
• Units: pF.

2 2 1 ⇒ 220pF
(0 or 1) Indicates number of zeros after effective number.
2-digit effective number.
• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

●抵抗器

例） RN 種類 / 14K 形状特性 / 2E 電力 / 182 抵抗値 / G 許容差 / FR その他

RD : カーボン RC : 固定体 RS : 金属系皮膜 RW : 巻線 RN : 金属皮膜 RK : 金属混合体	2B : 1/8 W 2E : 1/4 W 2H : 1/2 W 3A : 1 W 3D : 2 W 3F : 3 W 3H : 5 W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : 耐パルス形 NL : 低雑音形 NB : 不燃形 FR : ヒューズ抵抗 F : リード線成形

＊抵抗値

18 2 ⇨ 1800Ω=1.8kΩ
有効数字につづく 0 の数を表わす。
2 桁の有効数字を表わす。

1R 2 ⇨ 1.2Ω
1 桁の有効数字を表わす。
2 桁の有効数字で小数点は R で表わす。
：単位はΩ

●コンデンサ

例） CE 種類 / 04W 形状特性 / 1H 耐圧 / 2R2 容量 / M 許容差 / BP その他

CE : アルミ箔電解 CA : アルミ固体電解 CS : タンタル電解 CQ : フィルム CK : セラミック CC : セラミック CP : オイル CM : マイカ CF : メタライズド CH : メタライズド	0J : 6.3 V 1A : 10 V 1C : 16 V 1E : 25 V 1V : 35 V 1H : 50 V 2A : 100 V 2B : 125 V 2C : 160 V 2D : 200 V 2E : 250 V 2H : 500 V 2J : 630 V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% − 0% C : ±0.25pF D : ±0.5pF = : その他	HS : 高安定形 BP : 無極性形 HR : 耐リップル形 DL : 充放電対策用 HF : 高周波保証用 U : UL 部品 C : CSA 部品 W : UL-CSA 部品 F : リード線成形

＊容量値

● 電解コンデンサの場合

22 2 ⇨ 2200μF
有効数字につづく 0 の数を表わす。
2 桁の有効数字を表わす。
：単位はμF

2R 2 ⇨ 2.2μF
1 桁の有効数字を表わす。
2 桁の有効数字で小数点は R で表わす。
：単位はμF

● 電解コンデンサ以外の場合

22 2 ⇨ 2200pF=0.0022μF
有効数字につづく 0 の数を表わす。
(0 の数が 2 以上の場合)
2 桁の有効数字を表わす。
：単位はpF

22 1 ⇨ 220pF
有効数字につづく 0 の数を表わす。
(0 の数が 0 または 1 の場合)
2 桁の有効数字を表わす。
：単位はpF

● 耐圧を交流で表示する場合は、耐圧表示の次に「AC」を表示します。

PARTS LIST OF P.W.B. UNIT ASS'Y

＊本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

00DGU-3517D IEEE1394 P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC103	00D 262 3268 900	SN74LVC00APW-EL2			
	IC104	00D 262 3269 909	SN74LVC125APW-EL2			
	IC108	00D 262 3260 908	FCX0-03(24.576M/30) +REF			
	IC110	00D 262 3261 907	CY2302 +REF			
	IC111	00D 262 3274 004	TSB41AB2 +REF			
	IC201	00D 262 3262 003	DM1000			
	IC202	00D 262 3268 900	SN74LVC00APW-EL2			
	IC203	00D 262 3264 904	RN5VD15AA +C			
	IC204	00D 262 3272 909	SN74LVC1G08DBV +C			
	IC205	00D 262 3265 903	LM1117MPX-1.8 +C			
	IC206	00D 262 3263 905	RN5VD30AA +C			
	IC207	00D 262 3273 908	SN74LV4051APW-EL2			
	IC401	00D GEN 6781	1394 ROM SUB ASS'Y	MBM29LV160BE90TN		
	IC402	00D 262 3266 009	IC61LV25616-10T			
	IC501	00D 262 2518 907	SN74LV74APW-EL2 +C			
	IC503	00D 262 3268 900	SN74LVC00APW-EL2			
	IC504	00D 262 3277 904	SN74LVC157APW-EL2 +C			
	IC505	00D 262 3261 907	CY2302 +REF			
	IC507	00D 262 3277 904	SN74LVC157APW-EL2 +C			
	IC509	00D 262 3268 900	SN74LVC00APW-EL2			
	IC510,511	00D 262 3276 905	SN74LVC1GU04DBV +C			
	IC512	00D 263 0686 902	BA10358FT			
	TR501,502	00D 269 0083 901	DTA114EKT96 +C			
	D103	00D 276 0750 902	RB521S-30TE61 +REF			
	D203	00D 276 0717 903	1SS355 TE-17 +C			
	D501-504	00D 276 0795 909	HVU363A +C			
RESISTORS GROUP						
	R187	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
	R526	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
	R550	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
	R584	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
CAPACITORS GROUP						
	C104	00D 257 0509 929	CK73B1H102KT +1608			
	C105	00D 257 0516 954	CK73B1E104KT +1608			
	C119	00D 257 0513 902	CK73F1A105ZT +1608			
	C120	00D 257 0507 934	CC73CH1H221JT +1608			
	C122	00D 257 0507 934	CC73CH1H221JT +1608			
	C123	00D 257 0513 902	CK73F1A105ZT +1608			
	C124	00D 257 0504 982	CC73CH1H470JT +1608			
	C125	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C126	00D 257 0516 954	CK73B1E104KT +1608			
	C127	00D 257 0509 929	CK73B1H102KT +1608			
	C128	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C129,130	00D 257 0516 954	CK73B1E104KT +1608			
	C131	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C132	00D 257 0509 929	CK73B1H102KT +1608			
	C133	00D 257 0516 954	CK73B1E104KT +1608			
	C134,135	00D 257 0509 929	CK73B1H102KT +1608			
	C136	00D 257 0516 954	CK73B1E104KT +1608			
	C137	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C138	00D 257 0516 954	CK73B1E104KT +1608			
	C140	00D 257 0516 954	CK73B1E104KT +1608			
	C141	00D 257 0509 929	CK73B1H102KT +1608			
	C142	00D 257 0516 954	CK73B1E104KT +1608			
	C143	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C158	00D 257 0516 954	CK73B1E104KT +1608			
	C159	00D 257 0509 929	CK73B1H102KT +1608			
	C161-163	00D 257 0509 929	CK73B1H102KT +1608			
	C164	00D 257 0516 954	CK73B1E104KT +1608			
	C165	00D 257 0509 929	CK73B1H102KT +1608			
	C166	00D 257 0516 954	CK73B1E104KT +1608			
	C168	00D 257 0509 929	CK73B1H102KT +1608			
	C169	00D 257 0516 954	CK73B1E104KT +1608			
	C173	00D 257 0504 982	CC73CH1H470JT +1608			
	C174	00D 257 0509 929	CK73B1H102KT +1608			
	C175	00D 257 0516 954	CK73B1E104KT +1608			
	C201,202	00D 257 0509 929	CK73B1H102KT +1608			
	C203	00D 257 0516 954	CK73B1E104KT +1608			
	C204	00D 257 0509 929	CK73B1H102KT +1608			
	C205,206	00D 257 0516 954	CK73B1E104KT +1608			
	C207-209	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C211	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C213	00D 257 0516 954	CK73B1E104KT +1608			
	C214	00D 257 0509 929	CK73B1H102KT +1608			
	C217	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C218	00D 257 0516 954	CK73B1E104KT +1608			
	C219,220	00D 257 0509 929	CK73B1H102KT +1608			
	C221	00D 257 0516 954	CK73B1E104KT +1608			
	C222	00D 254 4655 906	CE67C0J220MT (RV2) +REF			
	C223	00D 257 0509 929	CK73B1H102KT +1608			
	C224	00D 257 0516 954	CK73B1E104KT +1608			
	C225	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C226	00D 257 0509 929	CK73B1H102KT +1608			
	C227	00D 257 0516 954	CK73B1E104KT +1608			
	C228,229	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C230	00D 257 0516 954	CK73B1E104KT +1608			
	C231	00D 257 0509 929	CK73B1H102KT +1608			
	C232	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C233-235	00D 257 0509 929	CK73B1H102KT +1608			
	C236	00D 257 0516 954	CK73B1E104KT +1608			
	C237	00D 257 0509 929	CK73B1H102KT +1608			
	C238	00D 257 0516 954	CK73B1E104KT +1608			
	C239	00D 257 0509 929	CK73B1H102KT +1608			
	C240,241	00D 257 0506 951	CC73CH1H101JT +1608			
	C242	00D 257 0516 954	CK73B1E104KT +1608			
	C243	00D 257 0509 929	CK73B1H102KT +1608			
	C244	00D 257 0516 954	CK73B1E104KT +1608			
	C245	00D 257 0509 929	CK73B1H102KT +1608			
	C246	00D 257 0516 954	CK73B1E104KT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C248	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C401,402	00D 257 0516 954	CK73B1E104KT +1608			
	C403,404	00D 257 0509 929	CK73B1H102KT +1608			
	C405	00D 257 0516 954	CK73B1E104KT +1608			
	C406	00D 257 0509 929	CK73B1H102KT +1608			
	C407	00D 257 0516 954	CK73B1E104KT +1608			
	C501	00D 257 0509 929	CK73B1H102KT +1608			
	C502	00D 257 0516 954	CK73B1E104KT +1608			
	C505	00D 257 0509 929	CK73B1H102KT +1608			
	C506	00D 257 0516 954	CK73B1E104KT +1608			
	C507	00D 257 0509 929	CK73B1H102KT +1608			
	C508	00D 257 0516 954	CK73B1E104KT +1608			
	C509	00D 257 0509 929	CK73B1H102KT +1608			
	C510	00D 257 0516 954	CK73B1E104KT +1608			
	C511	00D 257 0509 929	CK73B1H102KT +1608			
	C512	00D 257 0516 954	CK73B1E104KT +1608			
	C513	00D 257 0509 929	CK73B1H102KT +1608			
	C514	00D 257 0516 954	CK73B1E104KT +1608			
	C515	00D 257 0509 929	CK73B1H102KT +1608			
	C516,517	00D 257 0516 954	CK73B1E104KT +1608			
	C518	00D 257 0509 929	CK73B1H102KT +1608			
	C521	00D 257 0511 904	CK73F1H103ZT +1608			
	C522	00D 257 0509 929	CK73B1H102KT +1608			
	C523	00D 257 0511 904	CK73F1H103ZT +1608			
	C524	00D 257 0509 929	CK73B1H102KT +1608			
	C525	00D 257 0516 954	CK73B1E104KT +1608			
	C526	00D 257 0509 929	CK73B1H102KT +1608			
	C527	00D 257 0516 954	CK73B1E104KT +1608			
	C528	00D 257 0509 929	CK73B1H102KT +1608			
	C529	00D 257 0516 954	CK73B1E104KT +1608			
	C530	00D 257 0509 929	CK73B1H102KT +1608			
	C535	00D 257 0516 954	CK73B1E104KT +1608			
	C536	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C537	00D 257 0516 954	CK73B1E104KT +1608			
	C538,539	00D 257 0509 929	CK73B1H102KT +1608			
	C540	00D 257 0516 954	CK73B1E104KT +1608			
	C541,542	00D 257 0509 929	CK73B1H102KT +1608			
	C543	00D 257 0516 954	CK73B1E104KT +1608			
	C544,545	00D 257 0509 929	CK73B1H102KT +1608			
	C546	00D 257 0516 954	CK73B1E104KT +1608			
	C547	00D 254 4660 946	CE67C1H010MT (RV2B55 +REF			
	C554	00D 257 0509 929	CK73B1H102KT +1608			
	C555	00D 257 0516 954	CK73B1E104KT +1608			
	C558,559	00D 254 4660 946	CE67C1H010MT (RV2B55 +REF			
OTHERS PARTS GROUP						
	CN201	00D 205 0343 074	7P CONN.BASE(KR-PH)			
	CY173	00D 205 1170 903	17P FFC BASE(FMNBMTT +REF			
	CY191	00D 205 1170 916	19P FFC BASE(FMNBMTT +REF			
	FB101,102	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
	FB503	00D 235 0147 909	E.FIL(BLM21PG221SN1)+2125			
	FB504-516	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	FB517	00D 235 0147 909	E.FIL(BLM21PG221SN1)+2125			
	FB518-523	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
	FB524	00D 235 0147 909	E.FIL(BLM21PG221SN1)+2125			
	FB525,526	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
	JK101,102	00D 205 1269 005	4P IEEE1394 JACK(H)			
	L101-104	00D 235 0168 904	DLP31SN221SL2 +C			
	S201	00D 212 4807 909	TACT SW(SKQDAA) +REF			
	SY101-108	00D 276 0797 907	PGB0010603NR +C			
	W101,102	00D 205 1034 007	M3 SCREW TERMINAL			
	X501	00D 399 0911 905	X TAL(24.5760 FCX03) +REF			
	X502	00D 399 0910 906	X TAL(22.5792 FCX03) +REF			

00DGU-3618D MAIN P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC101	00D 262 3046 902	TC7WH157FU +C			
	IC104	00D GEN 6780	FE/BE ROM SUB ASS Y	MBM29LV160BE90TN		
	IC105	00D 262 3304 903	TC7WH14FU(TE12L) +REF			
	IC106	00D 262 3052 909	SM8701BM +C			
	IC107	00D 262 2801 902	SN74AHCT273PW-EL2 +C			
	IC108	00D 262 3252 000	ES6138F(SC) +REF			
	IC110	00D 262 3046 902	TC7WH157FU +C			
	IC111	00D 262 2391 904	TC7W32F(TE12L) +C			
	IC112,113	00D 262 3242 900	SN74LV273APW-EL2 +REF			
	IC114	00D 262 3378 007	K4S641632H-UC(L)75			
	IC115	00D 262 3242 900	SN74LV273APW-EL2 +REF			
	IC116	00D 262 3402 902	BR24L32F-WE2 +C			
	IC117	00D 262 3269 909	SN74LVC125APW-EL2			
	IC119,120	00D 262 2669 908	SN74LV157APW +C			
	IC122	00D 262 2517 908	SN74LV08APW-EL2 +REF			
	IC123-125	00D 262 2669 908	SN74LV157APW +C			
	IC127	00D 262 3304 903	TC7WH14FU(TE12L) +REF			
	IC401	00D 262 3282 009	EMP3128ATC100-10(HARMONY-8LI)			
	IC402	00D 262 2875 006	16M SDRAM(TSOP)-7/8 +C			
	IC403	00D 262 3195 905	AD8062-SO8 +C			
	IC404	00D 262 2515 900	SN74LV04APW-EL2 +C			
	IC405	00D 262 3217 003	CXD2753R +C			
	IC501	00D 263 1109 909	AN8471SA +C			
	IC502	00D 262 3219 001	CXD1881AR/BR +C			
	IC503	00D 262 3221 002	FAN8042 +C			
	IC504	00D 263 0615 902	BA15218F-DXE2 +C			
	IC505	00D 262 3210 000	M11L16161SA-45T +REF			
	IC507	00D 262 3218 002	CXD1885Q +C			
	IC508	00D 262 1782 909	TC7S08FTE85L +C			
	IC801	00D 262 3291 003	SM5819A +C			
	IC901	00D 263 1110 901	PQ070XZ01ZP +C			
	IC950	00D 262 2977 917	BA25BC0FP-E2			
	IC951	00D 262 2977 904	BA18BC0FP-E2 +C			
	TR101	00D 269 0082 902	DTC114EKT96 +C			
	TR501,502	00D 272 0160 901	2SB1132T100Q +C			
	TR503	00D 274 0208 005	2SD1904(R/S)			
	TR504	00D 272 0170 001	2SB1268(R/S)			
	D501,502	00D 276 0717 903	1SS355 TE-17 +C			
	D901,902	00D 276 0717 903	1SS355 TE-17 +C			
	D950,951	00D 276 0717 903	1SS355 TE-17 +C			
RESISTORS GROUP						
	R580	00D 244 2051 945	RS14B3A010JNBST(S)			
	R583,584	00D 244 2052 960	RS14B3A221JNBST(S)			
	R585	00D 244 2050 904	RS14B3A220JNBST(S)			
	RA101-104	00D 247 9002 912	MNR14=682JEOAB +C			
	RA108,109	00D 247 9002 909	MNR14=330JE0AB +C			
	RA401-405	00D 247 9003 908	MNR14=220JE0AB +C			
	RA501-507	00D 247 9007 904	MNR14=101JE0 +C			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	RA508-512	00D 247 9007 917	MNR14=103JE0 +C			
	RA703,704	00D 247 9007 920	MNR14=0R0JE0			
CAPACITORS GROUP						
	C101	00D 257 0512 903	CK73F1E104ZT +1608			
	C102	00D 257 0511 904	CK73F1H103ZT +1608			
	C103	00D 257 0512 903	CK73F1E104ZT +1608			
	C104	00D 257 0509 929	CK73B1H102KT +1608			
	C107	00D 257 0511 904	CK73F1H103ZT +1608			
	C108	00D 257 0512 903	CK73F1E104ZT +1608			
	C110	00D 257 0511 904	CK73F1H103ZT +1608			
	C111	00D 257 0512 903	CK73F1E104ZT +1608			
	C112	00D 257 0503 912	CC73CH1H9R0DT +1608			
	C115	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C116	00D 257 0509 929	CK73B1H102KT +1608			
	C117	00D 257 0512 903	CK73F1E104ZT +1608			
	C118	00D 257 0503 912	CC73CH1H9R0DT +1608			
	C119	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C120,121	00D 257 0512 903	CK73F1E104ZT +1608			
	C122	00D 257 0511 904	CK73F1H103ZT +1608			
	C123	00D 257 0506 951	CC73CH1H101JT +1608			
	C126	00D 257 0512 903	CK73F1E104ZT +1608			
	C129	00D 257 0509 929	CK73B1H102KT +1608			
	C130,131	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C132	00D 257 0512 903	CK73F1E104ZT +1608			
	C133	00D 257 0511 904	CK73F1H103ZT +1608			
	C134-138	00D 257 0512 903	CK73F1E104ZT +1608			
	C139	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C140	00D 257 0511 904	CK73F1H103ZT +1608			
	C141	00D 257 0512 903	CK73F1E104ZT +1608			
	C142	00D 257 0509 929	CK73B1H102KT +1608			
	C143	00D 257 0512 903	CK73F1E104ZT +1608			
	C144	00D 257 0509 929	CK73B1H102KT +1608			
	C145	00D 257 0512 903	CK73F1E104ZT +1608			
	C150	00D 257 0511 904	CK73F1H103ZT +1608			
	C151	00D 257 0512 903	CK73F1E104ZT +1608			
	C156	00D 257 0511 904	CK73F1H103ZT +1608			
	C157-160	00D 257 0512 903	CK73F1E104ZT +1608			
	C161	00D 257 0509 929	CK73B1H102KT +1608			
	C162-167	00D 257 0512 903	CK73F1E104ZT +1608			
	C168	00D 257 0511 904	CK73F1H103ZT +1608			
	C169-173	00D 257 0512 903	CK73F1E104ZT +1608			
	C174	00D 257 0509 929	CK73B1H102KT +1608			
	C175,176	00D 257 0512 903	CK73F1E104ZT +1608			
	C177	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C178-181	00D 257 0512 903	CK73F1E104ZT +1608			
	C182	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C183,184	00D 257 0512 903	CK73F1E104ZT +1608			
	C185	00D 257 0511 904	CK73F1H103ZT +1608			
	C186	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C187-192	00D 257 0512 903	CK73F1E104ZT +1608			
	C193	00D 257 0509 929	CK73B1H102KT +1608			
	C194	00D 257 0512 903	CK73F1E104ZT +1608			
	C197	00D 257 0512 903	CK73F1E104ZT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C199	00D 257 0503 941	CC73CH1H120JT +1608			
	C200	00D 257 0512 903	CK73F1E104ZT +1608			
	C201	00D 257 0503 967	CC73CH1H150JT +1608			
	C202	00D 257 0509 929	CK73B1H102KT +1608			
	C203	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C204	00D 257 0509 929	CK73B1H102KT +1608			
	C205	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C206	00D 257 0509 929	CK73B1H102KT +1608			
	C207,208	00D 257 0512 903	CK73F1E104ZT +1608			
	C209	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C210	00D 257 0509 929	CK73B1H102KT +1608			
	C211	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C212	00D 257 0509 929	CK73B1H102KT +1608			
	C213	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C214	00D 257 0509 929	CK73B1H102KT +1608			
	C215	00D 257 0512 903	CK73F1E104ZT +1608			
	C216	00D 257 0511 904	CK73F1H103ZT +1608			
	C217	00D 257 0512 903	CK73F1E104ZT +1608			
	C218	00D 257 0511 904	CK73F1H103ZT +1608			
	C401-407	00D 257 0512 903	CK73F1E104ZT +1608			
	C409	00D 257 0512 903	CK73F1E104ZT +1608			
	C410	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C411	00D 257 0512 903	CK73F1E104ZT +1608			
	C416-418	00D 257 0512 903	CK73F1E104ZT +1608			
	C426	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C427	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C428	00D 257 0512 903	CK73F1E104ZT +1608			
	C429,430	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C431-434	00D 257 0512 903	CK73F1E104ZT +1608			
	C435,436	00D 257 0502 942	CC73CH1H2R0CT +1608			
	C437-442	00D 257 0512 903	CK73F1E104ZT +1608			
	C443	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C444,445	00D 257 0512 903	CK73F1E104ZT +1608			
	C446	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C448-453	00D 257 0512 903	CK73F1E104ZT +1608			
	C454	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C455-461	00D 257 0512 903	CK73F1E104ZT +1608			
	C462	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C501	00D 257 0511 904	CK73F1H103ZT +1608			
	C503	00D 257 0511 904	CK73F1H103ZT +1608			
	C505	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C511	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C512,513	00D 257 0511 904	CK73F1H103ZT +1608			
	C517-520	00D 257 0509 990	CK73B1H222KT +1608			
	C521-524	00D 257 0504 908	CC73CH1H220JT +1608			
	C525,526	00D 257 0510 934	CK73B1H472KT +1608			
	C527	00D 257 0507 976	CC73CH1H331JT +1608			
	C528,529	00D 257 0511 904	CK73F1H103ZT +1608			
	C530	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C531,532	00D 257 0516 954	CK73B1E104KT +1608			
	C533	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C534	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C535	00D 257 0509 929	CK73B1H102KT +1608			
	C536	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C537	00D 257 0509 929	CK73B1H102KT +1608			
	C538	00D 257 0516 954	CK73B1E104KT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C539	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C540	00D 257 4012 933	CE67C1C101MT (RV2) +REF			
	C541,542	00D 257 0516 954	CK73B1E104KT +1608			
	C543	00D 257 0509 929	CK73B1H102KT +1608			
	C544-546	00D 257 0516 954	CK73B1E104KT +1608			
	C547	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C548	00D 257 0516 954	CK73B1E104KT +1608			
	C549	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C550	00D 257 0506 993	CC73CH1H151JT +1608			
	C551	00D 257 0509 929	CK73B1H102KT +1608			
	C552,553	00D 257 0511 904	CK73F1H103ZT +1608			
	C554	00D 257 0520 911	CK73B1A224KT +1608			
	C555	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C556,557	00D 257 0520 911	CK73B1A224KT +1608			
	C558	00D 254 4655 906	CE67C0J220MT (RV2) +REF			
	C559	00D 257 0520 911	CK73B1A224KT +1608			
	C560	00D 257 0516 941	CK73B1E473KT +1608			
	C561	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C562,563	00D 257 0516 954	CK73B1E104KT +1608			
	C564	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C565-567	00D 257 0511 904	CK73F1H103ZT +1608			
	C568	00D 254 4655 906	CE67C0J220MT (RV2) +REF			
	C569,570	00D 257 0511 904	CK73F1H103ZT +1608			
	C571	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C572	00D 257 0511 904	CK73F1H103ZT +1608			
	C573,574	00D 254 4655 906	CE67C0J220MT (RV2) +REF			
	C575	00D 257 0511 904	CK73F1H103ZT +1608			
	C576	00D 257 0509 929	CK73B1H102KT +1608			
	C577,578	00D 257 0506 951	CC73CH1H101JT +1608			
	C579-581	00D 257 0510 950	CK73B1H682KT +1608			
	C582	00D 257 0511 904	CK73F1H103ZT +1608			
	C583	00D 257 0508 917	CC73CH1H471JT +1608			
	C584	00D 257 0516 941	CK73B1E473KT +1608			
	C585	00D 257 0507 976	CC73CH1H331JT +1608			
	C586-588	00D 257 0511 904	CK73F1H103ZT +1608			
	C589	00D 257 0507 976	CC73CH1H331JT +1608			
	C590	00D 257 4013 903	CE67C0J471MT (RV) +REF			
	C591	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C593-595	00D 257 0511 904	CK73F1H103ZT +1608			
	C596	00D 257 0516 954	CK73B1E104KT +1608			
	C597	00D 257 0511 904	CK73F1H103ZT +1608			
	C601	00D 257 0508 917	CC73CH1H471JT +1608			
	C603	00D 257 0508 917	CC73CH1H471JT +1608			
	C604	00D 257 0516 954	CK73B1E104KT +1608			
	C605-607	00D 257 0511 904	CK73F1H103ZT +1608			
	C608	00D 257 0506 951	CC73CH1H101JT +1608			
	C609	00D 257 0511 904	CK73F1H103ZT +1608			
	C610,611	00D 257 0516 909	CK73B1E223KT +1608			
	C612	00D 257 0508 917	CC73CH1H471JT +1608			
	C613	00D 257 0511 904	CK73F1H103ZT +1608			
	C614	00D 257 0508 917	CC73CH1H471JT +1608			
	C615	00D 257 0511 904	CK73F1H103ZT +1608			
	C616,617	00D 257 0516 954	CK73B1E104KT +1608			
	C618	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C619-625	00D 257 0511 904	CK73F1H103ZT +1608			
	C627	00D 257 0516 954	CK73B1E104KT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C628	00D 254 4655 906	CE67C0J220MT (RV2) +REF			
	C629,630	00D 257 0516 954	CK73B1E104KT +1608			
	C631	00D 254 4655 906	CE67C0J220MT (RV2) +REF			
	C634-636	00D 257 0516 954	CK73B1E104KT +1608			
	C637,638	00D 257 0520 908	CK73B1A154KT +1608			
	C640,641	00D 257 0512 903	CK73F1E104ZT +1608			
	C644	00D 257 0512 903	CK73F1E104ZT +1608			
	C801	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C802	00D 257 0509 929	CK73B1H102KT +1608			
	C803	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C804,805	00D 257 0509 929	CK73B1H102KT +1608			
	C806	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C807	00D 257 0509 929	CK73B1H102KT +1608			
	C808	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C809	00D 257 0516 954	CK73B1E104KT +1608			
	C810	00D 257 0509 929	CK73B1H102KT +1608			
	C811,812	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C813	00D 257 0509 929	CK73B1H102KT +1608			
	C816	00D 257 0509 929	CK73B1H102KT +1608			
	C901	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C902,903	00D 257 0512 903	CK73F1E104ZT +1608			
	C904	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C905	00D 257 0512 903	CK73F1E104ZT +1608			
	C906	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C907-909	00D 257 0512 903	CK73F1E104ZT +1608			
	C910-912	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C913	00D 257 0512 903	CK73F1E104ZT +1608			
	C916	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C917	00D 257 0512 903	CK73F1E104ZT +1608			
	C918	00D 257 0511 904	CK73F1H103ZT +1608			
	C920	00D 257 0512 903	CK73F1E104ZT +1608			
	C923	00D 257 0512 903	CK73F1E104ZT +1608			
	C924	00D 257 0511 904	CK73F1H103ZT +1608			
	C929	00D 257 0512 903	CK73F1E104ZT +1608			
	C930	00D 257 0511 904	CK73F1H103ZT +1608			
	C931	00D 257 0512 903	CK73F1E104ZT +1608			
	C932	00D 257 0511 904	CK73F1H103ZT +1608			
	C949	00D 257 2010 937	CS77B1A220MT +C			
	C950	00D 254 4655 906	CE67C0J220MT (RV2) +REF			
	C951	00D 257 0512 903	CK73F1E104ZT +1608			
	C952	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C953	00D 257 0512 903	CK73F1E104ZT +1608			
	C954	00D 257 2010 937	CS77B1A220MT +C			
	C955	00D 257 0511 904	CK73F1H103ZT +1608			
	C956	00D 257 4012 933	CE67C1C101MT (RV2) +REF			
	C957-959	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C960-963	00D 257 0512 903	CK73F1E104ZT +1608			
	C964,965	00D 254 4655 906	CE67C0J220MT (RV2) +REF			
	C966	00D 257 0512 903	CK73F1E104ZT +1608			
	C967	00D 254 4655 906	CE67C0J220MT (RV2) +REF			
	C968-971	00D 257 0512 903	CK73F1E104ZT +1608			
	C972	00D 257 0511 904	CK73F1H103ZT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
OTHERS PARTS GROUP						
	CX051	00D 205 0355 059	5P KR CON BASE(L)			
	CX061	00D 205 0792 968	6P ZH-ZRCON.BASE(L)T +REF			
	CX151	00D 205 1224 901	15P FFC BASE(P=1.0)L +REF			
	CX241	00D 205 1264 903	24P FFC BASE(P=0.5)L +REF			
	CX331	00D 205 1174 970	33P FFC BASE(FMNSMT) +C			
	CY101	00D 205 0480 005	10P KR CON BASE(L)			
	CY171	00D 205 1170 903	17P FFC BASE(FMNBMTT +REF			
	CY251	00D 205 1174 983	25P FFC BASE(FMNSMT) +REF			
	CY301	00D 205 1174 941	30P FFC BASE(FMNSMT) +REF			
	FB101,102	00D 247 2018 903	RM73B--0R0KT +1608			
	FB103-110	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
	FB111	00D 247 2003 989	RM73B--330JT +1608			
	FB112-114	00D 247 2018 903	RM73B--0R0KT +1608			
	FB116,117	00D 247 2003 989	RM73B--330JT +1608			
	FB118-140	00D 247 2018 903	RM73B--0R0KT +1608			
	FB142-153	00D 247 2018 903	RM73B--0R0KT +1608			
	FB154	00D 247 2003 989	RM73B--330JT +1608			
	FB155	00D 247 2018 903	RM73B--0R0KT +1608			
	FB157-172	00D 247 2018 903	RM73B--0R0KT +1608			
	FB173,174	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
	FB175,176	00D 247 2018 903	RM73B--0R0KT +1608			
	FB501-503	00D 235 0130 903	CHIP EMIFIL(11A121) +1608			
	FB901	00D 235 0136 907	FBMJ1608HS280NT +1608			
	FB950-960	00D 235 0136 907	FBMJ1608HS280NT +1608			
	L901	00D 235 0048 901	EMI FILTER (103)TP			
	X101	00D 399 0619 906	X TAL(27MHZ) +REF			
		00D 414 0963 003	EARTH PLATE			

