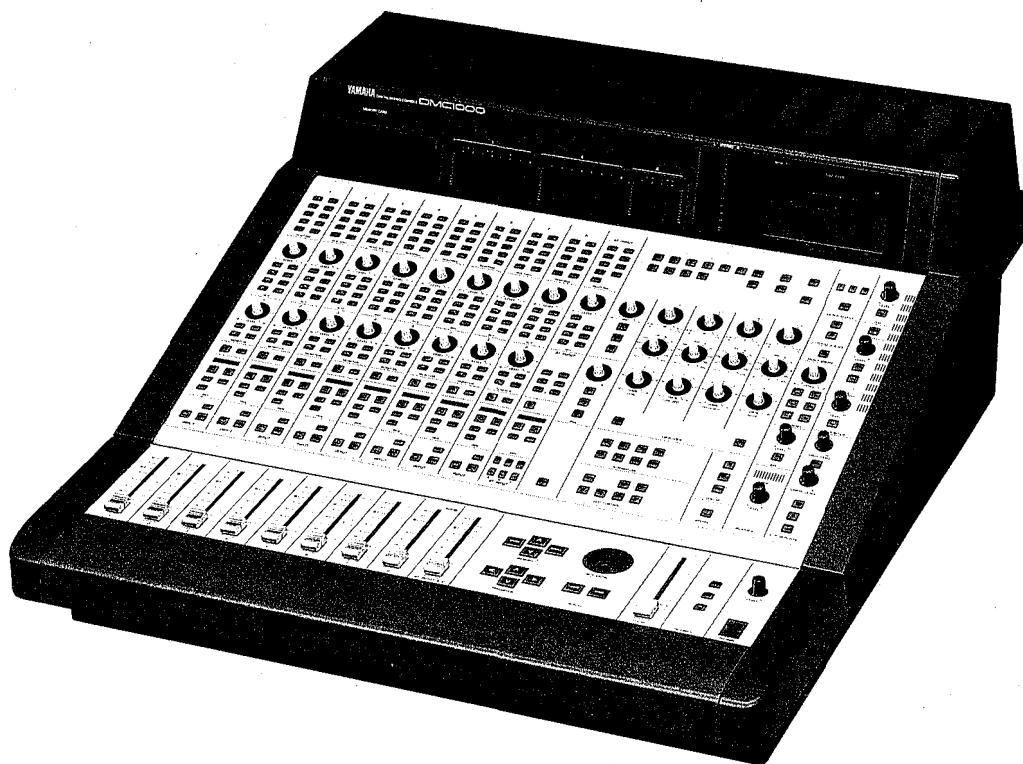


DIGITAL MIXING CONSOLE DMC1000

SERVICE MANUAL



■ CONTENTS

OWNERS MANUAL (取扱説明書)
CIRCUIT BOARD LAYOUT (ユニットレイアウト)
DISASSEMBLY PROCEDURE (分解手順)
LSI PIN DESCRIPTION (LSI 端子機能表)
IC BLOCK DIAGRAM (ICブロック図)
CIRCUIT BOARDS (シート基板図)
CONNECTOR TABLE (コネクター表)
BLOCK DIAGRAM
CIRCUIT DIAGRAM (回路図)
PARTS LIST

LM 011056

YAMAHA CORP.

HAMAMATSU, JAPAN

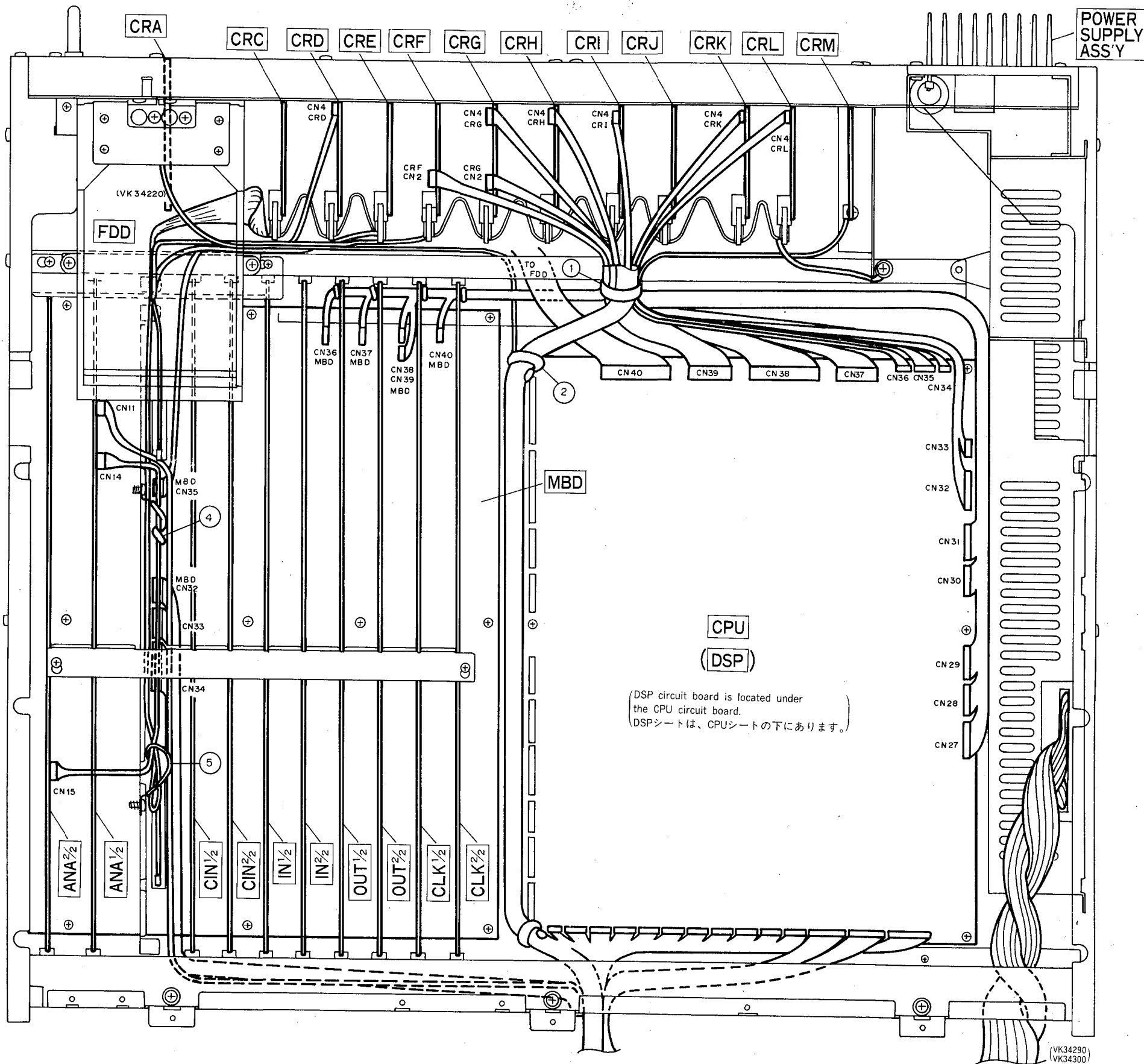
0.32K © Printed in Japan '91.08

I. CIRCUIT BOARD LAYOUT & WIRING

■ CONTENTS (目次)

BOTTOM ASSEMBLY	I-1
PANEL ASSEMBLY	I-2
FRONT PANEL ASSEMBLY	I-2

● BOTTOM ASSEMBLY



● Secure the connector assemblies listed below with cord binders
①-⑤ as shown.

● ①-⑤の束線を止めを用いて、下記のConnector assemblyを結束する。

- | | | | |
|---|---|---|-------------------------------|
| ① | VL28650
VL28640
VK29540
VK29520
VK29510 | VK34200
VK34180
VK34210
VK57630
VL81210 | VL81220
VL81230
VL81240 |
|---|---|---|-------------------------------|

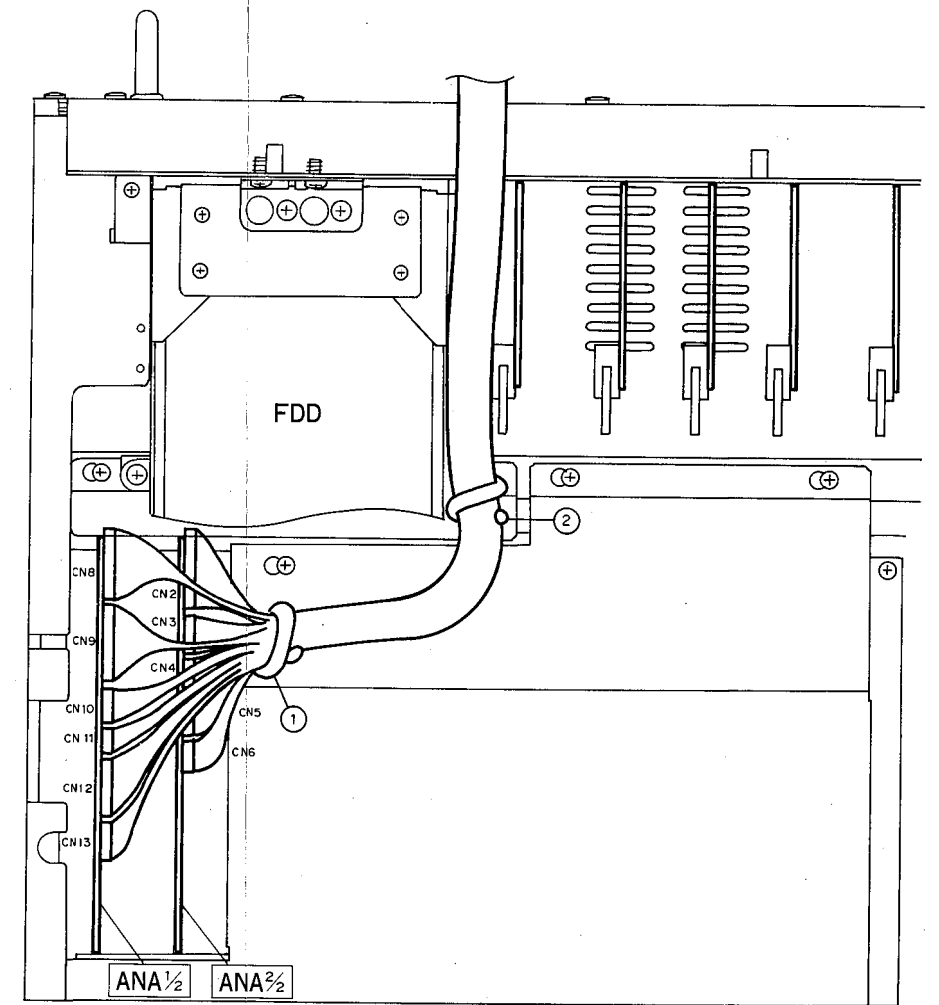
- | | | |
|------|--------------------|--------------------|
| ②, ③ | VL28650
VK34220 | VK34210
VK28930 |
|------|--------------------|--------------------|

- | | |
|------|---------|
| ④, ⑤ | VK62560 |
|------|---------|

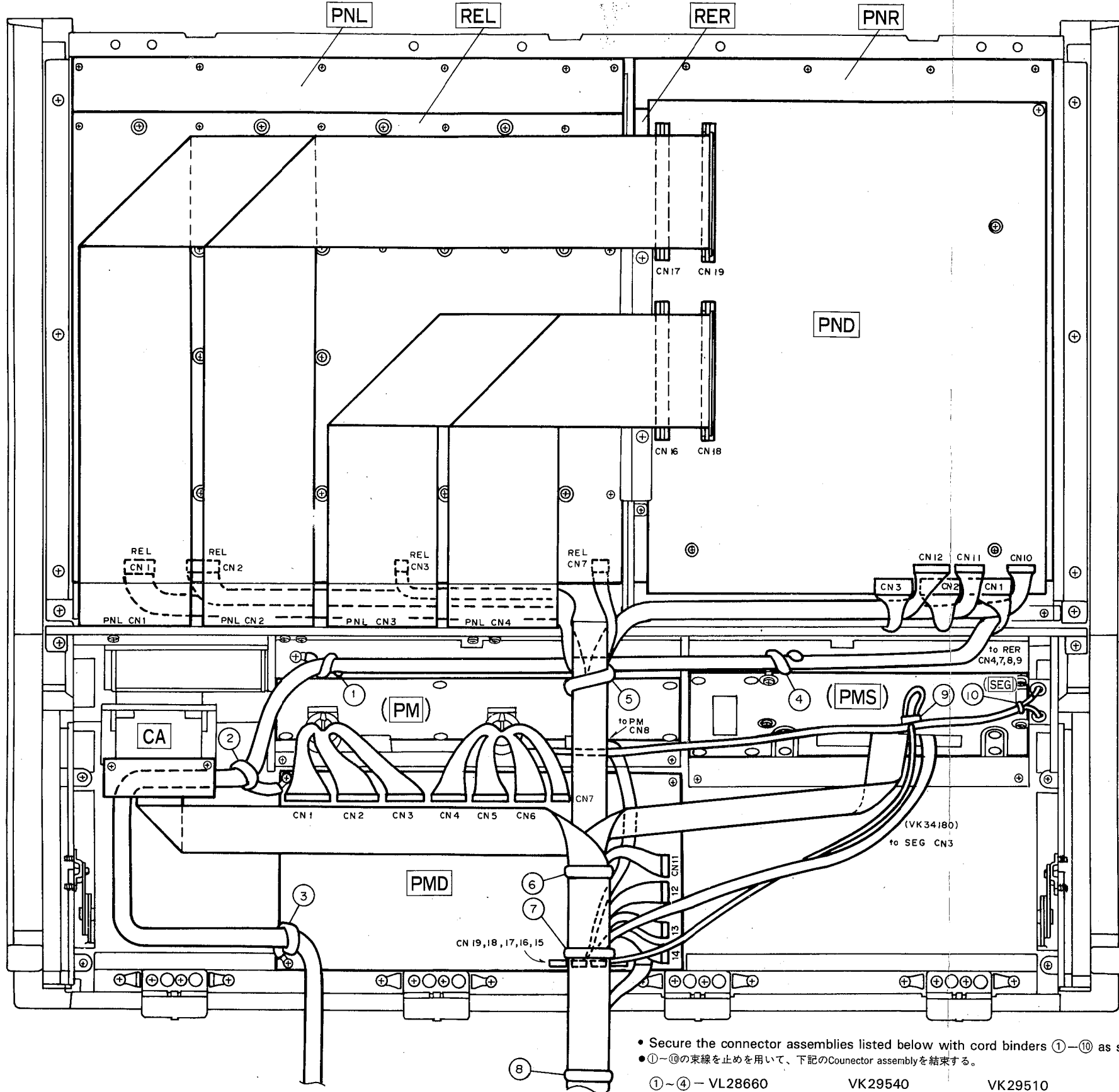
● Secure the connector assemblies listed below with cord binders
①-② as shown.

● ①-②の束線を止めを用いて、下記のConnector assemblyを結束する。

- | | | | |
|------|-------------------------------|-------------------------------|-------------------------------|
| ①, ② | VK29660
VK29670
VL28660 | VL12210
VL28660
VK44860 | VL12200
VK34430
VK62560 |
|------|-------------------------------|-------------------------------|-------------------------------|



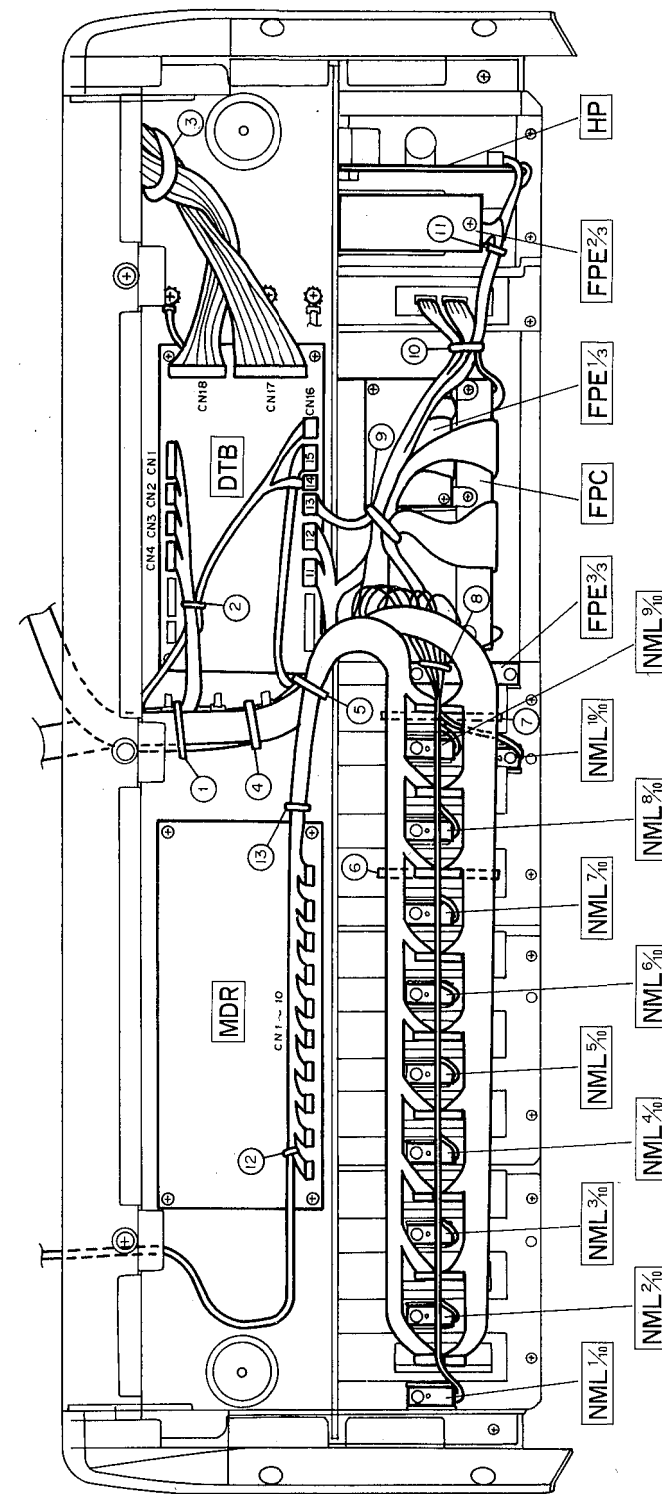
● PANEL ASSEMBLY



● Secure the connector assemblies listed below with cord binders ①-⑩ as shown.
 ● ①-⑩の束線を止めを用いて、下記のConnector assemblyを結束する。

- | | | | |
|---------------|-------------|-------------|----------------|
| ①-④ - VL28660 | VK29540 | VK29510 | VK29510 |
| ⑤ - VL28650 | VK29520 | VK34200 | VK34200 |
| VL28640 | VK29510 | VK34180 | VK34180 |
| VK29540 | | | VK34210 |
| ⑥ - VL28650 | ⑦ - VL28650 | ⑧ - VL28650 | ⑨, ⑩ - VK44390 |
| VL28640 | VL28640 | VL28640 | |
| VL28640 | VK29540 | VK29540 | |
| | VK29520 | VK29520 | |

● FRONT PANEL ASSEMBLY



● Secure the connector assemblies listed below with cord binders ①-⑬ as shown.
 ● ①-⑬の束線を止めを用いて、下記のConnector assemblyを結束する。

- | | |
|----------------|----------------|
| ①, ④ - VL28650 | ⑧ - VK27260 |
| VL28610 | VK27270 |
| VK29350 | VK27280 |
| | VK27280 |
| ② - VK34210 | VK27290 |
| VK34220 | VK27300 |
| VL28650 | VK27310 |
| | VK27320 |
| ③ - VK34290 | VK27330 |
| VK34300 | VK27340 |
| ⑤ - VK34280 | ⑨ - VK34430 |
| VL28650 | VK34280 |
| VK34280 | VK34280 |
| VL28600 | VL28600 |
| VL28610 | VL28610 |
| | VL28650 |
| ⑥ - VL28610 | ⑩ - VK34430 |
| VL28600 | VK34280 |
| VK27260 | VK57680 |
| VK27270 | VL28600 |
| VK27280 | VL28610 |
| VK27290 | VL28610 |
| VK27300 | |
| VK27310 | ⑪ - VK34430 |
| VK27320 | VK34280 |
| | VK57680 |
| ⑦ - VL28610 | ⑫, ⑬ - VK34430 |
| VL28600 | VL28600 |

II. DISASSEMBLY PROCEDURE (分解手順)

■ CONTENTS

1. Precautions regarding operation	II-1
2. Opening the main unit	II-1
3. Removing the power supply unit	II-3
4. Removing the CPU circuit board	II-4
5. Removing the DSP circuit board	II-5
6. Removing the FDD	II-6
7. Removing the circuit boards: ANA1/2, ANA2/2, CIN1/2, CIN2/2, IN1/2, IN2/2, OUT1/2, OUT2/2, CLK1/2 and CLK2/2 ...	II-6
8. Removing the MBD circuit board	II-7
9. Removing the CRA circuit board	II-7
10. How to remove the Cannon connector assembly	II-7
11. Removing the circuit boards: CRC, CRD, CRE, CRF, CRG, CRH, CRI, CRJ, CRK, CRL and CRM	II-8
12. Removing the PND circuit board	II-9
13. Removing the RER circuit board	II-10
14. Removing the PNR circuit board	II-11
15. Removing the REL circuit board	II-11
16. Removing the PNL circuit board	II-11
17. Removing the PM circuit board	II-12
18. Removing the LCD assembly, SEG circuit board, and PMS circuit board	II-12
19. Removing the PMD circuit board	II-13
20. Removing the CA circuit board	II-13
21. Opening the front panel assembly	II-13
22. Removing the DTB circuit board	II-14
23. Removing the MDR circuit board	II-14
24. Removing the NML circuit boards 1/10~10/10 and the faders (1)~(9)	II-15
25. Removing the FPE3/3 circuit board	II-15
26. Removing the fader-(10)	II-16
27. Removing the FPC circuit board and the FPE1/3 circuit board	II-16
28. Removing the FPE2/3 circuit board and HP circuit board	II-17
29. Removing the push button assembly, controls, and top cap assembly	II-18
● Special parts for service	II-19

■ 目次

1. 作業上の注意.....	II-1
2. 本体の開け方.....	II-1
3. 電源ユニットの外し方.....	II-3
4. CPUシートの外し方.....	II-4
5. DSPシートの外し方.....	II-5
6. FDDの外し方.....	II-6
7. ANA1/2、ANA2/2、CIN1/2、CIN2/2、IN1/2、 IN2/2、OUT1/2、OUT2/2、CLK1/2、CLK2/2 シートの外し方.....	II-6
8. MBDシートの外し方.....	II-7
9. CRAシートの外し方.....	II-7
10. キヤノンコネクタAss'yの外し方.....	II-7
11. CRC、CRD、CRE、CRF、CRG、CRH、CRI、CRJ、 CRK、CRL、CRMシートの外し方.....	II-8
12. PNDシートの外し方.....	II-9
13. RERシートの外し方.....	II-10
14. PNRシートの外し方.....	II-11
15. RELシートの外し方.....	II-11
16. PNLシートの外し方.....	II-11
17. PMシートの外し方.....	II-12
18. LCDAss'y、SEGシート、PMSシートの外し方.....	II-12
19. PMDシートの外し方.....	II-13
20. CAシートの外し方.....	II-13
21. フロントパネルAss'yの開け方.....	II-13
22. DTBシートの外し方.....	II-14
23. MDRシートの外し方.....	II-14
24. NMLシート1/10~10/10、フェーダー(1)~(9) の外し方.....	II-15
25. FPE3/3シートの外し方.....	II-15
26. フェーダー(10)の外し方.....	II-16
27. FPCシート、FPE1/3シートの外し方.....	II-16
28. FPE2/3シート、HPシートの外し方.....	II-17
29. プッシュボタンAss'y、ツマミ類、 トップキャップAss'y、の外し方.....	II-18
● サービス専用部品の使い方.....	II-19

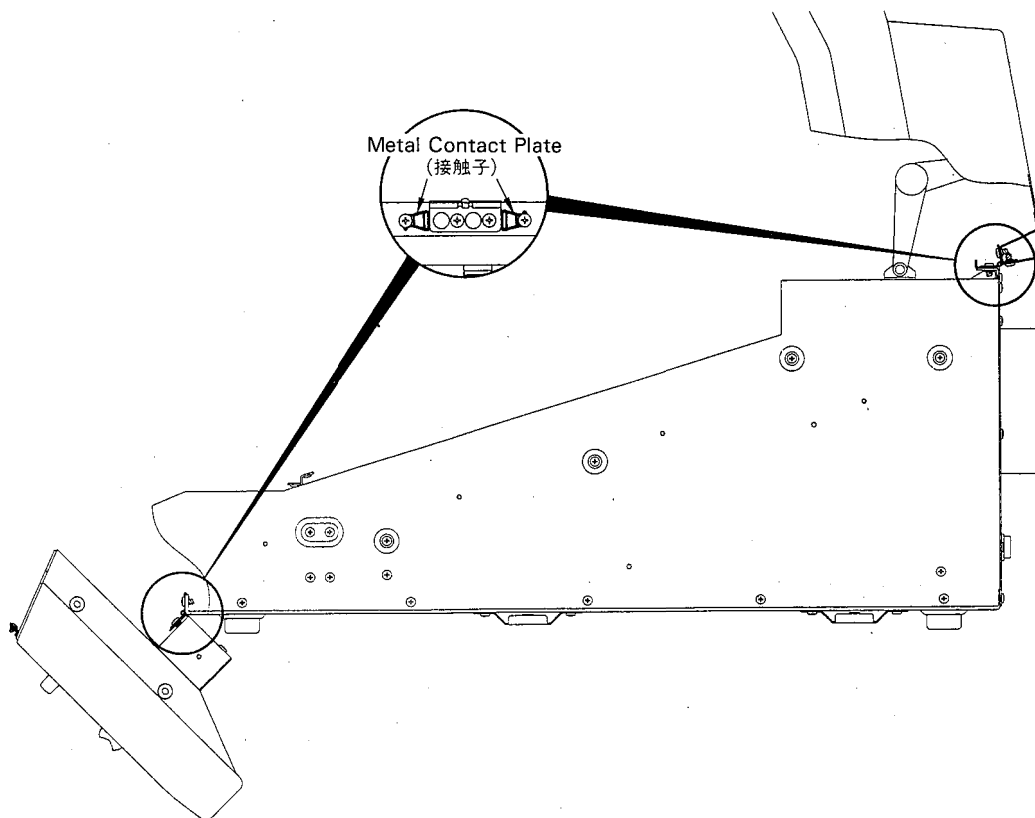
1. Precautions regarding operation

Make sure that during the operation, no cables or fingers come in contact with the metal contact plate, which is used for grounding, to avoid bending it. (Fig. 1)

During disassembly operations of the panel assembly use a piece of cloth to cover the circuit boards of the bottom assembly since it is possible for some screws to drop down.