00DGU-3653 SYSTEM P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC101	00D 262 3114 902	S-24C01BFJ-TB			
	IC103	00D 262 3082 924	BD4730G-TR			
	IC104	00D 262 3486 009	M30620FCPGP(5910)			
	IC105	00D 262 3376 106	EPM3128ATC100-10-771			
	IC107	00D 262 3261 907	CY2302 +REF			
	IC301	00D 263 1205 900	PQ012FZ01ZP +C			
	IC302,303	00D 262 2642 909	SN74LV573APW-EL2 +REF			
	IC305	00D 262 3349 007	ADSP21266SKSTZ1B-D			
	IC306	00D GEN 6790	ROM ASS'Y 21266-1	LH28F160BJE-BTL90 +C		
	IC308	00D 262 3380 008	AK4101AVQ			
	IC309	00D 262 3066 102	LC89057W-VF4-E(AC) +REF			
	IC310	00D 262 3277 904	SN74LVC157APW-EL2 +C			
	IC311	00D 262 2580 906	CXA1511M +C			
	IC312	00D 262 2114 903	UPD4721GS-GJG +C			
	IC313	00D 262 3120 909	SN65LVDS31PW +REF			
	IC314	00D 262 3125 904	SN65LVDS179DGK-EL2 +REF			
	IC315	00D 269 0211 003	GP1FA553TZ			
	IC501	00D GEN 6791	ROM ASS'Y NEWALPHA-0	EPCS4S18		
	IC502	00D 262 3476 006	EP1C12Q240C6N-AD24			
	IC504	00D 262 3261 907	CY2302 +REF			
	TR101	00D 269 0082 902	DTC114EKT96 +C			
	TR102,103	00D 269 0083 901	DTA114EKT96 +C			
	TR104,105	00D 269 0082 902	DTC114EKT96 +C			
	TR106	00D 272 0161 900	2SB1412TL(PQR) +C			
	TR107	00D 269 0082 902	DTC114EKT96 +C			
	TR108	00D 272 0161 900	2SB1412TL(PQR) +C			
	TR111	00D 269 0054 901	DTC144EKT96 +C			
	TR112,113	00D 269 0055 900	DTA144EKT96 +C			
	TR301	00D 269 0083 901	DTA114EKT96 +C			
	TR302	00D 273 0426 907	2SC2412KLNT146 +C			
	D102	00D 276 0717 903	1SS355 TE-17 +C			
	D301	00D 276 0750 902	RB521S-30TE61 +REF			
CAPACITORS GROUP						
	C101,102	00D 257 0512 903	CK73F1E104ZT +1608			
	C103	00D 257 0509 929	CK73B1H102KT +1608			
	C104	00D 257 0512 903	CK73F1E104ZT +1608			
	C107	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C108	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C111,112	00D 257 0512 903	CK73F1E104ZT +1608			
	C113,114	00D 257 0509 929	CK73B1H102KT +1608			
	C115-117	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C118-120	00D 257 0509 929	CK73B1H102KT +1608			
	C121	00D 257 0512 903	CK73F1E104ZT +1608			
	C122	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C123-125	00D 257 0512 903	CK73F1E104ZT +1608			
	C126	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C127	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C128	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C129-132	00D 257 0512 903	CK73F1E104ZT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C133	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C134	00D 257 3006 924	CF73=1C103JT(ECHUB5)+2125			
	C135	00D 257 0512 903	CK73F1E104ZT +1608			
	C136	00D 257 4013 903	CE67C0J471MT (RV) +REF			
	C137-139	00D 257 0512 903	CK73F1E104ZT +1608			
	C142	00D 257 0509 929	CK73B1H102KT +1608			
	C143	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C144,145	00D 257 0512 903	CK73F1E104ZT +1608			
	C146	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C147-149	00D 257 0512 903	CK73F1E104ZT +1608			
	C150	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C151	00D 257 0512 903	CK73F1E104ZT +1608			
	C152	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C153-158	00D 257 0512 903	CK73F1E104ZT +1608			
	C159	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C160,161	00D 257 0512 903	CK73F1E104ZT +1608			
	C162,163	00D 257 0509 929	CK73B1H102KT +1608			
	C164	00D 257 3006 924	CF73=1C103JT(ECHUB5)+2125			
	C165,166	00D 257 4013 903	CE67C0J471MT (RV) +REF			
	C167	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C168	00D 257 3006 924	CF73=1C103JT(ECHUB5)+2125			
	C169	00D 257 4013 903	CE67C0J471MT (RV) +REF			
	C171	00D 257 3006 924	CF73=1C103JT(ECHUB5)+2125			
	C172	00D 257 0512 903	CK73F1E104ZT +1608			
	C173	00D 254 4658 958	CE67C1E101MT (RV) +REF			
	C175	00D 257 4013 903	CE67C0J471MT (RV) +REF			
	C176	00D 257 3006 924	CF73=1C103JT(ECHUB5)+2125			
	C301	00D 257 0512 903	CK73F1E104ZT +1608			
	C302	00D 257 0509 929	CK73B1H102KT +1608			
	C303	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C304,305	00D 257 0509 929	CK73B1H102KT +1608			
	C306	00D 257 0512 903	CK73F1E104ZT +1608			
	C311	00D 257 0512 903	CK73F1E104ZT +1608			
	C312	00D 257 0509 929	CK73B1H102KT +1608			
	C313	00D 257 0512 903	CK73F1E104ZT +1608			
	C314	00D 257 0509 929	CK73B1H102KT +1608			
	C315	00D 257 4013 903	CE67C0J471MT (RV) +REF			
	C316	00D 257 0509 929	CK73B1H102KT +1608			
	C317	00D 257 0512 903	CK73F1E104ZT +1608			
	C318	00D 257 0509 929	CK73B1H102KT +1608			
	C319	00D 257 0512 903	CK73F1E104ZT +1608			
	C320	00D 257 0509 929	CK73B1H102KT +1608			
	C321,322	00D 257 0512 903	CK73F1E104ZT +1608			
	C323	00D 257 0503 967	CC73CH1H150JT +1608			
	C324,325	00D 257 0509 929	CK73B1H102KT +1608			
	C326	00D 257 0512 903	CK73F1E104ZT +1608			
	C327	00D 257 0503 983	CC73CH1H180JT +1608			
	C328	00D 257 4013 903	CE67C0J471MT (RV) +REF			
	C329	00D 257 0512 903	CK73F1E104ZT +1608			
	C330,331	00D 257 0509 929	CK73B1H102KT +1608			
	C332,333	00D 257 0512 903	CK73F1E104ZT +1608			
	C334,335	00D 257 0509 929	CK73B1H102KT +1608			
	C336,337	00D 257 0512 903	CK73F1E104ZT +1608			
	C338,339	00D 257 0509 929	CK73B1H102KT +1608			
	C340	00D 257 0512 903	CK73F1E104ZT +1608			
	C341	00D 257 4012 920	CE67C1C470MT (RV2) +REF			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C342	00D 257 4013 903	CE67C0J471MT (RV) +REF			
	C343	00D 257 0509 929	CK73B1H102KT +1608			
	C344	00D 257 0512 903	CK73F1E104ZT +1608			
	C345	00D 257 4013 903	CE67C0J471MT (RV) +REF			
	C346	00D 257 0512 903	CK73F1E104ZT +1608			
	C347	00D 257 0509 929	CK73B1H102KT +1608			
	C348	00D 257 0512 903	CK73F1E104ZT +1608			
	C349	00D 257 0509 929	CK73B1H102KT +1608			
	C350	00D 257 0512 903	CK73F1E104ZT +1608			
	C351	00D 257 0509 929	CK73B1H102KT +1608			
	C352	00D 257 0512 903	CK73F1E104ZT +1608			
	C353	00D 257 0509 929	CK73B1H102KT +1608			
	C354	00D 257 0512 903	CK73F1E104ZT +1608			
	C355	00D 257 0509 929	CK73B1H102KT +1608			
	C356	00D 257 0511 904	CK73F1H103ZT +1608			
	C357	00D 257 0509 929	CK73B1H102KT +1608			
	C358	00D 257 0511 904	CK73F1H103ZT +1608			
	C359	00D 257 0509 929	CK73B1H102KT +1608			
	C360	00D 257 3011 919	CF73=1H102JT(ECHUB5)+2125			
	C362	00D 257 3015 944	CF73=1C683JT(ECHUB5)+3225			
	C364	00D 257 0511 904	CK73F1H103ZT +1608			
	C365	00D 254 4658 958	CE67C1E101MT (RV) +REF			
	C366	00D 257 0509 929	CK73B1H102KT +1608			
	C367	00D 257 0512 903	CK73F1E104ZT +1608			
	C368	00D 257 0511 904	CK73F1H103ZT +1608			
	C369	00D 257 0512 903	CK73F1E104ZT +1608			
	C370	00D 257 0509 929	CK73B1H102KT +1608			
	C371	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C372	00D 257 0509 929	CK73B1H102KT +1608			
	C373	00D 257 0511 904	CK73F1H103ZT +1608			
	C374	00D 257 0512 903	CK73F1E104ZT +1608			
	C375	00D 257 0509 929	CK73B1H102KT +1608			
	C376	00D 257 0512 903	CK73F1E104ZT +1608			
	C377	00D 257 0511 904	CK73F1H103ZT +1608			
	C378	00D 257 0509 929	CK73B1H102KT +1608			
	C379	00D 257 0502 955	CC73CH1H3R0CT +1608			
	C380	00D 257 0509 929	CK73B1H102KT +1608			
	C381	00D 257 0502 955	CC73CH1H3R0CT +1608			
	C382-384	00D 257 0512 903	CK73F1E104ZT +1608			
	C385	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C386	00D 257 0509 929	CK73B1H102KT +1608			
	C387	00D 257 0506 951	CC73CH1H101JT +1608			
	C388	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C389	00D 257 0512 903	CK73F1E104ZT +1608			
	C390	00D 257 0509 929	CK73B1H102KT +1608			
	C391	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C392	00D 257 0509 929	CK73B1H102KT +1608			
	C393-395	00D 254 4660 904	CE67C1H0R1MT (RV2B55 +REF			
	C397	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C398	00D 257 0512 903	CK73F1E104ZT +1608			
	C400	00D 254 4660 904	CE67C1H0R1MT (RV2B55 +REF			
	C401	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C402	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C403	00D 254 4660 904	CE67C1H0R1MT (RV2B55 +REF			
	C404	00D 254 4660 946	CE67C1H010MT (RV2B55 +REF			
	C407	00D 257 0516 909	CK73B1E223KT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C410	00D 257 0516 909	CK73B1E223KT +1608			
	C414	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C415	00D 257 0506 951	CC73CH1H101JT +1608			
	C417	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C418	00D 257 0509 929	CK73B1H102KT +1608			
	C419	00D 257 0506 951	CC73CH1H101JT +1608			
	C420,421	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C427	00D 254 4660 946	CE67C1H010MT (RV2B55 +REF			
	C501	00D 257 3013 933	CF73=1H104JT(ECHUC9) +C			
	C502	00D 257 3011 919	CF73=1H102JT(ECHUB5)+2125			
	C503	00D 257 3013 933	CF73=1H104JT(ECHUC9) +C			
	C504	00D 257 3011 919	CF73=1H102JT(ECHUB5)+2125			
	C505,506	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C507,508	00D 257 0516 954	CK73B1E104KT +1608			
	C509	00D 257 0509 929	CK73B1H102KT +1608			
	C510	00D 257 0516 954	CK73B1E104KT +1608			
	C514	00D 257 3006 911	CF73=1C104JT(ECHUB5)+3225			
	C515	00D 257 3011 919	CF73=1H102JT(ECHUB5)+2125			
	C516,517	00D 254 4601 934	CE67W0J101MT(P.CAP) +REF			
	C518	00D 257 0516 954	CK73B1E104KT +1608			
	C519	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C520	00D 257 0516 954	CK73B1E104KT +1608			
	C521,522	00D 257 0509 929	CK73B1H102KT +1608			
	C523	00D 257 0516 954	CK73B1E104KT +1608			
	C524,525	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C526	00D 257 0516 954	CK73B1E104KT +1608			
	C527	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C528	00D 254 4558 702	CE04W1H101MC(RFS)			
	C529	00D 257 3013 933	CF73=1H104JT(ECHUC9) +C			
	C530	00D 257 3011 919	CF73=1H102JT(ECHUB5)+2125			
	C531	00D 257 3013 933	CF73=1H104JT(ECHUC9) +C			
	C532	00D 257 3011 919	CF73=1H102JT(ECHUB5)+2125			
	C533,534	00D 257 0516 954	CK73B1E104KT +1608			
	C535	00D 257 0509 929	CK73B1H102KT +1608			
	C536	00D 257 0512 903	CK73F1E104ZT +1608			
OTHERS PARTS GROUP						
	CX062	00D 205 0343 061	6P CONN.BASE(KR-PH)			
	CX171	00D 205 1170 903	17P FFC BASE(FMNBMTT +REF			
	CX173,174	00D 205 1170 903	17P FFC BASE(FMNBMTT +REF			
	CX191	00D 205 1170 916	19P FFC BASE(FMNBMTT +REF			
	CX251	00D 205 1170 961	25P FFC BASE(FMNBMTT			
	CX301	00D 205 1170 974	30P FFC BASE(FMNBMTT			
	CX332	00D 205 1170 945	33P FFC BASE(FMNBMTT +C			
	CX901	00D 205 0375 000	10P CON.BASE(KR-PH)			
	CY121	00D 205 0375 026	12P CONN.BASE(KR-PH)			
	CY211	00D 205 1170 958	21P FFC BASE(FMNBMTT +REF			
	FB101	00D 247 2003 989	RM73B--330JT +1608			
	FB102-111	00D 247 2018 903	RM73B--0R0KT +1608			
	FB112	00D 247 2003 989	RM73B--330JT +1608			
	FB113-138	00D 247 2018 903	RM73B--0R0KT +1608			
	FB139	00D 247 2003 989	RM73B--330JT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	FB140,141	00D 247 2018 903	RM73B--0R0KT +1608			
	FB142	00D 247 2003 989	RM73B--330JT +1608			
	FB143,144	00D 247 2018 903	RM73B--0R0KT +1608			
	FB145	00D 247 2003 989	RM73B--330JT +1608			
	FB146,147	00D 247 2018 903	RM73B--0R0KT +1608			
	FB148-164	00D 247 2003 989	RM73B--330JT +1608			
	FB165-174	00D 247 2018 903	RM73B--0R0KT +1608			
	FB501,502	00D 235 0147 909	E.FIL(BLM21PG221SN1)+2125			
	JK301	00D 205 1153 001	9P S SUB CONNECTOR			
	JK302,303	00D 204 8612 005	MINI JACK			
	JK306	00D 204 8666 006	1P PIN JACK(BK)			
	JK307	00D 205 1222 000	RJ-45 JACK(GND)			
	S101	00D 212 4807 909	TACT SW(SKQDAA) +REF			
	X101	00D 399 0887 903	CSTCE16MOV53-R0 +2125			
	X301	00D 399 0957 901	X TAL(18.75MHZ)			
	X302	00D 399 0598 904	X TAL(24.576MHZ) +REF			

00DGU-3654 VIDEO P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC101,102	00D 262 3301 906	SN74LVC245APW +C			
	IC103,104	00D 262 1348 903	TC74HC123AF(TP1) +C			
	IC105	00D 262 1793 901	TC4W53F +C			
	IC106	00D 262 3277 904	SN74LVC157APW-EL2 +C			
	IC107	00D 262 3301 906	SN74LVC245APW +C			
	IC108	00D 262 2977 917	BA25BC0FP-E2			
	IC201	00D 262 3481 004	ADV7324			
	IC202-204	00D 263 1198 907	LT1399CS +REF			
	IC401	00D 262 3481 004	ADV7324			
	IC402-405	00D 263 1082 903	TK15420MTL +C			
	IC501	00D 262 3462 007	XC3S1000-4FT256C			
	IC502,503	00D 262 3303 001	K4S643232#-TC60 +REF			
	IC506	00D GEN 6869	SCALER ROM SUB ASS'Y	XCF04SV020C(5910)		
	IC507	00D 262 3459 900	BA00HC5FP			
	IC508	00D 262 2977 917	BA25BC0FP-E2			
	IC509	00D 262 3463 909	ICS664-03			
	IC510	00D 399 0986 901	FCXO-03L(30.000MHZ)			
	IC601,602	00D 262 3364 011	SII9030CTU-7			
	IC603	00D 262 3046 902	TC7WH157FU +C			
	IC608	00D 262 2977 933	BA50BC0FP-E2			
	IC609	00D 262 2977 904	BA18BC0FP-E2 +C			
	IC610	00D 262 2977 933	BA50BC0FP-E2			
	IC701-703	00D 262 3301 906	SN74LVC245APW +C			
	TR101	00D 274 0163 904	2SD601A +C			
	TR102	00D 272 0125 904	2SB709A +C			
	TR103	00D 274 0163 904	2SD601A +C			
	TR104	00D 272 0125 904	2SB709A +C			
	TR201-206	00D 271 0293 901	2SA1022-B +C			
	TR207-209	00D 274 0163 904	2SD601A +C			
	TR401-404	00D 271 0293 901	2SA1022-B +C			
	TR405,406	00D 274 0163 904	2SD601A +C			
	TR601	00D 273 0460 905	KTC2875B-RTK +C			
	TR613	00D 275 0110 905	HN1K02FU-TE85L			
	TR614	00D 273 0460 905	KTC2875B-RTK +C			
	TR626,627	00D 275 0110 905	HN1K02FU-TE85L			
	D101-104	00D 276 0717 903	1SS355 TE-17 +C			
	D106	00D 276 0717 903	1SS355 TE-17 +C			
	D502	00D 276 0717 903	1SS355 TE-17 +C			
	D601	00D 276 0750 902	RB521S-30TE61 +REF			
	D604	00D 276 0750 902	RB521S-30TE61 +REF			
	D605,606	00D 276 0717 903	1SS355 TE-17 +C			
	D607	00D 276 0750 902	RB521S-30TE61 +REF			
	D610-612	00D 276 0717 903	1SS355 TE-17 +C			
RESISTORS GROUP						
	RA101,102	00D 247 9007 920	MNR14=0R0JE0			
	RA103,104	00D 247 9002 909	MNR14=330JE0AB +C			
	RA109,110	00D 247 9007 920	MNR14=0R0JE0			
	RA201-207	00D 247 9002 909	MNR14=330JE0AB +C			
	RA401-407	00D 247 9002 909	MNR14=330JE0AB +C			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	RA501-504	00D 247 9002 909	MNR14=330JE0AB +C			
	RA601-612	00D 247 9002 909	MNR14=330JE0AB +C			
	RA613,614	00D 247 9007 920	MNR14=0R0JE0			
	RA617,618	00D 247 9007 920	MNR14=0R0JE0			
	VR101-105	00D 211 6148 906	V03PB471MT(RH03ADCS) +REF			
CAPACITORS GROUP						
	C101	00D 257 0512 903	CK73F1E104ZT +1608			
	C102	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C106	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C107-109	00D 257 0512 903	CK73F1E104ZT +1608			
	C134	00D 257 0507 934	CC73CH1H221JT +1608			
	C135	00D 257 0512 903	CK73F1E104ZT +1608			
	C136-138	00D 257 0509 929	CK73B1H102KT +1608			
	C139	00D 257 0512 903	CK73F1E104ZT +1608			
	C140,141	00D 257 0509 929	CK73B1H102KT +1608			
	C142,143	00D 257 0512 903	CK73F1E104ZT +1608			
	C144	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C145	00D 257 0512 903	CK73F1E104ZT +1608			
	C146	00D 257 2010 937	CS77B1A220MT +C			
	C147	00D 257 0512 903	CK73F1E104ZT +1608			
	C148	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C149	00D 257 0512 903	CK73F1E104ZT +1608			
	C201	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C202	00D 257 0512 903	CK73F1E104ZT +1608			
	C203	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C204	00D 257 0512 903	CK73F1E104ZT +1608			
	C205	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C206	00D 257 0512 903	CK73F1E104ZT +1608			
	C208,209	00D 257 0512 903	CK73F1E104ZT +1608			
	C210	00D 257 0509 903	CK73B1H821KT +1608			
	C211	00D 257 0510 921	CK73B1H392KT +1608			
	C212	00D 257 0511 904	CK73F1H103ZT +1608			
	C214,215	00D 257 0506 951	CC73CH1H101JT +1608			
	C218	00D 257 0512 903	CK73F1E104ZT +1608			
	C219	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C220,221	00D 257 0512 903	CK73F1E104ZT +1608			
	C225,226	00D 257 0512 903	CK73F1E104ZT +1608			
	C228	00D 257 0512 903	CK73F1E104ZT +1608			
	C229	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C230	00D 257 0512 903	CK73F1E104ZT +1608			
	C231	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C232	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C236,237	00D 257 0512 903	CK73F1E104ZT +1608			
	C239	00D 257 0512 903	CK73F1E104ZT +1608			
	C240	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C241	00D 257 0512 903	CK73F1E104ZT +1608			
	C242	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C243	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C247,248	00D 257 0512 903	CK73F1E104ZT +1608			
	C250	00D 257 0512 903	CK73F1E104ZT +1608			
	C251	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C252	00D 257 0512 903	CK73F1E104ZT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C253	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C254	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C278-287	00D 247 2018 903	RM73B--0R0KT +1608			
	C401	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C402	00D 257 0512 903	CK73F1E104ZT +1608			
	C403	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C404	00D 257 0512 903	CK73F1E104ZT +1608			
	C405	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C406	00D 257 0512 903	CK73F1E104ZT +1608			
	C408,409	00D 257 0512 903	CK73F1E104ZT +1608			
	C410	00D 257 0509 903	CK73B1H821KT +1608			
	C411	00D 257 0510 921	CK73B1H392KT +1608			
	C412	00D 257 0511 904	CK73F1H103ZT +1608			
	C418,419	00D 257 0512 903	CK73F1E104ZT +1608			
	C420	00D 257 0502 971	CC73CH1H5R0CT +1608			
	C423,424	00D 257 0512 903	CK73F1E104ZT +1608			
	C426	00D 257 0512 903	CK73F1E104ZT +1608			
	C427	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C428	00D 257 0512 903	CK73F1E104ZT +1608			
	C429	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C430	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C432	00D 257 0504 940	CC73CH1H330JT +1608			
	C433	00D 257 0512 903	CK73F1E104ZT +1608			
	C434	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C435	00D 257 0512 903	CK73F1E104ZT +1608			
	C436	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C437	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C438	00D 257 0512 903	CK73F1E104ZT +1608			
	C439	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C440	00D 257 0512 903	CK73F1E104ZT +1608			
	C441	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C445,446	00D 257 0512 903	CK73F1E104ZT +1608			
	C448,449	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C450	00D 257 0512 903	CK73F1E104ZT +1608			
	C451	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C452	00D 257 0512 903	CK73F1E104ZT +1608			
	C453	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C501	00D 257 0511 904	CK73F1H103ZT +1608			
	C502	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C503	00D 257 0511 904	CK73F1H103ZT +1608			
	C506	00D 257 0512 903	CK73F1E104ZT +1608			
	C507	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C508-515	00D 257 0512 903	CK73F1E104ZT +1608			
	C516	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C517-519	00D 257 0512 903	CK73F1E104ZT +1608			
	C520	00D 257 0511 904	CK73F1H103ZT +1608			
	C521-530	00D 257 0512 903	CK73F1E104ZT +1608			
	C531	00D 257 2010 937	CS77B1A220MT +C			
	C532-535	00D 257 0512 903	CK73F1E104ZT +1608			
	C536	00D 257 0511 904	CK73F1H103ZT +1608			
	C537	00D 257 0512 903	CK73F1E104ZT +1608			
	C538,539	00D 257 0511 904	CK73F1H103ZT +1608			
	C540	00D 257 2010 924	CS77B1A470MT +C			
	C541-543	00D 257 2010 937	CS77B1A220MT +C			
	C544-546	00D 257 0516 954	CK73B1E104KT +1608			
	C547	00D 257 0511 904	CK73F1H103ZT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C548	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C549,550	00D 257 0512 903	CK73F1E104ZT +1608			
	C551,552	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C553,554	00D 257 0512 903	CK73F1E104ZT +1608			
	C555	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C557	00D 257 2010 937	CS77B1A220MT +C			
	C558-565	00D 257 0512 903	CK73F1E104ZT +1608			
	C566	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C567-574	00D 257 0512 903	CK73F1E104ZT +1608			
	C575	00D 257 2010 937	CS77B1A220MT +C			
	C576-589	00D 257 0512 903	CK73F1E104ZT +1608			
	C591-594	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C601	00D 257 0512 903	CK73F1E104ZT +1608			
	C602	00D 257 0509 929	CK73B1H102KT +1608			
	C603	00D 257 0512 903	CK73F1E104ZT +1608			
	C604,605	00D 257 0509 929	CK73B1H102KT +1608			
	C606	00D 257 0512 903	CK73F1E104ZT +1608			
	C607,608	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C609,610	00D 257 0512 903	CK73F1E104ZT +1608			
	C611,612	00D 257 0509 929	CK73B1H102KT +1608			
	C613	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C614	00D 257 0512 903	CK73F1E104ZT +1608			
	C615	00D 257 0509 929	CK73B1H102KT +1608			
	C616	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C617	00D 257 0512 903	CK73F1E104ZT +1608			
	C618	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C619-622	00D 257 0509 929	CK73B1H102KT +1608			
	C623	00D 257 0512 903	CK73F1E104ZT +1608			
	C624	00D 257 0509 929	CK73B1H102KT +1608			
	C628-631	00D 257 0516 954	CK73B1E104KT +1608			
	C632	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C633,634	00D 257 0512 903	CK73F1E104ZT +1608			
	C635,636	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C637,638	00D 257 0512 903	CK73F1E104ZT +1608			
	C639	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C640	00D 257 2010 937	CS77B1A220MT +C			
	C641	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C642	00D 257 0512 903	CK73F1E104ZT +1608			
	C643	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C644	00D 257 0512 903	CK73F1E104ZT +1608			
	C645	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C646,647	00D 257 0512 903	CK73F1E104ZT +1608			
	C648-652	00D 247 2018 903	RM73B--0R0KT +1608			
	C654	00D 247 2018 903	RM73B--0R0KT +1608			
	C656	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C657	00D 257 0512 903	CK73F1E104ZT +1608			
	C658	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C659	00D 257 2010 937	CS77B1A220MT +C			
	C661	00D 257 0512 903	CK73F1E104ZT +1608			
	C662	00D 257 0509 929	CK73B1H102KT +1608			
	C663	00D 257 0512 903	CK73F1E104ZT +1608			
	C664,665	00D 257 0509 929	CK73B1H102KT +1608			
	C666	00D 257 0512 903	CK73F1E104ZT +1608			
	C667,668	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C669,670	00D 257 0512 903	CK73F1E104ZT +1608			
	C671,672	00D 257 0509 929	CK73B1H102KT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C673	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C674	00D 257 0512 903	CK73F1E104ZT +1608			
	C675	00D 257 0509 929	CK73B1H102KT +1608			
	C676	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C677	00D 257 0512 903	CK73F1E104ZT +1608			
	C678	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C679-682	00D 257 0509 929	CK73B1H102KT +1608			
	C683	00D 257 0512 903	CK73F1E104ZT +1608			
	C684	00D 257 0509 929	CK73B1H102KT +1608			
	C686	00D 257 2010 937	CS77B1A220MT +C			
	C691	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C692-695	00D 257 0512 903	CK73F1E104ZT +1608			
	C696	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C697	00D 257 0512 903	CK73F1E104ZT +1608			
	C698	00D 257 4012 920	CE67C1C470MT (RV2) +REF			
	C699	00D 257 0512 903	CK73F1E104ZT +1608			
	C701-703	00D 257 0512 903	CK73F1E104ZT +1608			
	C704	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C705	00D 257 0511 904	CK73F1H103ZT +1608			
	C746	00D 257 0512 903	CK73F1E104ZT +1608			
	C808-813	00D 247 2018 903	RM73B--0R0KT +1608			
OTHERS PARTS GROUP						
	CX062	00D 205 0355 062	6P KR CON BASE(L)			
	CX301	00D 205 1226 909	30P CONNECTOR(AXN3)S +REF			
	CX401,402	00D 205 1227 911	40P CONNECTOR(AXN4)H +REF			
	CX403	00D 205 1226 912	40P CONNECTOR(AXN3)S +REF			
	CY031	00D 205 0233 032	3P EH CONNECTOR BASE			
	CY081	00D 205 0343 087	8P CONN.BASE(KR-PH)			
	CY174	00D 205 1174 909	17P FFC BASE(FMNSMT) +REF			
	CY331	00D 205 1174 970	33P FFC BASE(FMNSMT) +C			
	CY401,402	00D 205 1226 912	40P CONNECTOR(AXN3)S +REF			
	FB501,502	00D 235 0136 907	FBMJ1608HS280NT +1608			
	JK101	00D 205 1270 007	3P BNC JACK(JALCO)AU			
	JK103	00D 204 8549 000	2P PIN JACK(18MM)			
	JK104	00D 204 8633 000	2P S-TERMINAL(AU)			
	JK105-107	00D 204 8666 006	1P PIN JACK(BK)			
	JK405	00D 205 1302 001	19P HDMI CONNECTOR			
	JK602	00D 205 1303 000	24P DVI CONNECTOR			
	L101	00D 235 0125 905	INDUCTOR(FLC32C220K)+3216			
	L201	00D 235 0125 905	INDUCTOR(FLC32C220K)+3216			
	L203-210	00D 235 0125 905	INDUCTOR(FLC32C220K)+3216			
	L401	00D 235 0125 905	INDUCTOR(FLC32C220K)+3216			
	L403-410	00D 235 0125 905	INDUCTOR(FLC32C220K)+3216			
	L501,502	00D 235 0125 905	INDUCTOR(FLC32C220K)+3216			
	L601	00D 235 0125 905	INDUCTOR(FLC32C220K)+3216			
	L603-605	00D 235 0125 905	INDUCTOR(FLC32C220K)+3216			
	L607,608	00D 235 0125 905	INDUCTOR(FLC32C220K)+3216			
	L715	00D 235 0060 934	INDUCTOR(470)ST			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	LF101	00D 261 0163 908	ELB4B591N +REF			
	LF102	00D 261 0162 909	ELB4C582N +REF			
	LF103,104	00D 261 0159 909	ELB4B584 +C			
	W501	00D 205 1034 007	M3 SCREW TERMINAL			
	W802	00D 205 1034 007	M3 SCREW TERMINAL			

00DGU-3655 AUDIO P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC301	00D 262 2669 908	SN74LV157APW +C			
	IC401	00D 262 3430 903	PCM1792DBR			
	IC402	00D 263 1048 002	BA033T			
	IC403,404	00D 263 1074 908	OP275GSR +C			
	IC405,406	00D 263 0896 909	NJM2068MD-TE1 +C			
	IC501	00D 262 3430 903	PCM1792DBR			
	IC502	00D 263 1048 002	BA033T			
	IC503,504	00D 263 1074 908	OP275GSR +C			
	IC505,506	00D 263 0896 909	NJM2068MD-TE1 +C			
	IC601	00D 263 1048 002	BA033T			
	IC602,603	00D 262 2669 908	SN74LV157APW +C			
	IC701	00D 262 3430 903	PCM1792DBR			
	IC702-705	00D 263 0896 909	NJM2068MD-TE1 +C			
	IC801	00D 262 3430 903	PCM1792DBR			
	IC802-805	00D 263 0896 909	NJM2068MD-TE1 +C			
	IC901	00D 262 3430 903	PCM1792DBR			
	IC902-905	00D 263 0896 909	NJM2068MD-TE1 +C			
	TR301,302	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR303,304	00D 269 0082 902	DTC114EKT96 +C			
	TR305	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR306	00D 269 0082 902	DTC114EKT96 +C			
	TR307	00D 269 0083 901	DTA114EKT96 +C			
	TR401	00D 273 0460 905	KTC2875B-RTK +C			
	TR402,403	00D 273 0253 918	2SC2878(A/B)TPE2			
	TR501	00D 273 0460 905	KTC2875B-RTK +C			
	TR502,503	00D 273 0253 918	2SC2878(A/B)TPE2			
	TR601	00D 273 0426 907	2SC2412KLNT146 +C			
	TR602	00D 269 0083 901	DTA114EKT96 +C			
	TR603	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR604,605	00D 269 0082 902	DTC114EKT96 +C			
	TR606,607	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR608,609	00D 269 0082 902	DTC114EKT96 +C			
	TR610	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR611	00D 269 0082 902	DTC114EKT96 +C			
	TR612	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR613	00D 269 0082 902	DTC114EKT96 +C			
	TR614,615	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR616	00D 269 0082 902	DTC114EKT96 +C			
	TR617	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR618,619	00D 269 0082 902	DTC114EKT96 +C			
	TR620	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR621	00D 269 0082 902	DTC114EKT96 +C			
	TR622	00D 269 0119 901	DTA124EKT96(TAPE) +C			
	TR623	00D 269 0082 902	DTC114EKT96 +C			
	TR701-708	00D 273 0460 905	KTC2875B-RTK +C			
	TR801-808	00D 273 0460 905	KTC2875B-RTK +C			
	TR899	00D 273 0460 905	KTC2875B-RTK +C			
	TR901-908	00D 273 0460 905	KTC2875B-RTK +C			
	D301	00D 276 0401 905	1SS133T77 (TAPE)			
	D302	00D 276 0717 903	1SS355 TE-17 +C			
	D601-604	00D 276 0717 903	1SS355 TE-17 +C			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
RESISTORS GROUP						
	R301-303	00D 244 2051 929	RS14B3A821JNBST(S)			
	R305	00D 241 2422 944	RD14B2E102JT(PSNB)			
	R411	00D 241 2424 984	RD14B2E103JT(PSNB)			
	R412-415	00D 241 2421 932	RD14B2E361JT(PSNB)			
	R416,417	00D 241 2422 960	RD14B2E122JT(PSNB)			
	R418,419	00D 241 2421 990	RD14B2E621JT(PSNB)			
	R420,421	00D 241 2422 960	RD14B2E122JT(PSNB)			
	R422,423	00D 241 2421 990	RD14B2E621JT(PSNB)			
	R424,425	00D 241 2420 920	RD14B2E121JT(PSNB)			
	R426,427	00D 241 2421 903	RD14B2E271JT(PSNB)			
	R428,429	00D 241 2419 973	RD14B2E750JT(PSNB)			
	R430,431	00D 241 2421 945	RD14B2E391JT(PSNB)			
	R433	00D 241 2423 901	RD14B2E182JT(PSNB)			
	R435	00D 241 2426 940	RD14B2E473JT(PSNB)			
	R436	00D 241 2423 914	RD14B2E202JT(PSNB)			
	R438	00D 241 2427 923	RD14B2E104JT(PSNB)			
	R440	00D 241 2434 013	RD05A2H151J(RMG)			
	R511	00D 241 2424 984	RD14B2E103JT(PSNB)			
	R512-515	00D 241 2421 932	RD14B2E361JT(PSNB)			
	R516,517	00D 241 2422 960	RD14B2E122JT(PSNB)			
	R518	00D 241 2421 990	RD14B2E621JT(PSNB)			
	R519	00D 241 2422 960	RD14B2E122JT(PSNB)			
	R520,521	00D 241 2421 990	RD14B2E621JT(PSNB)			
	R522	00D 241 2422 960	RD14B2E122JT(PSNB)			
	R523	00D 241 2421 990	RD14B2E621JT(PSNB)			
	R524	00D 241 2420 920	RD14B2E121JT(PSNB)			
	R525	00D 241 2421 903	RD14B2E271JT(PSNB)			
	R526	00D 241 2420 920	RD14B2E121JT(PSNB)			
	R527	00D 241 2421 903	RD14B2E271JT(PSNB)			
	R528	00D 241 2419 973	RD14B2E750JT(PSNB)			
	R529,530	00D 241 2421 945	RD14B2E391JT(PSNB)			
	R531	00D 241 2419 973	RD14B2E750JT(PSNB)			
	R533	00D 241 2423 901	RD14B2E182JT(PSNB)			
	R535	00D 241 2426 940	RD14B2E473JT(PSNB)			
	R536	00D 241 2423 914	RD14B2E202JT(PSNB)			
	R538	00D 241 2427 923	RD14B2E104JT(PSNB)			
	R540	00D 241 2434 013	RD05A2H151J(RMG)			
	R605	00D 244 2051 974	RS14B3A102JNBST(S)			
	R608-613	00D 244 2051 929	RS14B3A821JNBST(S)			
	R616	00D 244 2051 929	RS14B3A821JNBST(S)			
	R618,619	00D 244 2051 929	RS14B3A821JNBST(S)			
CAPACITORS GROUP						
	C301	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C302	00D 254 4558 728	CE04W1H471MC(RFS)			
	C303	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C304	00D 257 0516 954	CK73B1E104KT +1608			
	C305,306	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C307,308	00D 254 4558 728	CE04W1H471MC(RFS)			
	C309	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C310	00D 254 4558 728	CE04W1H471MC(RFS)			
	C311	00D 257 0516 954	CK73B1E104KT +1608			
	C312	00D 257 0501 901	CK73B1H103KT (1608) +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C313	00D 257 0516 954	CK73B1E104KT +1608			
	C314	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C315,316	00D 247 2018 903	RM73B--0R0KT +1608			
	C319,320	00D 247 2018 903	RM73B--0R0KT +1608			
	C401	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C402	00D 254 4557 936	CE04W1H100MT(RFS)			
	C403	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C404-406	00D 257 0506 951	CC73CH1H101JT +1608			
	C407	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C408	00D 254 4558 702	CE04W1H101MC(RFS)			
	C409	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C410,411	00D 254 4557 952	CE04W1H470MT(RFS)			
	C412	00D 257 0516 954	CK73B1E104KT +1608			
	C413	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C414	00D 254 4558 702	CE04W1H101MC(RFS)			
	C415	00D 257 0516 954	CK73B1E104KT +1608			
	C416	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C420,421	00D 255 4254 973	CQ93P2A182JT(NH2)			
	C422,423	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C426,427	00D 255 4254 973	CQ93P2A182JT(NH2)			
	C428	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C430	00D 255 4253 974	CQ93P2A681JT(NH2)			
	C431	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C432-434	00D 255 4253 974	CQ93P2A681JT(NH2)			
	C435	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C436	00D 255 4256 913	CQ93P2A682JT(NH2)			
	C437	00D 255 4257 912	CQ93P2A183JT(NH2)			
	C438,439	00D 255 4254 999	CQ93P2A222JT(NH2)			
	C440	00D 254 4598 908	CE04W1H220MTBP(ASF)			
	C442	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C443	00D 255 4250 906	CQ93P2A100JT(NH2)			
	C444	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C446	00D 254 4445 705	CE04W1H471MC(ARSG)			
	C449	00D 254 4445 705	CE04W1H471MC(ARSG)			
	C452	00D 255 4254 973	CQ93P2A182JT(NH2)			
	C454	00D 254 4558 702	CE04W1H101MC(RFS)			
	C455,456	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C457,458	00D 257 0516 954	CK73B1E104KT +1608			
	C501	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C502	00D 257 0506 951	CC73CH1H101JT +1608			
	C503	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C504	00D 257 0506 951	CC73CH1H101JT +1608			
	C505	00D 254 4557 936	CE04W1H100MT(RFS)			
	C506	00D 257 0506 951	CC73CH1H101JT +1608			
	C507	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C508	00D 254 4558 702	CE04W1H101MC(RFS)			
	C509	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C510,511	00D 254 4557 952	CE04W1H470MT(RFS)			
	C512	00D 257 0516 954	CK73B1E104KT +1608			
	C513	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C514	00D 254 4558 702	CE04W1H101MC(RFS)			
	C515	00D 257 0516 954	CK73B1E104KT +1608			
	C516	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C519,520	00D 255 4254 973	CQ93P2A182JT(NH2)			
	C521,522	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C525	00D 255 4254 973	CQ93P2A182JT(NH2)			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C526	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C529	00D 255 4254 973	CQ93P2A182JT(NH2)			
	C530	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C531-534	00D 255 4253 974	CQ93P2A681JT(NH2)			
	C535	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C536	00D 255 4256 913	CQ93P2A682JT(NH2)			
	C537	00D 255 4257 912	CQ93P2A183JT(NH2)			
	C538,539	00D 255 4254 999	CQ93P2A222JT(NH2)			
	C541	00D 254 4598 908	CE04W1H220MTBP(ASF)			
	C542	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C543	00D 255 4250 906	CQ93P2A100JT(NH2)			
	C544	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C545	00D 254 4445 705	CE04W1H471MC(ARSG)			
	C549	00D 254 4445 705	CE04W1H471MC(ARSG)			
	C552	00D 255 4254 973	CQ93P2A182JT(NH2)			
	C554	00D 254 4558 702	CE04W1H101MC(RFS)			
	C555,556	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C557,558	00D 257 0516 954	CK73B1E104KT +1608			
	C601,602	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C605	00D 254 4558 728	CE04W1H471MC(RFS)			
	C606	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C607	00D 257 0516 954	CK73B1E104KT +1608			
	C608	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C609	00D 257 0516 954	CK73B1E104KT +1608			
	C611-613	00D 254 4558 715	CE04W1H221MC(RFS)			
	C614	00D 254 4558 702	CE04W1H101MC(RFS)			
	C615	00D 257 0516 954	CK73B1E104KT +1608			
	C616	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C617,618	00D 247 2018 903	RM73B--0R0KT +1608			
	C619,620	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C621,622	00D 247 2018 903	RM73B--0R0KT +1608			
	C701	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C703,704	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C706	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C711-714	00D 255 4254 973	CQ93P2A182JT(NH2)			
	C715,716	00D 255 4256 913	CQ93P2A682JT(NH2)			
	C717,718	00D 255 4257 912	CQ93P2A183JT(NH2)			
	C719-722	00D 255 4254 999	CQ93P2A222JT(NH2)			
	C723,724	00D 254 4598 908	CE04W1H220MTBP(ASF)			
	C725,726	00D 255 4250 906	CQ93P2A100JT(NH2)			
	C727	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C728	00D 254 4313 950	CE04W1H101MT(ASF)			
	C729	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C730	00D 254 4313 950	CE04W1H101MT(ASF)			
	C731	00D 254 4558 715	CE04W1H221MC(RFS)			
	C732,733	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C734	00D 254 4558 715	CE04W1H221MC(RFS)			
	C735,736	00D 255 4253 932	CQ93P2A471JT(NH2)			
	C737	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C738-740	00D 257 0506 951	CC73CH1H101JT +1608			
	C741	00D 254 4557 936	CE04W1H100MT(RFS)			
	C742	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C743	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C744	00D 254 4558 702	CE04W1H101MC(RFS)			
	C745	00D 257 0516 954	CK73B1E104KT +1608			
	C746	00D 257 0501 901	CK73B1H103KT (1608) +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C747	00D 254 4558 702	CE04W1H101MC(RFS)			
	C748	00D 257 0516 954	CK73B1E104KT +1608			
	C749	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C750,751	00D 254 4557 952	CE04W1H470MT(RFS)			
	C752-757	00D 257 0516 954	CK73B1E104KT +1608			
	C801	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C803,804	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C806	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C811,812	00D 255 4254 973	CQ93P2A182JT(NH2)			
	C813,814	00D 255 4254 931	CQ93P2A122JT(NH2)			
	C815,816	00D 255 4256 913	CQ93P2A682JT(NH2)			
	C817,818	00D 255 4257 912	CQ93P2A183JT(NH2)			
	C819-822	00D 255 4254 999	CQ93P2A222JT(NH2)			
	C823,824	00D 254 4598 908	CE04W1H220MTBP(ASF)			
	C825,826	00D 255 4250 906	CQ93P2A100JT(NH2)			
	C827	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C828	00D 254 4313 950	CE04W1H101MT(ASF)			
	C829	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C830	00D 254 4313 950	CE04W1H101MT(ASF)			
	C831	00D 254 4558 715	CE04W1H221MC(RFS)			
	C832,833	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C834	00D 254 4558 715	CE04W1H221MC(RFS)			
	C835,836	00D 255 4253 932	CQ93P2A471JT(NH2)			
	C837	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C838-840	00D 257 0506 951	CC73CH1H101JT +1608			
	C841	00D 254 4557 936	CE04W1H100MT(RFS)			
	C842	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C843	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C844	00D 254 4558 702	CE04W1H101MC(RFS)			
	C845	00D 257 0516 954	CK73B1E104KT +1608			
	C846	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C847	00D 254 4558 702	CE04W1H101MC(RFS)			
	C848	00D 257 0516 954	CK73B1E104KT +1608			
	C849	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C850,851	00D 254 4557 952	CE04W1H470MT(RFS)			
	C852-857	00D 257 0516 954	CK73B1E104KT +1608			
	C899	00D 254 4598 908	CE04W1H220MTBP(ASF)			
	C901	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C903,904	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C906	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C911-914	00D 255 4254 973	CQ93P2A182JT(NH2)			
	C915,916	00D 255 4256 913	CQ93P2A682JT(NH2)			
	C917,918	00D 255 4257 912	CQ93P2A183JT(NH2)			
	C919-922	00D 255 4254 999	CQ93P2A222JT(NH2)			
	C923,924	00D 254 4598 908	CE04W1H220MTBP(ASF)			
	C925,926	00D 255 4250 906	CQ93P2A100JT(NH2)			
	C927	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C928	00D 254 4313 950	CE04W1H101MT(ASF)			
	C929	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C930	00D 254 4313 950	CE04W1H101MT(ASF)			
	C931	00D 254 4558 715	CE04W1H221MC(RFS)			
	C932,933	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C934	00D 254 4558 715	CE04W1H221MC(RFS)			
	C935,936	00D 255 4253 932	CQ93P2A471JT(NH2)			
	C937	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C938-940	00D 257 0506 951	CC73CH1H101JT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C941	00D 254 4557 936	CE04W1H100MT(RFS)			
	C942	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C943	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C944	00D 254 4558 702	CE04W1H101MC(RFS)			
	C945	00D 257 0516 954	CK73B1E104KT +1608			
	C946	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C947	00D 254 4558 702	CE04W1H101MC(RFS)			
	C948	00D 257 0516 954	CK73B1E104KT +1608			
	C949	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C950,951	00D 254 4557 952	CE04W1H470MT(RFS)			
	C952-957	00D 257 0516 954	CK73B1E104KT +1608			
OTHERS PARTS GROUP						
	AS101	00D 009 0185 100	BUS BAR (3P)			
	CW053	00D 203 8560 002	5P EH-SCN CON.CORD			
	CX053	00D 205 0233 058	5P EH CONNECTOR BASE			
	CX192	00D 205 0892 020	19P FFC BASE (P=1)			
	CY032	00D 205 0653 036	3P VH CON.BASE			
	CY042	00D 205 0233 045	4P EH CONNECTOR BASE			
	CY192	00D 205 0892 020	19P FFC BASE (P=1)			
	CY332	00D 205 1334 008	33P-FFC-BASE (P=1)			
	JK401	00D 204 8666 006	1P PIN JACK(BK)			
	JK501	00D 204 8666 006	1P PIN JACK(BK)			
	JK701,702	00D 204 8666 006	1P PIN JACK(BK)			
	JK801,802	00D 204 8666 006	1P PIN JACK(BK)			
	JK901,902	00D 204 8666 006	1P PIN JACK(BK)			
	RL301	00D 214 0127 003	RELAY(RY-12W)			
	W402	00D 205 1034 007	M3 SCREW TERMINAL			
	W502	00D 205 1034 007	M3 SCREW TERMINAL			
		00D 417 0476 010	RADIATOR			
		00D 471 3303 016	3X6 CBS-Z			

00DGU-3656 POWER/DISPLAY P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC101	00D 262 3228 908	M66005AFP +C			
	IC102	00D 499 0306 001	GP1UE271XK			
	IC902	00D 263 1206 909	TA76432FC(TE85L) +C			
	IC904	00D 263 1100 005	KIA7805API			
	IC907	00D 263 1206 909	TA76432FC(TE85L) +C			
	IC908	00D 263 1100 050	KIA7808API			
	IC909	00D 262 3047 008	PC123 Y-22			
	IC910	00D 263 1206 909	TA76432FC(TE85L) +C			
	IC951	00D 263 1100 005	KIA7805API			
	IC952	00D 263 1099 006	KIA7905PI			
	IC953	00D 263 1100 021	KIA7812API			
	IC954	00D 263 1099 022	KIA7912PI			
	IC955	00D 263 1100 050	KIA7808API			
	IC956	00D 263 1100 005	KIA7805API			
	TR101	00D 269 0082 902	DTC114EKT96 +C			
	TR102	00D 271 0308 906	2SA933ASTPS			
	TR103-105	00D 269 0082 902	DTC114EKT96 +C			
	TR106	00D 271 0308 906	2SA933ASTPS			
	TR901	00D 271 0308 906	2SA933ASTPS			
	TR902	00D 274 0208 005	2SD1904(R/S)			
	TR903	00D 273 0303 910	2SC1740S(S)-T			
	TR904	00D 274 0036 905	2SD468(C)TF			
	TR905	00D 269 0083 901	DTA114EKT96 +C			
	TR907	00D 269 0083 901	DTA114EKT96 +C			
	TR908	00D 275 0106 906	HAT2053M(TAPE) +C			
	TR909,910	00D 269 0082 902	DTC114EKT96 +C			
	TR911	00D 272 0170 001	2SB1268(R/S)			
	TR913	00D 272 0083 004	2SB1185(E/F)			
	D101-106	00D 276 0717 903	1SS355 TE-17 +C			
	D901-904	00D 276 0729 904	EM01AT (V1)			
	D908	00D 276 0803 008	FMB-G19L			
	D909	00D 276 0730 906	AG01ZT (V1)			
	D910	00D 276 0803 008	FMB-G19L			
	D911	00D 276 0730 906	AG01ZT (V1)			
	D913-917	00D 276 0401 905	1SS133T77 (TAPE)			
	D919,920	00D 276 0813 001	AP01C			
	D921,922	00D 276 0401 905	1SS133T77 (TAPE)			
	D952	00D 276 0305 001	S4VB20			
	D953-956	00D 276 0765 900	1SR139-400T-31			
	ZD902	00D 276 0760 921	MTZJ4.3B T77			
	ZD906	00D 276 0762 945	MTZJ36B T77			
	LD101,102	00D 393 9576 903	SELU1E10CXM-002			
	LD103	00D 393 9645 009	SML1216W(D)			
	LD104,105	00D 393 9576 903	SELU1E10CXM-002			
	TH901	00D 279 0044 002	NTH11D8R0LA			
	FL101	00D 393 8078 004	FL TUBE(15-BT-97GNK)			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
RESISTORS GROUP						
	R909	00D 244 2675 729	RS14B3D224JNBF (ERG)			
	R919	00D 241 2315 938	RD14B2E330GFRST			
	R920	00D 244 2052 973	RS14B3A561JNBST(S)			
	R923	00D 244 2043 908	RS14B3A681JNBST(S)			
	R925	00D 244 2050 991	RS14B3A682JNBST(S)			
	R928	00D 244 2052 973	RS14B3A561JNBST(S)			
	R941	00D 244 2043 908	RS14B3A681JNBST(S)			
	R945	00D 244 2055 912	RS14B3AR47JNBST(S)			
	R951	00D 244 2051 974	RS14B3A102JNBST(S)			
	R952	00D 244 2043 940	RS14B3A222JNBST(S)			
	R958,959	00D 244 2052 973	RS14B3A561JNBST(S)			
	R966-968	00D 244 2052 931	RS14B3A391JNBST(S)			
	R978-983	00D 244 2051 945	RS14B3A010JNBST(S)			
CAPACITORS GROUP						
	C101-103	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C105	00D 257 0506 951	CC73CH1H101JT +1608			
	C106	00D 254 4299 964	CE04W1C470MT(SRE)			
	C108	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C109-111	00D 257 0512 903	CK73F1E104ZT +1608			
	C115-118	00D 257 0501 901	CK73B1H103KT (1608) +1608			
	C119	00D 257 0511 904	CK73F1H103ZT +1608			
	C120	00D 257 0509 929	CK73B1H102KT +1608			
	C896,897	00D 254 4652 705	CE04W1A222MC(KY)J30			
	C898	00D 254 4313 947	CE04W1H4R7MT(ASF)			
	C899	00D 254 4313 934	CE04W1H470MT(ASF)			
	C900	00D 253 8022 707	CK45F2EAC103MC			
	C901	00D 256 8038 004	CF99--2EAC104M			
	C902	00D 253 8029 713	CK45F2EAC471KC(KX)			
	C903	00D 253 8022 707	CK45F2EAC103MC			
	C904	00D 254 4313 934	CE04W1H470MT(ASF)			
	C905	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C906	00D 257 0511 904	CK73F1H103ZT +1608			
	C907	00D 254 4313 947	CE04W1H4R7MT(ASF)			
	C908	00D 257 0509 929	CK73B1H102KT +1608			
	C909	00D 254 4588 714	CE04W2D221MC(KMG)			
	C910	00D 257 0512 903	CK73F1E104ZT +1608			
	C911	00D 257 0511 904	CK73F1H103ZT +1608			
	C912	00D 254 4313 934	CE04W1H470MT(ASF)			
	C913	00D 257 3006 911	CF73=1C104JT(ECHUB5)+3225			
	C914	00D 256 8038 004	CF99--2EAC104M			
	C916,917	00D 254 4653 908	CE04W1V151MT(KY)H11			
	C918	00D 254 4652 705	CE04W1A222MC(KY)J30			
	C919	00D 254 4675 902	CE04W2A220MT(KMF)			
	C920	00D 254 4651 900	CE04W0J331MT(KY)E11			
	C921	00D 257 3006 911	CF73=1C104JT(ECHUB5)+3225			
	C922	00D 254 4542 705	CE04W1E471MC SMG/RE3			
	C923	00D 254 4538 955	CE04W1C221MT SMG/RE3			
	C924	00D 257 0512 903	CK73F1E104ZT +1608			
	C925	00D 254 4522 945	CE04W1V470MT SMG/RE3			
	C927	00D 254 4313 934	CE04W1H470MT(ASF)			
	C928,929	00D 257 0512 903	CK73F1E104ZT +1608			
	C930	00D 257 0511 904	CK73F1H103ZT +1608			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C931	00D 254 4313 934	CE04W1H470MT(ASF)			
	C932	00D 257 0512 903	CK73F1E104ZT +1608			
	C933	00D 254 4653 908	CE04W1V151MT(KY)H11			
	C935	00D 257 0512 903	CK73F1E104ZT +1608			
	C936	00D 254 4653 908	CE04W1V151MT(KY)H11			
	C937	00D 257 0509 929	CK73B1H102KT +1608			
	C938	00D 257 0512 903	CK73F1E104ZT +1608			
	C939	00D 254 4313 934	CE04W1H470MT(ASF)			
	C940-947	00D 257 0512 903	CK73F1E104ZT +1608			
	C948	00D 257 0511 920	CK73F1H473ZT +1608			
	C949,950	00D 253 8029 713	CK45F2EAC471KC(KX)			
	C951	00D 254 4653 908	CE04W1V151MT(KY)H11			
	C952	00D 254 4652 705	CE04W1A222MC(KY)J30			
	C953	00D 254 4651 900	CE04W0J331MT(KY)E11			
	C954,955	00D 253 8029 713	CK45F2EAC471KC(KX)			
	C956	00D 257 0512 903	CK73F1E104ZT +1608			
	C957,958	00D 254 4313 934	CE04W1H470MT(ASF)			
	C959	00D 254 4652 705	CE04W1A222MC(KY)J30			
	C960	00D 254 4536 957	CE04W1A471MT SMG/RE3			
	C961	00D 254 4542 705	CE04W1E471MC SMG/RE3			
	C962	00D 257 0509 929	CK73B1H102KT +1608			
	C963	00D 254 4313 934	CE04W1H470MT(ASF)			
	C964	00D 254 4382 716	CE04W1C102MC(ASF)			
	C965	00D 254 4652 705	CE04W1A222MC(KY)J30			
	C966,967	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C970,971	00D 254 4558 731	CE04W1H332MC(RFS)			
	C972,973	00D 254 4599 703	CE04W1C222MC (KMF)			
	C974	00D 254 4313 934	CE04W1H470MT(ASF)			
	C975,976	00D 257 0511 904	CK73F1H103ZT +1608			
	C979,980	00D 254 4558 728	CE04W1H471MC(RFS)			
	C981,982	00D 254 4368 947	CE04W1E221MT(ASF)			
	C983,984	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C985,986	00D 257 0509 929	CK73B1H102KT +1608			
	C987,988	00D 257 0512 903	CK73F1E104ZT +1608			
	C989	00D 257 0511 904	CK73F1H103ZT +1608			
	C992	00D 257 0512 903	CK73F1E104ZT +1608			
	C993	00D 254 4313 947	CE04W1H4R7MT(ASF)			
	C994	00D 254 4652 705	CE04W1A222MC(KY)J30			
	C995	00D 254 4557 936	CE04W1H100MT(RFS)			
	C996,997	00D 255 4256 955	CQ93P2A103JT(NH2)			
	C998	00D 254 4558 702	CE04W1H101MC(RFS)			
	C999	00D 254 4652 705	CE04W1A222MC(KY)J30			
OTHERS PARTS GROUP						
	CW031	00D 203 5359 009	3P EH-SCN CON.CORD			
	CW035	00D 203 5343 015	3P PH-SAN CON.CORD			
	CW052	00D 203 8549 023	5P PH-SAN CON.CORD			
	CW101	00D 204 2973 012	10P PH-SAN CON.CORD			
	CX024	00D 205 0581 001	2P VH CONNECTOR BASE			
	CX025	00D 205 0581 056	2P VH CONNECTOR BASE			
	CX026	00D 205 1093 006	2P VH CONNECTOR BASA			
	CX032	00D 205 0653 036	3P VH CON.BASE			
	CX035	00D 205 0343 032	3P CONN.BASE(KR-PH)			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	CX037	00D 205 0323 036	3P CONNE.BASE(BLK)			
	CX042	00D 205 0233 045	4P EH CONNECTOR BASE			
	CX059	00D 205 0653 052	5P VH CONNECTOR BASE			
	CX062,063	00D 205 0653 065	6P VH CONNECTOR BASE			
	CX081	00D 205 0343 087	8P CONN.BASE(KR-PH)			
	CX121	00D 205 0375 026	12P CONN.BASE(KR-PH)			
	CX211	00D 205 1006 022	21P FFC BASE (P=1)			
	CY025	00D 205 0581 056	2P VH CONNECTOR BASE			
	CY037	00D 205 0323 036	3P CONNE.BASE(BLK)			
	CY052	00D 205 0343 058	5P CONN.BASE(KR-PH)			
	CY063	00D 205 0653 065	6P VH CONNECTOR BASE			
⚠	F901	00D 206 1072 033	FUSE 2A			
	FF901	00D 202 0040 909	FUSE CLIP(TAPE)			
	FH901	00D 202 0040 909	FUSE CLIP(TAPE)			
	L901	00D 235 0157 009	PLA10AN7720R7D2B			
	L903,904	00D 235 0142 917	COIL LHL08TB4R7MT			
	RL901	00D 214 0202 009	RELAY DG1U TV-8			
	S101-106	00D 212 5604 910	TACT SWITCH-TA(ALPS)			
	S108-110	00D 212 5604 910	TACT SWITCH-TA(ALPS)			
	S112	00D 212 0525 007	ROT.ENCODER EC11B20			
	S113-115	00D 212 5604 910	TACT SWITCH-TA(ALPS)			
	S116	00D 212 5611 903	TACT SWITCH(TAPE H5)			
⚠	S900	00D 212 1030 009	POWER SWITCH (TV-5)			
	ST303	00D 205 0452 017	STYLE PIN			
	ST901,902	00D 205 0452 017	STYLE PIN			
⚠	T901	00D 233 0686 008	SW TRANS (100/120)			
	W905,906	00D 205 1034 007	M3 SCREW TERMINAL			
		00D 265 0126 002	TOP247YN			
		00D 461 0991 026	RUBBER SHEET			
		00D 417 0476 010	RADIATOR			
		00D 417 0476 023	RADIATOR			
		00D 417 0476 036	RADIATOR			
		00D 471 3303 016	3X6 CBS-Z			