1. 作業上の注意

- アースとして使用している接触子に束線や指を引っ掛けて、曲げたりしないように注意して作業を進めて下さい。(図1)
- パネルAss'yの分解作業中、ネジが本体内に落ちることがありますから、ボトムAss'yの上に布などをかぶせて作業して下さい。



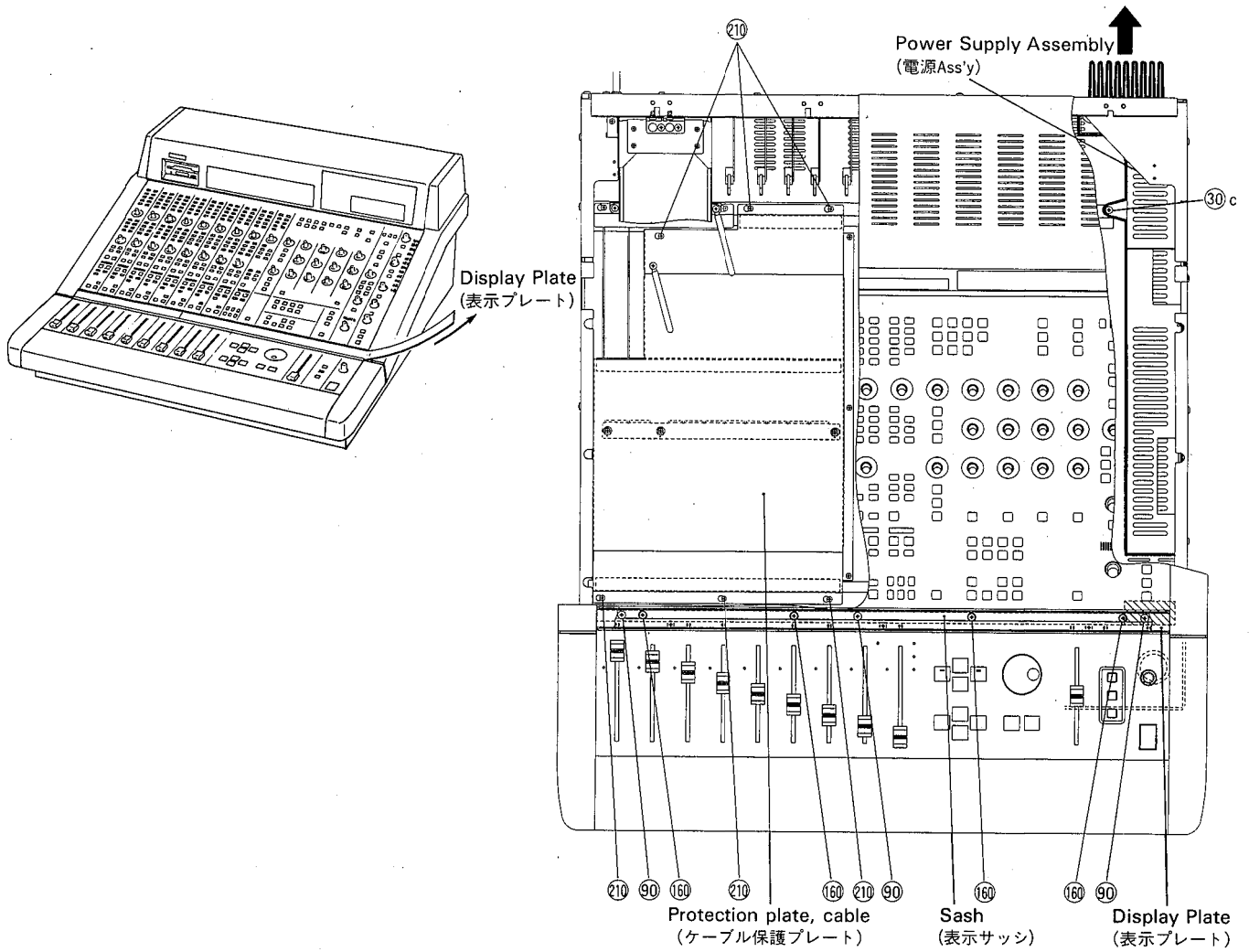
(Fig. 1)

2. Opening the main unit

- 2-1. Remove the display plate by sliding it horizontally, remove the three(3) screws marked ⑨⑩ and remove the display sash. (Fig. 2)
- 2-2. Remove the four (4) screws marked ⑩⑪ fixing the panel. (Fig. 2)
- 2-3. Remove the six (6) screws marked ⑫⑬ (three each on both the right and left sides) that hold the panel to the side of the main unit, lift the panel assembly from the front until it comes to rest. Lock the hinge on the left and right side securely as shown in figure 4 to fix the panel assembly in position. (Fig. 3 and 4)
- 2-4. The panel assembly can be fixed by using a stay (TX800230) that is provided as a service part. In such a case, make sure that the stay fits properly in the mounting hole and is not pulled out before moving on to the next operation. (See "Special parts for service")

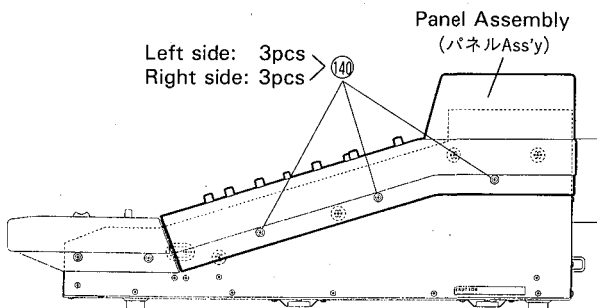
2. 本体の開け方

- 2-1. 表示プレートを横にスライドさせて取り外し、⑨のネジ3本を外して、表示サッシを取り外します。(図2)
- 2-2. パネルを固定している⑩のネジ4本を外します。(図2)
- 2-3. 本体の横側でパネルを止めている⑫のネジ6本(左右3本ずつ)を外してパネルAss'yの手前側を持ち上げ、止まるところまで開けます。左右のストップステイを図4で示すように、しっかりロックしてパネルAss'yを固定します。(図3、4)
- 2-4. サービス用の部品として準備されているステイ(TX800230)を使用して、パネルAss'yを固定することもできます。このとき、ステイが取り付け穴にしっかり入って抜けないことを十分に確認してから、その後の作業を行って下さい。(サービス専用部品の使い方参照)



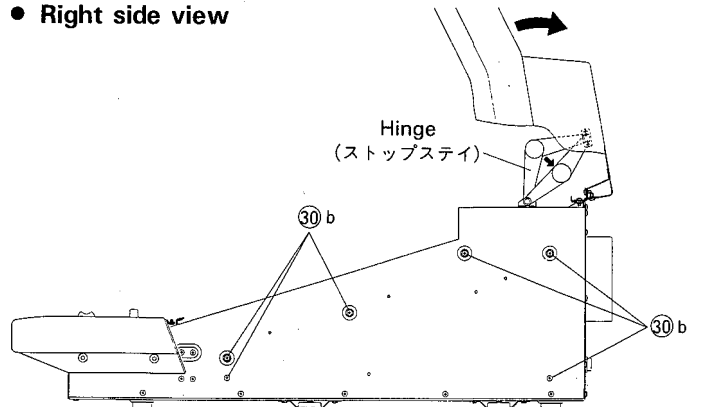
(Fig. 2)

● Right side view



(Fig. 3)

● Right side view



(Fig. 4)

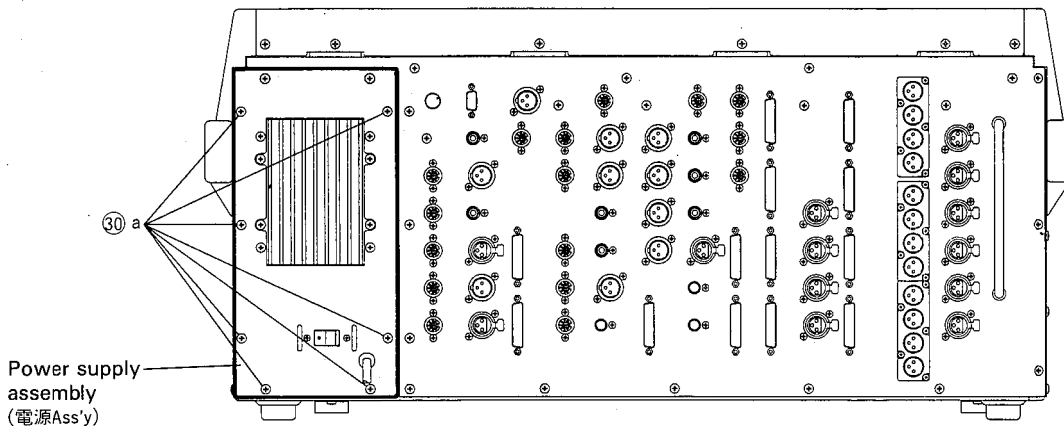
3. Removing the power supply unit

- 3-1. Open the main unit. (see procedure 1)
- 3-2. Remove the fourteen (14) screws in total; the seven (7) screws marked ③⑩a from the rear panel, the six (6) screws marked ③⑩b on the right side of the main unit and one screw marked ③⑩c inside the main unit, pull out the connector, and remove the power supply assembly as if you pulled it from the rear side. (Fig. 2, 4, and 5)

- 3-3. Remove the power supply panel from the unit by removing the four (4) screws marked ③⑩d, one screw marked ⑩①, and by pulling out the power switch connector. (Fig. 6)

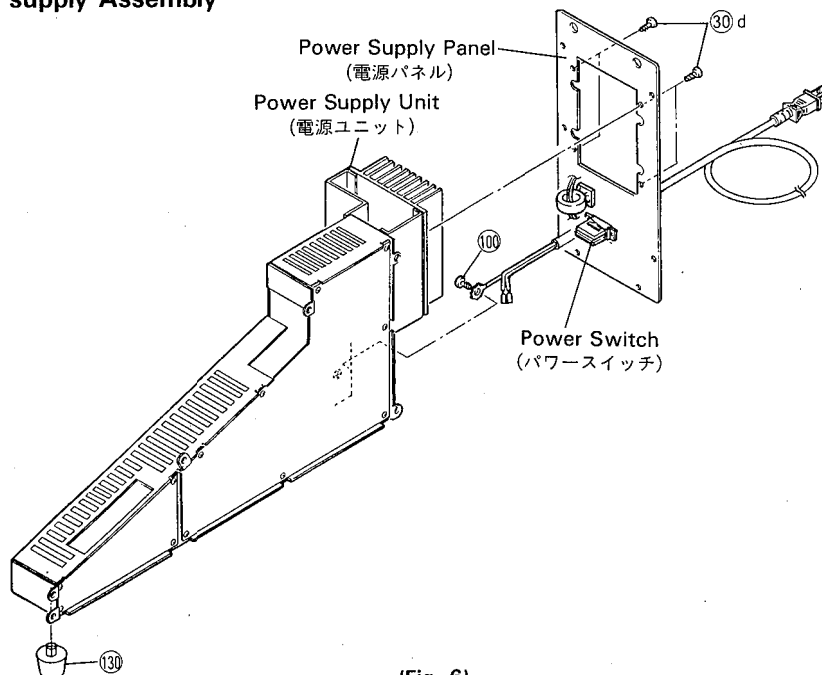
* The plastic foot marked ⑬① is not a part that belongs to the power supply unit. Make sure that you remove it when replacing the power supply unit.

● Rear view



(Fig. 5)

● Power supply Assembly



(Fig. 6)

3. 電源ユニットの外し方

- 3-1. 本体を開けます。(1項参照)

- 3-2. リアパネル側の③⑩aのネジ7本と、本体右横の③⑩bのネジ6本と本体内の③⑩cのネジ1本の合計14本のネジを外し、コネクタを抜いて電源Ass'yをリア側より引き抜くようにして取り外します。(図2、4、5)

- 3-3. ③⑩dのネジ4本と⑩①のネジ1本を外し、パワースイッチのコネクタを抜いて電源パネルを電源ユニットから外します。(図6)

* ⑬①のプラスチックフットは、電源ユニットの構成部品ではありません。電源ユニットの交換の際には、忘れずに外して下さい。

4. Removing the CPU circuit board

4-1. Open the main unit (see procedure 1)

4-2. Remove the CPU circuit board by removing the six (6) screws marked ⑥, and by pulling out the connector. (Fig. 7)

* Make sure that you do not make any mistakes when re-connecting the connectors during reassembly. Connect connectors with the same letters; these can be found at the end of the connector number printed on the circuit board. (eg. CN8P → CN28P)

A similar number is printed near the connectors on DSP and MBD circuit boards.

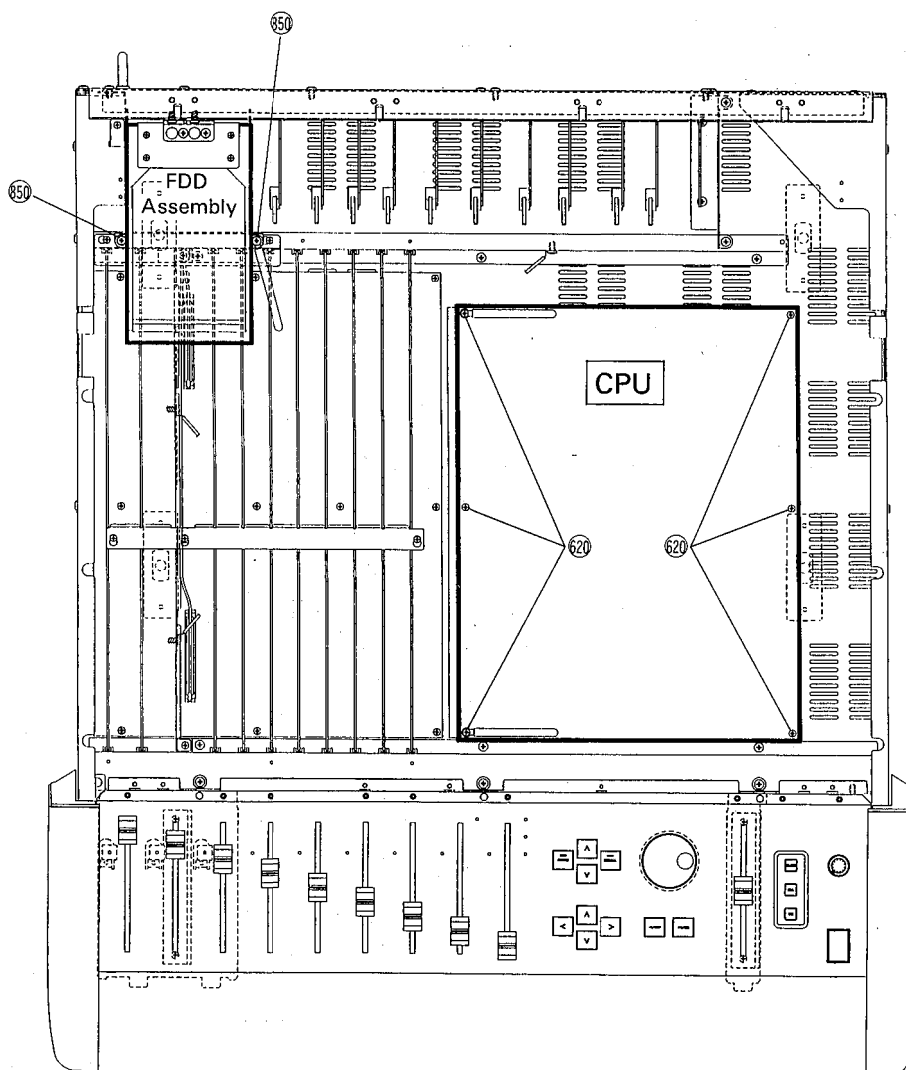
4. CPUシートの外し方

4-1. 本体を開けます。(1項参照)

4-2. ⑥のネジ6本を外し、コネクタを抜いてCPUシートを取り外します。(図7)

* シートを取り付ける時、コネクタの接続を間違えないように注意して下さい。CN8P→CN28Pのように基板に印刷されているコネクタ番号の末尾のアルファベットが同じもの同士を接続します。

DSPシートとMBDシートのコネクタ付近にも同様の印刷があります。



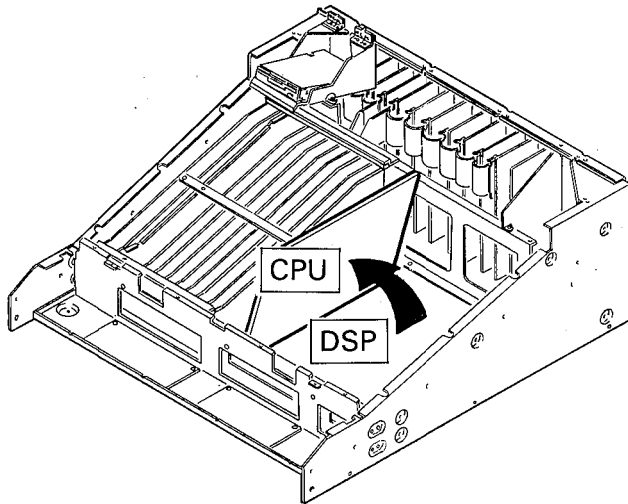
(Fig. 7)

5. Removing the DSP circuit board

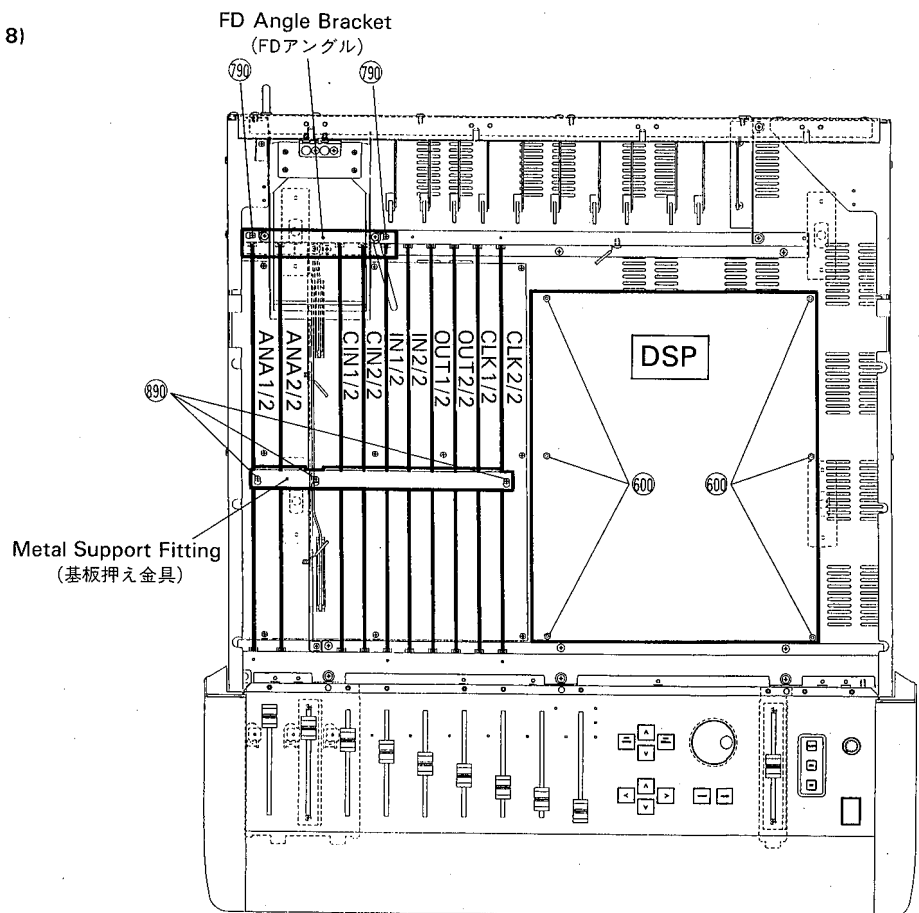
- 5-1. Open the main unit. (see procedure 1)
- 5-2. Remove the six (6) screws marked ⑥⑩, lift the CPU circuit board up to inner side as shown in Fig. 8. (You do not have to remove the connector.) (Fig. 7 and 8)
- 5-3. Remove the DSP circuit board by removing the six (6) supports marked ⑥①① using a 5.5 m/m hex driver, and by pulling out the connector. (Fig. 9)

5. DSPシートの外し方

- 5-1. 本体を開けます。(1項参照)
- 5-2. ⑥⑩のネジ6本を外し、CPUシートを図8のように内側に起こします。(コネクタを外す必要はありません)(図7、8)
- 5-3. 5.5m/mのボックスレンチを使って⑥①①のサポート6本を外し、コネクタを抜いてDSPシートを外します。(図9)



(Fig. 8)



(Fig. 9)

6. Removing the FDD

- 6-1. Open the main unit. (see procedure 1)
- 6-2. Remove the two (2) screws marked ⑤⑨, lift the FDD together with the FDD sub-panel, and secure them with the FDD stopper. (Fig. 7 and 10)
- 6-3. Remove the two (2) connectors from the FDD and the four (4) screws marked ④⑩ and remove the FDD. (Fig. 11)

7. Removing the circuit boards: ANA1/2, ANA2/2, CIN1/2, CIN2/2, IN1/2, IN2/2, OUT1/2, OUT2/2, CLK1/2, and CLK2/2.

- 7-1. Open the main unit. (see procedure 1)
- 7-2. Lift the FDD. (see procedure 6-2)
- 7-3. Remove the FDD angle bracket by loosening the two (2) screws marked ⑦⑨. (Fig. 9)
- 7-4. Remove the cable protection plate by removing the six (6) screws marked ②⑩. (Fig. 2)
- 7-5. Remove the metal support fitting of the circuit board by loosening the three (3) screws marked ③⑩. (Fig. 9)
- 7-6. Remove each circuit board from the MBD circuit board by pulling them up. (Remove the ANA1/2 and ANA2/2 circuit boards after pulling out the connectors.)

* When replacing the removed circuit boards, check the circuit board names printed on the MBD circuit board and place them in the right place.

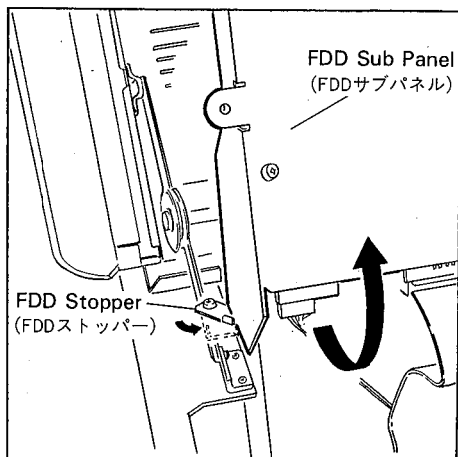
6. FDDの外し方

- 6-1. 本体を開けます。(1項参照)
- 6-2. ⑤⑨のネジ2本を外し、FDDサブパネルと共にFDDを上起こしてFDDストッパーで止めます。(図7、10)
- 6-3. FDDのコネクター2個を外し、④⑩のネジ4本を外してFDDを取り外します。(図11)

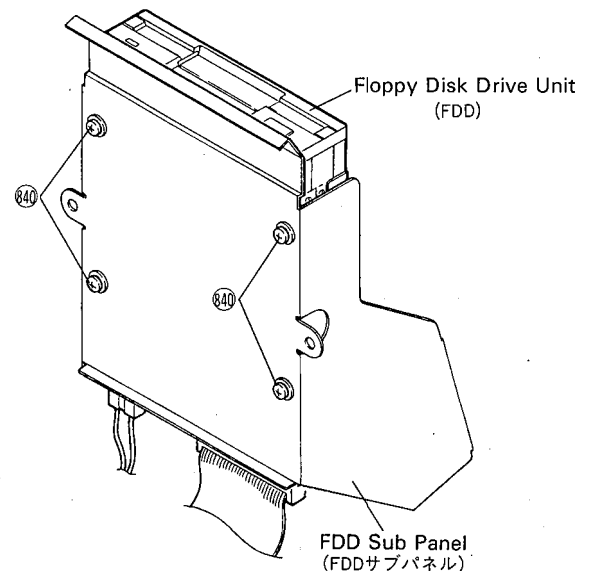
7. ANA1/2, ANA2/2, CIN1/2, CIN2/2, IN1/2, IN2/2, OUT1/2, OUT2/2, CLK1/2, CLK2/2シートの外し方

- 7-1. 本体を開けます。(1項参照)
- 7-2. FDDを上起こします。(6-2項参照)
- 7-3. ⑦⑨のネジ2本をゆるめて、FDアングルを取り外します。(図9)
- 7-4. ②⑩のネジ6本を外し、ケーブル保護プレートを取り外します。(図2)
- 7-5. ③⑩のネジ3本をゆるめて、基板押え金具を取り外します。(図9)
- 7-6. それぞれのシートを上引き抜いてMBDシートから取り外します。(ANA1/2とANA2/2シートは、コネクターを抜いてからシートを外して下さい。)

* 抜いたシートを再び取り付ける時は、MBDシートに印刷されているシート名を確認し、正しい位置にシートを取り付けて下さい。



(Fig. 10)



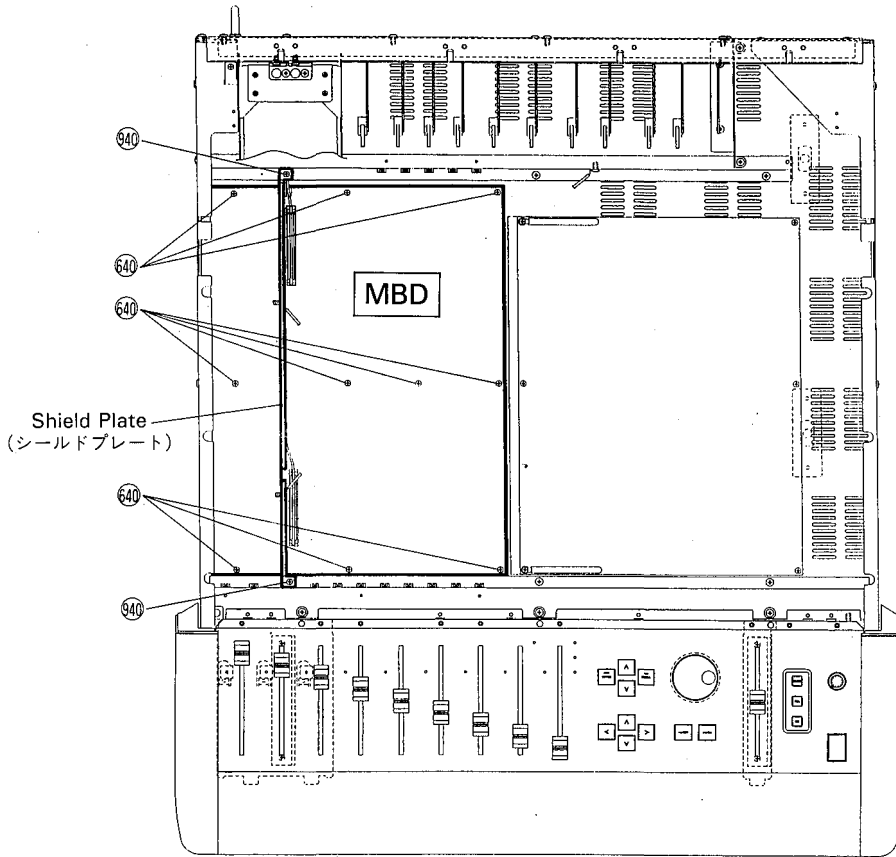
(Fig. 11)

8. Removing the MBD circuit board

- 8-1. Open the main unit. (see procedure 1)
- 8-2. Remove the circuit boards: ANA1/2, ANA2/2, CIN1/2, CIN2/2, IN1/2, IN2/2, OUT1/2, OUT2/2, CLK1/2, and CLK2/2. (see procedure 7)
- 8-3. Remove the shielding plate by removing the two (2) screws marked 940. (Fig. 12)
- 8-4. Remove the MBD circuit board by removing the ten (10) screws marked 640 and by pulling out the connector. (Fig. 12)

8.MBDシートの外し方

- 8-1. 本体を開けます。(1項参照)
- 8-2. ANA1/2、ANA2/2、CIN1/2、CIN2/2、IN1/2、IN2/2、OUT1/2、OUT2/2、CLK1/2、CLK2/2シートを取り外します。(7項参照)
- 8-3. 940のネジ2本を外して、シールドプレートを外します。(図12)
- 8-4. 640のネジ10本を外し、コネクタを抜いてMBDシートを取り外します。(図12)



(Fig. 12)

9. Removing the CRA circuit board

- 9-1. Open the main unit. (see procedure 1)
- 9-2. Lift the FDD. (see procedure 6-2)
- 9-3. Remove the CRA circuit board by removing the one screw marked 200 and the twelve (12) screws marked 210 and by pulling out the connector. (Fig. 13)

9.CRAシートの外し方

- 9-1. 本体を開けます。(1項参照)
- 9-2. FDDを上を起こします。(6-2項参照)
- 9-3. リアパネル側の200のネジ1本と210のネジ12本を外し、コネクタを抜いてCRAシートを外します。(図13)

10. How to remove the Cannon connector assembly

- 10-1. Open the main unit. (see procedure 1)
- 10-2. Lift the FDD. (see procedure 6-2)
- 10-3. Any of the Cannon connector assemblies can be removed by removing the five (5) screws marked 230 on the rear panel. (Fig. 13)

10. キャンコネクタAss'yの外し方

- 10-1. 本体を開けます。(1項参照)
- 10-2. FDDを上を起こします。(6-2項参照)
- 10-3. いずれのキャンコネクタAss'yも、リアパネル側の230のネジ5本を外すと、外すことができます。(図13)

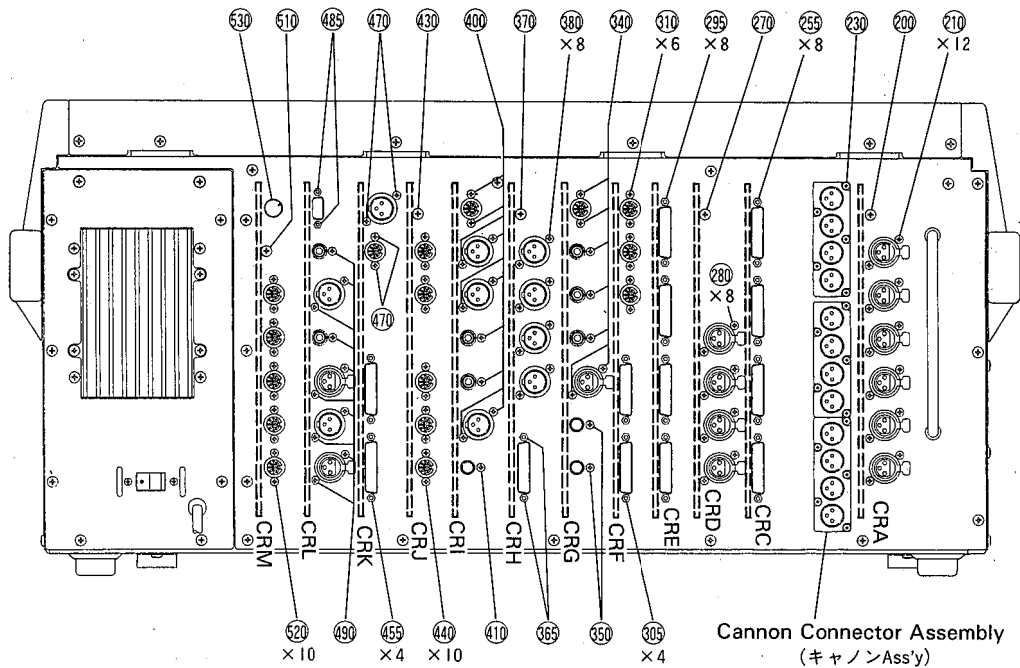
11. Removing the circuit boards: CRC, CRD, CRE, CRF, CRG, CRH, CRI, CRJ, CRK, CRL, and CRM.

- 11-1. Open the main unit. (see procedure 1)
 11-2. Pull out the flat cable connector that is attached to the CRC~CRM circuit boards.
 11-3. Remove the CRC~CRM circuit boards by removing the control and screws (see the list of the screws) that are holding all the circuit boards inside the rear panel and by pulling out the connector. (Fig. 13)

11. CRC、CRD、CRE、CRF、CRG、CRH、CRI、CRJ、CRK、CRL、CRMシートの外し方

- 11-1. 本体を開けます。(1項参照)
 11-2. CRCシート~CRMシートに付いているフラットケーブルのコネクターを抜きます。
 11-3. それぞれのシートを止めているリアパネル側のネジやツマミ(ネジ一覧参照)を外し、コネクターを抜いてCRCシート~CRMシートをそれぞれ取り外します。(図13)

● Rear view.



(Fig. 13)

(List of the screws)

- CRC : eight (8) screws marked ②55
- CRD : one screw marked ②70 and eight (8) screws marked ②80
- CRE : eight (8) screws marked ②95
- CRF : four (4) screws marked ③05 and six (6) screws marked ③10
- CRG : seven (7) screws marked ③40 and two screws marked ③50
- CRH : two (2) screws marked ③65, one screw marked ③70, and eight (8) screws marked ③80
- CRI : ten (10) screws marked ④00 and one screw marked ④10
- CRJ : one screw marked ④30 and ten (10) screws marked ④40
- CRK : four (4) screws marked ④55 and four (4) screws marked ④70
- CRL : two screws marked ④85 and ten (10) screws marked ④90
- CRM : one control marked ⑤30, one screw marked ⑤10 and ten (10) screws marked ⑤20

<ネジ一覧>

- CRC : ②55のネジ8本
- CRD : ②70のネジ1本、②80のネジ8本
- CRE : ②95のネジ8本
- CRF : ③05のネジ4本、③10のネジ6本
- CRG : ③40のネジ7本、③50のネジ2本
- CRH : ③65のネジ2本、③70のネジ1本、③80のネジ8本
- CRI : ④00のネジ10本、④10のネジ1本
- CRJ : ④30のネジ1本、④40のネジ10本
- CRK : ④55のネジ4本、④70のネジ4本
- CRL : ④85のネジ2本、④90のネジ10本
- CRM : ⑤30のツマミ1個、⑤10のネジ1本、⑤20のネジ10本

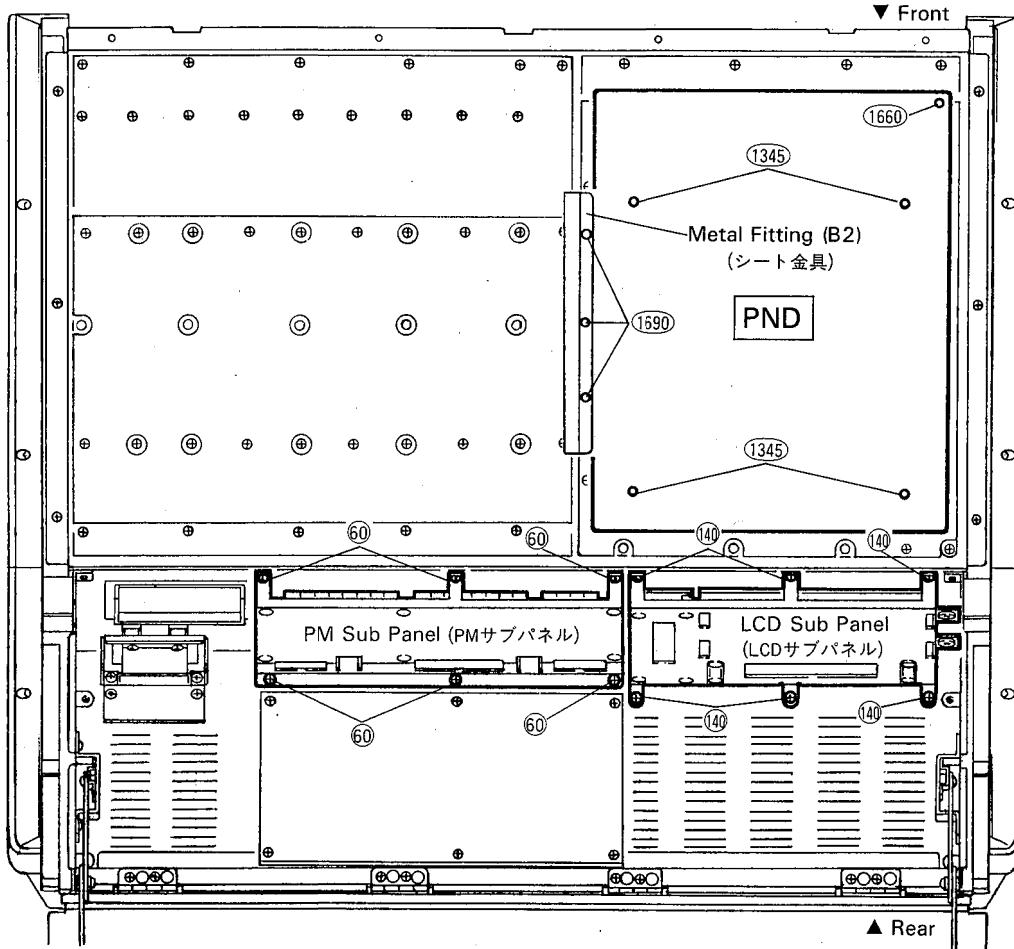
12. Removing the PND circuit board

- 12-1. Open the main unit. (see procedure 1)
- 12-2. Remove the circuit board metal fitting-(B2) by removing the three (3) screws marked (1690) . (Fig. 14)
- 12-3. Remove the PND circuit board by removing the one screw marked (1660) and the four (4) screws marked (1345) and by pulling out the connector. (Fig. 14)

12.PNDシートの外し方

- 12-1. 本体を開けます。(1項参照)
- 12-2. (1690)のネジ3本を外して、シート金具(B2)を外します。
(図14)
- 12-3. (1660)のネジ1本と(1345)のネジ4本を外し、コネクタを抜いてPNDシートを取り外します。(図14)

● Panel Assembly (Bottom View)



(Fig. 14)

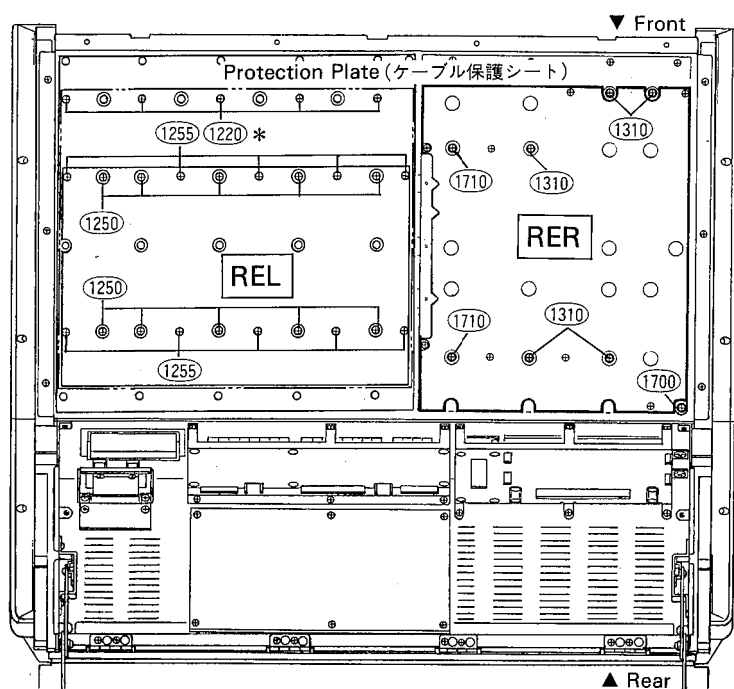
13. Removing the RER circuit board

- 13-1. Open the main unit. (see procedure 1)
- 13-2. Remove the PND circuit board. (see procedure 12)
- 13-3. Remove the RER circuit board together with the shielded plate and PNR angle bracket by removing the one screw marked (1700), the two (2) screws marked (1710), and the five (5) screws marked (1310) and by pulling out the connector. (Fig. 15)
- 13-4. Pull out the seven (7) controls marked (1480) and the fifteen (15) controls marked (1490). (Fig. 16)
- 13-5. Remove the shielded plate, the metal board fitting-(B1) and the metal board fitting-(A) from the RER circuit board by removing the eight (8) screws marked (1315). (Fig. 16)
- 13-6. Remove the RER circuit board from PNR angle bracket by loosening the 22 hexagon nuts marked (1320). (Fig. 16)

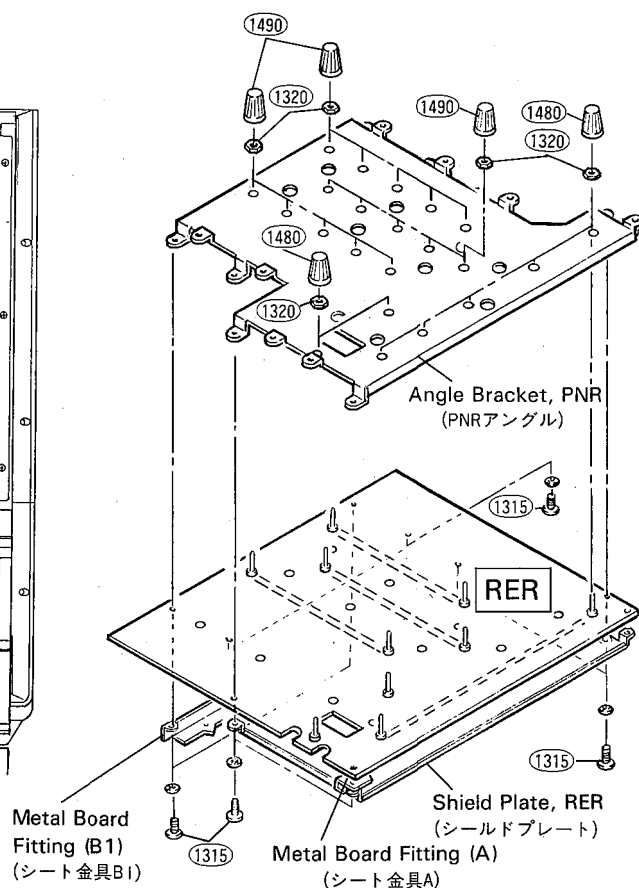
13. RERシートの外し方

- 13-1. 本体を開けます。(1項参照)
- 13-2. PNDシートを取り外します。(12項参照)
- 13-3. (1700)のネジ1本と(1710)のネジ2本と(1310)のネジ5本を外し、コネクタを抜いてシールドプレートとPNRアングルと共にRERシートを外します。(図15)
- 13-4. (1480)のつまみ7個と(1490)のつまみ15個を抜き取ります。(図16)
- 13-5. (1315)のネジ8本を外し、RERシートからシールドプレートとシート金具(B1)とシート金具(A)を外します。(図16)
- 13-6. (1320)の六角ナット22個をゆるめて、PNRアングルからRERシートを取り外します。(図16)

● Panel Assembly (Bottom View)



(Fig. 15)



(Fig. 16)

14. Removing the PNR circuit board

- 14-1. Open the main unit. (see procedure 1)
- 14-2. Remove the RER circuit board together with the shielded plate and PNR angle bracket. (see procedure 13-3)
- 14-3. Remove the PNR circuit board by removing the sixteen (16) screws marked (1280) and the four (4) screws marked (1275) and by pulling out the connector. (Fig. 17)

15. Removing the REL circuit board

- 15-1. Open the main unit. (see procedure 1)
- 15-2. Remove the cable protection plate by removing the ten (10) screws marked (1255) and the five (5) screws (screws marked with *) marked (1220). (Fig. 15)
- 15-3. Peel off the flat cable that is adhered to the REL circuit board by removing the four (4) flat cable connectors on the PND circuit board.
- 15-4. Remove the REL circuit board together with the PNL angle bracket by removing the ten (10) screws marked (1250) and by pulling out the connector. (Fig. 15)
- 15-5. Pull out the seventeen (17) controls marked (1490). (Fig. 18)
- 15-6. Remove the REL circuit board from the PNL angle bracket by removing the ten (10) screws marked (1255) and loosening the seventeen (17) hexagon nuts. (Fig. 18) (1260)

16. Removing the PNL circuit board

- 16-1. Open the main unit. (see procedure 1)
- 16-2. Remove the cable protection plate. (see procedure 15-2)
- 16-3. Remove the REL circuit board together with the PNL angle bracket. (see procedure 15-3)
- 16-4. Remove the PNL circuit board by removing the fifteen (15) screws marked (1220) and the five (5) screws marked (1225). (Fig. 17)

14. PNRシートの外し方

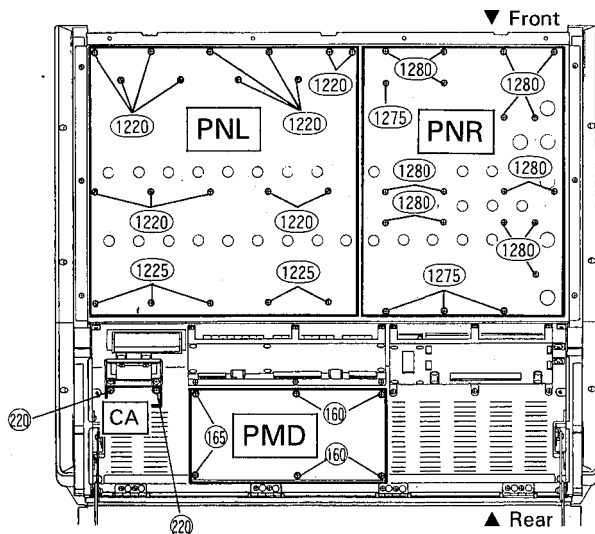
- 14-1. 本体を開けます。(1項参照)
- 14-2. シールドプレートとPNRアングルと共にRERシートを取り外します。(13-3項参照)
- 14-3. (1280)のネジ16本と(1275)のネジ4本を外し、コネクタを抜いてPNRシートを外します。(図17)