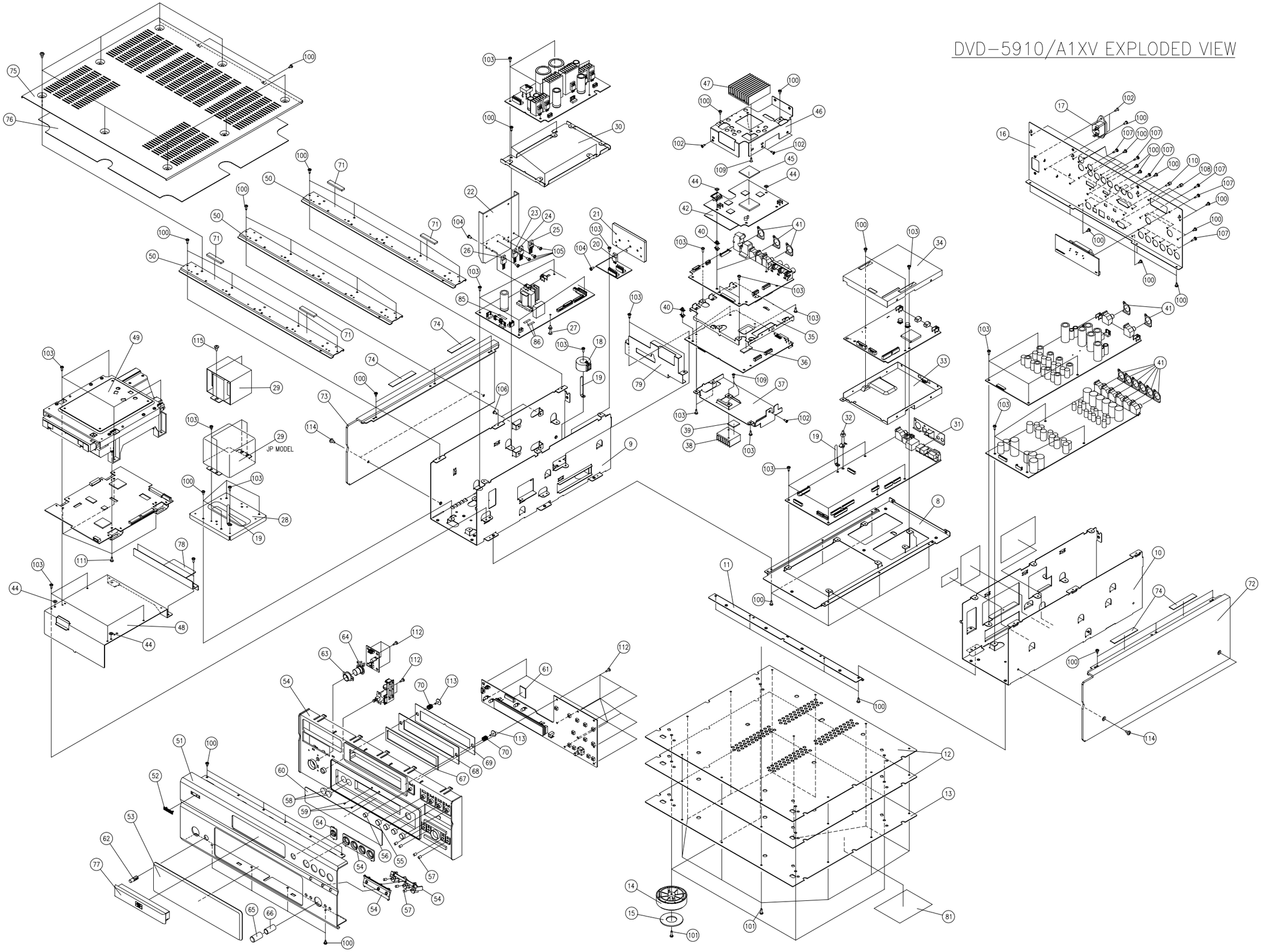
00DGU-3657 IP P.W.B. UNIT ASS'Y

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
	IC101	00D 262 3471 001	SXT2-100			
	IC103	00D 262 2570 903	TC7W241FU(TE12L)			
	IC701-704	00D 262 3479 016	EM6A9320BI-4M			
	IC802	00D GEN 6868	IP ROM SUB ASS Y	M29W320BD70N6		
	IC803	00D 262 3473 902	LP2995M			
RESISTORS GROUP						
	RA101,102	00D 247 9007 920	MNR14=0R0JE0			
	RA105-108	00D 247 9007 920	MNR14=0R0JE0			
CAPACITORS GROUP						
	C101-118	00D 257 5009 974	CK73F1C104ZT +1005			
	C119	00D 257 2010 937	CS77B1A220MT +C			
	C120-127	00D 257 5009 974	CK73F1C104ZT +1005			
	C128	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C129	00D 257 5009 974	CK73F1C104ZT +1005			
	C130,131	00D 257 5009 916	CK73B1C103KT			
	C132-141	00D 257 5009 974	CK73F1C104ZT +1005			
	C142	00D 257 2010 937	CS77B1A220MT +C			
	C143-166	00D 257 5009 974	CK73F1C104ZT +1005			
	C167	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C168-171	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C172-177	00D 257 5009 974	CK73F1C104ZT +1005			
	C178,179	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C180,181	00D 257 5009 916	CK73B1C103KT			
	C182	00D 257 5009 974	CK73F1C104ZT +1005			
	C183	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C184,185	00D 257 5009 974	CK73F1C104ZT +1005			
	C188	00D 257 0506 951	CC73CH1H101JT +1608			
	C701-709	00D 257 5009 974	CK73F1C104ZT +1005			
	C710	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C711-719	00D 257 5009 974	CK73F1C104ZT +1005			
	C720	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C721-729	00D 257 5009 974	CK73F1C104ZT +1005			
	C730	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C731-739	00D 257 5009 974	CK73F1C104ZT +1005			
	C740	00D 257 4012 917	CE67C1C220MT (RV2) +REF			
	C741-748	00D 257 5009 916	CK73B1C103KT			
	C749-758	00D 257 5009 974	CK73F1C104ZT +1005			
	C759	00D 257 2010 911	CS77B1A101MT +C			
	C760	00D 257 2010 937	CS77B1A220MT +C			
	C801	00D 257 4012 904	CE67C1C100MT (RV2B55 +REF			
	C802	00D 257 5009 974	CK73F1C104ZT +1005			
	C805,806	00D 257 5009 916	CK73B1C103KT			
	C807	00D 257 5009 974	CK73F1C104ZT +1005			
	C808	00D 257 2010 924	CS77B1A470MT +C			
	C809	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C810	00D 257 2010 924	CS77B1A470MT +C			
	C811	00D 257 4011 905	CE67C0J101MT (RV2) +REF			
	C909	00D 257 2010 911	CS77B1A101MT +C			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	C910	00D 257 2010 924	CS77B1A470MT +C			
	C911	00D 257 2010 937	CS77B1A220MT +C			
	C912-946	00D 257 5009 916	CK73B1C103KT			
OTHERS PARTS GROUP						
	CX171	00D 205 1170 903	17P FFC BASE(FMNBMTT +REF			
	CY059	00D 205 0449 059	5P VH CONNECTOR BASE			
	CY301	00D 205 1227 908	30P CONNECTOR(AXN4)H +REF			
	CY403	00D 205 1227 911	40P CONNECTOR(AXN4)H +REF			
	FB101-105	00D 235 0136 907	FBMJ1608HS280NT +1608			
	W701,702	00D 205 0864 029	M3 SCREW TERMINAL			
	X101	00D 399 0987 900	FCXO-05(66.666MHz)			

EXPLODED VIEW

Parts List



PARTS LIST OF EXPLODED VIEW

＊本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

Note:The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A. & Canada model JP: Japan model
E2: Europe model E1C : China model

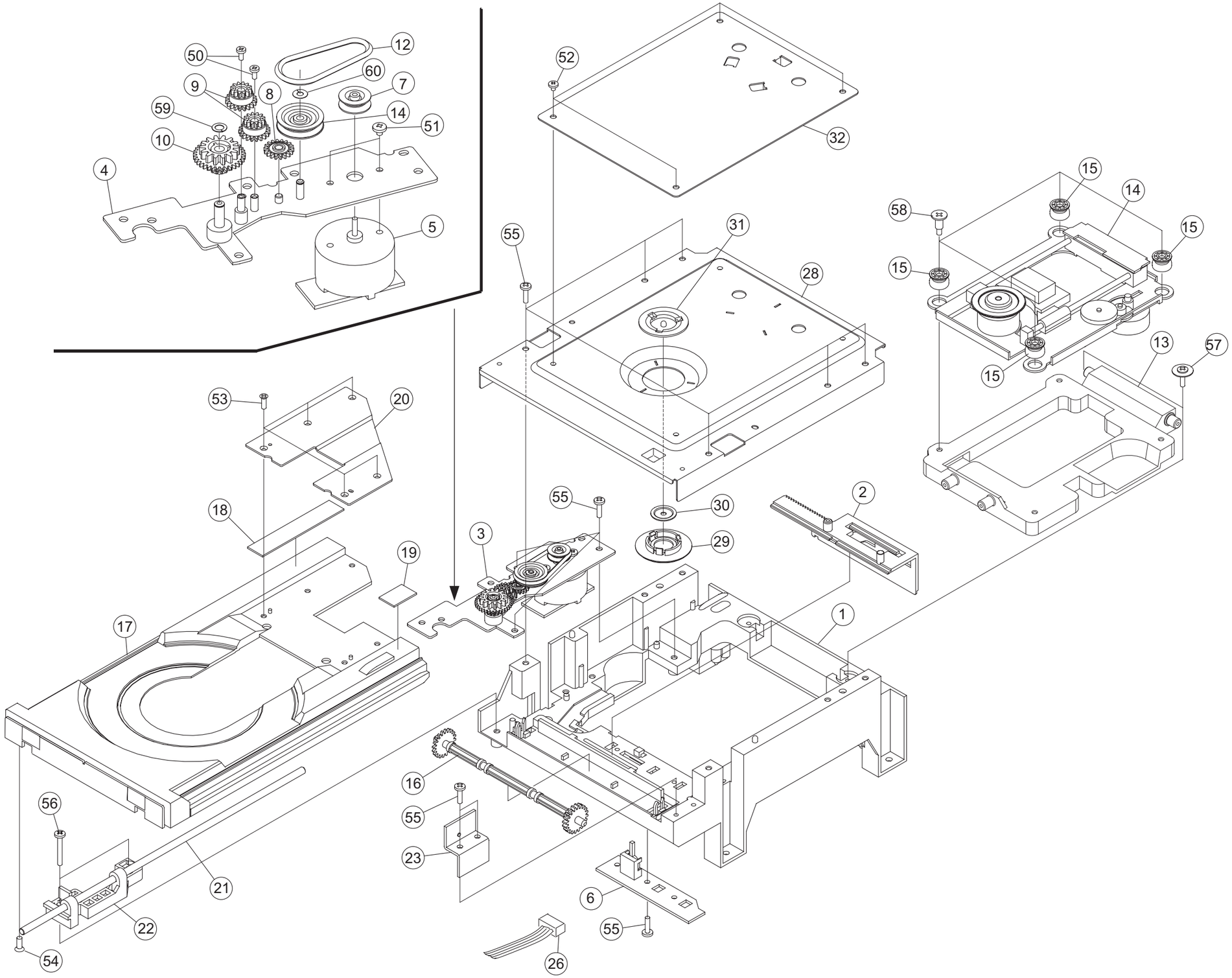
Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
1	00DGU-3517D	IEEE1394 PWB UNIT ASS'Y	for E3	1	
1	00DGU-3517E	IEEE1394 PWB UNIT ASS'Y	for E2,E1C,JP	1	
2	00DGU-3618D	MAIN PWB UNIT ASS'Y	for E3,E2,E1C,JP	1	
3	00DGU-3653	SYSTEM PWB UNIT ASS'Y	for E3	1	*
3	00DGU-3653A	SYSTEM PWB UNIT ASS'Y	for E2	1	*
3	00DGU-3653B	SYSTEM PWB UNIT ASS'Y	for JP	1	*
3	00DGU-3653D	SYSTEM PWB UNIT ASS'Y	for E1C	1	*
4	00DGU-3654	VIDEO PWB UNIT ASS'Y	for E3	1	*
4	00DGU-3654A	VIDEO PWB UNIT ASS'Y	for E2,E1C	1	*
4	00DGU-3654B	VIDEO PWB UNIT ASS'Y	for JP	1	*
4-1		VIDEO1 UNIT			
4-2		VIDEO2 UNIT			
4-3		SCART UNIT	for E2,E1C		
5	00DGU-3655	AUDIO PWB UNIT ASS'Y	for E3	1	*
5	00DGU-3655A	AUDIO PWB UNIT ASS'Y	for E2,E1C	1	*
5	00DGU-3655B	AUDIO PWB UNIT ASS'Y	for JP	1	*
5-1		MIXch AUDIO UNIT			
5-2		5.1CH AUDIO UNIT			
6	00DGU-3656	POWER/DISPLAY PWB UNIT ASS'Y	for E3	1	*
6	00DGU-3656A	POWER/DISPLAY PWB UNIT ASS'Y	for E2,E1C	1	*
6	00DGU-3656B	POWER/DISPLAY PWB UNIT ASS'Y	for JP	1	*
6-1		ANALOG POWER UNIT			
6-2		DIGITAL POWER UNIT			
6-3		DISPLAY UNIT			
6-4		P.SW UNIT			
6-5		POWER/STANDBY UNIT			
6-6		1.5V POWER UNIT			
7	00DGU-3657	I/P PWB UNIT ASS'Y	for E3,E2,E1C,JP	1	*
8	00D 411 2063 009	CENTER CHASSIS	Black model	1	*
8	00D 411 2063 012	CENTER CHASSIS	P.Silver model	1	*
9	00D 411 2064 105	CHASSIS L	Black model	1	*
9	00D 411 2064 118	CHASSIS L	P.Silver model	1	*
10	00D 411 2065 104	CHASSIS R	Black model	1	*
10	00D 411 2065 117	CHASSIS R	P.Silver model	1	*
11	00D 411 2066 006	FRONT CHASSIS	Black model	1	*
11	00D 411 2066 019	FRONT CHASSIS	P.Silver model	1	*
12	00D 105 1382 022	INSIDE PLATE		2	*
13	00D 105 1382 035	BOTTOM COVER		1	*
14	00D 104 0334 007	FOOT		4	
15	00D 461 1217 000	RUBBER PAD		4	*
16	00D 105 1471 108	REAR PANEL (BKE3)	for E3	1	*
16	00D 105 1471 111	REAR PANEL (JP)	for JP	1	*
16	00D 105 1471 137	REAR PANEL (SPE2)	for E2	1	*
16	00D 105 1471 140	REAR PANEL (SPE1C)	for E1C	1	*
17	00D 203 3995 009	AC INLET (2P)		1	
18	00D 342 0027 000	FERRITE CORE		1	
19	00D 445 0048 016	CORD HOLDER (L50)		2	
20	00D 274 0209 004	2SC5370		1	
21	00D 417 0651 107	HEAT PLATE		1	*
22	00D 417 0667 104	RADIATOR PLATE		1	*
23	00D 263 1100 005	KIA7805API		1	

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	24	00D 263 1211 004	BA00JC5WT		1	
	25	00D 274 0209 004	2SC5370		1	
	26	00D 276 0818 006	FMJ-2303		1	
	27	00D 412 2814 015	CARD SPACER (L=14)		1	*
	28	00D 441 1997 009	TRANS PLATE		1	*
⚠	29	00D 233 6456 119	POWER TRANS(E3)	for E3	1	*
⚠	29	00D 233 0664 017	POWER TRANS(N)	for JP	1	*
⚠	29	00D 233 6457 011	POWER TRANS(E2)	for E2,E1C	1	*
	30	00D 414 1005 009	SHIELD PLATE		1	*
	31	00D 414 1019 008	EARTH PLATE (SYSTEM)		1	*
	32	00D 449 0033 007	LOCKING CARD SPACER		1	
	33	00D 414 0990 005	SHIELD IEEE1394(BOT)		1	
	34	00D 414 0991 004	SHIELD IEEE1394(TOP)		1	
	35	00D 414 1006 105	SHIELD PLATE(VIDEO)		1	*
	36	00D 417 0682 008	HEAT SHEET (GP1-2.0)		1	*
	37	00D 411 2083 005	SUPPORT BRIDGE		1	*
	38	00D 417 0678 009	HEAT SINK(PUE36)		1	*
	39	00D 417 0682 011	HEAT SHEET (GP1-2.0)		1	*
	40	00D 412 2404 043	PWB HOLDER (WLS-13)		4	
	41	00D 414 1018 009	EARTH PLATE (L-RCA)		11	*
	42	00D 414 1029 001	SHIELD SHEET		1	*
	43	00D 461 0415 007	RUBBER SHEET		16	
	44	00D 477 0231 024	4W(S)		4	
	45	00D 417 0682 024	HEAT SHEET (GP1-2.0)		1	*
	46	00D 411 2082 103	SUPPORT BRACKET	Black model	1	*
	46	00D 411 2082 116	SUPPORT BRACKET	P.Silver model	1	*
	47	00D 417 0677 000	HEAT SINK(PUG56)		1	*
	48	00D 411 2067 102	MECHA BASE		1	*
	49	00D FG180-1-DE	DVD MECHA UNIT		1	*
	50	00D 412 5189 006	ANGLE	Black model	3	*
	50	00D 412 5189 019	ANGLE	P.Silver model	3	*
	51	00D 144 2916 104	FRONT PANEL(BKE3)	Black model	1	*
	51	00D 144 2916 117	FRONT PANEL(SP)	P.Silver model	1	*
	52	00D 131 0158 007	DENON BADGE	Black model	1	
	52	00D 131 0158 010	DENON BADGE	P.Silver model	1	
	53	00D 143 1213 203	WINDOW	Black model	1	*
	53	00D 143 1213 216	WINDOW	P.Silver model	1	*
	54	00D 146 2393 105	INNER PANEL(BK)	Black model	1	*
	54	00D 146 2393 118	INNER PANEL(SP)	P.Silver model	1	*
	55	00D 114 0176 000	FUNCTION KNOB CAP	Black model	4	*
	55	00D 114 0176 013	FUNCTION KNOB CAP	P.Silver model	4	*
	56	00D 114 0177 009	OPEN/CLOSE KNOB CAP	Black model	1	*
	56	00D 114 0177 012	OPEN/CLOSE KNOB CAP	P.Silver model	1	*
	57	00D 113 2010 006	TACT KNOB CAP	Black model	7	*
	57	00D 113 2010 019	TACT KNOB CAP	P.Silver model	7	*
	58	00D 143 1207 002	LENS		2	
	59	00D 143 1208 001	LENS(MINI)		2	
	60	00D 143 1214 105	DISPLAY SHEET		1	*
	61	00D 461 0957 057	RUBBER FOAM		1	
	62	00D 113 1994 107	P.KNOB ASS Y(MAIN)	Black model	1	
	62	00D 113 1994 149	P.KNOB ASS Y(MAIN)	P.Silver model	1	
	63	00D 143 1189 007	POWER LENS		1	
	64	00D 113 1992 109	P.KNOB ASS Y(SUB)	Black model	1	
	64	00D 113 1992 138	P.KNOB ASS Y(SUB)	P.Silver model	1	
	65	00D 114 0170 006	KNOB CAP(D12) BK	Black model	1	
	65	00D 114 0170 035	KNOB CAP(D12) SP	P.Silver model	1	

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	66	00D 112 0957 003	KNOB BUSH(D12) BK	Black model	1	*
	66	00D 112 0957 016	KNOB BUSH(D12) SP	P.Silver model	1	*
	67	00D 461 1162 003	BLIND SHEET		1	
	68	00D 431 0440 000	BLIND		1	
	69	00D 431 0443 007	BLIND(S)		1	*
	70	00D 463 0958 007	SPRING		2	
	71	00D 129 0253 048	RUBBER SHEET		4	*
	72	00D 144 2917 006	SIDE COVER(R)(BK)	Black model	1	*
	72	00D 144 2917 019	SIDE COVER(R)(SR)	P.Silver model	1	*
	73	00D 144 2918 005	SIDE COVER(L)(BK)	Black model	1	*
	73	00D 144 2918 018	SIDE COVER(L)(SR)	P.Silver model	1	*
	74	00D 461 1131 005	RUBBER FORM	for JP,E2,E1C	4	
	75	00D 102 0652 055	TOP COVER	Black model	1	*
	75	00D 102 0652 068	TOP COVER	P.Silver model	1	*
	76	00D 412 5190 008	TOP COVER DAMPER		1	*
	77	00D 144 2925 001	LOADER PANEL ASS Y	Black model	1	*
	77	00D 144 2925 014	LOADER PANEL ASS Y	P.Silver model	1	*
	78	00D 412 5219 002	EMC ANGLE	for E3	1	*
	79	00D 412 5220 004	EMC PLATE	for E3	1	*
	80	00D 445 0033 005	WIRE CLAMP BAND		15	
	81	00D 513 4019 001	LICENSE LABEL		1	*
	82	00D 513 3406 107	LABEL(A)	for E3	1	
	83	00D 513 3463 001	LABEL(LASER)	for E2,E1C	1	
	84	00D 513 2063 004	E2 LASER CAUTION	for E2,E1C	1	
	85	00D 513 4053 009	FUSE LABEL	for JP	1	*
	85	00D 513 3827 074	FUSE LABEL	for E2,E1C	1	*
	86	00D 513 4053 012	FUSE LABEL	for JP	2	*
	86	00D 513 3827 087	FUSE LABEL	for E2,E1C	2	*
	★ 201	00D 203 5344 014	3P VH CON.CORD	AC INLET-DIGITAL POWER(CX024)	1	*
	★ 202	00D 203 8557 002	5P VH-VH CON.CORD	1.5V POWER(CX059)-I/P(CY059)	1	*
	★ 203	00D 204 6781 006	12P PH-PH CON.CORD	DIGITAL POWER(CX121)-SYSTEM(CY121)	1	*
	★ 204	00D 203 5296 065	3P PH-PH CON.CORD	DIGITAL POWER(CY037)-ANALOG POWER(CX037)	1	*
	★ 205	00D 204 2964 018	8P PH-PH CON.CORD	DIGITAL POWER(CX081)-VIDEO2(CY081)	1	*
	★ 206	00D 204 0594 008	6P VH-VH CON.CORD	DIGITAL POWER(CX063)-1.5V POWER(CY063)	1	*
	★ 207	00D 203 5358 000	3P VH-VH CON.CORD	ANALOG POWER(CX032)-MIXCH AUDIO(CY032)	1	*
	★ 208	00D 203 6620 009	4P EH-EH CON.CORD	ANALOG POWER(CX042)-MIXCH AUDIO(CY042)	1	*
	★ 209	00D 009 0262 065	25P FFC(1.0)	SYSTEM(CX251)-MAIN(CY251)	1	*
	★ 210	00D 009 0262 078	30P FFC(1.0)	SYSTEM(CX301)-MAIN(CY301)	1	*
	★ 211	00D 009 0262 007	17P FFC(1.0)	SYSTEM(CX171)-MAIN(CY171)	1	*
	★ 212	00D 009 0262 081	33P FFC(1.0)	SYSTEM(CX332)-5.1CH AUDIO(CY332)	1	*
	★ 213	00D 009 0262 010	17P FFC(1.0)	SYSTEM(CX174)-VIDEO1(CY174)	1	*
	★ 214	00D 009 0262 049	19P FFC(1.0)	SYSTEM(CX191)-IEEE1394(CY191)	1	*
	★ 215	00D 009 0262 023	17P FFC(1.0)	SYSTEM(CX173)-IEEE1394(CY173)	1	*
	★ 216	00D 009 0186 015	24P FFC(0.5)	PU-MAIN	1	*
	★ 217	00D 203 8517 068	5P PH-PH CONN.CORD	SLIDE-MAIN	1	*
	★ 218	00D 009 0262 081	33P FFC(1.0)	MAIN(CX331)-VIDEO2(CY331)	1	*
	★ 219	00D 009 0262 036	19P FFC(1.0)	MIXCH AUDIO(CX192)-5.1CH AUDIO(CY192)	1	*
	★ 220	00D 009 0262 052	21P FFC(1.0)	DISPLAY(CX211)-SYSTEM(CY211)	1	*
	★ 221	00D 203 5294 041	3P VH-VH CON.CORD	POWER SW(CY026)-DIGITAL POWER(CX026)	1	*
	★ 222	00D 204 2942 056	10P PH-PH CON.CORD	SCART(CX102)-VIDEO(CY102)	1	*
	★ 223	00D 461 1220 000	EMIGASKET SHSG040100			
	★ 224	00D 461 1221 009	EMIGASKET SHSG030100			
	★ 225	00D 414 1010 007	ALUMINUM TAPE			

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	★ 226	00D 125 0097 008	BUTYL TAPE(W50 T2)	for JP		
	★ 227	00D 125 0096 009	NITOFLON TAPE(W50)	for JP		
	★ 228	00D 125 0075 004	CHUKOH TAPE	for JP		
	★ 229	00D 513 4025 024	CCC LABEL	for E1C	1	
SCREWS						
	100	00D 473 7015 005	3X6 CBTS(S)-B		75	
	101	00D 473 7006 030	3X12 CBTS (S)-B		16	
	102	00D 473 7003 017	3X8 CFTS (S)-B		6	
	103	00D 473 7002 018	3X8 CBTS (S)-Z		45	
	104	00D 471 3304 015	3X8 CBS-Z		3	
	105	00D 471 3303 016	3X6 CBS-Z		4	
	106	00D 473 8034 027	3X8 CBTS(B)-B		2	
	107	00D 477 0064 123	FIXING SCREW		16	
	108	-	FUZOKUHIN / RC232C HEX BOLT		2	
	109	00D 471 2303 020	3X6 CFS-B		4	
	110	-	FUZOKUHIN / DVI HEX BOLT		2	
	111	00D 473 7508 017	3X10 CBTS (P)-B		2	
	112	00D 473 7500 044	3X8 CBTS (P)-B		16	
	113	00D 473 8044 004	SPECIAL SCREW		2	
	114	00D 471 9059 018	SPECIAL SCREW	Black model	12	*
	114	00D 471 9059 005	SPECIAL SCREW	P.Silver model	12	*
	115	00D 473 7007 000	4X8 CBTS (S)-B	for E3,E2,E1C	2	

EXPLODED VIEW OF DVD MECHANISM

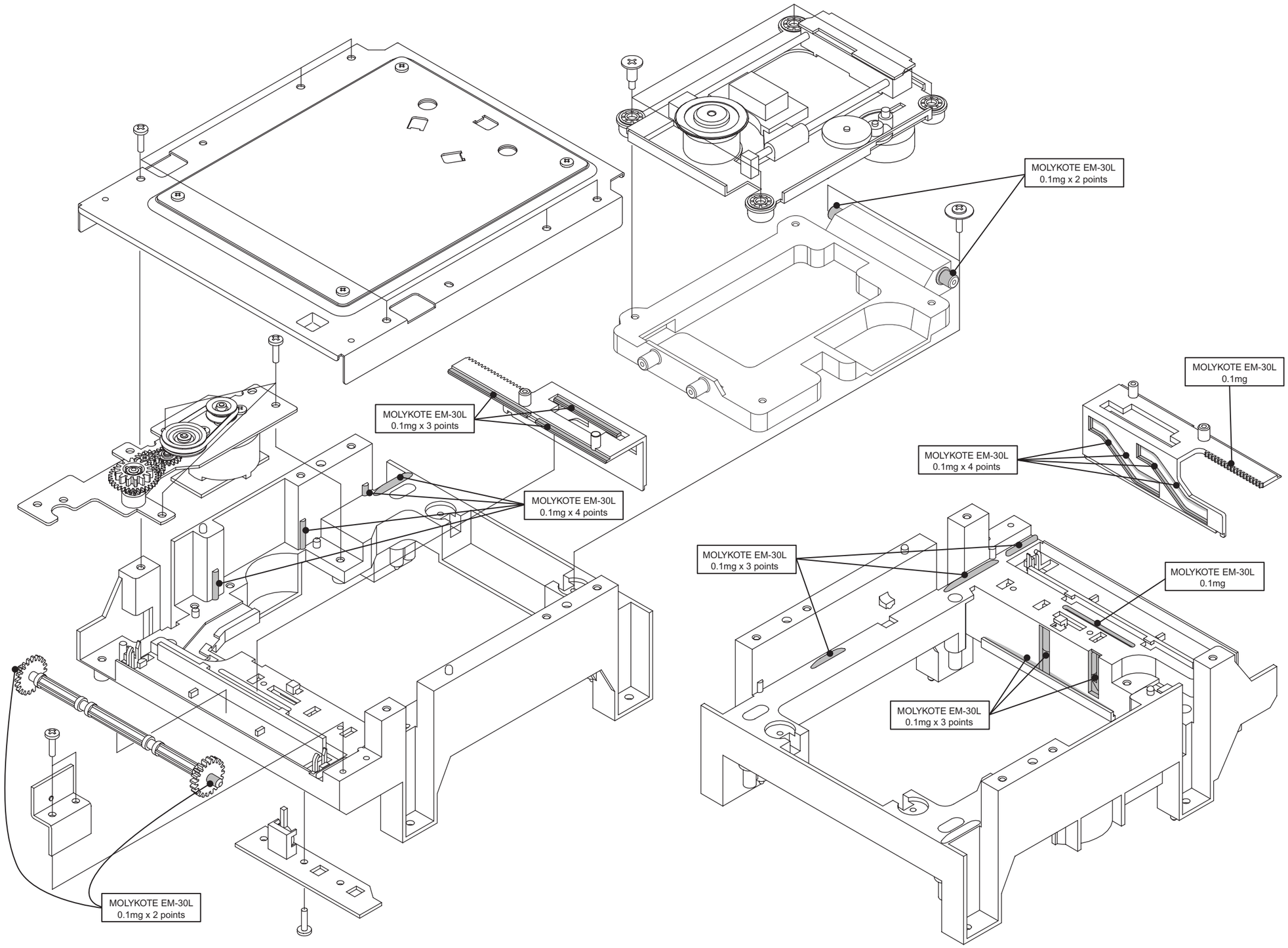


PARTS LIST OF DVD MECHANISM (FG180-1)