15. RELシートの外し方

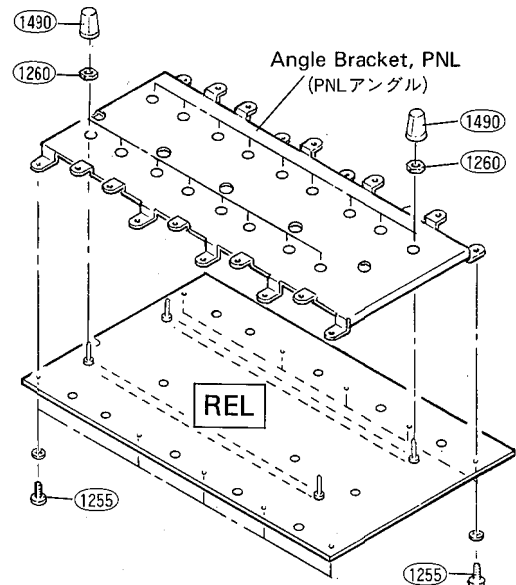
- 15-1. 本体を開けます。(1項参照)
- 15-2. (1255)のネジ10本と(1220)のネジ(*マークのついたネジ)5本を外して、ケーブル保護シートを外します。(図15)
- 15-3. PNDシート上のフラットケーブルのコネクタ4個を抜いて、RELシートにはり付いているフラットケーブルをはがします。
- 15-4. (1250)のネジ10本を外し、コネクタを抜いてPNLアングルと共にRELシートを取り外します。(図15)
- 15-5. (1490)のつまみ17個を抜き取ります。(図18)
- 15-6. (1255)のネジ10本を外し、(1260)の六角ナット17個をゆるめてPNLアングルからRELシートを取り外します。(図18)

16. PNLシートの外し方

- 16-1. 本体を開けます。(1項参照)
- 16-2. ケーブル保護シートを外します。(15-2項参照)
- 16-3. PNLアングルと共にRELシートを取り外します。(15-3項参照)
- 16-4. (1220)のネジ15本と(1225)のネジ5本を外して、PNLシートを取り外します。(図17)



(Fig. 17)



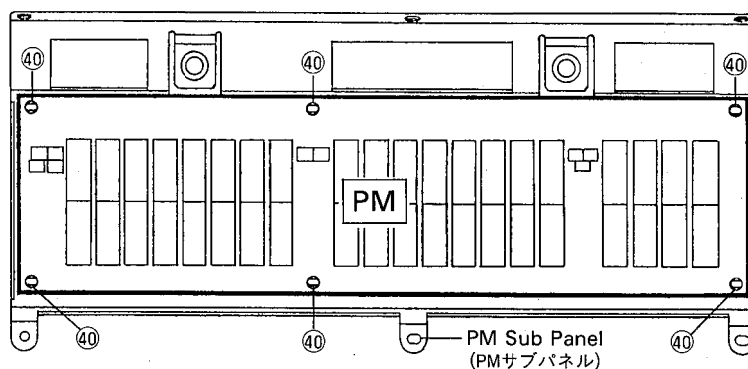
(Fig. 18)

17. Removing the PM circuit board

- 17-1. Open the main unit. (see procedure 1)
- 17-2. Remove the PM circuit board together with the PM sub-panel by removing the six (6) screws marked ④① . (Fig. 14)
- 17-3. Remove the PM circuit board by pressing the hook of the six (6) locking card spacers marked ④② and by pulling out the connector. (Fig. 19)

17. PMシートの外し方

- 17-1. 本体を開けます。(1項参照)
- 17-2. ④①のネジ6本を外して、PMサブパネルと共にPMシートを取り外します。(図14)
- 17-3. ④②のロックカードスペーサー6個のフックを外し、コネクタを抜いてPMシートを取り外します。(図19)



(Fig. 19)

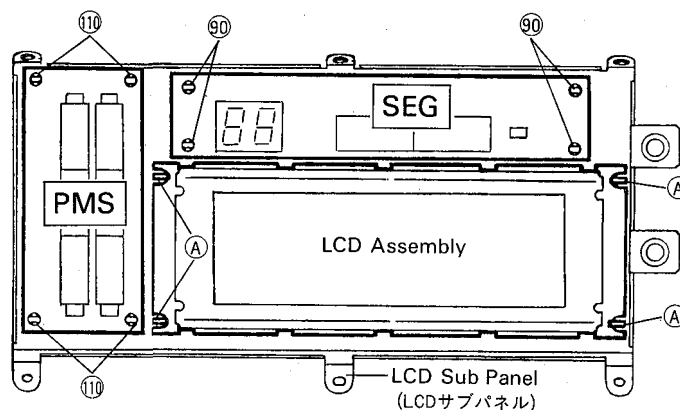
18. Removing the LCD assembly, SEG and PMS circuit boards

- 18-1. Open the main unit. (see procedure 1)
- 18-2. Remove the LCD assembly, the circuit boards SEG and PMS together with the LCD sub-panel, by removing the six (6) screws marked ④③ . (Fig. 14)
- 18-3. Removing the LCD assembly
 - 18-3-1. Remove the LCD assembly from the hooks at four (4) places in section A . (Service parts are kept with the LCD itself) (Fig. 20)
- 18-4. Removing the SEG circuit board
 - 18-4-1. Remove the SEG circuit board by pressing the hooks of the four (4) locking card spacers marked ④④ and by pulling out the connector. (Fig. 20)
- 18-5. Removing the PMS circuit board
 - 18-5-1. Remove the PMS circuit board by pressing the hooks of the four (4) locking card spacers marked ④⑤ and by pulling out the connector. (Fig. 20)

18. LCD Ass'y、SEGシート、PMSシートの外し方

- 18-1. 本体を開けます。(1項参照)
- 18-2. ④③のネジ6本を外して、LCDサブパネルと共にLCD Ass'y、SEGシート、PMSシートを取り外します。(図14)
- 18-3. LCD Ass'yの外し方
 - 18-3-1. ④③のフック4箇所からLCD Ass'yを外して、取り外します。(図20)

*ただし、サービス部品はLCD単体で保有しています。
- 18-4. SEGシートの外し方
 - 18-4-1. ④④のロックカードスペーサー4個のフックを外し、コネクタを抜いてSEGシートを取り外します。(図20)
- 18-5. PMSシートの外し方
 - 18-5-1. ④⑤のロックカードスペーサー4個のフックを外し、コネクタを抜いてPMSシートを取り外します。(図20)



(Fig. 20)

19. Removing the PMD circuit board

- 19-1. Open the main unit. (see procedure 1)
- 19-2. Remove the PMD circuit board by removing the four (4) screws marked ①60 and the two (2) screws marked ①65 and by pulling out the connector. (Fig. 17)

20. Removing the CA circuit board

- 20-1. Open the main unit. (see procedure 1)
- 20-2. Remove the CA circuit board by removing the two (2) screws marked ②20 and by pulling out the connector. (Fig. 17)

21. Opening the front panel assembly

- 21-1. Move the unit towards you to the end of the bench because the front panel assembly opens downwards. (Fig. 21)
- 21-2. Open the main unit. (see procedure 1)
- 21-3. Open the front panel assembly towards you by removing the nine (9) screws marked ①30. (Fig. 22 and 23)

19. PMDシートの外し方

- 19-1. 本体を開けます。(1項参照)
- 19-2. ①60のネジ4本と①65のネジ2本を外し、コネクタを抜いてPMDシートを取り外します。(図17)

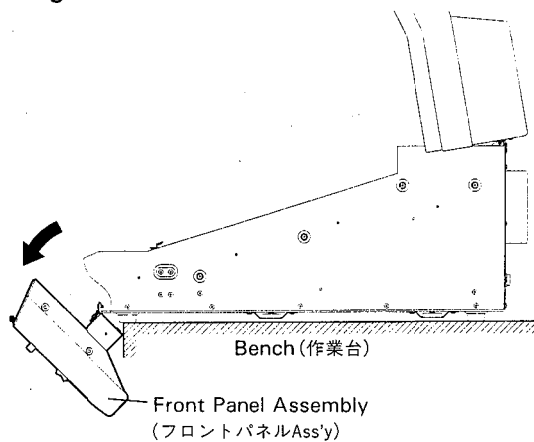
20. CAシートの外し方

- 20-1. 本体を開けます。(1項参照)
- 20-2. ②20のネジ2本を外し、コネクタを抜いてCAシートを取り外します。(図17)

21. フロントパネルAss'yの開け方

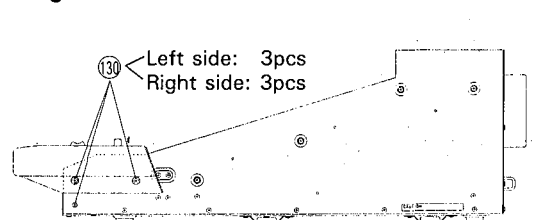
- 21-1. フロントパネルAss'yは図21に示すように下側に開くので、本体を作業台の手前にずらしてから作業を始めて下さい。(図21)
- 21-2. 本体を開けます。(1項参照)
- 21-3. ①30のネジ9本を外して、フロントパネルAss'yを手前に開けます。(図22、23)

● Right side view

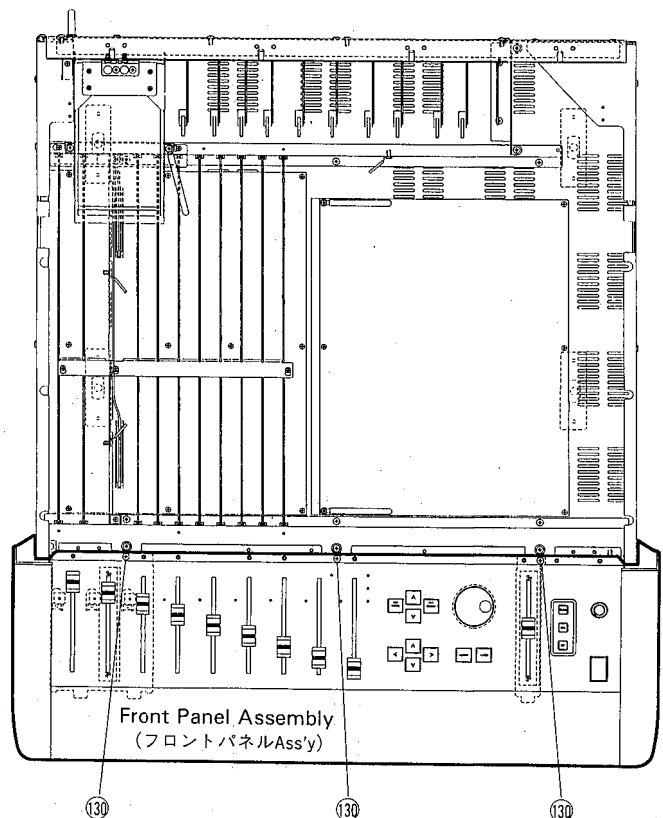


(Fig. 21)

● Right side view



(Fig. 23)



(Fig. 22)

22. Removing the DTB circuit board

- 22-1. Open the main unit. (see procedure 1)
 22-2. Open the front panel assembly. (see procedure 21)
 22-3. Remove the DTB circuit board by removing the four (4) screws marked ⑤⑧ and by pulling out the connector. (Fig. 24)

22. DTBシートの外し方

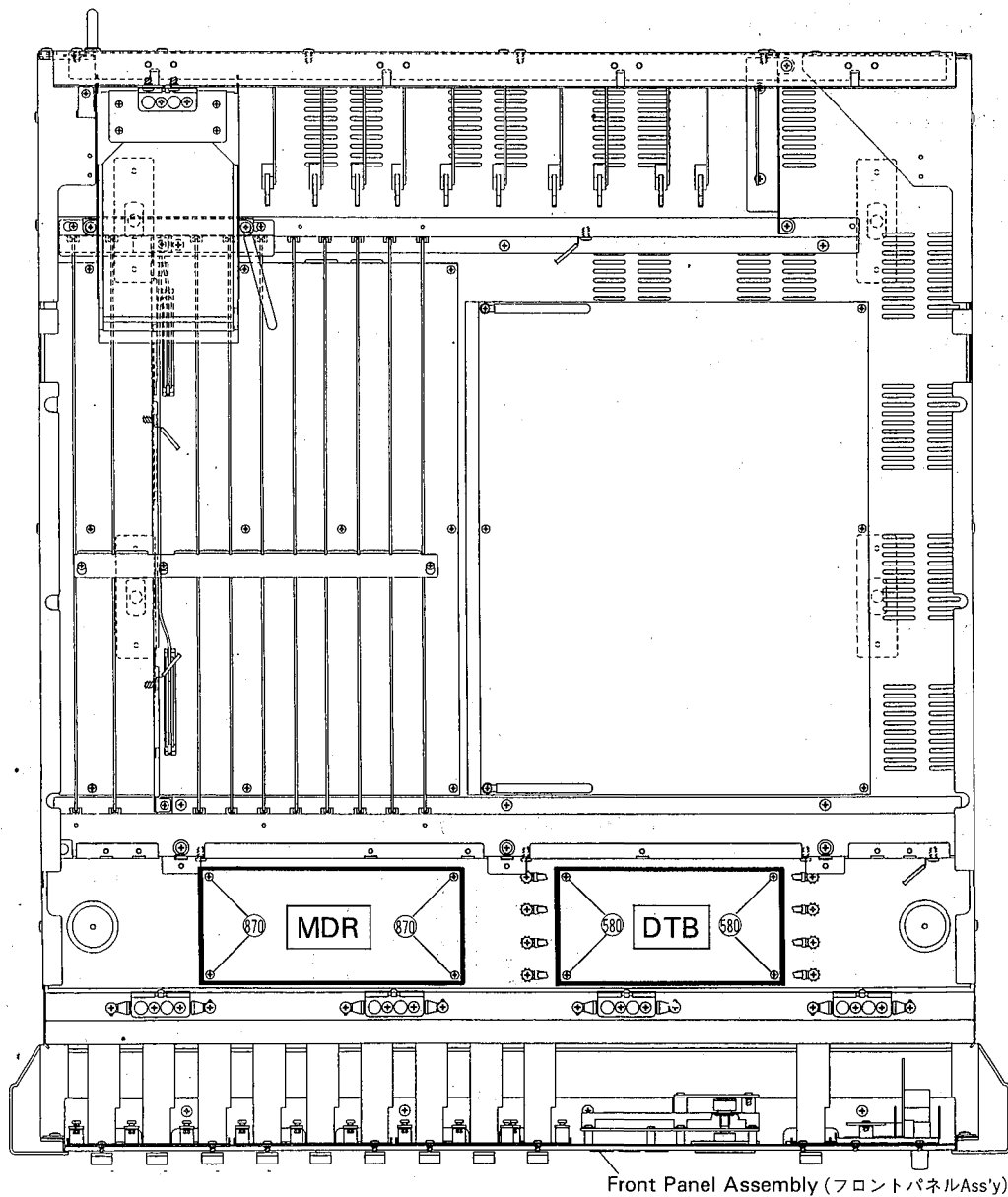
- 22-1. 本体を開けます。(1項参照)
 22-2. フロントパネルAss'yを開けます。(21項参照)
 22-3. ⑤⑧のネジ4本を外し、コネクタを抜いてDTBシートを取り外します。(図24)

23. Removing the MDR circuit board

- 23-1. Open the main unit. (see procedure 1)
 23-2. Open the front panel assembly. (see procedure 21)
 23-3. Remove the MDR circuit board by removing the four (4) screws marked ⑤⑦ and by pulling out the connector. (Fig. 24)

23. MDRシートの外し方

- 23-1. 本体を開けます。(1項参照)
 23-2. フロントパネルAss'yを開けます。(21項参照)
 23-3. ⑤⑦のネジ4本を外し、コネクタを抜いてMDRシートを取り外します。(図24)



(Fig. 24)

24. Removing the NML circuit boards 1/10 ~ 10/10 and the faders (1) ~ (9)

- 24-1. Open the main unit. (see procedure 1)
 - 24-2. Open the front panel assembly. (see procedure 21)
 - 24-3. Removing the NML circuit boards 1/10 ~ 10/10 and the faders (1) ~ (3)
 - 24-3-1. Remove the three (3) fader controls of the faders (1) ~ (3) by pulling them out.
 - 24-3-2. Remove the faders and the NML circuit boards together with the fader sub-panel by removing the two (2) screws marked 85 and by pulling out the connector. (Fig. 25)
 - 24-3-3. Remove NML circuit boards 1/10 ~ 3/10 respectively by removing one plastic rivet marked 80 for each circuit board. (Fig. 26)
 - 24-3-4. Remove the faders (1) ~ (3) respectively by removing the two (2) screws marked 60. (Fig. 26)
 - 24-3-5. Remove the NML circuit boards 4/10 ~ 6/10 and the faders (4) ~ (6), and NML circuit boards 7/10 ~ 10/10 and the faders (7) ~ (9) in the same way.
- * Take care because the LED can bend easily when replacing the NML circuit board.

24. NMLシート1/10~10/10、フェーダー(1)~(9)の外し方

- 24-1. 本体を開けます。(1項参照)
 - 24-2. フロントパネルAss'yを開けます。(21項参照)
 - 24-3. NMLシート1/10~3/10とフェーダー(1)~(3)の外し方
 - 24-3-1. パネル面からフェーダー(1)~(3)のフェーダーつまみ3個を抜き取ります。
 - 24-3-2. 85のネジ2本を外し、コネクタを抜いて、フェーダーサブパネルと共にフェーダーとNMLシートを取り外します。(図25)
 - 24-3-3. NMLシート1/10~3/10は、80のプラスチックリベットを1個ずつ外して、それぞれ取り外します。(図26)
 - 24-3-4. フェーダー(1)~(3)は、60のネジを2本ずつを外して、それぞれ取り外します。(図26)
 - 24-3-5. NMLシート4/10~6/10とフェーダー(4)~(6)、NMLシート7/10~10/10とフェーダー(7)~(9)も同じようにして取り外します。
- * NMLシートを取り付ける時、LEDが曲がりやすいので注意して下さい。

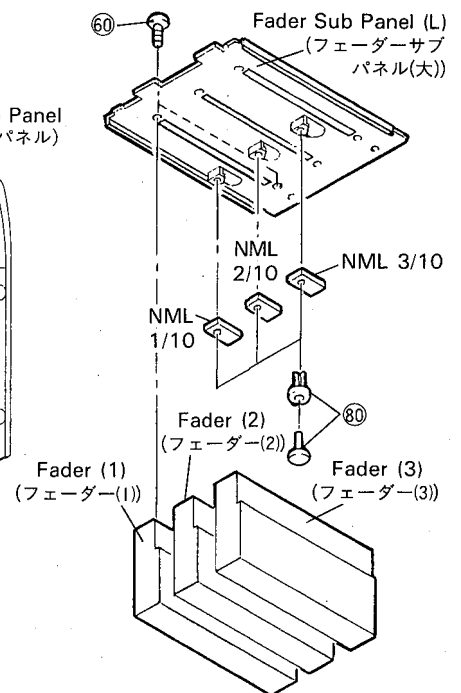
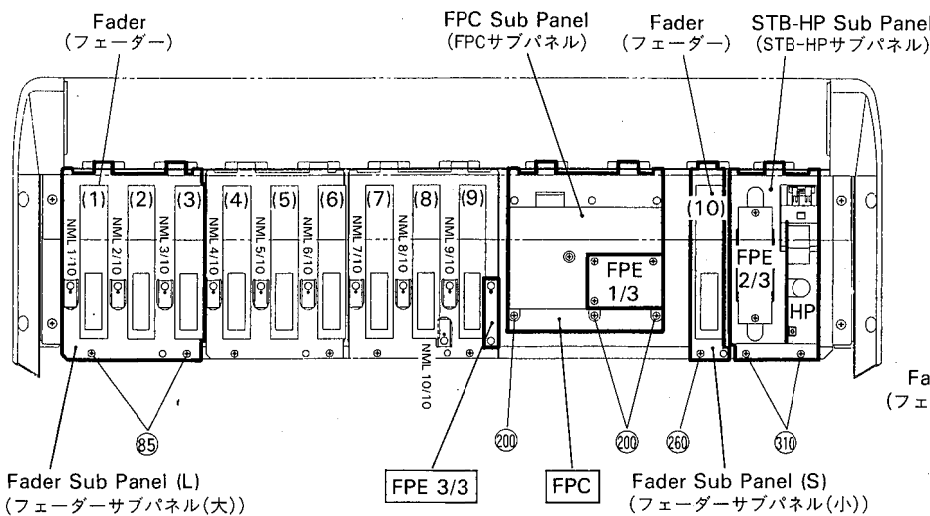
25. Removing the FPE3/3 circuit board

- 25-1. Open the main unit. (see procedure 1)
- 25-2. Open the front panel assembly. (see procedure 21)
- 25-3. Remove the FPE3/3 circuit board by removing the two (2) plastic rivets. (Fig. 25)

25. FPE3/3シートの外し方

- 25-1. 本体を開けます。(1項参照)
- 25-2. フロントパネルAss'yを開けます。(21項参照)
- 25-3. プラスチックリベット2ヶを外して、FPE3/3シートを外します。(図25)

● Front Panel Assembly



26. Removing the fader-(10)

- 26-1. Open the main unit. (see procedure 1)
- 26-2. Open the front panel assembly. (see procedure 21)
- 26-3. Remove the fader control for the fader-(10) by pulling it out.
- 26-4. Remove the fader-(10) together with the fader sub-panel (small) by removing one screw marked ②⑥ and by pulling out the connector. (Fig. 25)
- 26-5. Remove the fader-(10) by removing the two (2) screws marked ⑤① . (Fig. 27)

26. フェーダー(10)の外し方

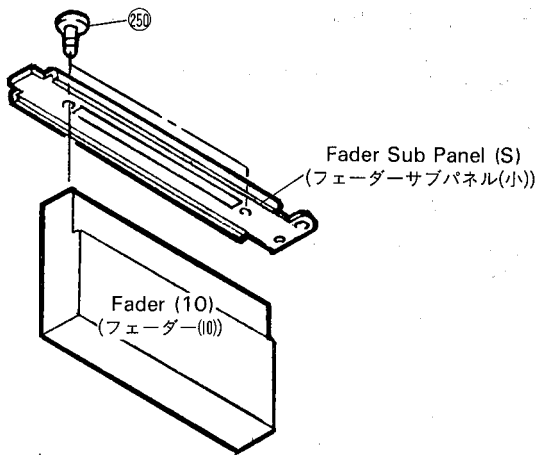
- 26-1. 本体を開けます。(1項参照)
- 26-2. フロントパネルAss'yを開けます。(21項参照)
- 26-3. パネル面から、フェーダー(10)のフェーダーツマミ1個を抜き取ります。
- 26-4. ②⑥のネジ1本を外し、コネクタを抜いてフェーダーサブパネル(小)と共にフェーダー(10)を取り外します。(図25)
- 26-5. ⑤①のネジ2本を外して、フェーダー(10)を取り外します。(図27)

27. Removing the FPC circuit board and FPE1/3 circuit board

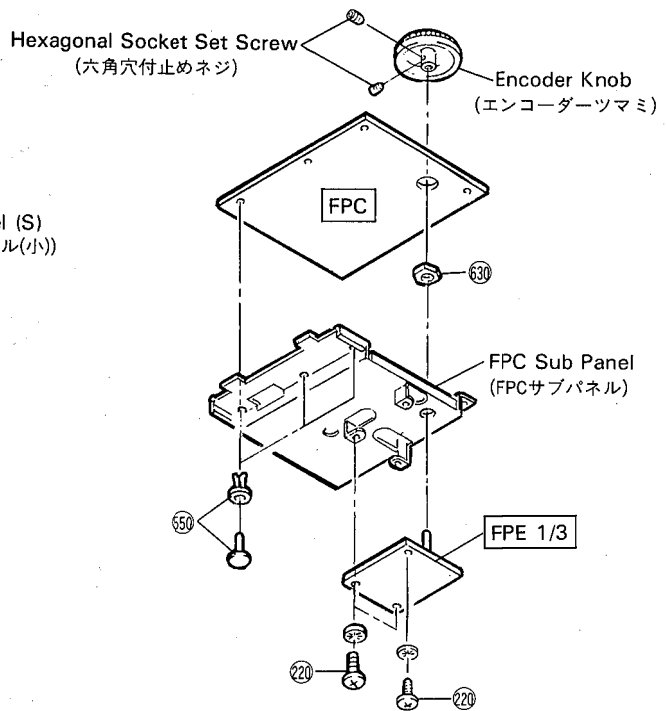
- 27-1. Open the main unit. (see procedure 1)
- 27-2. Open the front panel assembly. (see procedure 21)
- 27-3. Remove the FPC circuit board and FPE1/3 circuit board together with FPC sub-panel by removing the three (3) screws marked ②⑩ and by pulling out the connector. (Fig. 25)
- 27-4. Pull out the encoder control by loosening the two hexagon socket set screws. (Fig. 28)
- 27-5. Removing the FPC circuit board
- 27-5-1. Remove the FPC circuit board by removing the three (3) plastic rivets marked ⑤① . (Fig. 28)
- 27-6. Removing the FPE1/3 circuit board
- 27-6-1. Remove the FPE1/3 circuit board by removing one hexagon nut marked ⑥③ and the three (3) screws marked ②① . (Fig. 28)

27. FPCシート、FPE1/3シートの外し方

- 27-1. 本体を開けます。(1項参照)
- 27-2. フロントパネルAss'yを開けます。(21項参照)
- 27-3. ②⑩のネジ3本を外し、コネクタを抜いて、FPCサブパネルと共にFPCシートとFPE1/3シートを取り外します。(図25)
- 27-4. 六角穴付止めネジ2本をゆるめて、エンコーダーツマミを抜き取ります。(図28)
- 27-5. FPCシートの外し方
- 27-5-1. ⑤①のプラスチックリベット3個を外して、FPCシートを取り外します。(図28)
- 27-6. FPE1/3シートの外し方
- 27-6-1. ⑥③の六角ナット1個と②①のネジ3本を外して、FPE1/3シートを取り外します。(図28)



(Fig. 27)



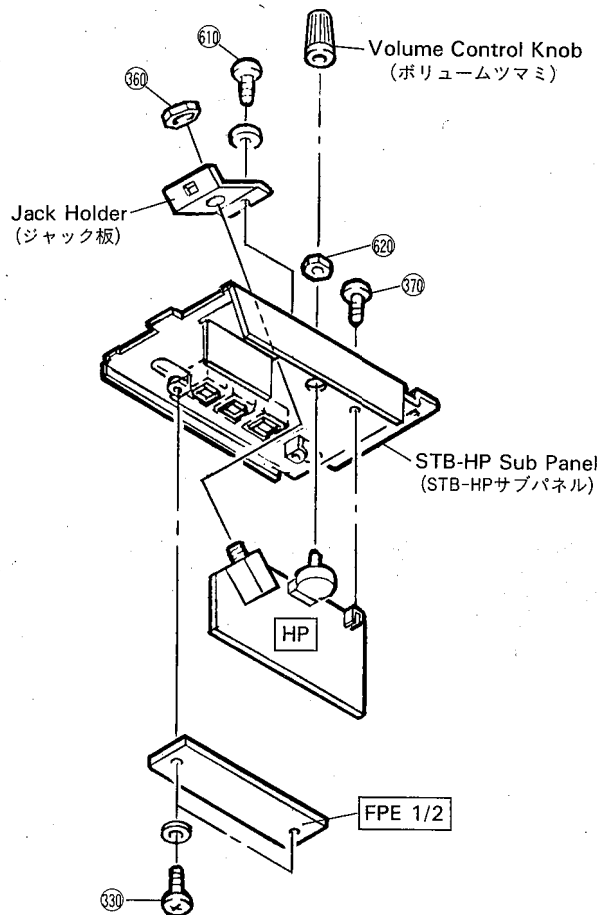
(Fig. 28)

28. Removing the FPE2/3 circuit board and HP circuit board

- 28-1. Open the main unit. (see procedure 1)
- 28-2. Open the front panel assembly. (see procedure 21)
- 28-3. Remove the FPE2/3 circuit board and HP circuit board together with the STB-HP sub-panel by removing the two (2) screws marked ①⑩ and by pulling out the connector. (Fig. 25)
- 28-4. Removing the FPE2/3 circuit board
 - 28-4-1. Remove the FPE2/3 circuit board by removing the two (2) screws marked ③⑩ (Fig. 29)
- 28-5. Removing the HP circuit board
 - 28-5-1. Remove the jack holder by removing one hexagon nut marked ④⑥ and one screw marked ⑤⑩ . (Fig. 29)
 - 28-5-2. Remove the HP circuit board by pulling out the volume control and removing the hexagon nut marked ⑥② and the screw marked ⑦⑩ . (Fig. 29)

28. FPE2/3シート、HPシートの外し方

- 28-1. 本体を開けます。(1項参照)
- 28-2. フロントパネルAss'yを開けます。(21項参照)
- 28-3. ①⑩のネジ2本を外し、コネクターを抜いて、STB-HPサブパネルと共にFPE2/3シートとHPシートを取り外します。(図25)
- 28-4. FPE2/3シートの外し方
 - 28-4-1. ③⑩のネジ2本を外して、FPE2/3シートを取り外します。(図29)
- 28-5. HPシートの外し方
 - 28-5-1. ④⑥の六角ナット1個と⑤⑩のネジ1本を外して、ジャック板を取り外します。(図29)
 - 28-5-2. ボリュームつまみ1個を抜き取り、⑥②の六角ナット1個と⑦⑩のネジ1本を外して、HPシートを取り外します。(図29)



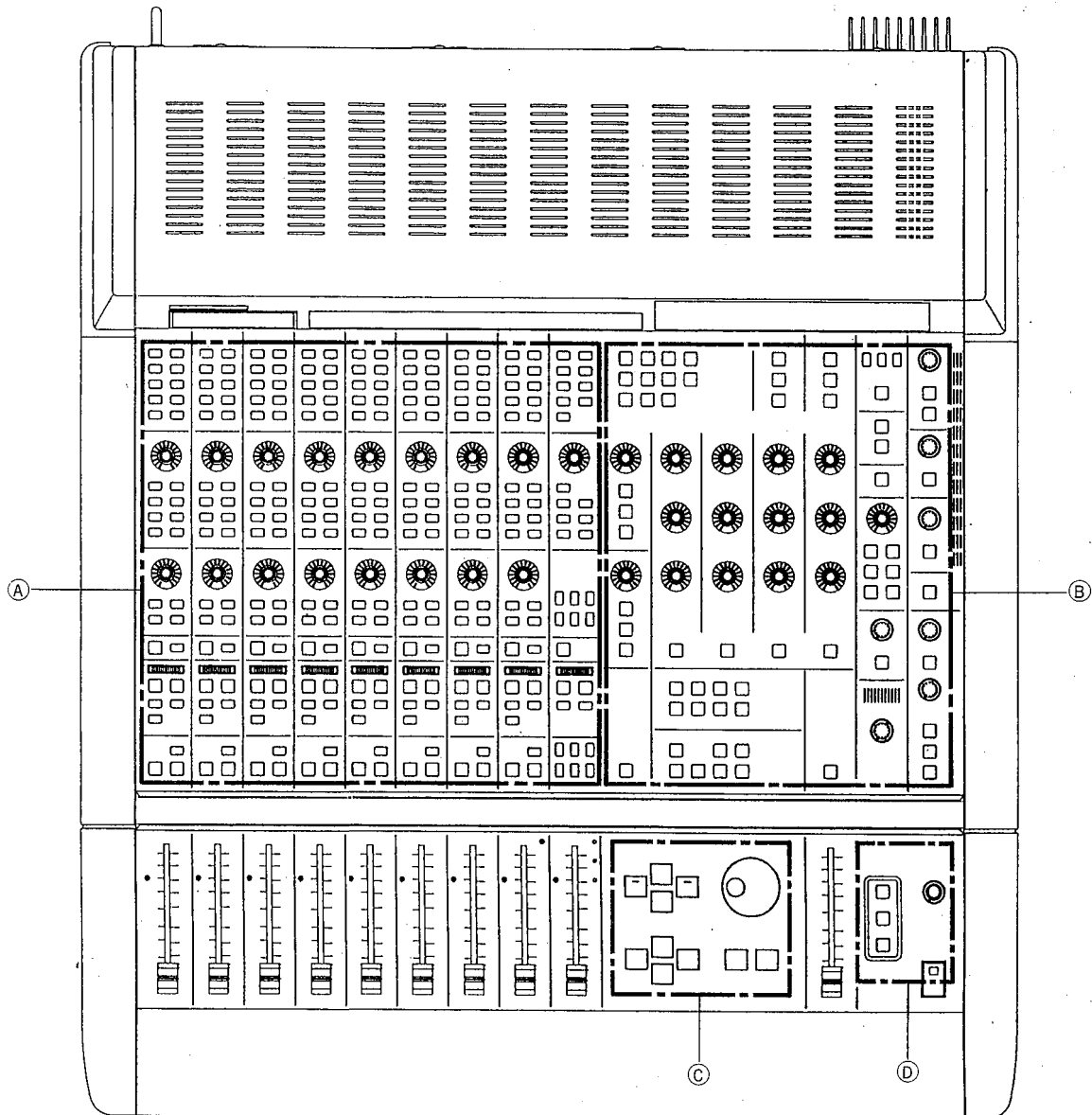
(Fig. 29)

29. Removing the push button assembly, controls, and top cap assembly

- 29-1. Remove the push button assembly and controls in section ④ by removing the REL and PNL circuit boards. (Fig. 30)
- 29-2. Remove the push button assembly, knobs and controls in section ⑤ by removing the PND, RER and PNR circuit boards. (Fig. 30)
- 29-3. Remove the push button assembly and encoder control in section ③ by removing the FPC and FPE1/3 circuit boards together with the FPC sub-panel. (Fig. 30)
- 29-4. Remove the push button assembly and volume controls in section ② by removing the FPE2/3 and HP circuit boards together with the STB-HP sub-panel. (Fig. 30)

29. プッシュボタンAss'y、ツマミ類、トップキャップAss'yの外し方

- 29-1. ④部のプッシュボタンAss'yとノブは、RELシートとPNLシートを外して取り外します。(図30)
- 29-2. ⑤部のプッシュボタンAss'yとノブとツマミは、PNDシートとRERシートとPNRシートを外して取り外します。(図30)
- 29-3. ③部のプッシュボタンAss'yとエンコーダツマミは、FPCサブパネルと共にFPCシートとFPE1/3シートを外して取り外します。(図30)
- 29-4. ②部のプッシュボタンAss'yとボリュームツマミは、STB-HPサブパネルと共にFPE2/3シートとHPシートを外して取り外します。(図30)



(Fig. 30)

● **Special parts for service**

The following parts are provided for service purpose only.

1. Stay (TX800230)
2. Extension circuit board set (TX800220)
 - Extension circuit board EXT 1
 - Extension circuit board EXT 2
 - 6-pin connector assembly
 - Clip cord

The following part should be prepared when using the extension circuit board EXT 2.

- 100-pin connector assembly (VL663800)

1. Installing the stay (Fig. 1)

- 1-1. Open the main unit and insert the "L" side (lower side) of the stay into the stay (medium).
- 1-2. Insert the other end (upper side) of the stay into the large sub-panel (left).
- 1-3. Secure the top end of the stay by turning it into the direction of the arrow. Make sure that the top and bottom of the stay do not come off at this point.

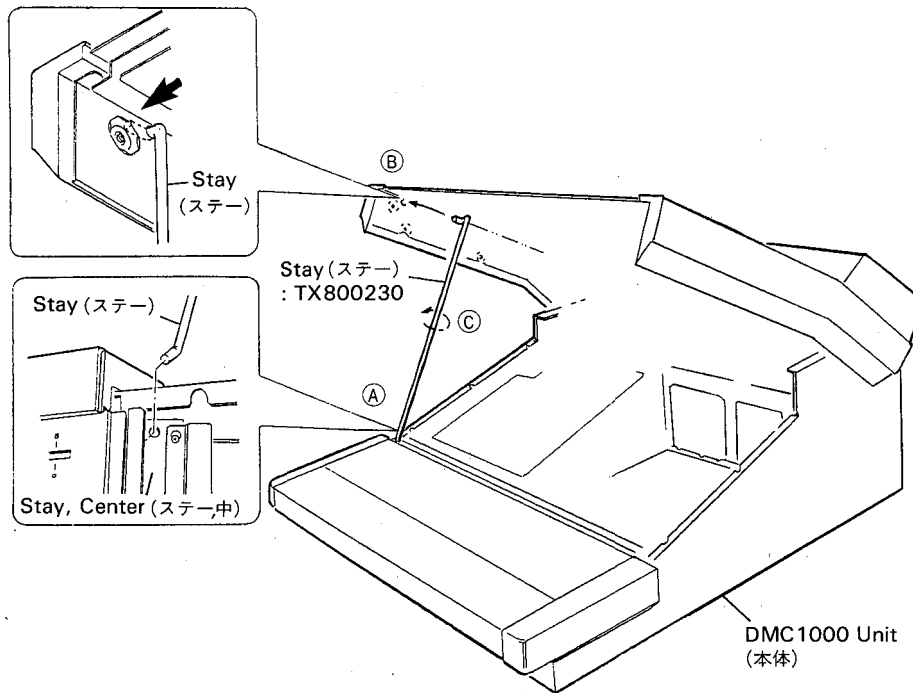
● **サービス専用部品の使い方**

サービス専用部品として、次の部品が用意されています。

- 1ステー(TX800230)
- 2延長基板セット(TX800220)
 - 延長基板EXT1シート
 - 延長基板EXT2シート
 - 6ピン線材Ass'y
 - クリップコード
- 延長基板EXT2シートを使用するとき、次の部品を用意します。
- 100ピン線材Ass'y(VL663800)

1. スターの取り付け方(図1参照)

- 1-1. 本体を開け、スターのL字側(下側)をスター(中)の穴に差し込みます。
- 1-2. スターのもう一端(上側)をサブパネル大(左)の穴に差し込みます。
- 1-3. スターの上端を矢印の方向に回して固定します。このとき、スターの上下が共に抜けないことを十分確認してください。



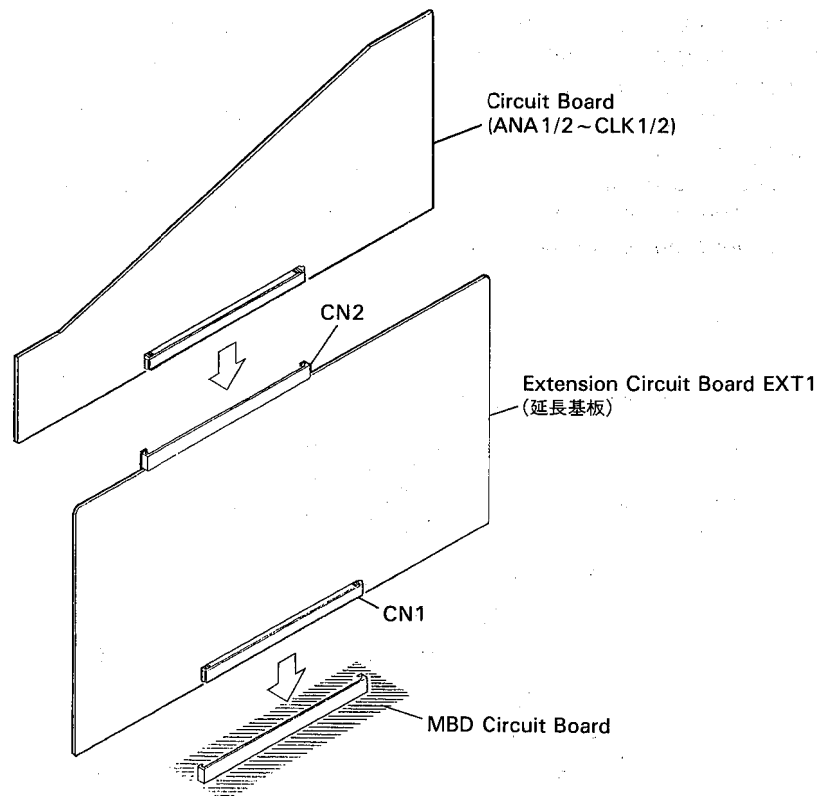
(Fig. 1)

2. Using the extension EXT 1 circuit board (Fig. 2)

- 2-1. This is used to check the circuit boards (ANA 1/2 circuit board ~ CLK2/2 circuit board) which are mounted on the MBD circuit board.
- 2-2. Pull out the circuit board to be checked and insert the connector CN1 of the extension EXT 1 circuit board to the connector on the MBD circuit board side.
- 2-3. Insert the connector of the circuit board to be checked to the connector CN2 of the EXT 1 circuit board.

2. 延長基板EXT1シートの使い方(図2参照)

- 2-1. MBDシートに取り付けられているシート(ANA1/2シート~CLK2/2シート)をチェックするときに使用します。
- 2-2. チェックするシートを引き抜き、MBDシート側のコネクタに延長基板EXT1シートのコネクタ-CN1を差し込みます。
- 2-3. チェックするシートのコネクタを、EXT1シートのコネクタ-CN2に差しこみます。



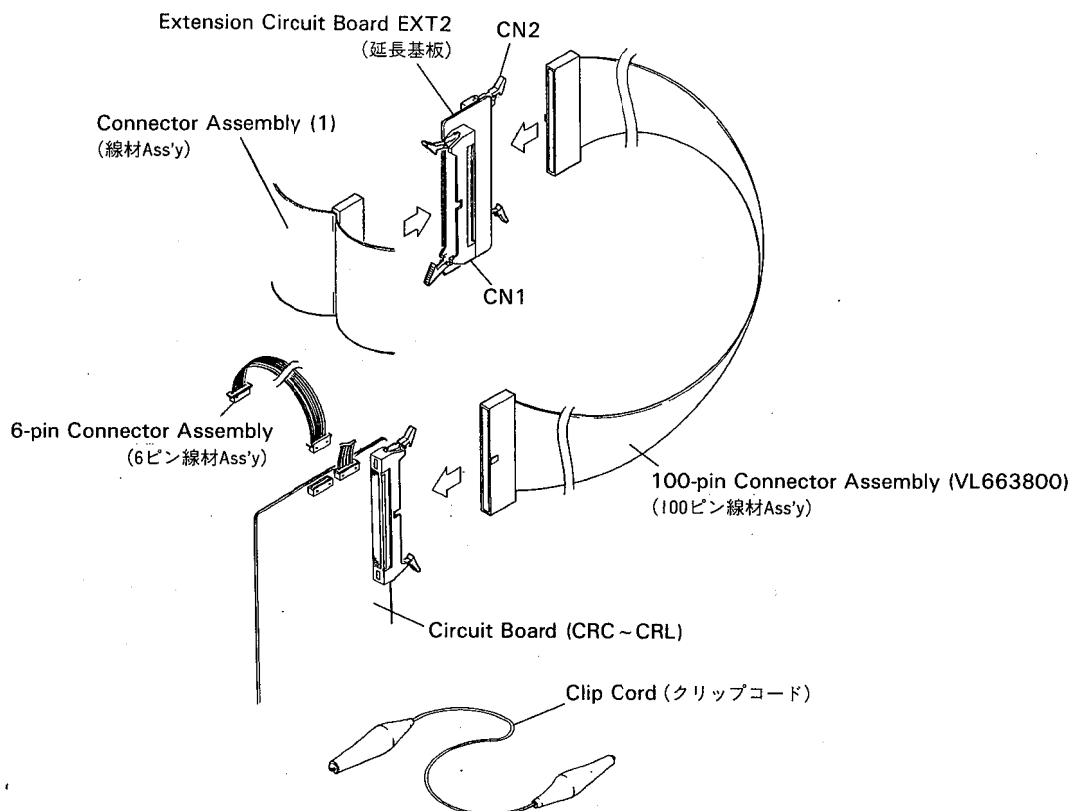
(Fig. 2)

3. Using the extension circuit board EXT 2 (Fig. 3)

- 3-1. This is used to check the circuit boards (CRC circuit board ~ CRL circuit board) which are mounted on the rear panel.
- 3-2. Remove the circuit board to be checked and insert the connector of the cable assembly (1) into the connector CN1 of the extension circuit board EXT 2.
- 3-3. Insert one end of the 100-pin connector assembly (VL663800), provided separately, into the connector of the circuit board to be checked. Insert the other end of the connector into the connector CN2 of the EXT 2 circuit board.
- 3-4. Connect the connector CN3 of the circuit board next to the circuit board to be checked and the connector CN2 of the circuit board to be checked with the 6-pin connector assembly of the extension circuit board set.
- 3-5. Ground with a clip cord when necessary.
- 3-6. In this way the circuit boards can be checked while they are connected to the main unit.

3. 延長基板EXT2シートの使い方(図3参照)

- 3-1. リアパネルに取り付けられているシート(CRCシート ~ CRLシート)をチェックするときに使用します。
- 3-2. チェックするシートを取り外し、線材Ass'y(1)のコンネクターを延長基板EXT2シートのコンネクターCN1に差し込みます。
- 3-3. 別に用意した100ピンの線材Ass'y(VL663800)の片側を、チェックするシートのコンネクターに差し込みます。そして、もう一方のコンネクターを、EXT2シートのコンネクターCN2に差し込みます。
- 3-4. 次に、チェックするシートの隣のシートのコンネクターCN3とチェックするシートのコンネクターCN2を、延長基板セットの6ピンの線材Ass'yで接続します。
- 3-5. 必要に応じて、クリップコードでアースを取ります。
- 3-6. こうすることにより、本体にシートを接続した状態でシートをチェックすることができます。



(Fig. 3)

III. LSI PIN DESCRIPTION (LSI端子機能表)

■CONTENTS (目次)

HD68HC000PS12 (XC806A00) CPU	III- 1
MSM58321RS (IG090400) RTC	III- 1
AK5328-VP (X1521A00) ADC	III- 2
YM3422B (XE862B00) ESI	III- 2
YM3437 (XG949A00) DIT2	III- 2
YM3436BG (XG948C00) DIR2	III- 3
YM3934 (XE798A00) PMM2	III- 3
YM6035 (XE800A00) PSC2	III- 4
YM6104 (XE788A00) DEQ2	III- 4
YM6007 (XF164A00) DSP2	III- 5
YM6067 (XH494A00) PSC4	III- 6
YM6604 (XH497A00) ACIA	III- 7
YM3807 (IT380700) MOD	III- 8
HD46508A-1 (IG129200) DATA IN	III- 8
HD63B03RP (IG105200) CPU	III- 8
HD63C01Y0RS37P (XH499B00) CPU	III- 9
μ PD71055C (XB361001) PPI	III- 9
μ PD71054C (XC310A00) P.T.C	III-10
μ PD8279C-2 (XC519001) CPU	III-10
WD1772PH-02 (XB623001) FDC	III-10
SM5803APT (XH751A00) DIGITAL FILTER	III-11
PCM63P-KY (XH987A00) DAC	III-11

■INDEX (索引)

AK5328-VP (X1521A00) ADC	III- 2
HD63B03RP (IG105200) CPU	III- 8
HD63C01Y0RS37P (XH499B00) CPU	III- 9
HD68HC000PS12 (XC806A00) CPU	III- 1
HD46508A-1 (IG129200) DATA IN	III- 8
MSM58321RS (IG090400) RTC	III- 1
PCM63P-KY (XH987A00) DAC	III-11
SM5803APT (XH751A00) DIGITAL FILTER	III-11
WD1772PH-02 (XB623001) FDC	III-10
YM3422B (XE862B00) ESI	III- 2
YM3436BG (XG948C00) DIR2	III- 3
YM3437 (XG949A00) DIT2	III- 2
YM3807 (IT380700) MOD	III- 8
YM3934 (XE798A00) PMM2	III- 3
YM6007 (XF164A00) DSP2	III- 5
YM6035 (XE800A00) PSC2	III- 4
YM6067 (XH494A00) PSC4	III- 6
YM6104 (XE788A00) DEQ2	III- 4
YM6604 (XH497A00) ACIA	III- 7
μ PD71054C (XC310A00) P.T.C	III-10
μ PD71055C (XB361001) PPI	III- 9
μ PD8279C-2 (XC519001) CPU	III-10