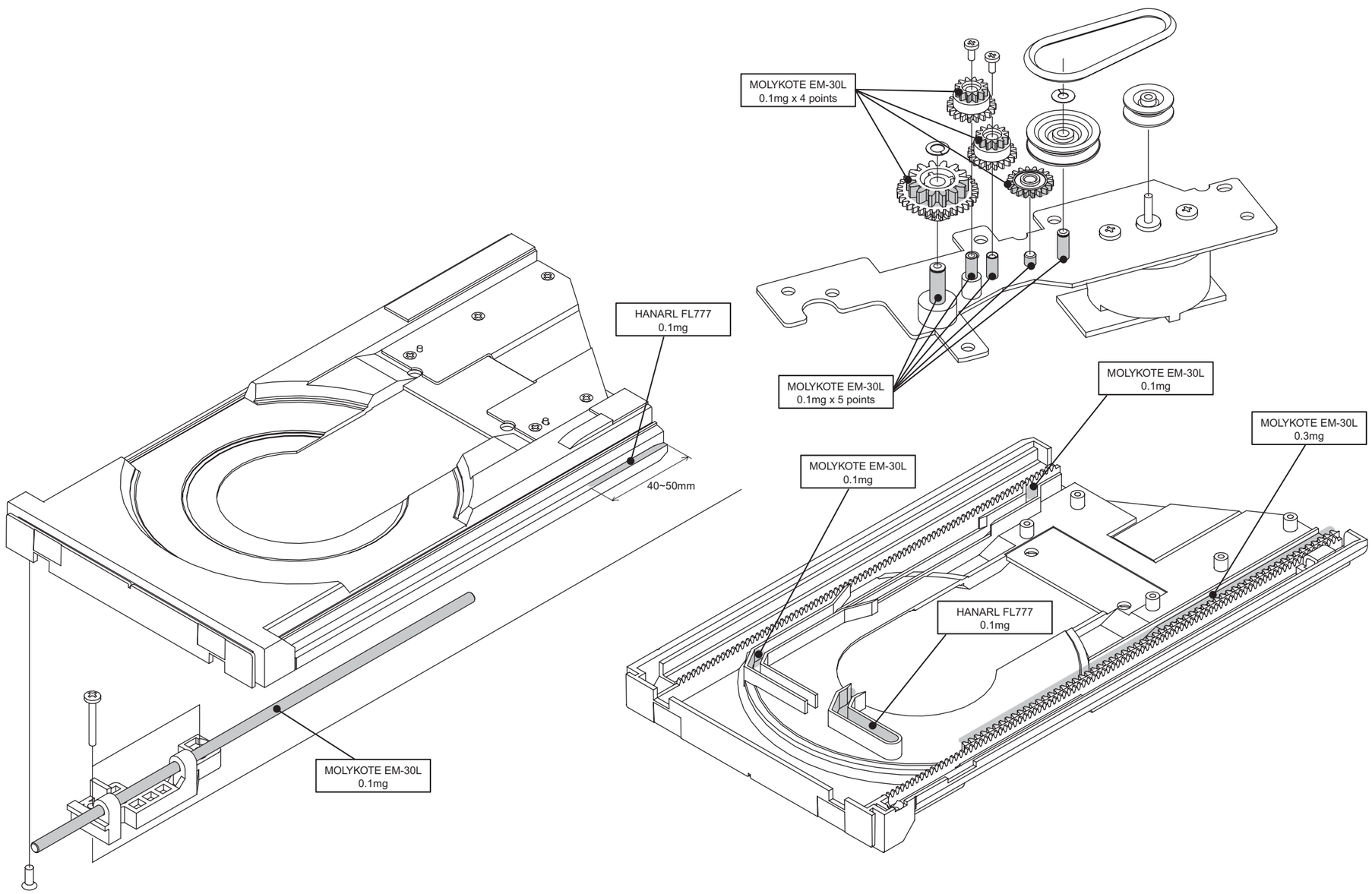
＊本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

	Ref. No	Part No.	Part Name	Remarks	Q'ty	New
	1	00D 411 1988 101	Mecha chassis		1	
	2	00D 431 0426 503	Plate gear		1	
	3	00D 9KA 2A40 3D	Gear base sub Ass'y		1	
	4	00D 441 1952 109	Gear base Ass'y		1	
	5	00D 9KM 01T1 32	LD Motor		1	
	6-1	00D 9KA 85P0 05	Detector SW P.W.B.		1	
	6-2	00D 9KA 85G0 27	2P Connector wire		1	
	6-3	00D 9KA 82G3 08	2P Connector		1	
	6-4	00D 9KS 01W1 48	Detector SW		1	
	7	00D 421 0772 108	Motor pulley		1	
	8	00D 424 0269 209	Gear C		1	
	9	00D 424 0268 200	Gear B		2	
	10	00D 424 0267 201	Gear A		1	
	11	00D 424 0270 104	Pulley gear		1	
	12	00D 423 0077 100	Belt		1	
	13	00D 446 0063 104	Mecha frame		1	
	14A	00D 9KA 2A50 6A	TRAV. Mecha Ass'y	with FEED MOTOR	1	
	14B	00D 9KA 2A55 9A	TRAV. Mecha Ass'y	without FEED MOTOR	1	
	15	00D 9KC 2G08 3A	Damper-IDLE		4	
	16	00D 424 0246 109	Loader gear		1	
	17	00D 431 0427 405	Loader		1	
	18	00D 461 1131 005	Rubber form		1	
	19	00D 461 1131 018	Rubber form		1	
	20	00D 412 4817 104	Loader bracket		1	
	21	00D 431 0384 001	Slide shaft		1	
	22	00D 431 0428 006	Holder		1	
	23	00D 412 4818 006	Bearing plate Ass'y		1	
	26	00D 203 8517 068	5P PH-PH Connector cord		1	
	28	00D 412 7820 201	Clamp base		1	
	29	00D 9KA 7G20 3B	Clamper L		1	
	30	00D 9KA 7P08 5A	Clamper T		1	
	31	00D 9KA 7G20 2D	Clamper H		1	
	32	00D 403 0061 002	Clamp base damper		1	
	34	00D 513 3436 009	ROM seal		1	
SCREWS						
	50	00D 471 9057 007	Special screw M1.7		2	
	51	00D 9KM 01T1 32	Screw 2.6X2.5 CBS-NI		2	
	52	00D 471 3813 001	Screw 2.6X4 CBS-B		4	
	53	00D 9KH 26P0 08	Screw 2.6X8 CFTS(P)		5	
	54	00D 473 7511 004	Screw 3X10 CFTS(P)-Z		1	
	55	00D 473 7508 017	Screw 3X10 CBTS(P)-B		12	
	56	00D 473 7508 046	Screw 3X16 CBTS(P)-B		2	
	57	00D 477 0262 006	Special screw		2	
	58	00D 9KC 1H01 1A	SCW-Damper		4	
	59	00D 9KP 36C6 25	Slit washer		1	
	60	00D 9KP 26C6 25	Slit washer		1	

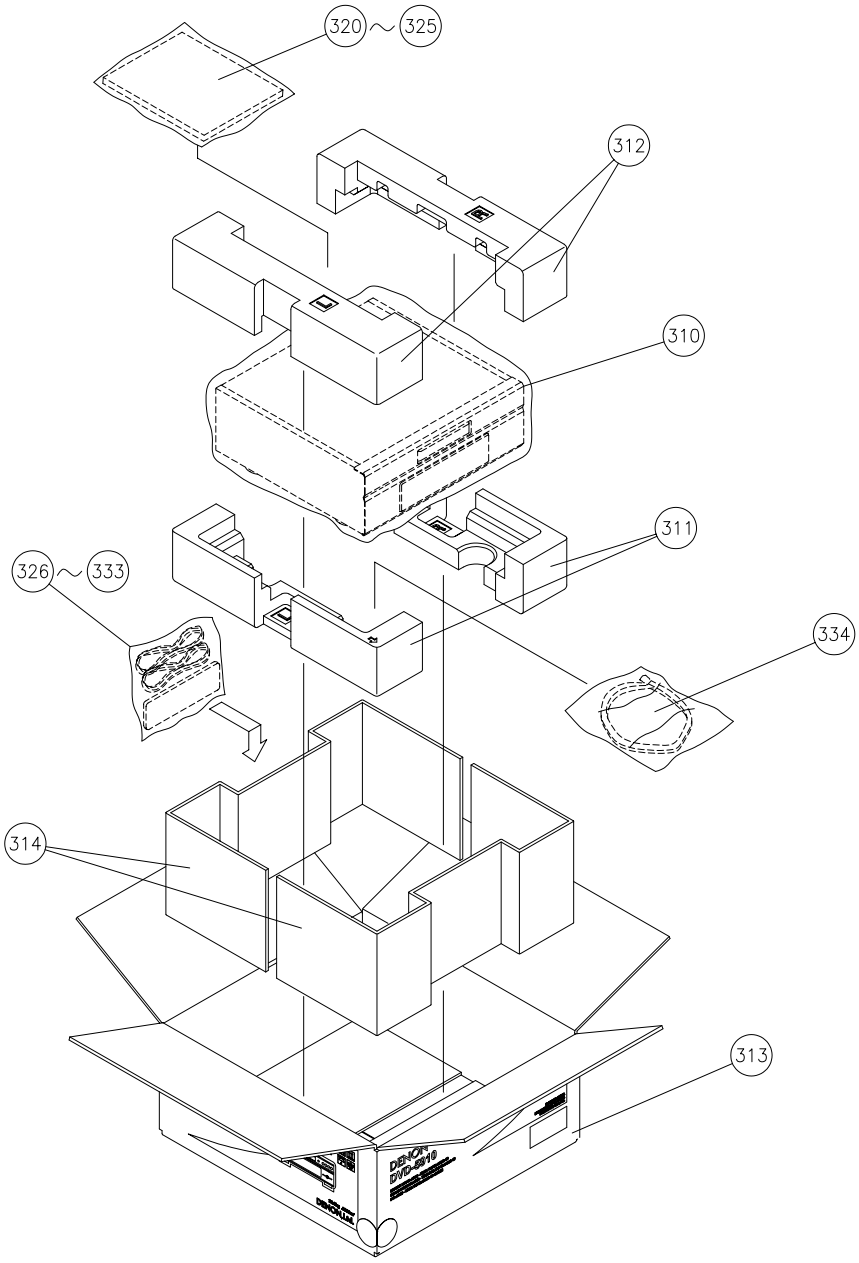
POINTS OF GREASING (1/2)



POINTS OF GREASING (2/2)



PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

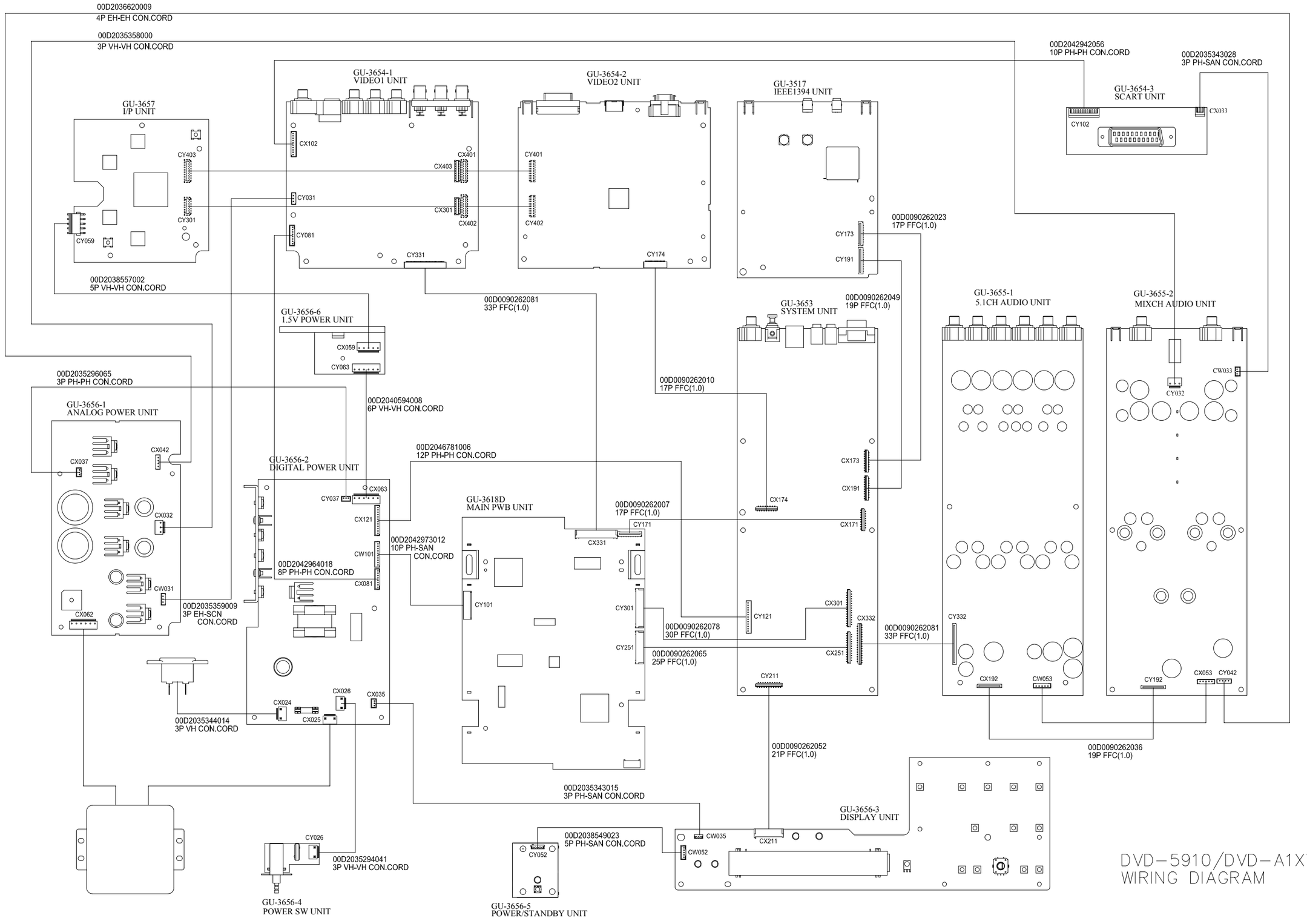
＊本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

Note:The symbols in the column "Remarks" indicate the following destinations.
E3: U.S.A. & Canada model JP: Japan model
E2: Europe model E1C : China model

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	★ 300	00D 113 1945 004	RJ45 DUST COVER		1	
	★ 301	00D 513 4045 004	DOLBY HOLOGRAM LABEL		1	
	★ 302	00D 513 4020 003	RATING SHEET(E3)	for E3	1	*
	★ 302	00D 513 4021 002	RATING SHEET(JP)	for JP	1	*
	★ 302	00D 513 4023 000	RATING SHEET(SPE2)	for E2	1	*
	★ 303	00D 513 1381 004	MANUFAC.DATE LABEL	for E3	1	
	★ 304	00D GEN 6295 -2	MANUFAC.(J)SUB ASS Y	for JP	1	
	★ 305	00D 513 1581 011	SERIAL NO. SHEET	for E1C	1	
	310	00D 505 0131 076	CABINET COVER		1	
	311	00D 503 1500 008	CUSHION(BOTTOM)		1	*

	Ref. No.	Part No.	Part Name	Remarks	Q'ty	New
	312	00D 503 1501 007	CUSHION(TOP)		1	*
	313	00D 501 2272 106	CARTON CASE(5910)	for E3	1	*
	313	00D 501 2272 119	CARTON CASE(JP)	for JP	1	*
	313	00D 501 2272 122	CARTON CASE(E2)	for E2,E1C	1	*
	314	00D 501 2273 008	SUPPORT BOARD		2	*
	320	00D 505 8006 019	ENVELOPE		1	
	321	00D 515 0944 202	WARRANTY (HOME)	for E3	1	
	322	00D 511 4257 003	INST MANUAL(E3)	for E3	1	*
	322	00D 511 4258 002	INST MANUAL(JP)	for JP	1	*
	322	00D 511 4259 001	INST MANUAL(E2)	for E2	1	*
	322	00D 511 4300 002	INST.MANUAL(E1C)	for E1C	1	*
	323	00D 511 4289 013	INST.MANUAL(E2/CDROM	for E2	1	*
	324	00D 515 0921 403	S.S.LIST(EX)	for E3,E2,E1C	1	
	325	00D 515 0918 306	SERVICE STATION LIST	for JP	1	
	326	00D 505 8006 019	ENVELOPE		1	
	327	00D 203 0701 005	1P PIN CORD(VIDEO)		1	
	328	00D 203 2405 008	2P PIN CORD		1	
	329	00D 204 2953 003	8P MODULAR CABLE	for E3,E2,E1C	1	
	329	00D 204 2920 007	8P MODULAR CABLE	for JP	1	
	330	00D 203 6597 006	4P IEEE1394 CABLE		1	
	331	00D 399 0967 001	RC-993		1	*
	332	00D 394 0051 019	BATTERY(UM-3)ASS'Y		1	*
⚠	333	00D 206 2225 009	AC CORD SET(E3) D8.5	for E3	1	
⚠	333	00D 206 2215 006	AC CORD-E1/10A/INLET	for E2	1	
⚠	333	00D 206 2189 006	AC CORD (E1C)	for E1C	1	
⚠	334	00D 206 2141 002	AC CORD W/CON&PLUG	for JP	1	
	★ 335	-	CONT.CARD(L)SUB ASSY	for E3,E2,E1C	1	
	★ 336	00D 517 1413 084	UPC LABEL	for E3	1	*
	★ 336	00D 517 1477 033	POS LABEL	for JP	1	*
	★ 336	00D 517 1484 039	E2 POS LABEL	for E2	1	*
	★ 337	00D 515 0919 101	GUARANTEE CARD(S)	for JP	1	
	★ 338	00D 513 1642 002	NO. SHEET	for JP	1	
	★ 339	00D 513 9111 030	COLOR LABEL	for E2,E1C	2	
	★ 340	00D 513 3579 018	REGION LABEL(NO.2)	for E2	2	
	★ 340	00D 513 3650 047	REGION SEAL(NO.6)	for E1C	1	
	★ 341	00D 513 4050 002	CARTON LABEL(C)	for E1C	1	*

WIRING DIAGRAM



MEASURING METHOD AND WAVEFORMS

To check the waveforms on the Main P.W.B., the GND (–)probe of the oscilloscope to “Vref” point.
(Except for Inner SW, TRVSW)

NOTES

Measuring Disc: DVD/DVDT-S01 or TDV-520A
CD/TCD-784

(It is better to use wires for extending between the probe and test points.)

- When watching the HF waveform, use the extending wire as short as possible.
- When HF waveform is noisy or cannot discriminate the eye-pattern, replace the Traverse Unit after measuring the Iop.
- ① ~ ⑰ points have the certain test points shown below.

各部の波形と測定方法

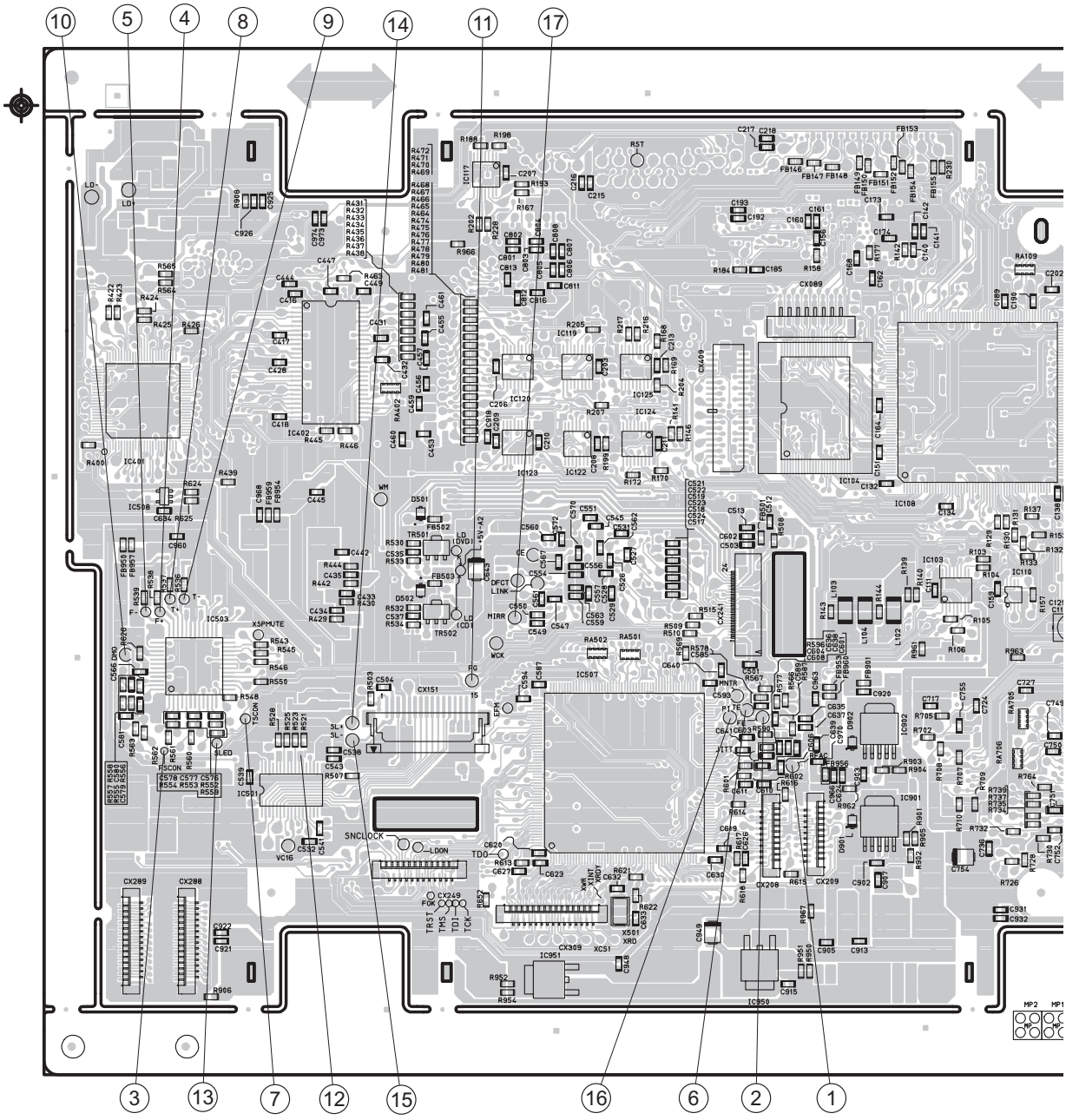
メイン基板の波形チェックを行うためにはオシロスコープの GND(–) プローブを "Vref" ポイントに接続します。

注　意

測定ディスク：　DVD/DVDT-S01 or TDV-520A
CD/TCD-784

（テストポイントとプローブ間に延長ワイヤを使用するのがより良い方法です。）

- ・ＨＦ 波形を観測する場合、できるだけ短い延長ワイヤを使用してください。
- ・ＨＦ 波形がノイズで不明瞭、またはアイパターンが識別不能の場合は Iop 測定後にトラバースユニットを交換してください。
- ・ポイント①～⑰は、下図のように特定テストポイント付きです。



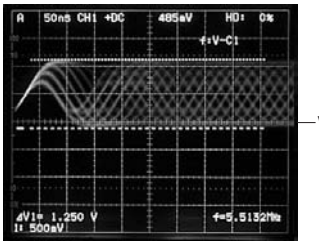
GU-3618 Main P.W.B. Unit Foil Side

WAVEFORMS

● GU-3618 MAIN P.W.B.

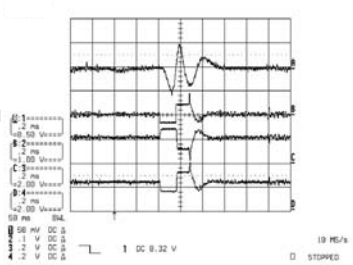
DVD PLAY Disc: TDV-520A

①RFAC — VC16



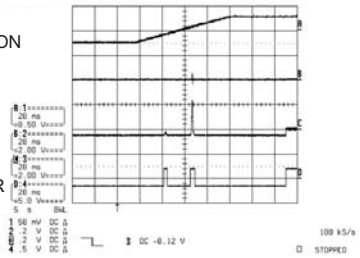
CD PLAY

⑥TE
⑦TSCON
⑧T+
⑨T−



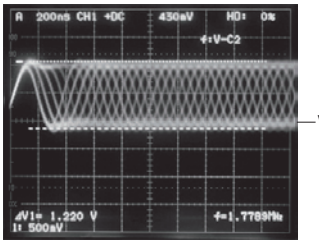
DISC DETECT (CD)

③FSCON
②FE
⑯PI
⑰MIRR



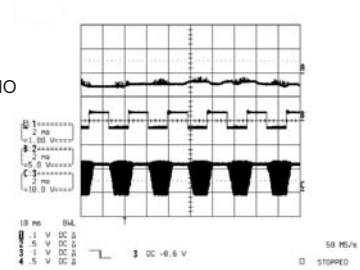
CD PLAY Disc: TCD-784

①RFAC — VC16



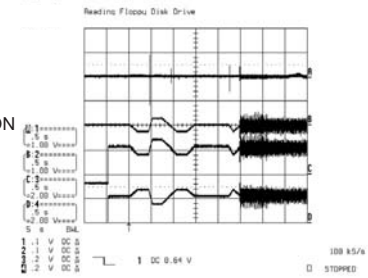
DVD PLAY (INNER)

⑩DMO
⑪FG
⑫A3



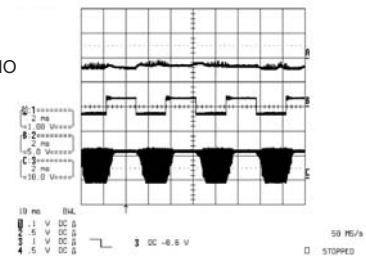
DVD LOADING ⟶ PLAY

②FE
③FSCON
④F+
⑤F−



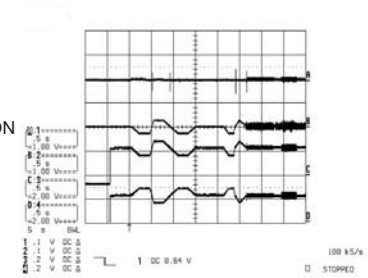
CD PLAY (INNER)

⑩DMO
⑪FG
⑫A3



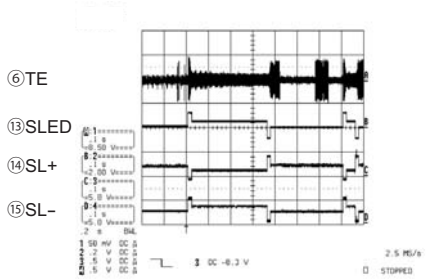
CD LOADING ⟶ PLAY

②FE
③FSCON
④F+
⑤F−



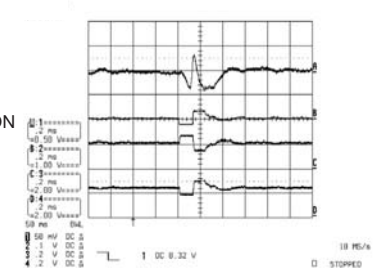
SEARCH TO OUTER CHAPTER (INNER→ OUTER)

⑥TE
⑬SLED
⑭SL+
⑮SL−



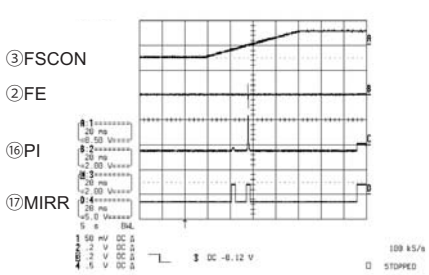
DVD PLAY

⑥TE
⑦TSCON
⑧T+
⑨T−



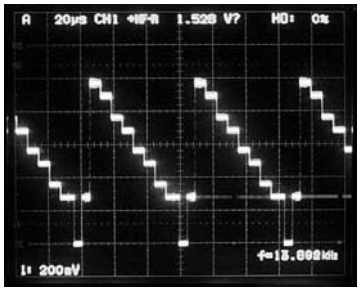
DISC DETECT (DVD)

③FSCON
②FE
⑯PI
⑰MIRR

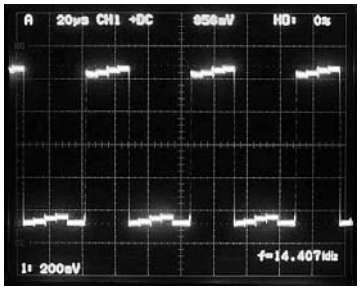


● GU-3654-1 VIDEO P.W.B.

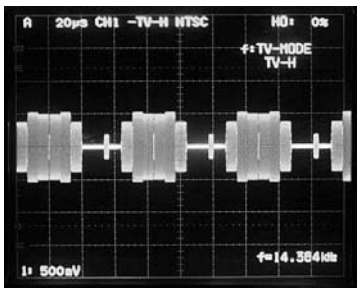
V1



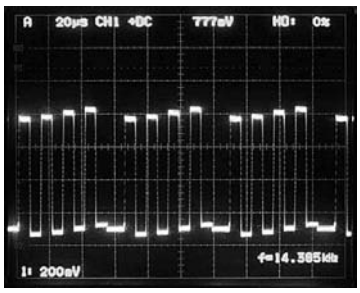
V6



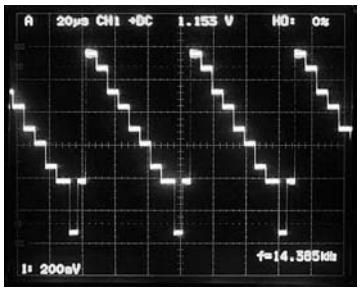
V2



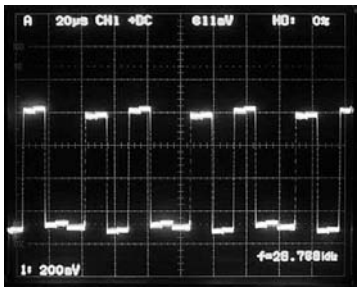
V7



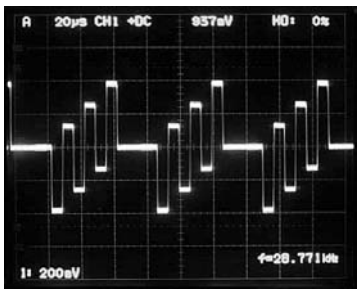
V3



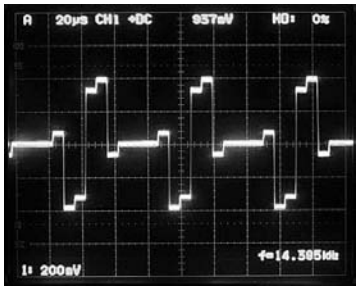
V8



V4



V5



NOTE FOR SCHEMATIC DIAGRAM

WARNING:
Parts marked with this symbol ⚠ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

NOTICE:
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM
M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD.
P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

SIGNAL LINE

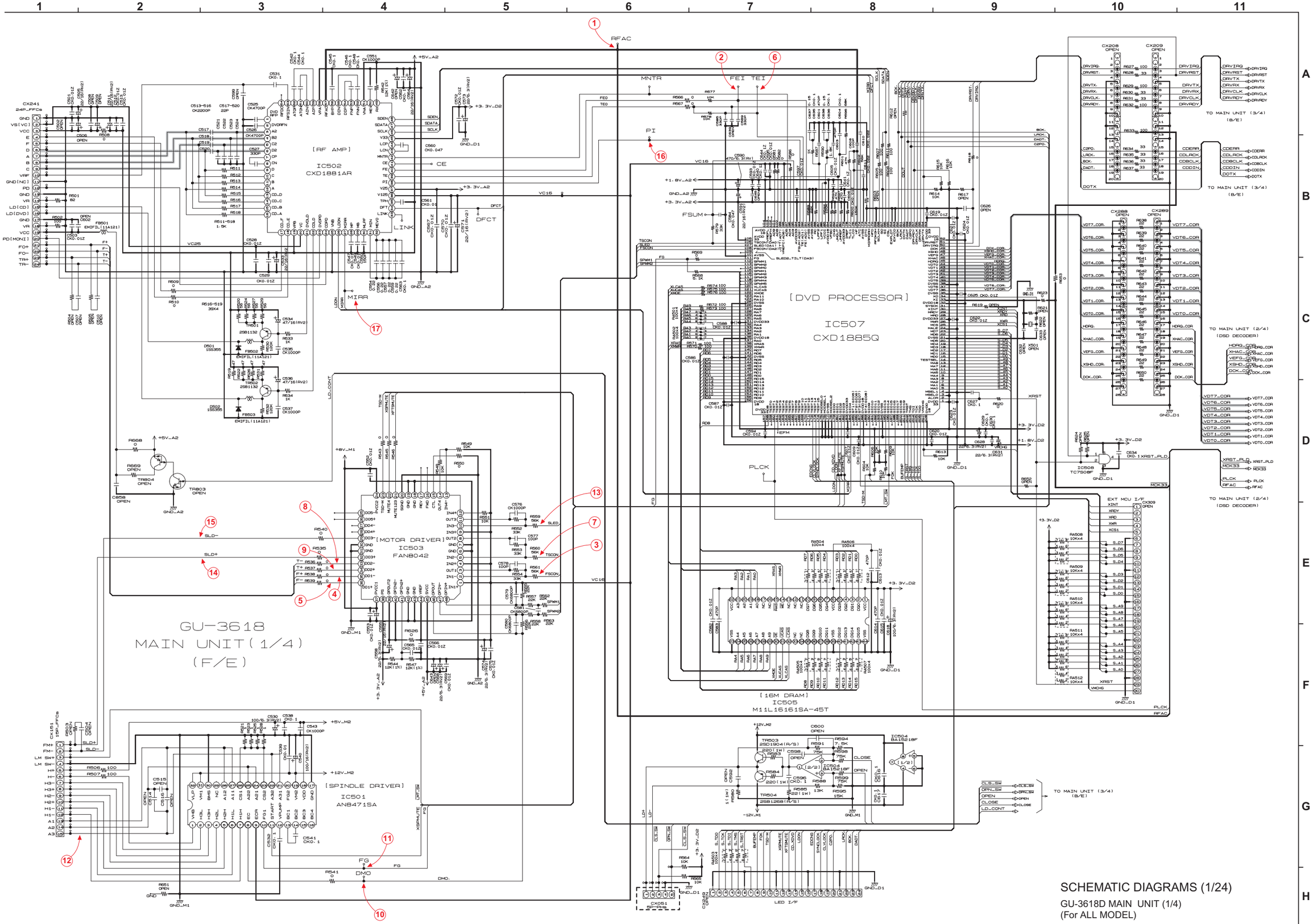
配線図について

⚠ 印の部品は安全を維持するために重要な部品です。
従って交換時は必ず指定の部品を使用してください。

注)
(1) 指定なき抵抗値は Ω、k は kΩ、M は MΩ を示す。
(2) 指定なきコンデンサーの値は μF、p は pF を示す。
(3) 各部の電圧は無信号の値を示す。
(4) この配線図は基本配線図です。改良等のため変更することがありますのでご了承ください。

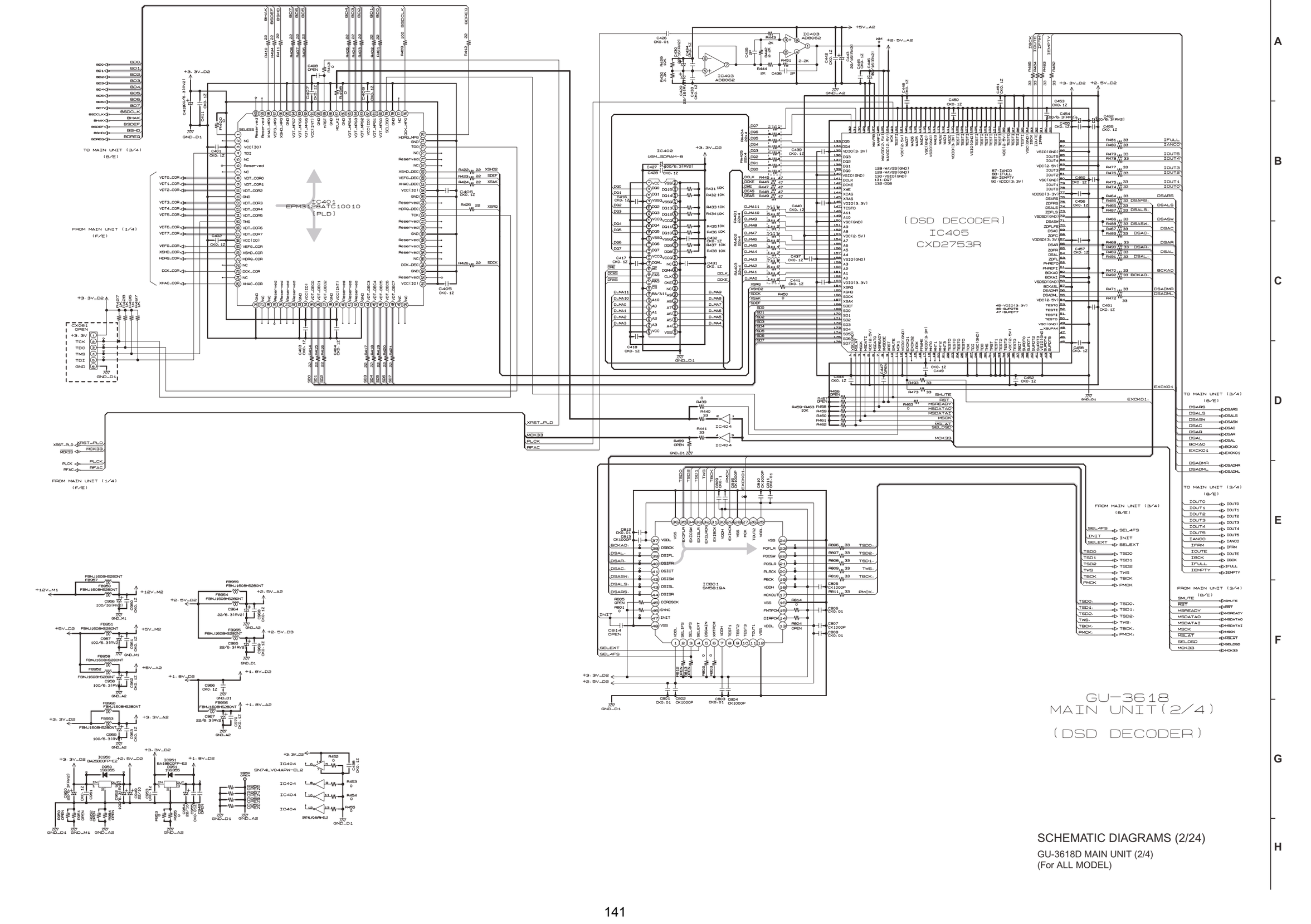
SIGNAL LINE

SCHEMATIC DIAGRAMS (1/24) GU-3618D MAIN UNIT(1/4)



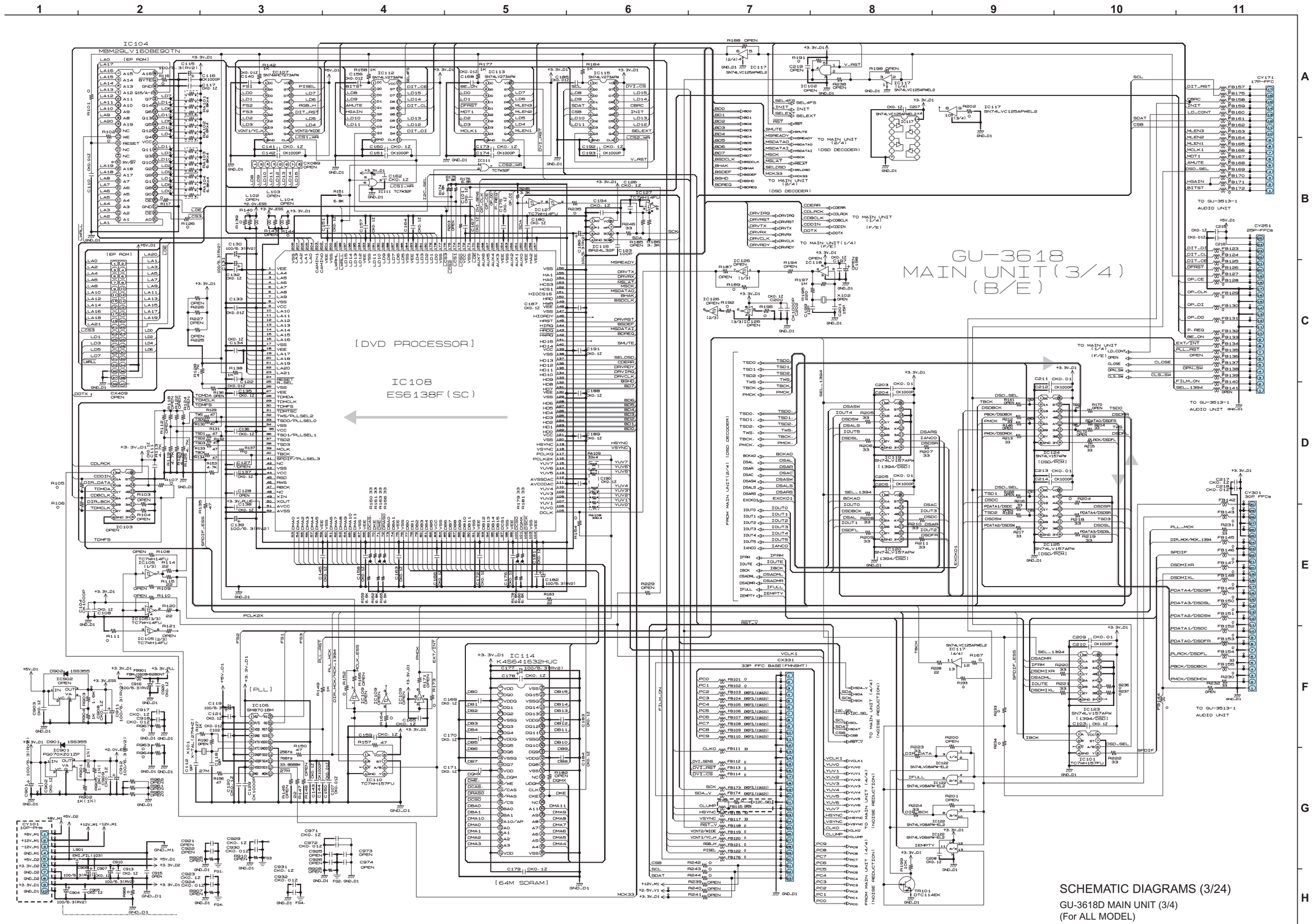
SCHEMATIC DIAGRAMS (1/24)

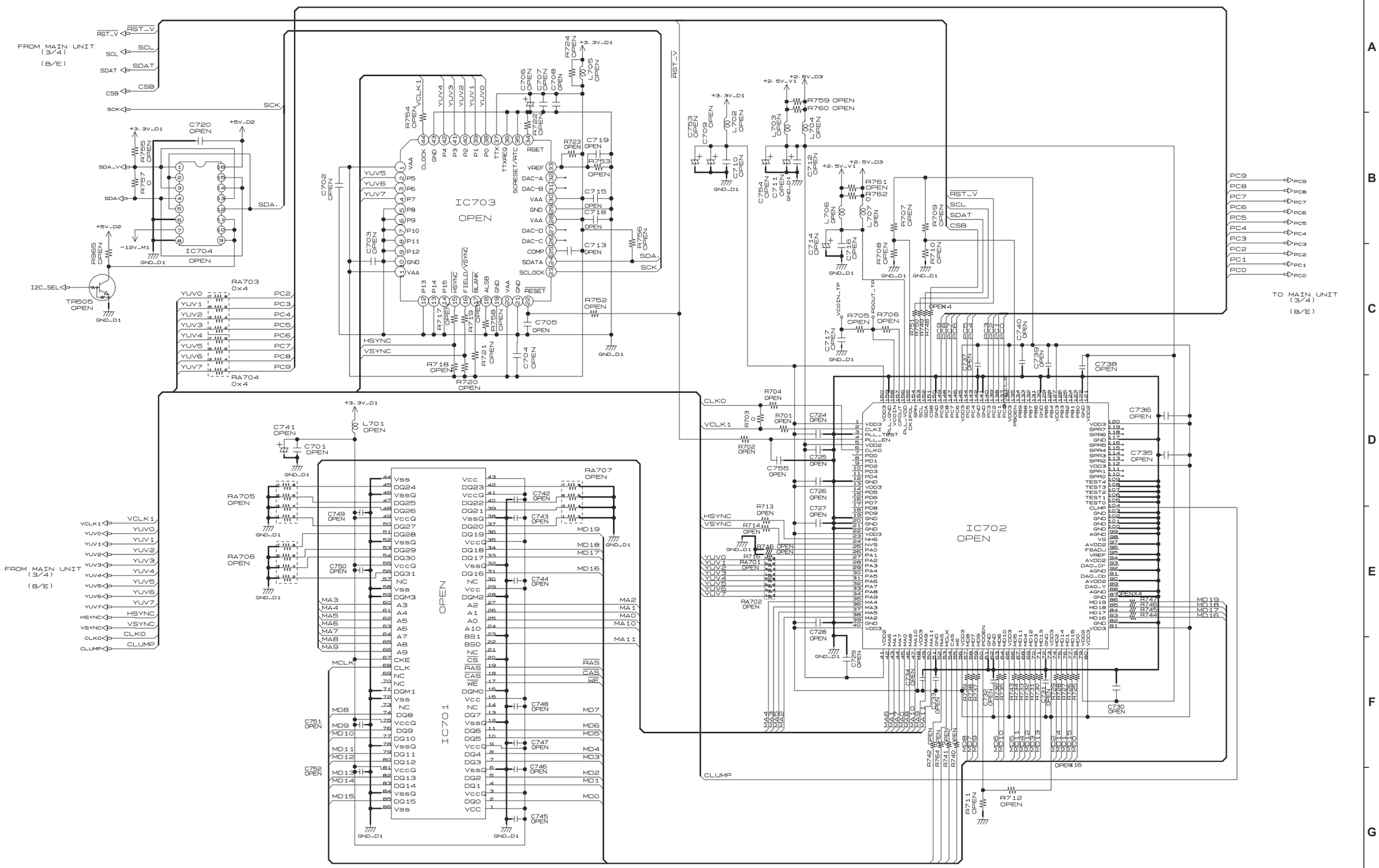
GU-3618D MAIN UNIT (1/4)
(For ALL MODEL)



SCHEMATIC DIAGRAMS (2/24)

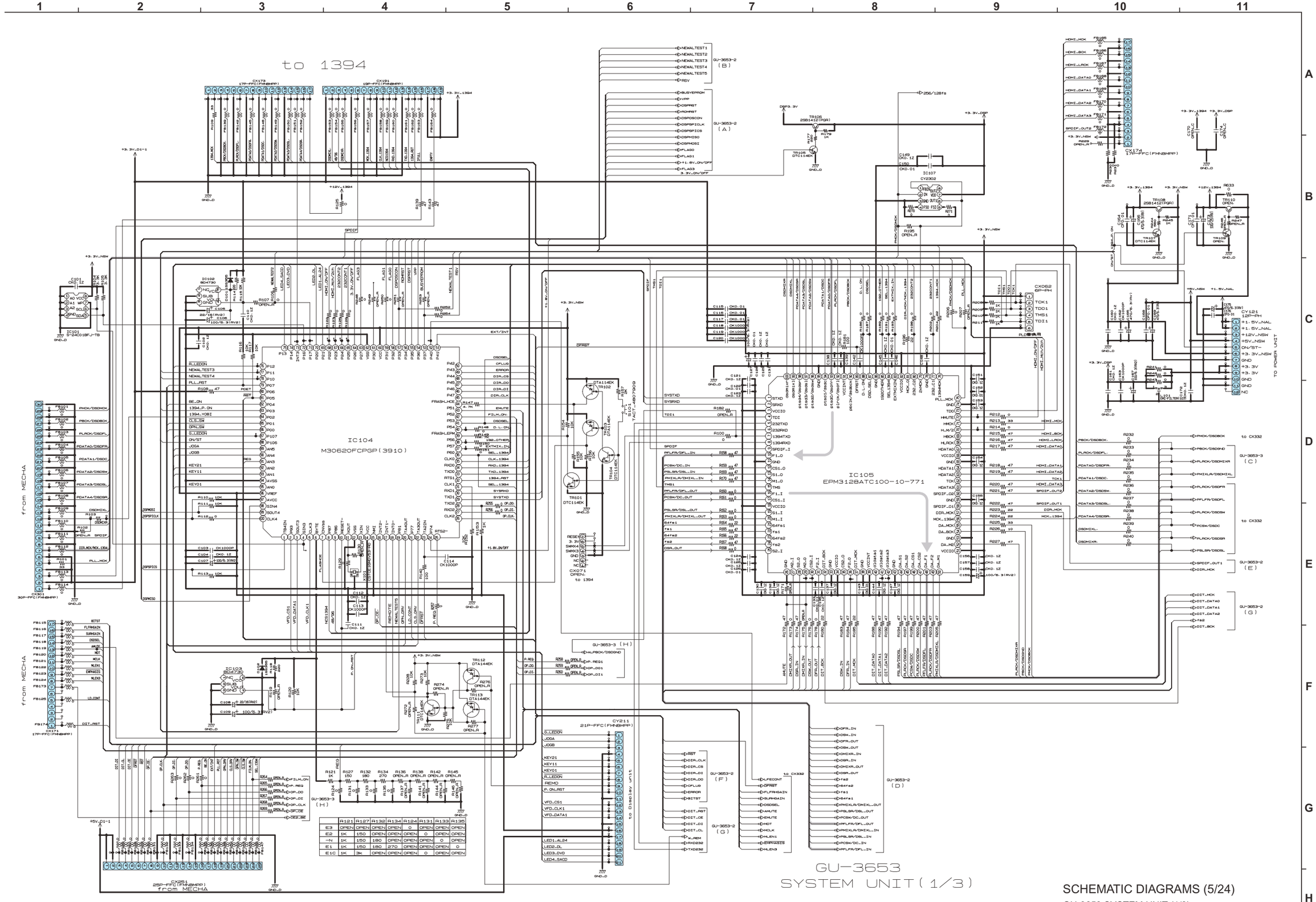
GU-3618D MAIN UNIT (2/4)
(For ALL MODEL)


GU-3618
MAIN UNIT(3/4)
(B/E)
[DVD PROCESSOR]
IC108
ES6138F(SC)
[PLL]
[64M SDRAM]
IC104
MBM29LV160BE90TN
IC114
K4S641632HUC
SCHEMATIC DIAGRAMS (3/24)
GU-3618D MAIN UNIT (3/4)
(For ALL MODEL)



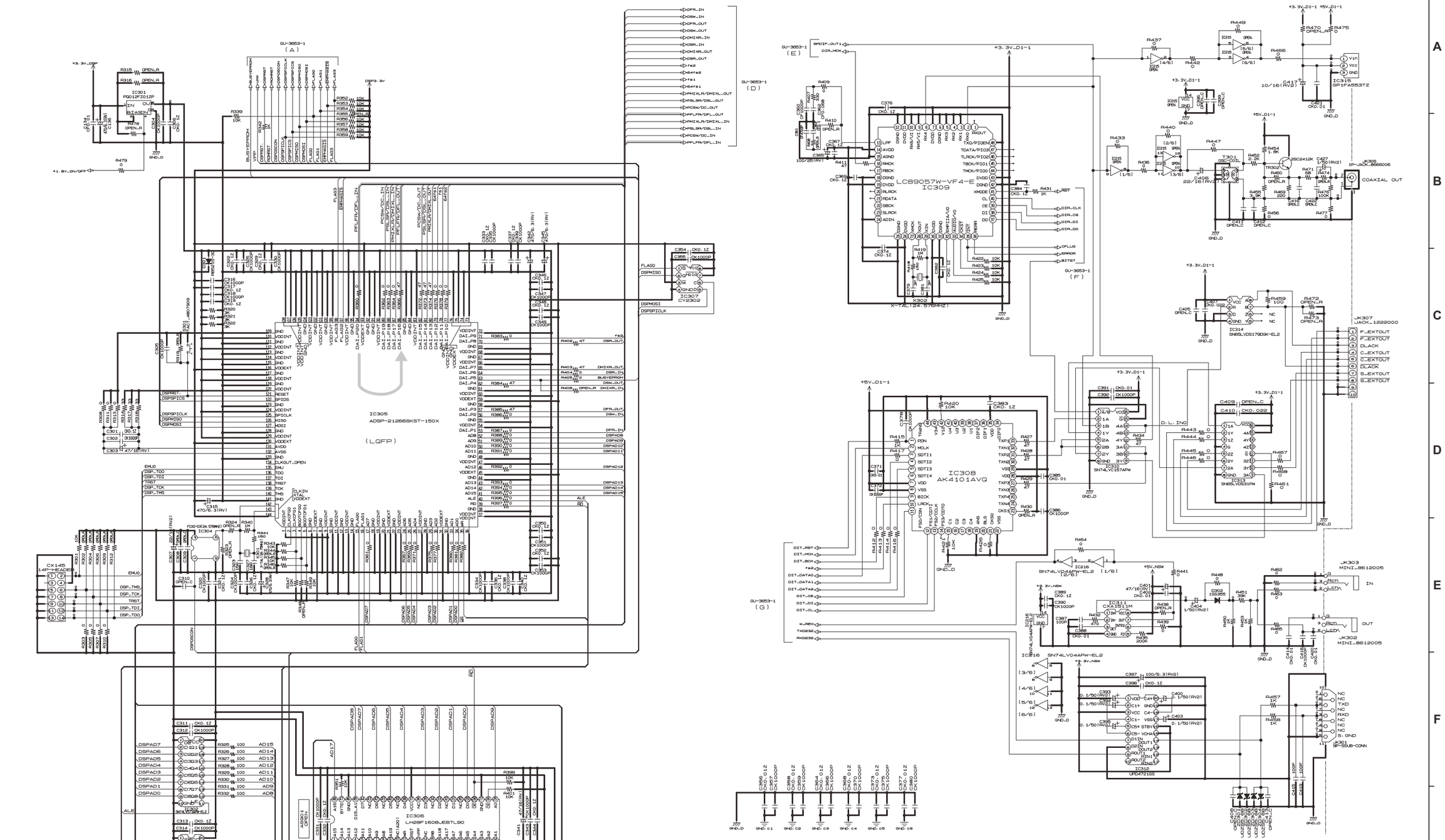
GU-3618
MAIN UNIT(4/4)
(NOISE REDUCTION)

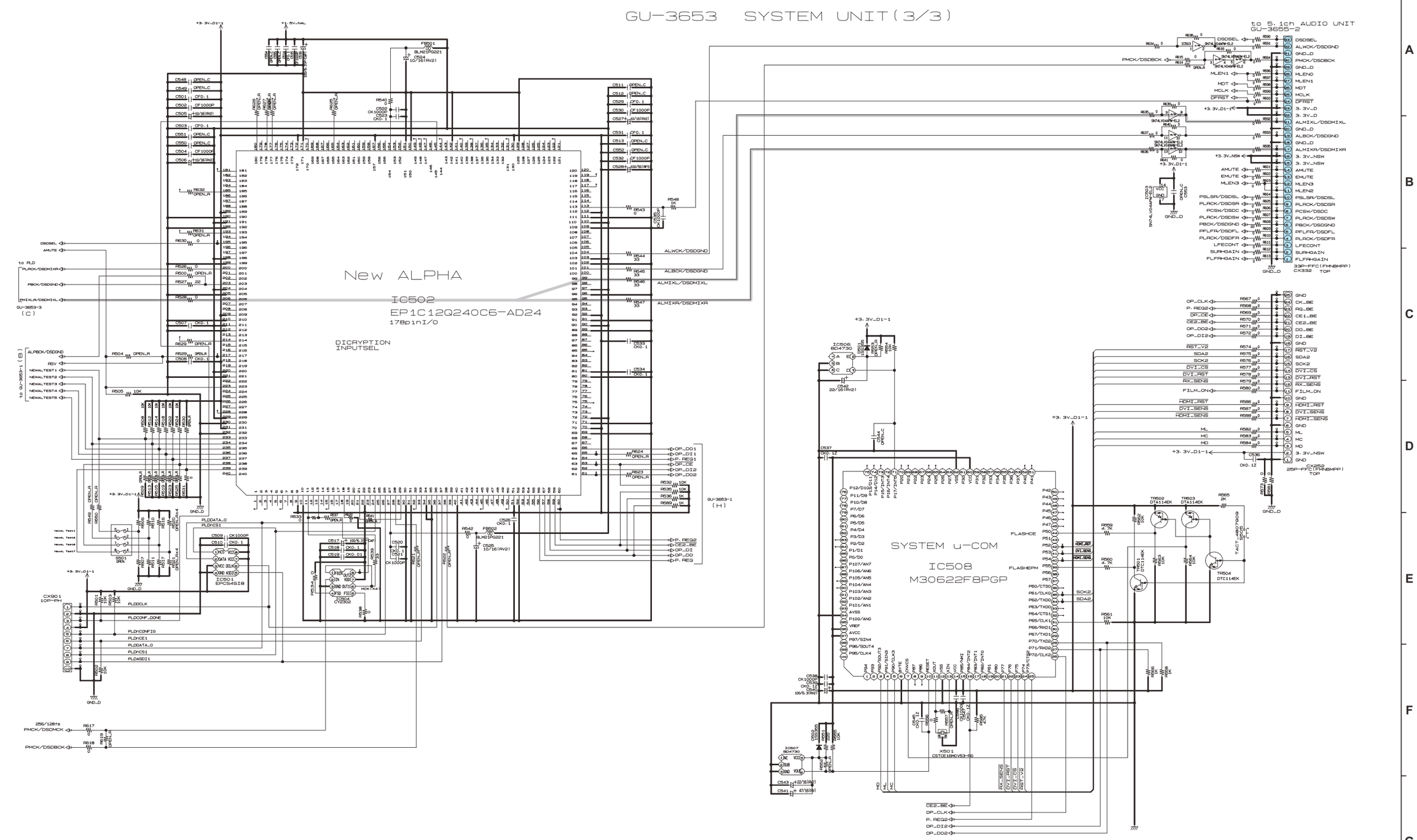
SCHEMATIC DIAGRAMS (4/24)
GU-3618D MAIN UNIT (4/4)
(For ALL MODEL)



SCHEMATIC DIAGRAMS (5/24)

GU-3653 SYSTEM UNIT (1/3)
(for E3 MODEL)


GU-3653-1 (A)
GU-3653-1 (D)
GU-3653-1 (E)
GU-3653-1 (F)
GU-3653-1 (G)
IC305 ADSP-21266KST-150X (LQFP)
IC307 CY2302
IC308 AK4101AVQ
IC309 LC89057W-VF4-E
IC310 SN74LVC157APW
IC311 CXA2551M
IC312 UPD47108
IC313 SN65LVDS31PW
IC314 SN65LVDS179DGK-EL2
IC315 GP1FA553TZ
IC316 SN74LVC04APW-EL2
IC304 FDD3224-579M2
IC306 LH28F160BJEBTL90
X302 X-TAL(24.576MHZ)
TR301
TR302
TR303
JK301 9P-SUB-CONN
JK302 MINI_8612005
JK303 MINI_8612005
JK306 1P_JACK_8666006
JK307 JACK_1222000
COAXIAL OUT
GU-3653 SYSTEM UNIT(2/3)



SCHEMATIC DIAGRAMS (7/24)

GU-3653 SYSTEM UNIT (3/3)
(for E3 MODEL)

GU-3654-1 (1/2)
VIDEO PWB UNIT
[COMPONENT Block]

to GU-3618 [MAIN PWB] sheet 3/4

to [I/F Block]

to GU-3657-1 [I/P Block]

to [V/YC/SCART BLOCK]

JAPAN MODEL ONLY

[CLAMP_PROGRESSIVE]

[CLAMP_INTERLACE]

[VIDEO ENCODER]

IC201 ADV7314

IC107 SN74LVC245APW

IC102 SN74LVC245APW

IC101 SN74LVC245APW

IC106 SN74LVC157APW

IC108 BA2558CGFP-E2

IC103 TC74HC123AF

IC104 TC74HC123AF

IC105 TC4W53F

[Yp/Y] [Pb/Cb] [Pr/Cr]