● HD68HC000PS12 (XC806A00) CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	D4	I/O	Data bus	33	A5	O	Address bus
2	D3	I/O		34	A6	O	
3	D2	I/O		35	A7	O	
4	D1	I/O		36	A8	O	
5	D0	I/O		37	A9	O	
6	AS	O	Address strobe	38	A10	O	
7	UDS	O	Upper address strobe	39	A11	O	
8	LDS	O	Lower address strobe	40	A12	O	
9	R/W	O	Read/write control	41	A13	O	
10	DTACK	I	Data transfer acknowledge	42	A14	O	
11	BG	O	Bus grant	43	A15	O	
12	BGACK	I	Bus grant acknowledge	44	A16	O	
13	BR	I	Bus request	45	A17	O	
14	Vcc	I	DC supply	46	A18	O	
15	CLK	I	Clock	47	A19	O	
16	Vss	I	Ground	48	A20	O	
17	HALT	I/O	Halt (Open Drain)	49	Vcc	O	DC supply
18	RES	I/O	Reset (Open Drain)	50	A21	O	
19	VMA	I	Valid memory address	51	A22	O	Address bus
20	E	I	Enable	52	A23	O	
21	VPA	I	Valid peripheral address	53	Vss	O	Ground
22	BERR	I	Bus error	54	D15	I/O	Data bus
23	IPL2	I	Interruption priority level 2	55	D14	I/O	
24	IPL1	I	Interruption priority level 1	56	D13	I/O	
25	IPL0	I	Interruption priority level 0	57	D12	I/O	
26	FC2	O	Function code 2	58	D11	I/O	
27	FC1	O	Function code 1	59	D10	I/O	
28	FC0	O	Function code 0	60	D9	I/O	
29	A1	O	Address bus	61	D8	I/O	
30	A2	O		62	D7	I/O	
31	A3	O		63	D6	I/O	
32	A4	O		64	D5	I/O	

● MSM5832IRS (IG090400) RTC (Real Time Clock)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	CS2	I	Chip select 2	9	ADWR	I	Address input
2	WR	I	Write control	10	BUSY	I	Busy
3	RD	I	Read control	11	STDP	O	Standard pulse
4	D0	I/O	Data bus	12	TEST	I	Test pin
5	D1	I/O		13	CS1	I	Chip select 1
6	D2	I/O		14	XT	I	Clock
7	D3	I/O		15	XT	I	
8	GND	I	Ground	16	VPP	I	Power supply

● AK5328-VP (X1521A00) ADC (Analog to Digital Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	AGND	I	Analog ground	15	SCLK	I	Serial output data clock
2	AINL	I	Left channel analog input	16	SDATA	O	Serial data output
3	ZEROL	I	Zero level input for left channel	17	VD1+	I	Positive digital power supply
4	VA+	I	Positive analog power supply	18	VD2+	I	Positive digital power supply
5	VA-	I	Negative analog power supply	19	DGND	I	Digital ground
6	APD	I	Analog power down	20	DCLKA	I	Digital section input clock
7	ACAL	I	Analog calibrate	21	NC	I	No connection
8	NC	I	No connection	22	ACLKA	O	Analog section output clock
9	DCAL	O	Digital calibrate output	23	CLKIN	I	Master input clock
10	DPD	I	Digital power down	24	LGND	I	Logic ground
11	TST1	I	Test inputs	25	VL+	I	Positive logic power supply
12	TST2	I		26	ZEROR	I	Zero level input for right channel
13	TST3	I		27	AINR	I	Right channel analog input
14	L/R	I	Left/Right select	28	VREF	O	Voltage reference output

● YM3422B (XE862B00) ESI (Format Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	Vss	I	Ground	9	M0	I	Mode select
2	SI0	I	Serial data input 0	10	M1	I	
3	SO0	O	Serial data output 0	11	M2	I	
4	BC0	I	Clock CH0	12	M3	I	
5	WC0	I	W-clock CH1	13	WC1	I	W-clock CH1
6	SI2	I	Serial data input 2	14	BC1	I	Clock CH1
7	SO2	O	Serial data output 2	15	SO1	O	Serial data output 1
8	VDD	I	Power supply	16	SI1	I	Serial data input 1

● YM3437 (XG949A00) DIT2 (Digital Format Interface Transmitter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	Vss	I	Ground	9	MUTE	I	Mute
2	MCLK	I	Master clock input	10	VFL	I	Validity flag
3	DM0	I	DIN/BCLK/WCLK format select	11	CCK	I	C, U bit clock input/C bit data input
4	DM1	I	DM1, DM0=0,0 DSP, LDSP (64bit, LSB first) DM1, DM0=0,1 stereo DSP (64bit, MSB first) DM1, DM0=1,0 DSP2 (128bit, MSB first) DM1, DM0=1,1 BB (64bit, MSB first)	12	CIN	I	C, U bit data input/U bit data input
5	RES	I	System reset	13	CLD	I	End of C, U bit input/16, 20bit/24bit select
6	WCIN	I	Word clock input	14	CNTR	I	32bit counter reset/Top of block
7	DIN	I	Digital audio serial data input	15	CSM	I	Channel status input mode select CSM=0 Asynchronous mode, CSM=1 Synchronous mode
8	VDD	I	Power supply (+5V)	16	DOUT	O	Digital interface formatted data output

● YM3436BG (XG948C00) DIR2 (Digital Format Interface Receiver)

Pin No.	Name	I/O	Function	Pin No.	Name	I/O	Function
1	DAUX	I	Audio data aux. input	23	RSTN	I	System reset
2	HDLT	O	Buffer enable	24	VDDA		Power supply +5V (VCO)
3	DOUT	O	Audio data output	25	CTLN	I	VCO control input N
4	VFL	O	Validity flag	26	PCO	O	PLL phase compare
5	OPT	O	DAC synchronous data (Fsx1)	27	NC		
6	SYNC	O	DSP synchronous data (Fsx1)	28	CTLP	I	VCO control input P
7	MCC	O	Bit clock (Fsx64)	29	VSSA		Ground (VCO)
8	WC	O	Word clock (Fsx1)	30	TSTN	I	Test pin
9	MCB	O	Bit clock (Fsx128)	31	KM2	I	Clock mode select 2
10	MCA	O	Bit clock (Fsx256)	32	KM0	I	Clock mode select 0
11	SKSY	I	Clock synch. control	33	FS1	O	Sampling frequency display output 1
12	XI	I	Clock	34	FS0	O	Sampling frequency display output 0
13	XO	O	Clock	35	CSM	I	Output mode select
14	P256	O	VCO clock output	36	EXTW	I	External synch. (Word clock)
15	LOCKN	O	PLL lock flag	37	DDIN	I	EIAJ (AES/EBU) data input
16	VSSN		Ground	38	LR	O	PPL word clock output
17	TC	O	PLL time constant select	39	VDD		Power supply +5V (logic)
18	DIM1	I	Data input mode select 1	40	ERR	O	Data error flag
19	DIM0	I	Data input mode select 0	41	EMP	O	Emphasis control code output
20	DOM1	I	Data output mode select 1	42	CDO	O	CPU interface control data output
21	DOM0	I	Data output mode select 0	43	CCK	I	CPU interface clock input
22	KM1	I	Clock mode select 1	44	CLD	I	CPU interface load input

● YM3934 (XE798A00) PMM2 (Peak Meter Module)

Pin No.	NAME	I/O	FUNCTION	Pin No.	NAME	I/O	FUNCTION
1	NC			33	NC		
2	NC			34	NC		
3	NC			35	NC		
4	DB11	O	Meter data output	36	DI00	I	Digital in data
5	DB10	O		37	DI01	I	
6	DB9	O		38	DI02	I	
7	DB8	O		39	DI03	I	
8	DB7	O		40	DI04	I	
9	DB6	O		41	DI05	I	
10	NC			42	NC		
11	DB5	O		43	DI06	I	
12	DB4	O		44	DI07	I	
13	DB3	O		45	DI08	I	
14	DB2	O		46	DI09	I	
15	DB1	O	47	DI10	I		
16	DB0	O	48	DI11	I		
17	NC		49	NC			
18	NC		50	NC			
19	NC		51	NC			
20	NC		52	NC			
21	OVD	I	Overflow data	53	HT1	I	Falling and holding times are determined by these inputs.
22	OMODE	I	Output mode control	54	HT0	I	
23	IMODE	I	Input mode control	55	FT1	I	
24	NC			56	FT0	I	
25	TST	I	Test pin	57	Vss		Ground
26	V _{DD}		Power supply	58	V _{DD}			Power supply
27	Vss		Ground	59	NC		
28	ICLK	I	System clock input	60	C3	O	Channel select
29	SYNC	I	Synch. pulse	61	C2	O	
30	RST	I	Initial reset	62	C1	O	
31	DIEN	I	Digital input enable	63	C0	O	
32	NC			64	NC		

● YM6035 (XE800A00) PSC2 (Parallel Serial Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION		
1	GND		Ground	41	GND		Ground		
2	NC			42	EXCA	I	MSB/LSB exchange control		
3	D15	I/O	Paralel I/O port	43	OENA	I	AES/EBU output control		
4	D14	I/O			44	DMUT			
5	D13	I/O			45	OENO	I	Output strobe (SO0-SO3)	
6	D12	I/O			46	SO4	O	Serial output	
7	D11	I/O			47	SO3	O		
8	D10	I/O			48	SO1	O		
9	DO9	I/O			49	SO0	O		
10	DO8	I/O	Ground	50	A01	I	Channel select for serial shift out latch		
11	GND				51	A00		I	
12	NC			52	GND		Ground		
13	DO7	I/O	Parallel I/O port	53	WTNO	I	Write signal to shift out latch		
14	DO6	I/O			54	DCSO	I	Data/Code select for serial shift out latch	
15	DO5	I/O			55	EXCO	I	MSB/LSB exchange for PSC	
16	DO4	I/O			56	CO1	I	Serial out format select	
17	DO3	I/O			57	CO0	I		
18	DO2	I/O			58	BCKO	O	PSC clock for serial out	
19	DO1	I/O			59	SCKO	I	PSC clock for serial out	
20	DO0	I/O	D00-D15 output control	60	SYNO	I	Synch. word for serial out & AES/EBU out		
21	OENP	I			61	MCKO	I	Master clock for serial out & AES/EBU out	
22	GND		Ground	62	TST	I	Test pin		
23	MODE	I	16/24 bit select	63	NC				
24	AE07	I	AES/EBU port	64	GND	I	Ground		
25	AE06	I			65	RESN	I	System reset	
26	AE05	I			66	MCK1	I	Master clock for serial in	
27	AE04	I			67	SYN1	I	Synch. word for for serial in	
28	AE03	I			68	SCK1	O	SPC clock for serial in	
29	AE02	I			69	BCK1	I	SPC clock for serial in	
30	AE01	I			70	C11	I	Serial IN format select	
31	AE00	I		71	C10	I			
32	VDD		Power supply	72	VDD	I	Ground		
33	BSEL	I	AES/EBU output bit control	73	EXCI	I	MSB/LSB exchange for SPC		
34	BA0	I	Parallel bus output control	74	DCSI	I	Data/Code select for SPC		
35	VAL	I	Validity data	75	A11	I	Parallel OUT register channel select		
36	AA0	I	AES/EBU shift out latch select	76	A10	I			
37	AA1	I			77	SI3	I	Serial data IN	
38	DCSA	I			78	SI2	I		
39	WTNA	I	Write signal to AES/EBU shift out latch	79	SI1	I			
40	SOA	O	AES/EBU output	80	SI0	I			

● YM6104 (XE788A00) DEQ2 (Digital Equalizer)

Pin No.	Name	I/O	Function	Pin No.	Name	I/O	Function
1	VDD	I	+5V	12	Vss	I	Earth (Ground)
2	XHD	I	Alteration of Sync. (=+5V) or Asynch. (=0V) for CDI input terminal (Synch: 1:1, Asynch: 16:1)	13, 14	SI0, SI1	I	INPUT for Serial data signal
3	CRS	I	Initialized Serial Control Interface	15, 16	SO0, SO1	O	OUTPUT for Serial data signal
4	CDI	I	Inputs of μ PGM, Para, Ser. Cont. Data of Control Reg.	17	OVF	O	Detector for OVER Flow
5	CDO	O	Outputs of μ PGM, Para, Ser Cont. Data of Control Reg.	18	TEST	I	For test. Normally connecting to +5V
6	XCLK	I	In/Out clock for CDI & CDO	19	C2	O	Output is delayed Data of 2nd bit of P. Reg. by 1 bit.
7	TRG	I	Determins transmit timing of PARA. to Para. Reg. from T BFR.	20	C1	O	Output is delayed Data of 1st bit of P. Reg. by 1 bit.
8	ESL	I	Timing determination of data for External at Ext. Shift CLK	21	C0	O	Output is delayed Data of 0 bit of P. Reg. by 1 bit.
9	ELD	I	Timing determination of data for Inner at Ext. Shift CLK	22	CEMD	I	+5V: It's necessary to input 2 Byte for CE to CDI 0V: It needs not to have a data for CE to CDI
10	ECLK	I	Input Shift CLK of IN/OUT SR at Ext Shift CLK	23	IC	I	Initialized for DEQ
11	CLK	I	System Clock	24	Sync	I	Synchro. signal for system

● YM6007 (XF164A00) DSP2 (Digital Signal Processor)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION		
1	D18	I/O	Data bus	65	NC		Serial control data output		
2	D17	I/O		66	CDO	O		Serial control data input	
3	D16	I/O		67	CDI	I		Power supply	
4	NC		Power supply	68	V _{DD}		Serial data input (28bit × 4ch)		
5	V _{DD}			69	SIO	I			
6	D15	I/O		70	NC				
7	NC		Data bus	71	NC		Serial data input (28bit × 4ch)		
8	NC			72	SI1	I		Serial data input (28bit × 2ch)	
9	D14	I/O		73	SI2	I		Serial data output (28bit × 4ch)	
10	NC		Data bus	74	SO0	O	Serial data output (28bit × 2ch)		
11	D13	I/O		75	NC			Clock (64bit/sample)	
12	D12	I/O		76	SO1	O			
13	D11	I/O	77	SO2	O				
14	NC		Data bus	78	SCLK	O	Control data receival		
15	D10	I/O		79	NC			Serial mode: Internal registor select Parallel mode: CDI, CDO data format select	
16	NC			80	NC				
17	NC		81	NC					
18	D9	I/O	Data bus	82	NC		Trigger output		
19	D8	I/O		83	TRGO	O		Trigger input	
20	D7	I/O		84	TRGI	I		Clock (Master clock × 2)	
21	NC		Data bus	85	DCLK	I	Synch. pulse		
22	D6	I/O		86	SYW	I	Initial clear		
23	D5	I/O		87	IC	I	Control data receival		
24	NC		88	NC		MDA0			
25	D4	I/O	89	MRQ	O			MDA1	
26	NC		90	MDA0	I		Serial mode: Internal registor select Parallel mode: CDI, CDO data format select		
27	D3	I/O	91	NC		MDA2			
28	NC		92	NC				MD pin input strobe	
29	D2	I/O	93	MDA1	I		MD pin output strobe		
30	D1	I/O	Data bus	94	MDA2	I	Communication mode select (0: serial 1: parallel)		
31	D0	I/O		95	NC		MD7		
32	NC			96	MWE	I		MD6	
33	CAS	O	CAS control	97	MOE	I			MD5
34	RAS	O	RAS control	98	MDS	I	MD4		
35	A9	O	Address bus	99	MD7	I/O		MD3	
36	A8	O		Ground	100	MD6			I/O	MD2
37	V _{SS}				101	NC			MD1
38	A7	O	102		NC		MD0		
39	NC		103	MD5	I/O	Parallel data			
40	A6	O	104	NC				MD3	
41	NC		105	MD4	I/O		MD2		
42	A5	O	106	NC		MD1			
43	NC		107	MD3	I/O			MD0	
44	A4	O	108	MD2	I/O		NC		
45	A3	O	109	MD1	I/O	NC			
46	NC		110	MD0	I/O			D27	
47	NC		111	NC			NC		
48	NC		112	NC		D26			
49	NC		113	D27	I/O			NC	
50	NC		114	NC			D25		
51	NC		115	D26	I/O	D24			
52	A2	O	116	NC				NC	
53	A1	O	117	D25	I/O		D23		
54	A0	O	118	D24	I/O	Memory data			
55	WE	O	119	NC				Ground	
56	OE	O	120	D23	I/O		NC		
57	NC		121	NC		NC			
58	D _{BOE}	I	Memory data bus output enable	122	NC				D22
59	NC		Timing pulse	123	D22		I/O	V _{SS}	
60	TIM1	O	Test pin	124	V _{SS}		NC		
61	TST		Reset (Serial mode: I Parallel mode: O)	125	NC				D21
62	CRS	I/O	Shift clock for serial control data	126	D21	I/O		D20	
63	NC			127	D20	I/O	D19		
64	XCLK	I		128	D19	I/O			

● YM6067 (XH494A00) PSC4 (Parallel Serial Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION																									
1	D23	I/O	Parallel I/O ports (D00: LSB, D23: MSB)	40	EXCO	I	MSB/LSB reverse control terminal for internal parallel bus→serial output. Basic format is maintained when Lo. When this goes Hi, the MSB/LSB are reversed. Serial output selection terminal Ground Serial output selection terminal																									
2	D22	I/O		41	CO1	I																										
3	D21	I/O		42	Vss																											
4	D20	I/O		43	CO0	I																										
5	D19	I/O																														
6	D18	I/O																														
7	D17	I/O																														
8	D16	I/O																														
9	D15	I/O																														
10	Vss			Ground																												
11	D14	I/O																														
12	D13	I/O																														
13	D12	I/O																														
14	D11	I/O			44	BCKO		O																								
15	D10	I/O																														
16	D09	I/O			45	SCKO		I																								
17	D08	I/O																														
18	D07	I/O		Parallel I/O ports (D00: LSB, D23: MSB)	46	SYNO		I																								
19	D06	I/O																														
20	D05	I/O																														
21	D04	I/O																														
22	D03	I/O																														
23	D02	I/O			47	MCKO		I																								
24	D01	I/O																														
25	D00	I/O			48	TST		I																								
26	Vdd		Power supply	49	RESN	I																										
27	Vss		Ground	50	MCKI	I																										
28	OENP	I	Output control terminal for parallel ports D00-D15. When Lo: internal bus→external When BA0 is Hi, the impedance of the parallel ports will be Hi even if this is set to Lo.	51	SYNI	I																										
29	BA0	I	Terminal for selecting origin of data writing for the serial output section. When Lo: serial input section→serial output section When Hi: parallel port→serial output section However, control cannot be carried out except when MODA=MODB=Lo.	52	SCKI	I																										
30	MODA	I	4 Internal Blocks 1: Serial Input section (SI) 2: Serial Output section (SO) 3: Buffering section (BUF) 4: Parallel port section (PARA) Terminals used to determine how connections are made.	53	BCKI	O																										
31	MODB	I		54	CI1	I																										
				55	CIO	I																										
							Serial input format selection terminals																									
							<table border="1"> <thead> <tr> <th>CI1</th> <th>CIO</th> <th>FORMAT</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>YAMAHA 24-1 (1 channel/1 line)</td> </tr> <tr> <td>0</td> <td>1</td> <td>YAMAHA 24-2 (1 channel/1 line)</td> </tr> <tr> <td>1</td> <td>0</td> <td>YAMAHA 48 (2 channel/1 line)</td> </tr> <tr> <td>1</td> <td>1</td> <td>YAMAHA 96 (4 channel/1 line)</td> </tr> </tbody> </table>	CI1	CIO	FORMAT	0	0	YAMAHA 24-1 (1 channel/1 line)	0	1	YAMAHA 24-2 (1 channel/1 line)	1	0	YAMAHA 48 (2 channel/1 line)	1	1	YAMAHA 96 (4 channel/1 line)										
CI1	CIO	FORMAT																														
0	0	YAMAHA 24-1 (1 channel/1 line)																														
0	1	YAMAHA 24-2 (1 channel/1 line)																														
1	0	YAMAHA 48 (2 channel/1 line)																														
1	1	YAMAHA 96 (4 channel/1 line)																														
							*Caution is advised when changing modes dynamically. (C10 and C11 are latched at the start of a word.)																									
				56	EXCI	I	MSB/LSB reverse control terminal for serial input→internal parallel bus. Basic format is maintained when Lo. When this goes Hi, the MSB/LSB are reversed.																									
				57	Vss	I	Ground Power supply																									
				58	Vdd	I																										
				59	A11	I																										
				60	A10	I																										
							Register channel selection terminals for serial input→internal parallel bus output. However, control cannot be carried out unless MODA=MODB=Lo. When MODA=MODB=Lo, each word is output 1/4 at a time from channels 0, 1, 2, and 3.																									
							<table border="1"> <thead> <tr> <th>A11</th> <th>A10</th> <th>channel</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>1</td> <td>0</td> <td>2</td> </tr> <tr> <td>1</td> <td>1</td> <td>3</td> </tr> </tbody> </table>	A11	A10	channel	0	0	0	0	1	1	1	0	2	1	1	3										
A11	A10	channel																														
0	0	0																														
0	1	1																														
1	0	2																														
1	1	3																														
32	OENO	I	The input and output channels are the same except when MODA=MODB=Lo. Output control terminal. Works in conjunction with the serial output terminals SO0-3. Output is 0 when Hi, and operation is normal when Lo.	61	SI3	I	Serial data input terminals.																									
33	SO3	O	Serial data output terminals.	62	SI2	I																										
34	SO2	O		63	SI1	I																										
35	SO1	O		64	SI0	I																										
36	SO0	O																														
							<table border="1"> <thead> <tr> <th></th> <th>YAMAHA 24-1</th> <th>YAMAHA 24-2</th> <th>YAMAHA 48</th> <th>YAMAHA 96</th> </tr> </thead> <tbody> <tr> <td>SO0</td> <td>ch 0</td> <td>ch 0</td> <td>ch 0, 1</td> <td>ch 0, 1, 2, 3</td> </tr> <tr> <td>SO1</td> <td>ch 1</td> <td>ch 1</td> <td>x</td> <td>x</td> </tr> <tr> <td>SO2</td> <td>ch 2</td> <td>ch 2</td> <td>ch 2, 3</td> <td>x</td> </tr> <tr> <td>SO3</td> <td>ch 3</td> <td>ch 3</td> <td>x</td> <td>x</td> </tr> </tbody> </table>		YAMAHA 24-1	YAMAHA 24-2	YAMAHA 48	YAMAHA 96	SO0	ch 0	ch 0	ch 0, 1	ch 0, 1, 2, 3	SO1	ch 1	ch 1	x	x	SO2	ch 2	ch 2	ch 2, 3	x	SO3	ch 3	ch 3	x	x
	YAMAHA 24-1	YAMAHA 24-2	YAMAHA 48	YAMAHA 96																												
SO0	ch 0	ch 0	ch 0, 1	ch 0, 1, 2, 3																												
SO1	ch 1	ch 1	x	x																												
SO2	ch 2	ch 2	ch 2, 3	x																												
SO3	ch 3	ch 3	x	x																												
37	AO1	I	Writing channel selection terminals for internal parallel bus→serial output latch. Control cannot be carried out unless MODA=MODB=Lo.				Serial data input terminals.																									
38	A00	I		<table border="1"> <thead> <tr> <th>A01</th> <th>A00</th> <th>channel</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>1</td> <td>0</td> <td>2</td> </tr> <tr> <td>1</td> <td>1</td> <td>3</td> </tr> </tbody> </table>	A01	A00		channel	0	0	0	0	1	1	1	0	2	1	1	3												
A01	A00	channel																														
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0	1	1																														
1	0	2																														
1	1	3																														
39	WTN	I	Write signal to internal parallel bus→serial output latch. Parallel bus data can be received in the shift out latch when Hi→Lo→Hi. However, control cannot be carried out unless MODA=MODB=Lo.				<table border="1"> <thead> <tr> <th></th> <th>YAMAHA 24-1</th> <th>YAMAHA 24-2</th> <th>YAMAHA 48</th> <th>YAMAHA 96</th> </tr> </thead> <tbody> <tr> <td>SI0</td> <td>ch 0</td> <td>ch 0</td> <td>ch 0, 1</td> <td>ch 0, 1, 2, 3</td> </tr> <tr> <td>SI1</td> <td>ch 1</td> <td>ch 1</td> <td>x</td> <td>x</td> </tr> <tr> <td>SI2</td> <td>ch 2</td> <td>ch 2</td> <td>ch 2, 3</td> <td>x</td> </tr> <tr> <td>SI3</td> <td>ch 3</td> <td>ch 3</td> <td>x</td> <td>x</td> </tr> </tbody> </table>		YAMAHA 24-1	YAMAHA 24-2	YAMAHA 48	YAMAHA 96	SI0	ch 0	ch 0	ch 0, 1	ch 0, 1, 2, 3	SI1	ch 1	ch 1	x	x	SI2	ch 2	ch 2	ch 2, 3	x	SI3	ch 3	ch 3	x	x
	YAMAHA 24-1	YAMAHA 24-2	YAMAHA 48	YAMAHA 96																												
SI0	ch 0	ch 0	ch 0, 1	ch 0, 1, 2, 3																												
SI1	ch 1	ch 1	x	x																												
SI2	ch 2	ch 2	ch 2, 3	x																												
SI3	ch 3	ch 3	x	x																												