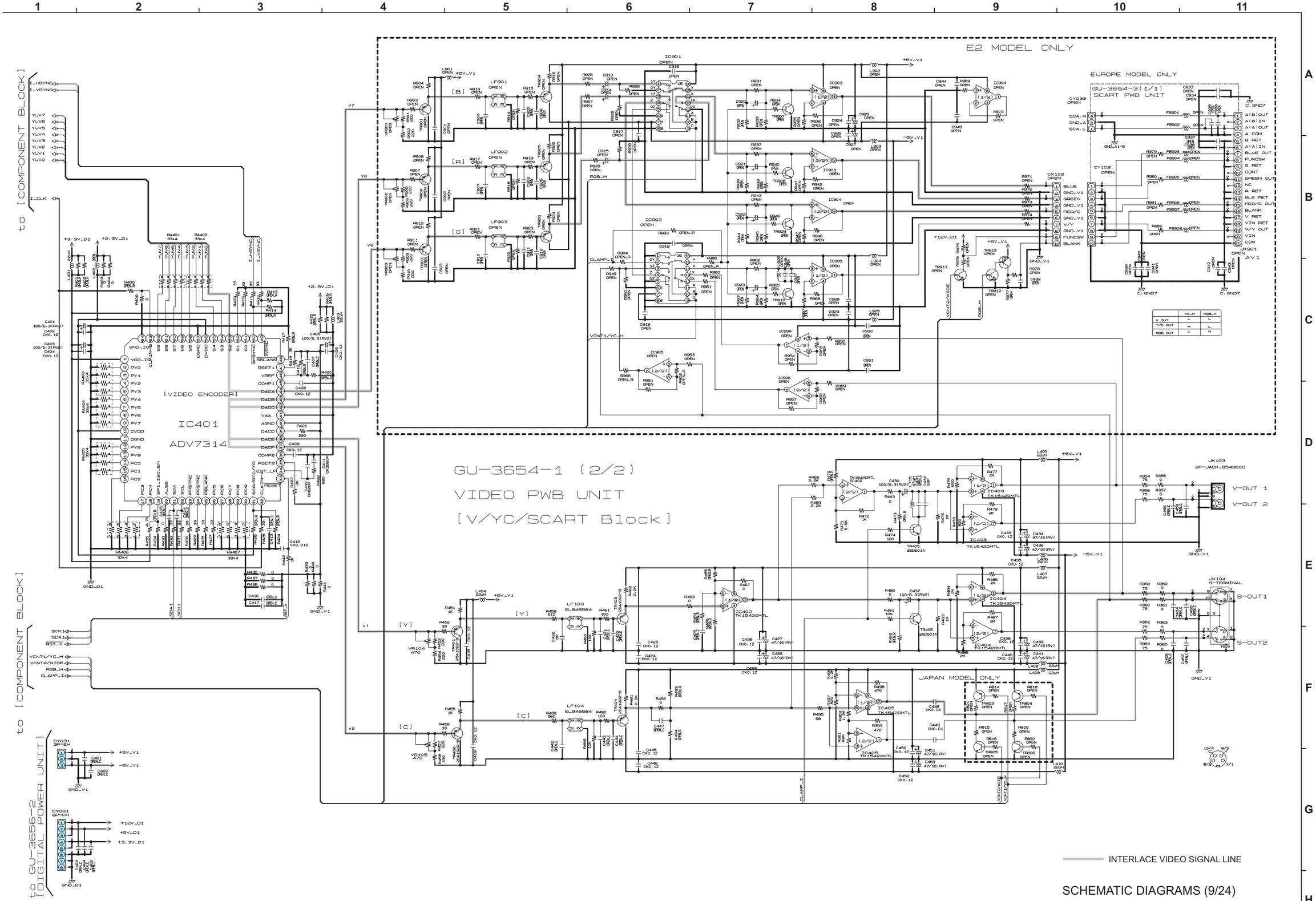
PROGRESSIVE VIDEO SIGNAL LINE

INTERLACE VIDEO SIGNAL LINE

SCHEMATIC DIAGRAMS (8/24)

GU-3654 VIDEO UNIT (1/5)
GU-3654-1 VIDEO1 UNIT (1/3)
(for E3 MODEL)

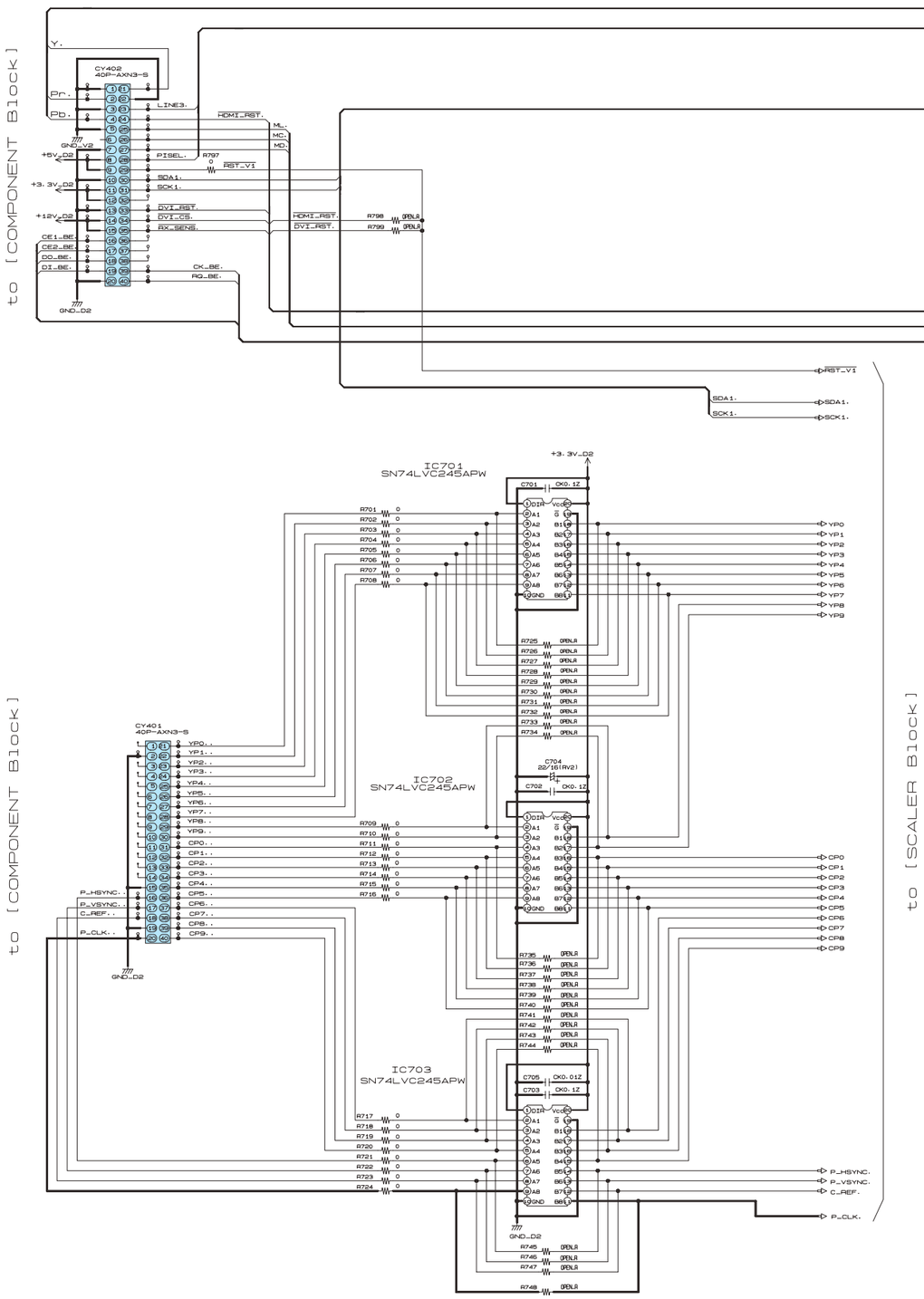
SCHEMATIC DIAGRAMS (9/24) GU-3654 VIDEO UNIT (2/5) for E3 MODEL

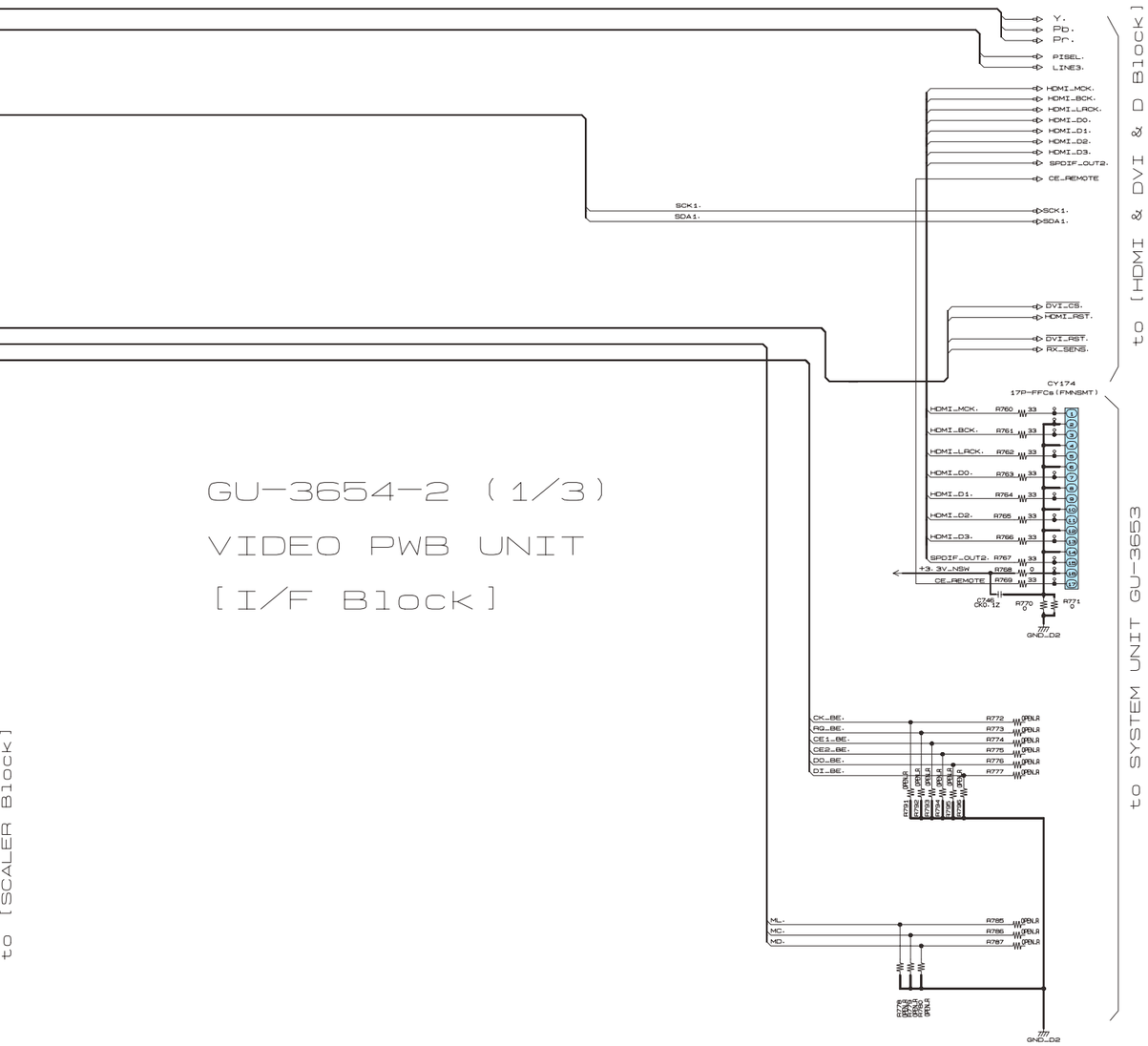


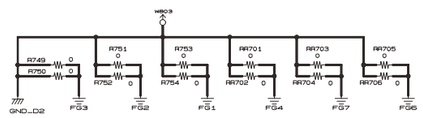
SCHEMATIC DIAGRAMS (9/24)

GU-3654 VIDEO UNIT (2/5)
GU-3654-1 VIDEO1 UNIT (2/2)
(for E3 MODEL)

GU-3654-2 (1/3)
VIDEO PWB UNIT
[I/F Block]



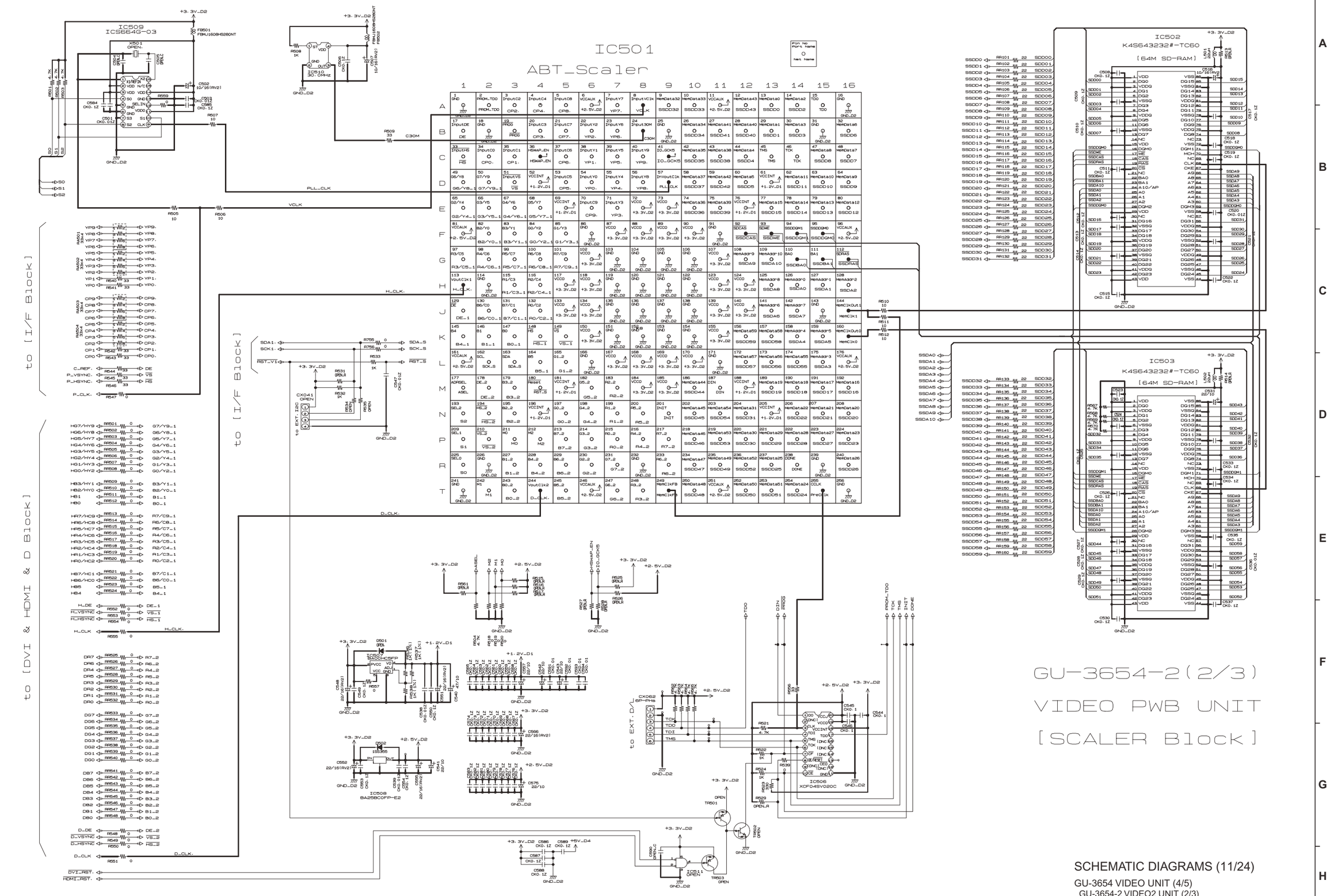




SCHEMATIC DIAGRAMS (10/24)

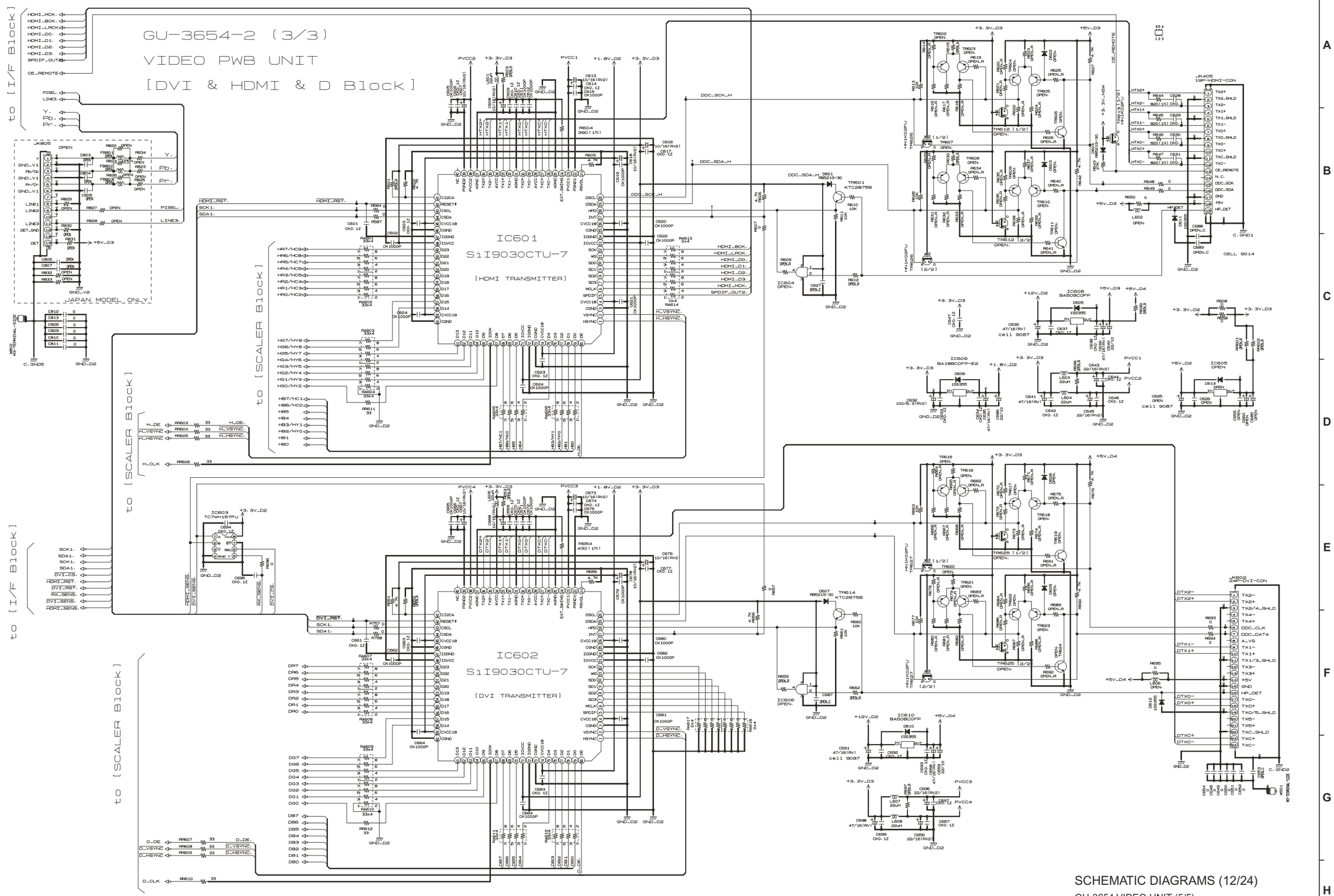
GU-3654 VIDEO UNIT (3/5)
GU-3654-2 VIDEO2 UNIT (1/3)
(for E3 MODEL)

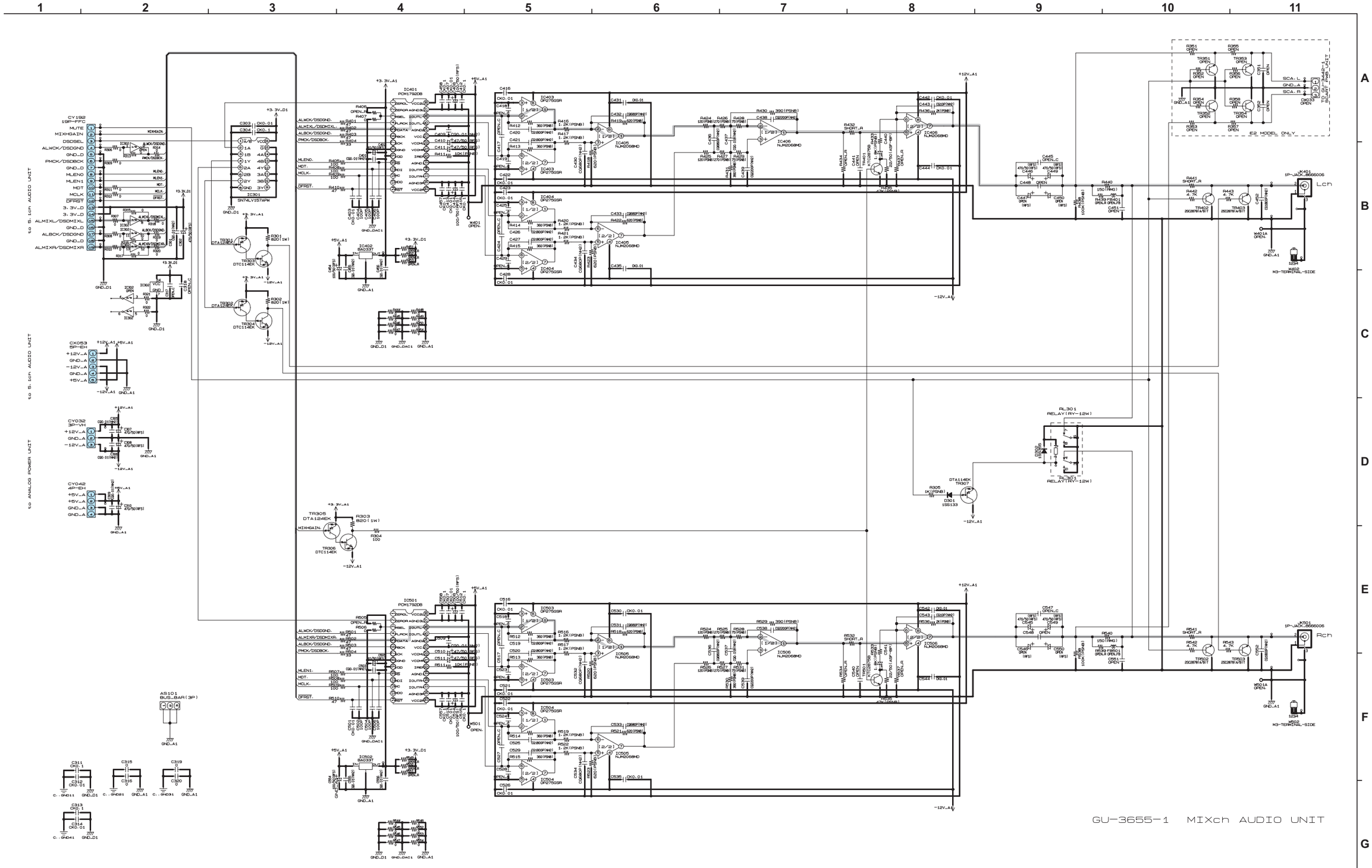
SCHEMATIC DIAGRAMS (11/24) GU-3654 VIDEO UNIT (4/5) for E3 MODEL

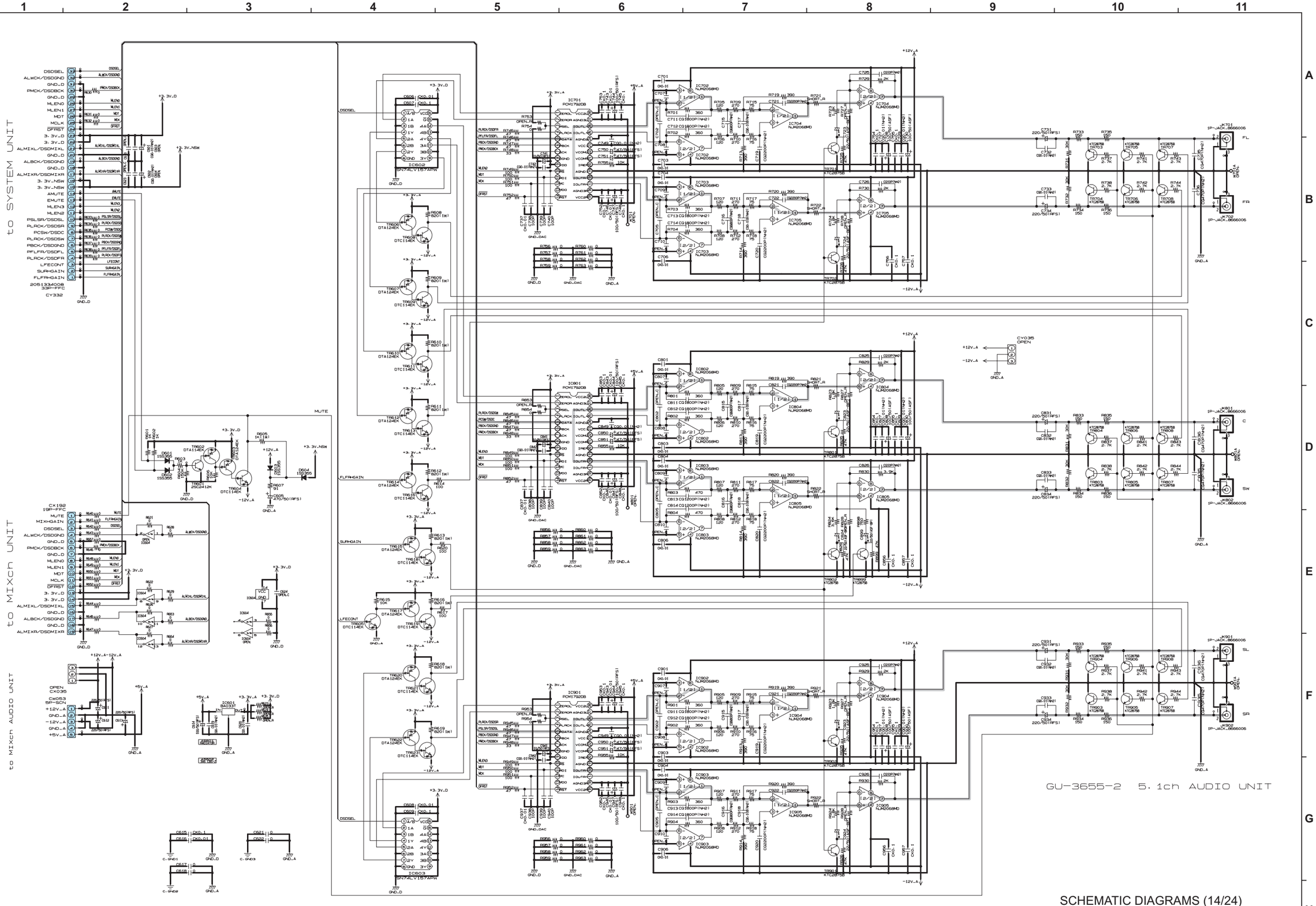


SCHEMATIC DIAGRAMS (11/24)

GU-3654 VIDEO UNIT (4/5)
GU-3654-2 VIDEO2 UNIT (2/3)
(for E3 MODEL)


GU-3654-2 (3/3)
VIDEO PWB UNIT
[DVI & HDMI & D Block]
to [I/F Block]
to [SCALER Block]
IC601
SiI9030CTU-7
[HDMI TRANSMITTER]
IC602
SiI9030CTU-7
[DVI TRANSMITTER]
JAPAN MODEL ONLY
CELL 9014
CELL 9087
SCHEMATIC DIAGRAMS (12/24)
GU-3654 VIDEO UNIT (5/5)
GU-3654-2 VIDEO2 UNIT (3/3)
(for E3 MODEL)


1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H
GU-3655-1 MIXch AUDIO UNIT
E2 MODEL ONLY
SCHEMATIC DIAGRAMS (13/24)
GU-3655 AUDIO UNIT (1/2)
GU-3655-1 MIXch AUDIO UNIT
(for E3 MODEL)



SCHEMATIC DIAGRAMS (14/24)

GU-3655 AUDIO UNIT (2/2)
GU-3655-2 5.1ch AUDIO UNIT
(for E3 MODEL)

GU-3656-2
DIGITAL POWER UNIT

	DVD-5910 E2	DVD-5910 E3/N
IC901	TOP246Y	TOP247Y
C908	100/400(KMG)	220/200(KMG)
F901	1.6A	2A(237002)
T901	SW TRANS(230)	SW TRANS(100/120)

GU-3656-4
P. SW UNIT

DIGITAL_POWER_UNIT

GU-3656-1
ANALOG POWER UNIT

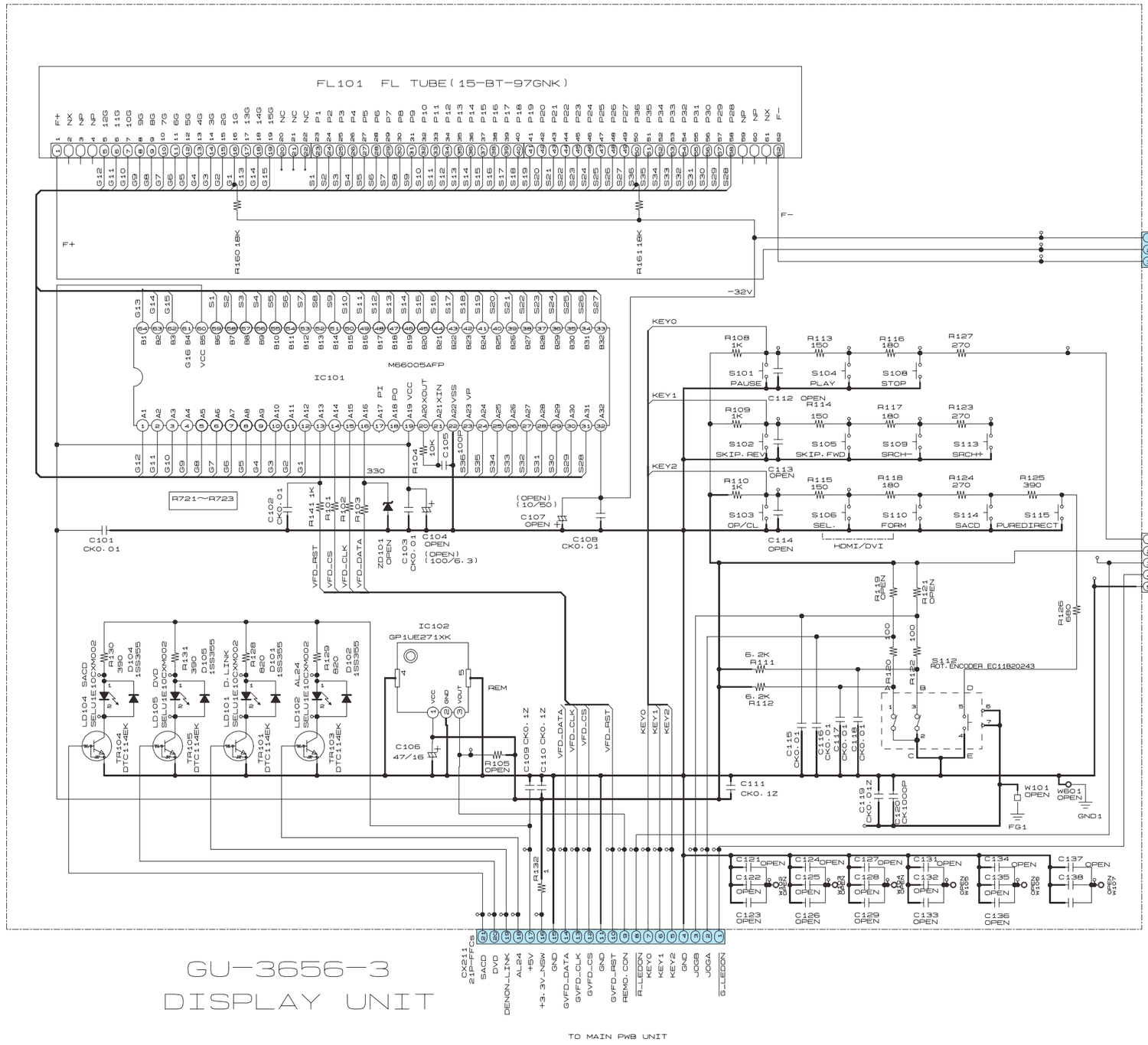
GU-3656-6
1.5V POWER UNIT

	PART. No.
DVD5910KE3	233 6456 xxx
DVDALL**E2	233 6457 xxx
DVDALL-N	233 0664 xxx

SCHEMATIC DIAGRAMS (15/24)