● YM6604 (XH497A00) ACIA (Asynchronous Communication Interface Adapter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION	
1	RESET	I	Reset	65	IRQ3	I	Interrupt request	
2				66				
3	CS	I	Chip select	67	IRQ4	I		
4				68				
5	AS	I	Address strobe	69	IRQ5	I		
6				70				
7	LDS	I	Data strobe	71	IRQ6	I		
8				72				
9	A1	I	Address bus	73	IRQ7	I		
10					74			
11	A2	I			75	TXD1	O	Data transmission 1
12					76			
13	A3	I			77	RXD1	I	Data reception 1
14					78			
15	A4	I			79	RTS1	O	Request to send 1
16				80				
17	A5	I		81	CTS1	I	Clear to send 1	
18				82				
19	Vss		Ground	83	DCD1	I	Data carrier detect 1	
20				84				
21	CLK	I	System clock	85	Vss		Ground	
22				86				
23	R/W	I	Read/write control	87	TXD2	O	Data transmission 2	
24				88				
25	DTACK	O	Data acknowledge	89	RXD2	I	Data reception 2	
26	Vss		Ground	90				
27	D0	I/O	Data bus	91	RTS2	O	Request to send 2	
28					92			
29	D1	I/O			93	CTS2	I	Clear to send 2
30					94			
31	D2	I/O			95	DCD2	I	Data carrier detect 2
32					96			
33	D3	I/O			97	TXD3	O	Data transmission 3
34	Vss		Ground	98				
35	D4	I/O		99	RXD3	I	Data reception 3	
36				100				
37	D5	I/O		101	RTS3	O	Request to send 3	
38				102				
39	D6	I/O		103	CTS3	I	Clear to send 3	
40				104				
41	D7	I/O		105	TXD4	O	Data transmission 4	
42	Vss		Ground	106				
43	FC0	I	Function code	107	RXD4	I	Data reception 4	
44					108			
45	FC1	I			109	RTS4	O	Request to send 4
46				110				
47	FC2	I		111	CTS4	I	Clear to send 4	
48				112				
49	IACK	O	Interrupt acknowledge	113	Vcc		Power supply	
50				114				
51	Vcc		Power supply	115	TXD5	O	Data transmission 5	
52				116				
53	MODE	I	CPU mode select (When Hi: 68000 mode, when Lo: 6800 mode)	117	RXD5	I	Data reception 5	
54				118				
55	IPL0	O	Interrupt control	119	TXD6	O	Data transmission 6	
56					120			
57	IPL1	O			121	RXD6	I	Data reception 6
58				122	Vss		Ground	
59	IPL2	O		123	FS	I	Counter clock	
60				124				
61	IRQ1	I	Interrupt request	125	XCLK2	I	Clock	
62					126			
63	IRQ2	I			127	XCLK1	I	Clock
64					128			

● YM3807 (IT380700) MOD (Modulation Data Generator)

Pin No.	Name	I/O	Function	Pin No.	Name	I/O	Function
1	NC			24	VSS		Power supply ground
2	MDSIO	I	Inputs data to add to the wave- form data inside MOD	23	CDO	O	CD interface serial data output
3	MDSI1	I		22	CDI	I	CD interface serial data input
4	MDSO0	O	Outputs MOD internal wave- form data with the same data format as MDSIO.	21	NC		
5	MDSO1	O		20	XCLK	I	CD interface transmission clock input
6	MOD0	O	Outputs waveform data for all channels inside MOD.	19	XMD	I	Selects 1/16 mode (asynchronous) or 1/1 mode (synchronous) for the CD interface
7	MOD1	O		18	CRS	I	CD counter reset
8	MOD2	O		17	CLK	I	3.2MHz
9	MOD3	O		16	TC	I	Initial clear
10	MOD4	O		15	SYNCW	I	Sync signal input. One 64th of the master clock.
11	MOD5	O		14	MOD7	O	Outputs waveform data for all channels inside MOD.
12	VDD		Power supply +5V	13	MOD6	O	

● HD46508A-I (IG129200) DATA IN (Analog/Digital Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	Vss	I	Ground	21	REF -	I	Reference voltage -
2	GAINSEL	O	Gain select	22	COMPIN	I	Comparator Input
3	IRQ	O	Interrupt request	23	COMMON	O	Multiplexer common output
4	D0	I/O	Data bus	24	REF +	I	Reference voltage +
5	D1	I/O		25	A115	I	Analog input
6	D2	I/O		26	A114	I	
7	D3	I/O		27	A113	I	
8	D4	I/O		28	A112	I	
9	D5	I/O		29	A111	I	
10	D6	I/O		30	A110	I	
11	D7	I/O	31	A9	I		
12	CLK	I	Clock	32	A8	I	
13	E	I	Enable	33	A7	I	
14	RS0	I	Resistor select 0	34	A6	I	
15	RS1	I	Resistor select 1	35	A5	I	
16	CS0	I	Chip select 0	36	A4	I	
17	CS1	I	Chip select 1	37	A3	I	
18	R/W	I	Read/write control	38	A2	I	
19	RES	I	Reset	39	A1	I	
20	Vcc	I	Power supply	40	A0	I	

● HD63B03RP (IG105200) CPU

Pin No.	Name	I/O	Function	Pin No.	Name	I/O	Function
1	Vss		Ground	21	Vcc		+5V
2	XTAL	I	Clock	22	A15		Address bus
3	EXTAL	I		23	A14		
4	NMI	I	Non-maskable Interrupt	24	A13		
5	IRQ1	I	Interrupt Request	25	A12		
6	RESET	I	Reset	26	A11		
7	STBY	I	Stand-by mode Signal	27	A10		
8	P20		Port	28	A9		
9	P21			29	A8		
10	P22			30	D7/A7		
11	P23			31	D6/A6		
12	P24		(Data bus /) Address bus	32	D5/A5		
13	A0/P10			33	D4/A4		
14	A1/P11			34	D3/A3		
15	A2/P12			35	D2/A2		
16	A3/P13			36	D1/A1		
17	A4/P14			37	D0/A0		
18	A5/P15			38	R/W		
19	A6/P16		39	AS		Read/Write control Address strobe	
20	A7/P17		40	E		Enable	

● HD63C01Y0RS37P (XH499B00) CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	V _{ss}	I	Ground	33	V _{cc}	O	DC Supply (+5V)
2	XTAL	I	Clock (8MHz)	34	P47	O	
3	EXTAL	I					
4	MP0	I	Mode program	35	P46	O	
5	MP1	I					
6	RES	I					
7	STBY	I	Reset	36	P45	O	Port 4
8	NMI	I	Stand-by mode signal	37	P44	O	
9	P20	I/O	Non-maskable interrupt	38	P43	O	
10	P21	I/O		39	P42	O	
11	P22	I/O		40	P41	O	
12	P23	I/O	Port 2	41	P40	O	Ground
13	P24	I/O					
14	P25	I/O	Port 1	42	V _{ss}	O	
15	P26	I/O					
16	P27	I/O					
17	P50	I					
18	P51	I					
19	P52	I	Port 5	43	P17	O	Port 3
20	P53	I					
21	P54	I					
22	P55	I					
23	P56	I					
24	P57	I	Port 6	44	P16	O	
25	P60	I/O					
26	P61	I/O					
27	P62	I/O					
28	P63	I/O					
29	P64	I/O	Port 7	45	P15	O	
30	P65	I/O					
31	P66	I/O					
32	P67	I/O					
					46	P14	O
				47	P13	O	Port 1
				48	P12	O	
				49	P11	O	Port 1
				50	P10	O	
				51	P37	I/O	Port 3
				52	P36	I/O	
				53	P35	I/O	Port 3
				54	P34	I/O	
				55	P33	I/O	Port 3
				56	P32	I/O	
				57	P31	I/O	Port 3
				58	P30	I/O	
				59	P74	O	Port 7
				60	P73	O	
				61	P72	O	Port 7
				62	P71	O	
				63	P70	O	Port 7
				64	E	I	
							Enable

● μPD71055C (XB361001) PPI (Programmable Peripheral Interface)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	PO3	I/O	Port 0	21	P13	I/O	Port 2
2	PO2	I/O					
3	PO1	I/O					
4	PO0	I/O					
5	RD	I	Read control	22	P14	I/O	Port 2
6	CS	I	Chip Select	23	P15	I/O	
7	GND	I	DC Supply (0V)	24	P16	I/O	Port 2
8	A1	I	Port address	25	P17	I/O	
9	A2	I					
10	P27	I/O					
11	P26	I/O	Port 2	26	V _{DD}	O	DC Supply
12	P25	I/O					
13	P24	I/O					
14	P20	I/O					
15	P21	I/O					
16	P22	I/O	Port 2	27	D7	I/O	Data bus
17	P23	I/O					
18	P10	I/O	Port B	28	D6	I/O	
19	P11	I/O					
20	P12	I/O					
				29	D5	I/O	Data bus
				30	D4	I/O	
				31	D3	I/O	Data bus
				32	D2	I/O	
				33	D1	I/O	Data bus
				34	D0	I/O	
				35	RESET	I	Reset
				36	WR	I	Write control
				37	P07	I/O	Port 0
				38	P06	I/O	
				39	P05	I/O	
				40	P04	I/O	

● μ PD71054C (XC310A00) P.T.C (Programmable Timer Counter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	D7	I/O	Data bus	13	OUT 1	O	Counter output 1
2	D6	I/O		14	GATE 1	I	Counter gate 1
3	D5	I/O		15	CLK 1	I	Counter clock 1
4	D4	I/O		16	GATE 2	I	Counter gate 2
5	D3	I/O		17	OUT 2	O	Counter output 2
6	D2	I/O		18	CLK 2	I	Counter clock 2
7	D1	I/O		19	A 0	I	Address bus
8	D0	I/O		20	A 1	I	
9	CLK 0	I	Counter clock 0	21	\overline{CS}	I	Chip select
10	OUT 0	O	Counter output 0	22	\overline{RD}	I	Read strobe
11	GATE 0	I	Counter gate 0	23	\overline{WR}	I	Write strobe
12	GND		GND	24	VDD		Power supply

● μ PD8279C-2 (XC519001) CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	RL ₂	I	Return line	21	A ₀	I	Buffer address (command = 1, address = 0)
2	RL ₃	I		22	\overline{CS}	I	Chip select
3	CLK	I		23	\overline{BD}	O	Blank display
4	IRQ	O	Interrupt request	24	OUT A ₃	O	Port A
5	RL ₄	I	Return line	25	OUT A ₂	O	
6	RL ₅	I		26	OUT A ₁	O	
7	RL ₆	I		27	OUT A ₀	O	
8	RL ₇	I	Reset	28	OUT B ₃	O	Port B
9	RESET	I		29	OUT B ₂	O	
10	\overline{RD}	I	Read control	30	OUT B ₁	O	
11	\overline{WR}	I	Write control	31	OUT B ₀	O	
12	DB ₀	I/O	Data bus	32	SL ₀	O	Scan signal
13	DB ₁	I/O		33	SL ₁	O	
14	DB ₂	I/O		34	SL ₂	O	
15	DB ₃	I/O		35	SL ₃	O	
16	DB ₄	I/O		Shift	36	SHIFT	I
17	DB ₅	I/O			37	CNTL/STB	I	Control/strob
18	DB ₆	I/O		Return line	38	RL ₀	I
19	DB ₇	I/O	39		RL ₁	I	
20	V _{SS}		Ground	40	V _{CC}		Power supply

● WDI772PH-02 (XB623001) FDC (Floppy Disk Controller/formatter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	\overline{CS}	I	Chip select	15	V _{CC}		Power supply
2	R/W	I	Read/Write control	16	STEP	O	Step pulse
3	A0	I	Address bus	17	DIRC	O	Direction control
4	A1	I		18	CLK	I	Clock IN
5	DAL0	I/O	Data access lines	19	\overline{RD}	I	Read data
6	DAL1	I/O		20	MO	O	Motor On
7	DAL2	I/O		21	WG	O	Write gate
8	DAL3	I/O		22	WD	O	Write data
9	DAL4	I/O		23	\overline{TROO}	I	Track 00 signal
10	DAL5	I/O		24	\overline{IP}	I	Index pulse
11	DAL6	I/O		25	\overline{WPRT}	I	Write protect
12	DAL7	I/O	26	\overline{DDEN}	I	Double density request	
13	\overline{MR}	I	Master reset	27	DRQ	O	Data request
14	V _{SS}		Ground	28	IRQ	O	Interrupt request

● SM5803APT (XH751A00) DIGITAL FILTER

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION												
1	DIN	I	Input data	17	FSEL1	I	De-emphasis filter type (fs) selection <table border="1"> <tr> <td></td> <td>f = 32kHz</td> <td>f = 44.1kHz</td> <td>f = 48kHz</td> </tr> <tr> <td>FSEL 1</td> <td>H</td> <td>L</td> <td>L</td> </tr> <tr> <td>FSEL 2</td> <td>L</td> <td>L</td> <td>H</td> </tr> </table>		f = 32kHz	f = 44.1kHz	f = 48kHz	FSEL 1	H	L	L	FSEL 2	L	L	H
	f = 32kHz	f = 44.1kHz	f = 48kHz																
FSEL 1	H	L	L																
FSEL 2	L	L	H																
2	BCKI	I	Input data bit clock (data is received at the rising edge)	18	FSEL2	I													
3	CKSL	I	Selects the XTI terminal input frequency (6: refer to XTI terminal explanation)	19	DGR	O	When in 8fs LR parallel output mode: De-glitch negative output When in 4fs LR serial output mode: R channel de-glitch output When in 4fs LR parallel output mode: De-glitch negative output When in 8fs LR parallel output mode: De-glitch positive output When in 4fs LR serial output mode: L channel de-glitch output When in 4fs LR parallel output mode: De-glitch positive output <table border="1"> <tr> <td></td> <td>DGR</td> <td>DGL</td> </tr> <tr> <td>8fs LR parallel out mode</td> <td>- deglitch out</td> <td>+ deglitch out</td> </tr> <tr> <td>4fs LR alternative out mode</td> <td>Rch deglitch out</td> <td>Lch deglitch out</td> </tr> <tr> <td>4fs LR parallel out mode</td> <td>- deglitch out</td> <td>+ deglitch out</td> </tr> </table>		DGR	DGL	8fs LR parallel out mode	- deglitch out	+ deglitch out	4fs LR alternative out mode	Rch deglitch out	Lch deglitch out	4fs LR parallel out mode	- deglitch out	+ deglitch out
	DGR	DGL																	
8fs LR parallel out mode	- deglitch out	+ deglitch out																	
4fs LR alternative out mode	Rch deglitch out	Lch deglitch out																	
4fs LR parallel out mode	- deglitch out	+ deglitch out																	
4	CKDV	I	Selects the XTI terminal input frequency (6: refer to XTI terminal explanation)																
5	8X	I	Selects output sample rate When Hi: 4 fs mode When Lo: 8 fs mode	20	DGL	O													
6	XTI	I	Oscillator input terminal (192 fs: When /CKSL is Hi and /CKDV is Hi) (384 fs: When /CKSL is Hi and /CKDV is Lo) (256 fs: When /CKSL is Lo and /CKDV is Hi) (512 fs: When /CKSL is Lo and /CKDV is Lo)																
7	XTO	O	Oscillator output terminal																
8	Vss1	O	GND terminal 1	21	Vss2	O	GND terminal 2												
9	CKO	O	Oscillator output clock (Frequency matches that for the XTI terminal)	22	VDD	O	Power terminal (5V)												
10	MS1	I	Mode set control 1	23	DOR	O	When in 8fs LR parallel output mode: R channel data output When in 4fs LR serial output mode: LR clock output When in 4fs LR parallel output mode: R channel data output When in 8fs LR parallel output mode: L channel data output When in 4fs LR serial output mode: LR channel data output When in 4fs LR parallel output mode: L channel data output <table border="1"> <tr> <td></td> <td>DOR</td> <td>DOL</td> </tr> <tr> <td>8fs LR parallel out mode</td> <td>Rch data out</td> <td>Lch data out</td> </tr> <tr> <td>4fs LR alternative out mode</td> <td>LR clock</td> <td>L/R clock</td> </tr> <tr> <td>4fs LR parallel out mode</td> <td>Rch data out</td> <td>Lch data out</td> </tr> </table>		DOR	DOL	8fs LR parallel out mode	Rch data out	Lch data out	4fs LR alternative out mode	LR clock	L/R clock	4fs LR parallel out mode	Rch data out	Lch data out
	DOR	DOL																	
8fs LR parallel out mode	Rch data out	Lch data out																	
4fs LR alternative out mode	LR clock	L/R clock																	
4fs LR parallel out mode	Rch data out	Lch data out																	
11	MS2	I	Mode set control 2	24	DOL	O													
12	MS3	I	Mode set control 3																
13	MDT	I	Mode set data																
14	MEN	I	Mode set enable	25	WCKO	O	Output word clock												
15	MUTE	I	Mute signal When Hi: No sound is output When Lo: Normal output																
16	DIEM	I	De-emphasis signal When Hi: De-emphasis ON When Lo: De-emphasis OFF																
				26	BCKO	O	Output bit clock												
				27	FSCO	O	Internal calculation for fs cycle and output timing clock												
				28	LRCI	I	Input data sample rate (fs) clock												

● PCM63P-KY (XH987A00) DAC (Digital Analog Converter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	CAP	O	Servo filter (SERVO DC)	15	NC	}	Not used
2	+VccA		Power supply (+)	16	NC		
3	CAP		Reference filter (REF DC)	17	NC		
4	CAP		BPO reference (BPO DC)	18	CK	I	Clock
5	BPO		Bipolar offset	19	NC	}	Not used
6	Iout		Current output	20	LE			I	LEC input
7	A.GND		Analog ground	21	DATA	I	Data input
8	NC		Not used	22	NC	}	Not used
9	RFB1		} Feedback resistor	23	BIT2-B ADJ				Bit 2B adj.
10	RFB2				24	BIT2-A ADJ		Bit 2A adj.
11	-VccL		Power supply (-)	25	Vpot		Potentiometer connection
12	D.GND		Digital ground	26	NC	}	Not used
13	+VccL		Power supply (+)	27	NC		
14	NC		Not used	28	-VccA		Power supply

IV. IC BLOCK DIAGRAM (ICブロック図)

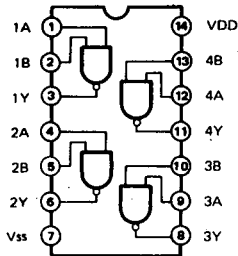
■CONTENTS (目次)

SN74HC00N (IR000050) Quad 2 Input NAND	IV- 1
SN74HC03N (IR000350) Quad 2 Input NAND	IV- 1
SN74HCU04N (IG142250) Hex Inverter	IV- 1
SN74HC04N (IR000450) Hex Inverter	IV- 1
SN74HC05N (IR000550) Hex Inverter	IV- 1
SN74HC08N (IR000850) Quad 2 Input AND	IV- 1
SN74HC11N (IR001150) Triple 3 Input AND	IV- 1
SN74HC14N (IR001450) Hex Inverter	IV- 1
SN74HC30N (IR003050) 8 Input NAND	IV- 1
SN74HC32N (IR003250) Quad 2 Input OR	IV- 1
SN74HC74N (IR007450) Dual D-Type Flip-Flop	IV- 1
SN74HC86P (IR008600) Quad 2 Input EX-OR	IV- 1
TC74HC123AP (IR012300) Dual Retriggerable Single Shot	IV- 2
SN74HC125N (IR012550) Quad 3-State Bus Buffer	IV- 2
SN74HC138N (IR013850) 3 to 8 Demultiplexer	IV- 2
SN74HC139N (IR013950) Dual 2 to 4 Demultiplexer	IV- 2
SN74HC151N (IR015150) 8 to 1 Data Selector/Multiplexer	IV- 2
SN74HC153N (IR015350) Dual 4 to 1 Data Selectors	IV- 2
TC74HC154AP (IR015400) 4 to 16 Demultiplexer	IV- 2
SN74HC157N (IR015750) Quad 2 to 1 Multiplexers	IV- 2
SN74HC163N (IR016350) SYNC. Binary Counter	IV- 2
SN74HC164N (IR016450) 8-Bit Shift Register	IV- 3
SN74HC165N (IR016550) 8-Bit Shift Register	IV- 3
HD74LS240P (IG044500) Octal Bus Inverter	IV- 3
SN74HC240N (IR024050) Octal Bus Inverter	IV- 3
SN74HC244 (IR024450) Octal 3-State Bus Buffer	IV- 3
SN74HC245N (IR024550) Octal 3-State Bus Transceiver	IV- 3
SN74HC273N (IR027350) Octal D-Type Flip-Flop	IV- 3
TC74HC283AP (IR028300) 4-Bit Binary Full Adder	IV- 3
SN74HC373N (IR037350) Octal 3-State D-Type Latch	IV- 3
SN74HC374N (IR037450) Octal 3-State D-Type Flip-Flop	IV- 3
SN74HC393N (IR039350) Dual 4-Bit Binary Counter	IV- 4
SN74LS624N (IG136400) VCO	IV- 4
TC74HC4072AP (IR407200) Dual 4-Input OR Gate	IV- 4
RC4558D-V (IG001390) Dual Operational Amplifier	IV- 4
TL082CP (IG052500) Dual Operational Amplifier	IV- 4
NE5532P (IG102500) Dual Operational Amplifier	IV- 4
M5238P (XA013001) Dual Operational Amplifier	IV- 4
NJM4556DD (XE803A00) Dual Operational Amplifier	IV- 4
NE5534P (IG076700) Operational Amplifier	IV- 4
μPC311C (IG033400) Voltage Comparator	IV- 4
NJU211D (XC555001) Analog Switch	IV- 4
AM26LS31PC (XC570001) Line Driver	IV- 4
AM26LS32PC (XC571001) Line Receiver	IV- 4
SN7512I (XE683A00) Line Driver	IV- 5
SN75124N (XE737A00) Line Receiver	IV- 5
BA6218 (IG153500) Moter Driver	IV- 5

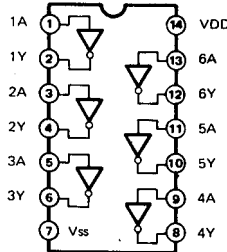
■INDEX (索引)