GU-3656 POWER/DISPLAY UNIT (1/2)
- GU-3656-1 ANALOG POWER UNIT
- GU-3656-2 DIGITAL POWER UNIT
- GU-3656-4 POWER SW UNIT
- GU-3656-6 1.5V POWER UNIT

(for E3 MODEL)



GU-3656-3
DISPLAY UNIT

GU-3656-5
POWER/STANDBY UNIT

SCHEMATIC DIAGRAMS (16/24)

GU-3656 POWER/DISPLAY UNIT (2/2)
GU-3656-3 DISPLAY UNIT
GU-3656-5 POWER/STANDBY UNIT
(for E3 MODEL)

GU-3657-1(1/2)
I/P PWB
[I/P - Si Block]

IC101 SXT2-100 (Top View)

to GU-3654-1(1/2) [PROGRESSIVE Block]

to JIGU PWB

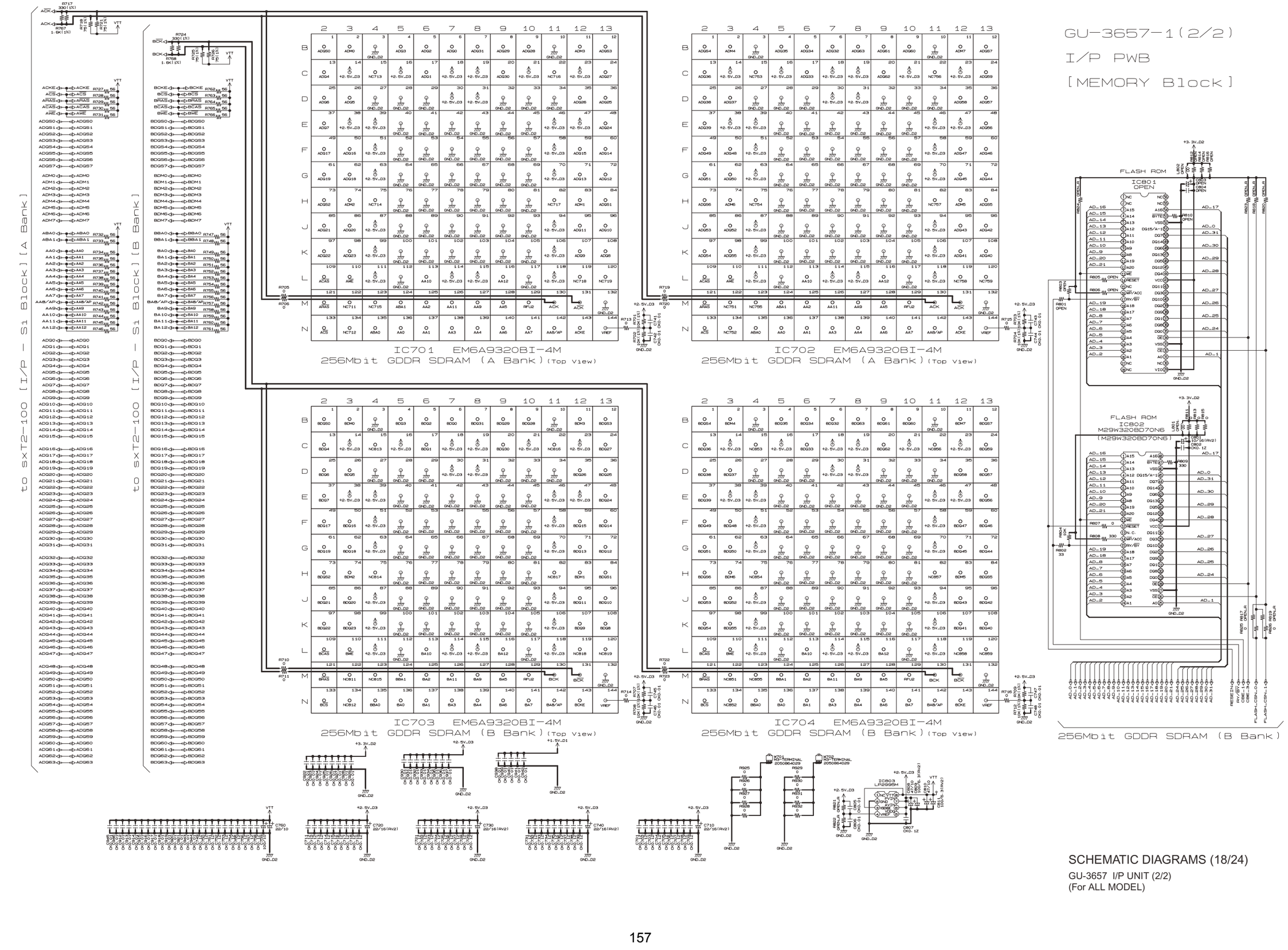
to DDR SDRAM [MEMORY A Bank Block]

to DDR SDRAM [MEMORY B Bank Block]

to FLASH ROM [MEMORY Block]

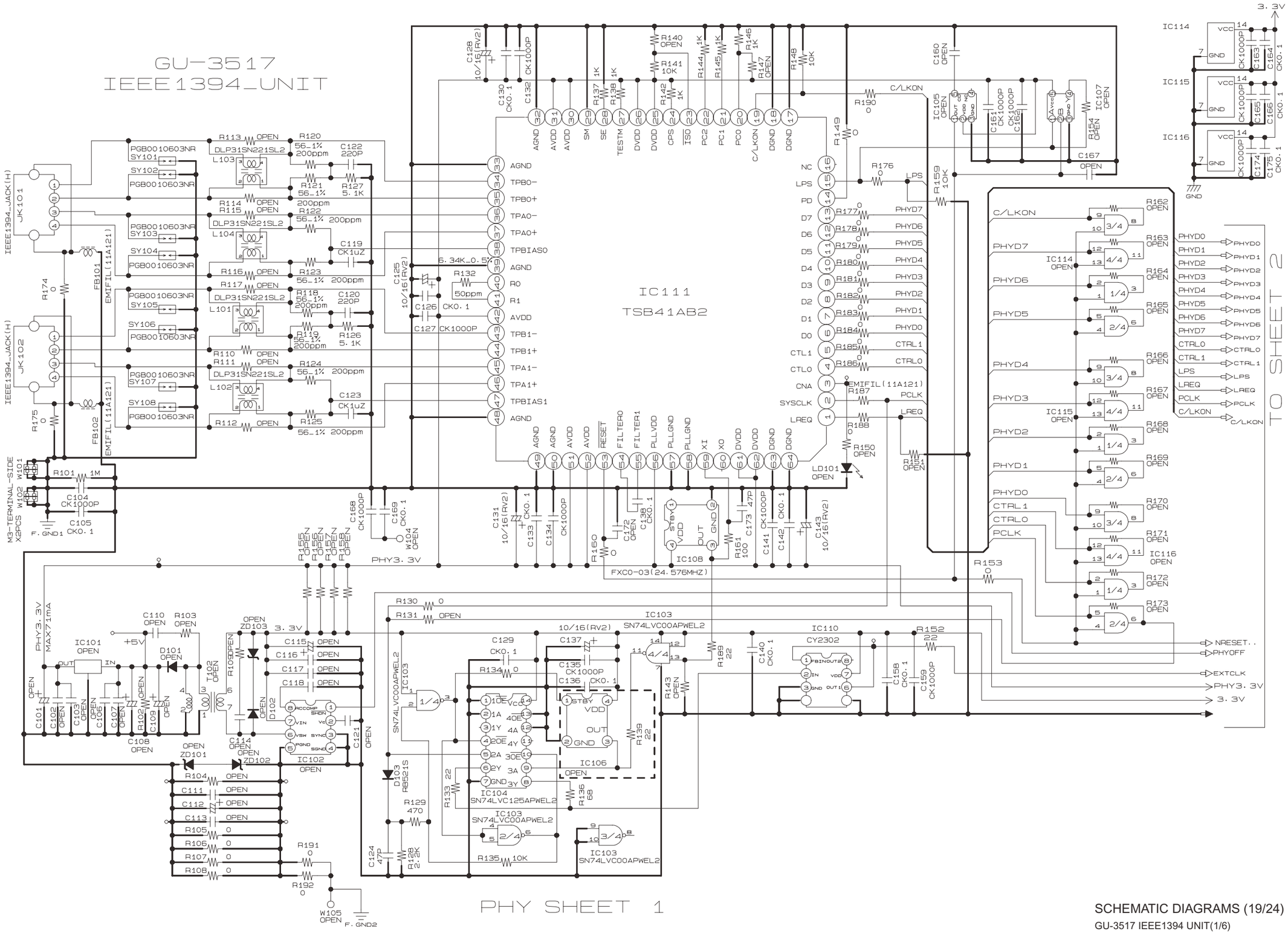
SCHEMATIC DIAGRAMS (17/24)

GU-3657 I/P UNIT (1/2)
(for ALL MODEL)



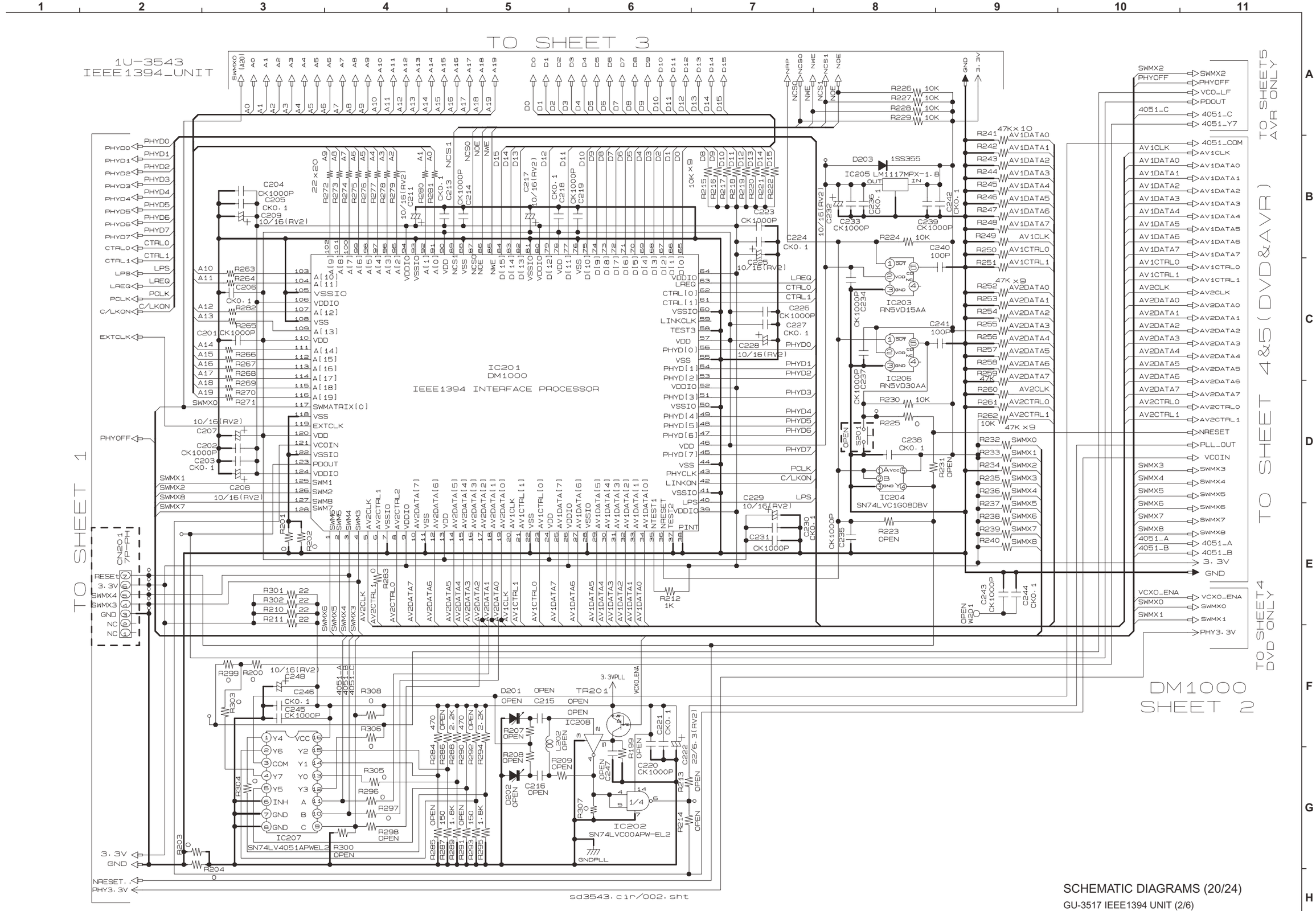
SCHEMATIC DIAGRAMS (18/24)

GU-3657 I/P UNIT (2/2)
(For ALL MODEL)



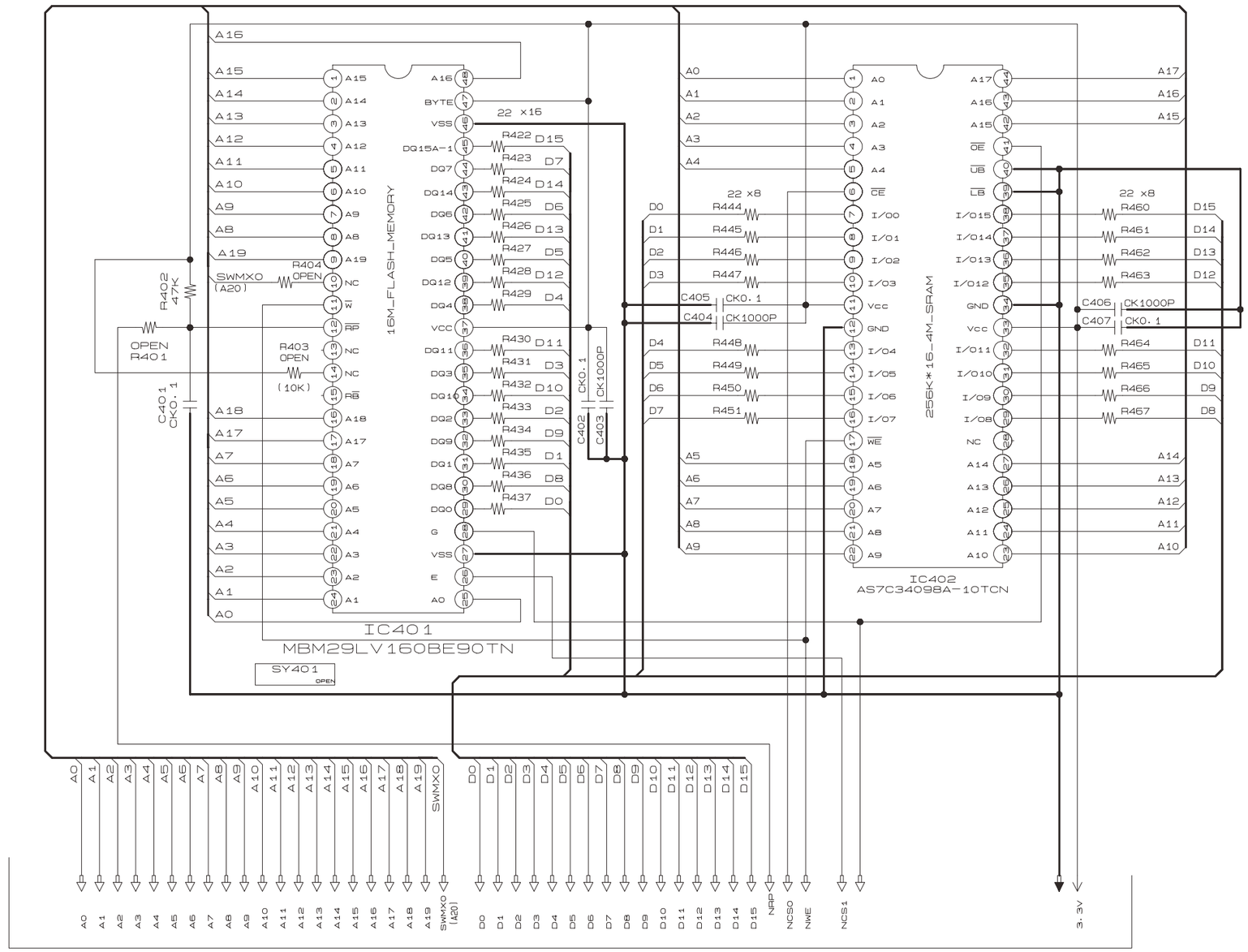
SCHEMATIC DIAGRAMS (19/24)

GU-3517 IEEE1394 UNIT(1/6)
(For ALL MODEL)



SCHEMATIC DIAGRAMS (20/24)

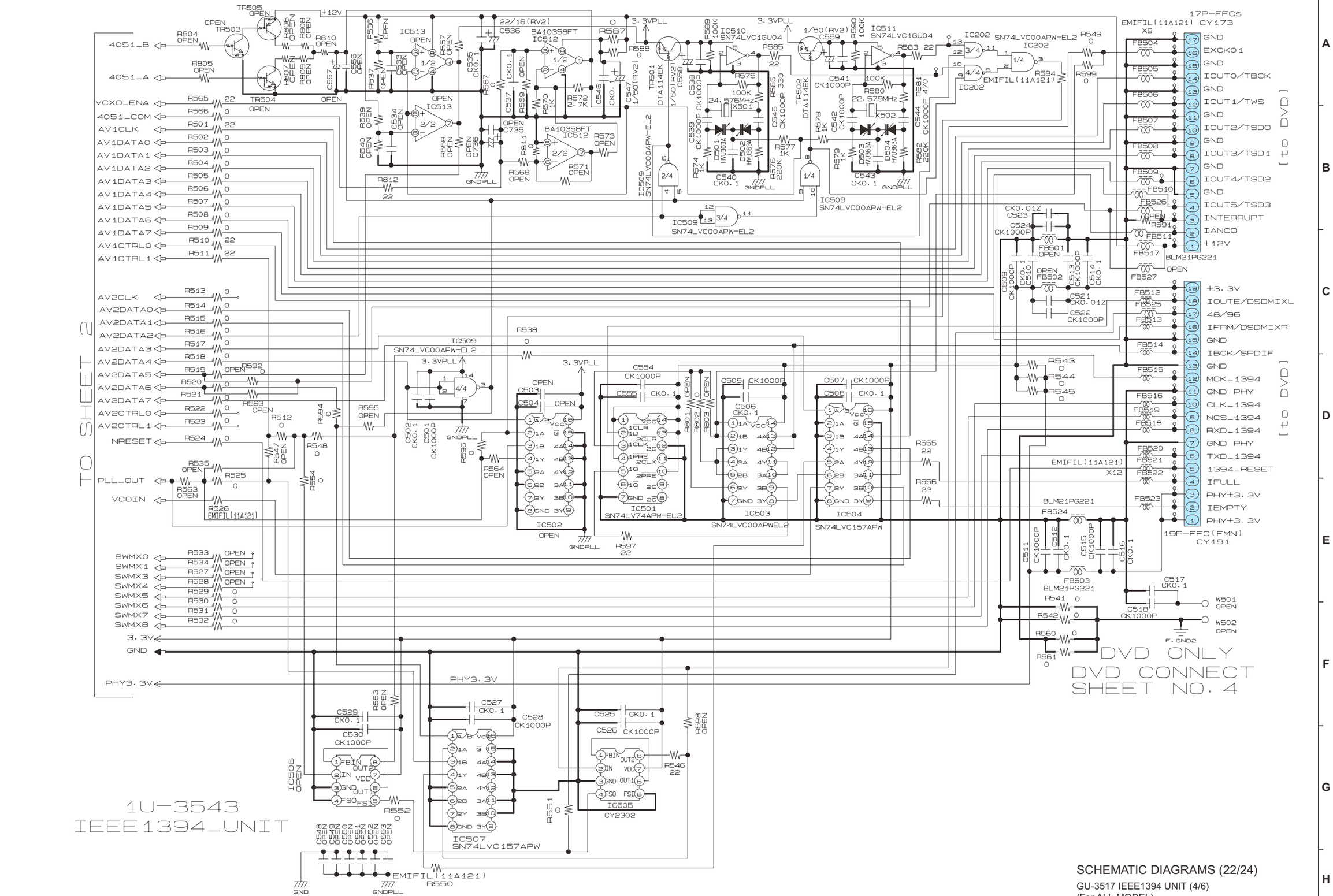
GU-3517 IEEE1394 UNIT (2/6)
(For ALL MODEL)



GU-3517
IEEE1394_UNIT

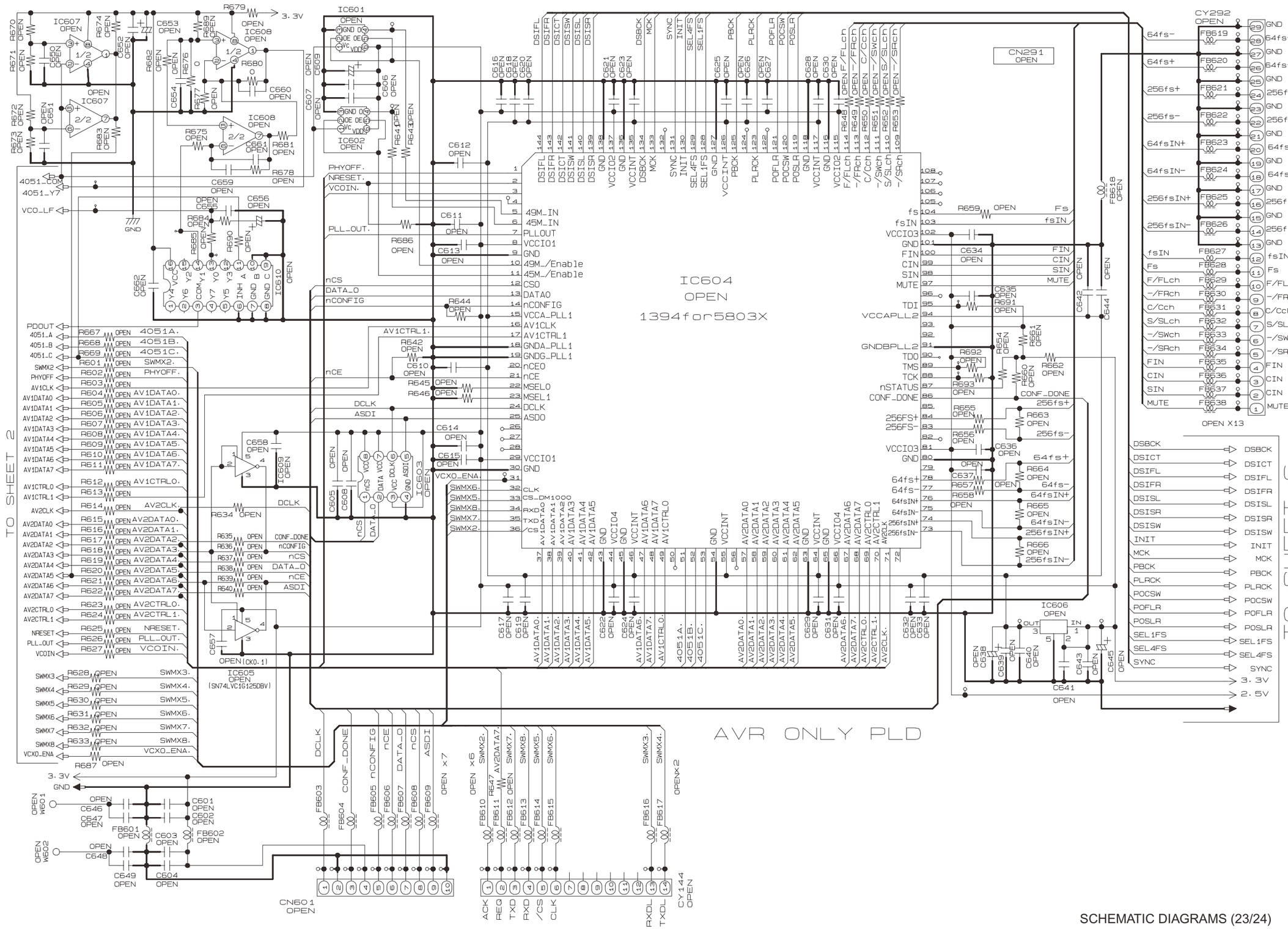
DM1000 ROM
SHEET NO. 3

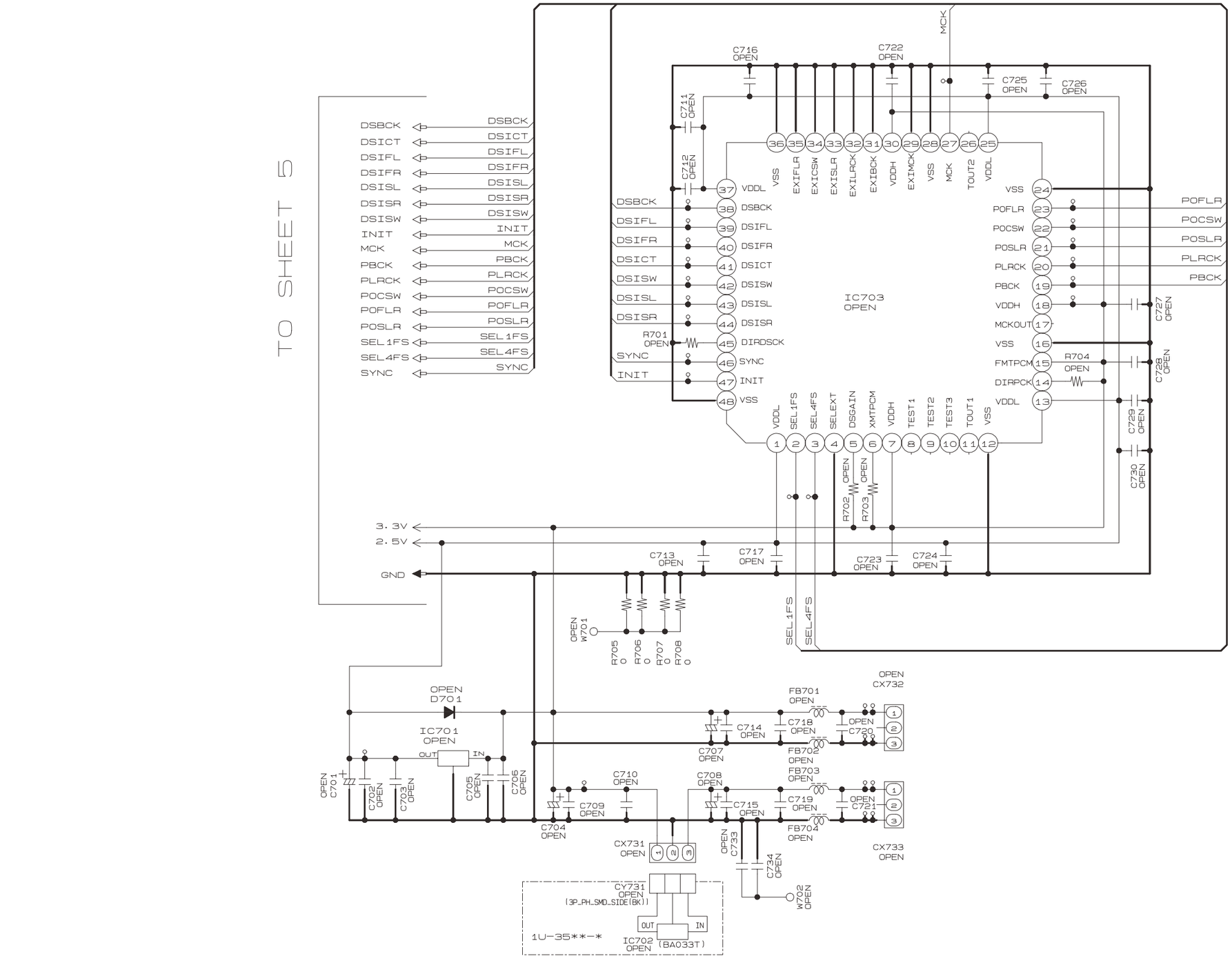
SCHEMATIC DIAGRAMS (21/24)
GU-3517 IEEE1394 UNIT (3/6)
(For ALL MODEL)



SCHEMATIC DIAGRAMS (22/24)

GU-3517 IEEE1394 UNIT (4/6)
(For ALL MODEL)


IC604
OPEN
1394for5803X
AVR ONLY PLD
CN291
OPEN
IC601
IC602
IC603
IC605
OPEN
(SN74LVC1G1250BV)
IC606
OPEN
IC607
IC608
IC609
IC610
CN601
OPEN
CY144
OPEN
CY292
OPEN
OPEN X13
TO SHEET 2
TO SHEET 6
PHYOFF.
NRESET.
VCOIN.
PLL_OUT.
nCS
DATA_O
nCONFIG
nCE
DCLK
ASDI
CONF_DONE
VCXO_ENA.
SWMX2.
SWMX3.
SWMX4.
SWMX5.
SWMX6.
SWMX7.
SWMX8.
AV1CTRL1.
AV1DATA0.
AV1DATA1.
AV1DATA2.
AV1DATA3.
AV1DATA4.
AV1DATA5.
AV1DATA6.
AV1DATA7.
AV1CTRL0.
AV1CTRL1.
AV2DATA0.
AV2DATA1.
AV2DATA2.
AV2DATA3.
AV2DATA4.
AV2DATA5.
AV2DATA6.
AV2DATA7.
AV2CTRL0.
AV2CTRL1.
4051_COM
4051_Y7
VCO_LF
4051A.
4051B.
4051C.
SCHEMATIC DIAGRAMS (23/24)
GU-3517 IEEE1394 UNIT (5/6)
(For ALL MODEL)



1U-3543
IEEE1394_UNIT

AVR ONLY

DSD TO PCM
SHEET NO. 6

SCHEMATIC DIAGRAMS (24/24)

GU-3517 IEEE1394 UNIT (6/6)
(For ALL MODEL)