AM26LS31PC (XC570001) Line Driver	IV- 4
AM26LS32PC (XC571001) Line Receiver	IV- 4
BA6218 (IG153500) Moter Driver	IV- 5
HD74LS240P (IG044500) Octal Bus Inverter	IV- 3
M5238P (XA013001) Dual Operational Amplifier	IV- 4
NE5532P (IG102500) Dual Operational Amplifier	IV- 4
NE5534P (IG076700) Operational Amplifier	IV- 4
NJM4556DD (XE803A00) Dual Operational Amplifier	IV- 4
NJU211D (XC555001) Analog Switch	IV- 4
RC4558D-V (IG001390) Dual Operational Amplifier	IV- 4
SN74HC00N (IR000050) Quad 2 Input NAND	IV- 1
SN74HC03N (IR000350) Quad 2 Input NAND	IV- 1
SN74HC04N (IR000450) Hex Inverter	IV- 1
SN74HC05N (IR000550) Hex Inverter	IV- 1
SN74HC08N (IR000850) Quad 2 Input AND	IV- 1
SN74HC11N (IR001150) Triple 3 Input AND	IV- 1
SN74HC14N (IR001450) Hex Inverter	IV- 1
SN74HC30N (IR003050) 8 Input NAND	IV- 1
SN74HC32N (IR003250) Quad 2 Input OR	IV- 1
SN74HC74N (IR007450) Dual D-Type Flip-Flop	IV- 1
SN74HC86P (IR008600) Quad 2 Input EX-OR	IV- 1
SN74HC125N (IR012550) Quad 3-State Bus Buffer	IV- 2
SN74HC138N (IR013850) 3 to 8 Demultiplexer	IV- 2
SN74HC139N (IR013950) Dual 2 to 4 Demultiplexer	IV- 2
SN74HC151N (IR015150) 8 to 1 Data Selector/Multiplexer	IV- 2
SN74HC153N (IR015350) Dual 4 to 1 Data Selectors	IV- 2
SN74HC157N (IR015750) Quad 2 to 1 Multiplexers	IV- 2
SN74HC163N (IR016350) SYNC. Binary Counter	IV- 2
SN74HC164N (IR016450) 8-Bit Shift Register	IV- 3
SN74HC165N (IR016550) 8-Bit Shift Register	IV- 3
SN74HC240N (IR024050) Octal Bus Inverter	IV- 3
SN74HC244 (IR024450) Octal 3-State Bus Buffer	IV- 3
SN74HC245N (IR024550) Octal 3-State Bus Transceiver	IV- 3
SN74HC273N (IR027350) Octal D-Type Flip-Flop	IV- 3
SN74HC373N (IR037350) Octal 3-State D-Type Latch	IV- 3
SN74HC374N (IR037450) Octal 3-State D-Type Flip-Flop	IV- 3
SN74HC393N (IR039350) Dual 4-Bit Binary Counter	IV- 4
SN74HCU04N (IG142250) Hex Inverter	IV- 1
SN74LS624N (IG136400) VCO	IV- 4
SN7512I (XE683A00) Line Driver	IV- 5
SN75124N (XE737A00) Line Receiver	IV- 5
TC74HC123AP (IR012300) Dual Retriggerable Single Shot	IV- 2
TC74HC154AP (IR015400) 4 to 16 Demultiplexer	IV- 2
TC74HC283AP (IR028300) 4-Bit Binary Full Adder	IV- 3
TC74HC4072AP (IR407200) Dual 4-Input OR Gate	IV- 4
TL082CP (IG052500) Dual Operational Amplifier	IV- 4
μPC311C (IG033400) Voltage Comparator	IV- 4

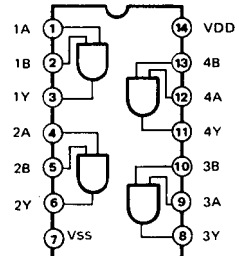
- **SN74HC00N** (IR000050)
SN74HC03N (IR000350)
Quad 2 Input NAND



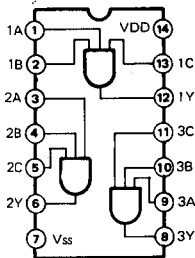
- **SN74HCU04N** (IG142250)
SN74HC04N (IR000450)
SN74HC05N (IR000550)
Hex Inverter



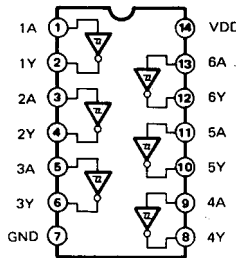
- **SN74HC08N** (IR000850)
Quad 2 Input AND



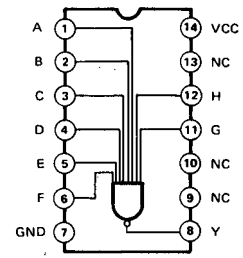
- **SN74HC11N** (IR001150)
Triple 3 Input AND



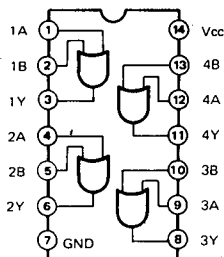
- **SN74HC14N** (IR001450)
Hex Inverter



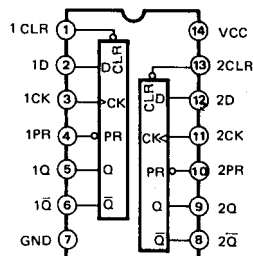
- **SN74HC30N** (IR003050)
8 Input NAND



- **SN74HC32N** (IR003250)
Quad 2 Input OR

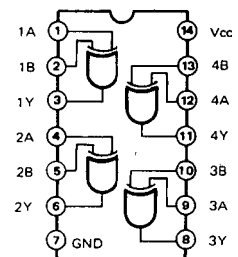


- **SN74HC74N** (IR007450)
Dual D-Type Flip-Flop

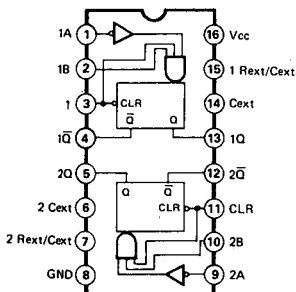


INPUTS				OUTPUTS	
PR	CLR	CLK	D	Q	Q̄
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H	H
H	H	↑	H	H	L
H	H	↑	L	L	H
H	H	L	X	Q _o	Q̄ _o

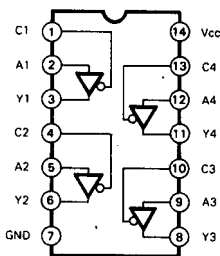
- **TC74HC86P** (IR008600)
Quad 2 Input EX-OR



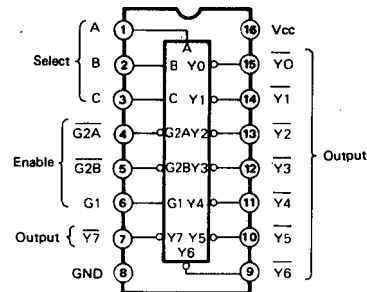
- **TC74HC123AP (IR012300)**
Dual Retriggerable Single Shot



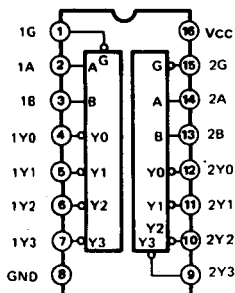
- **SN74HC125N (IR012550)**
Quad 3-State Bus Buffer



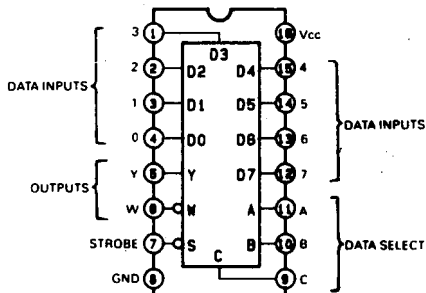
- **SN74HC138N (IR013850)**
3 to 8 Demultiplexer



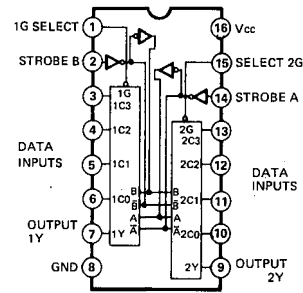
- **SN74HC139N (IR013950)**
Dual 2 to 4 Demultiplexer



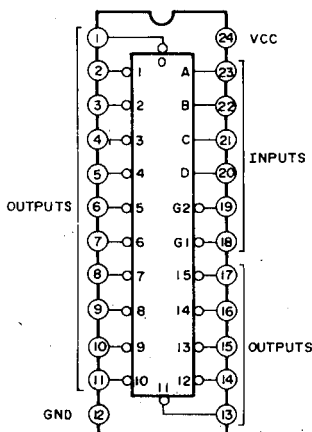
- **SN74HC151N (IR015150)**
8 to 1 Data Selector/Multiplexer



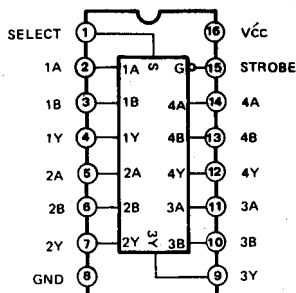
- **SN74HC153N (IR015350)**
Dual 4 to 1 Data Selectors



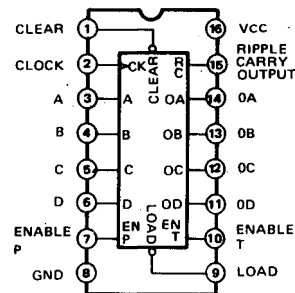
- **TC74HC154AP (IR015400)**
4 to 16 Demultiplexer



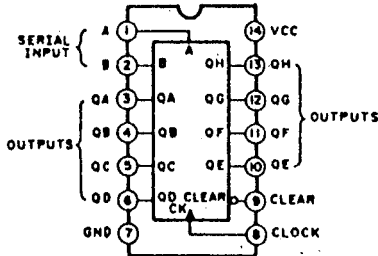
- **SN74HC157N (IR015750)**
Quad 2 to 1 Multiplexer



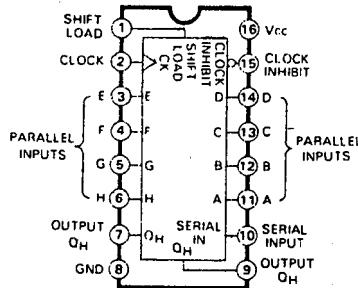
- **SN74HC163N (IR016350)**
SYNC. Binary Counter



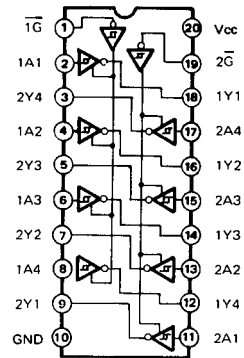
- **SN74HC164N (IR016450)**
8-Bit Shift Register



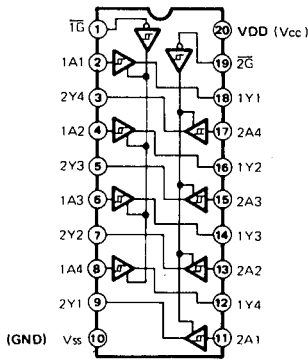
- **SN74HC165N (IR016550)**
8-Bit Shift Register



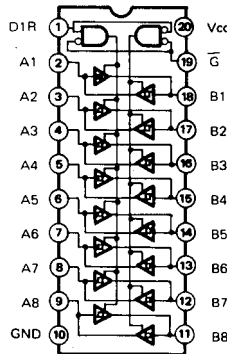
- **HD74LS240P (IG044500)**
SN74HC240N (IR024050)
Octal Bus Inverter



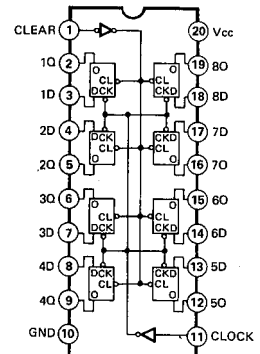
- **SN74HC244 (IR024450)**
Octal 3-State Bus Buffer



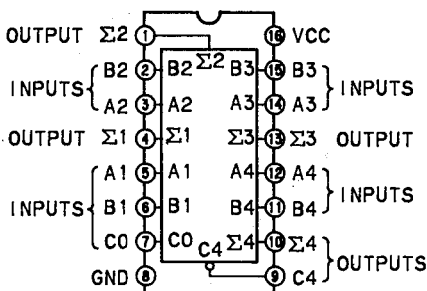
- **SN74HC245N (IR024550)**
Octal 3-State Bus Transceiver



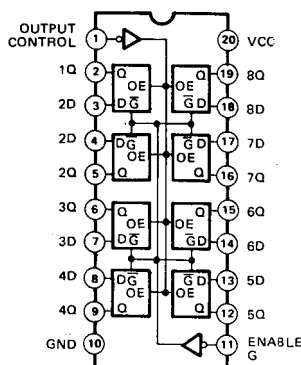
- **SN74HC273N (IR027350)**
Octal D-Type Flip-Flop



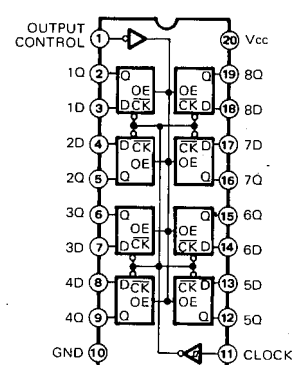
- **TC74HC283AP (IR028300)**
4-Bit Binary Full Adder



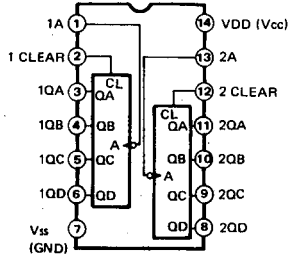
- **SN74HC373N (IR037350)**
Octal 3-State D-Type Latch



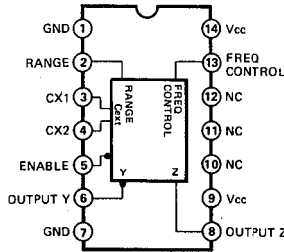
- **SN74HC374N (IR037450)**
Octal 3-State D-Type Flip-Flop



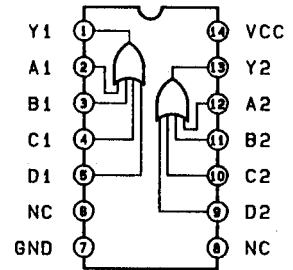
- **SN74HC393N (IR039350)**
Dual 4-Bit Binary Counter



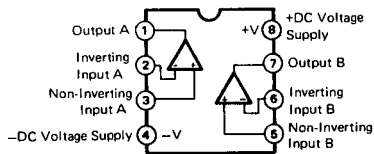
- **SN74LS624N (IG136400)**
VCO



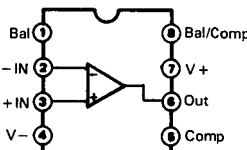
- **TC74HC4072AP (IR407200)**
Dual 4-Input OR Gate



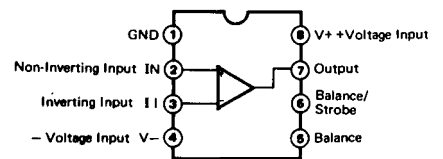
- **RC4558D-V (IG001390)**
TL082CP (IG052500)
NE5532P (IG102500)
M5238P (XA013001)
NJM4556DD (XE803A00)
Dual Operational Amplifier



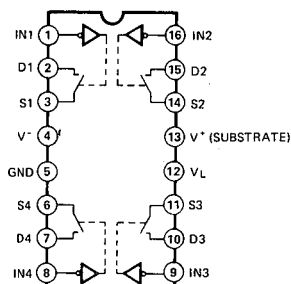
- **NE5534P (IG076700)**
Operational Amplifier



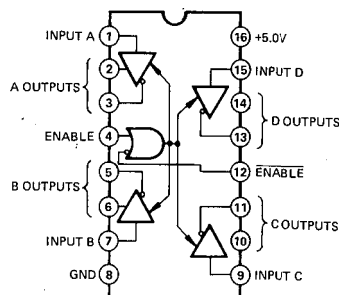
- **μPC311C (IG033400)**
Voltage Comparator



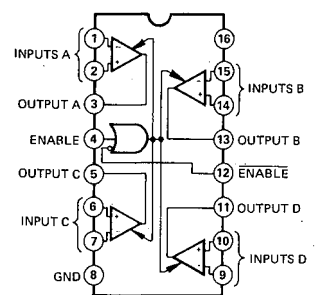
- **NJU211D (XC555001)**
Analog Switch



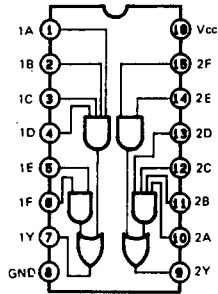
- **AM26LS31PC (XC570001)**
Line Driver



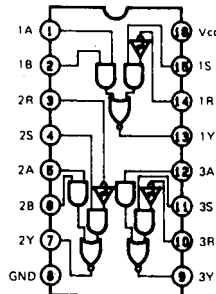
- **AM26LS32PC (XC571001)**
Line Receiver



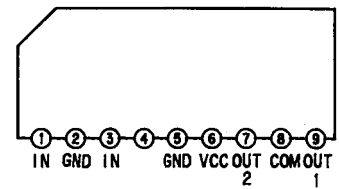
- **SN75121 (XE683A00)**
Line Driver



- **SN75124N (XE737A00)**
Line Receiver



- **BA6218 (IG153500)**
Motor Driver

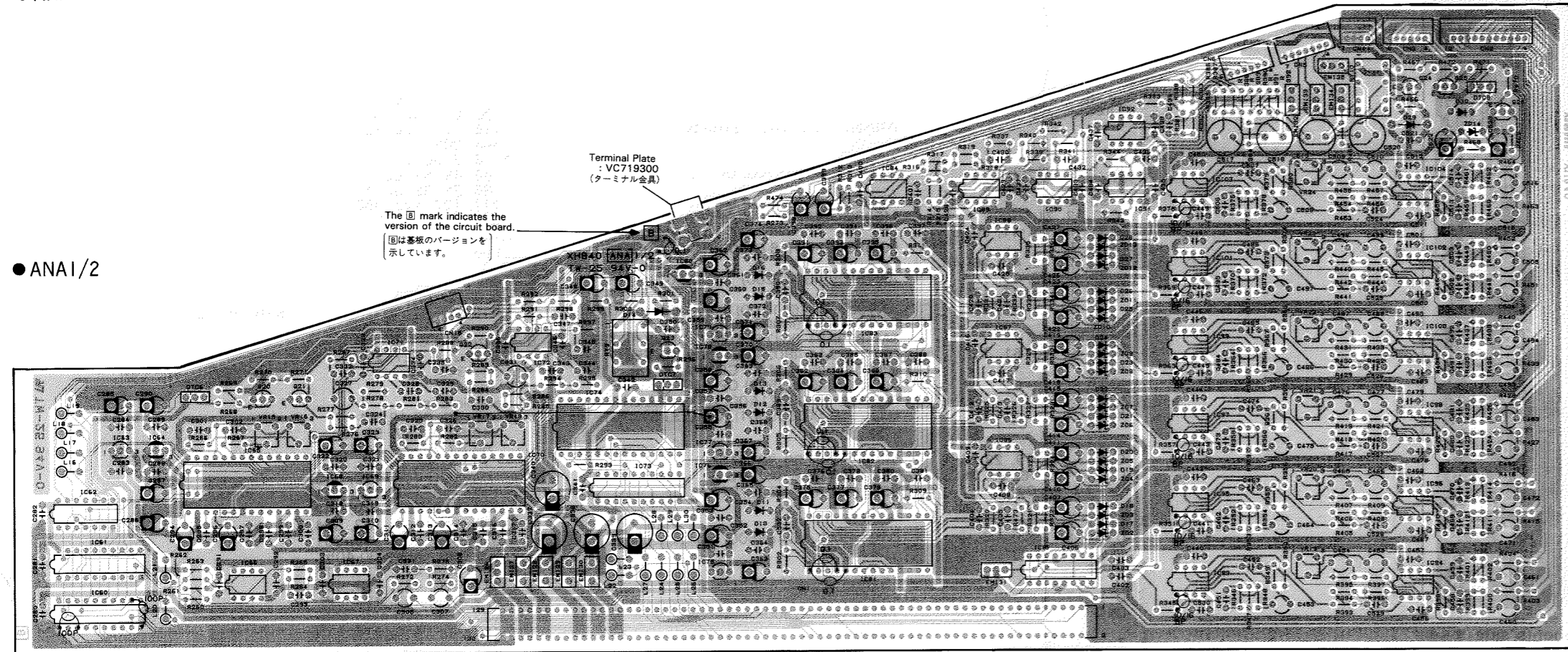


V. CIRCUIT BOARDS (シート基板図)

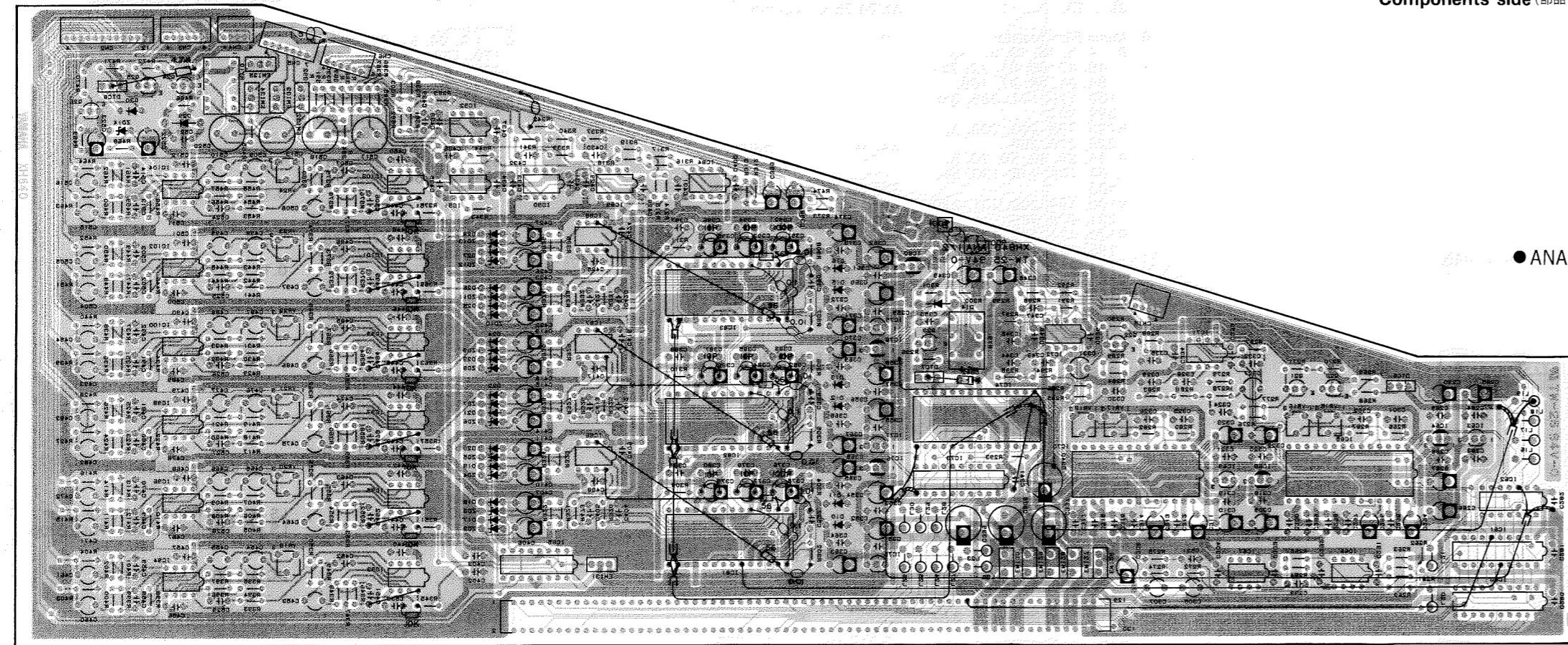
■CONTENTS (目次)

ANA	Circuit Board (Virision [®] B)	.....	V- 1
ANA	Circuit Board (Virision [®] C)	.....	V- 7
CIN	Circuit Board	.....	V-10
CLK	Circuit Board	.....	V-13
CA	Circuit Board	.....	V-16
CPU	Circuit Board	.....	V-16
CRA	Circuit Board	.....	V-19
CRC	Circuit Board	.....	V-19
CRD	Circuit Board	.....	V-21
CRE	Circuit Board	.....	V-21
CRF	Circuit Board	.....	V-23
CRG	Circuit Board	.....	V-23
CRH	Circuit Board	.....	V-25
CRI	Circuit Board	.....	V-25
CRJ	Circuit Board	.....	V-27
CRK	Circuit Board	.....	V-27
CRL	Circuit Board	.....	V-29
CRM	Circuit Board	.....	V-29
DSP	Circuit Board	.....	V-31
DTB	Circuit Board	.....	V-33
FPC	Circuit Board	.....	V-35
FPE	Circuit Board	.....	V-36
HP	Circuit Board	.....	V-36
IN	Circuit Board	.....	V-38
MBD	Circuit Board	.....	V-41
MDR	Circuit Board	.....	V-43
NML	Circuit Board	.....	V-43
OUT	Circuit Board	.....	V-45
PM	Circuit Board	.....	V-48
PMS	Circuit Board	.....	V-48
PMD	Circuit Board	.....	V-51
PND	Circuit Board	.....	V-53
PNL	Circuit Board	.....	V-55
PNR	Circuit Board	.....	V-57
REL	Circuit Board	.....	V-59
RER	Circuit Board	.....	V-61
SEG	Circuit Board	.....	V-63
POWER SUPPLY UNIT		.....	V-65

●ANA Circuit Board(Version B)



Components side (部品側)



Pattern side (パターン側)

Notes

Circuit Board:

ANA1/2 (VK707500) XH840B0
ANA2/2 (VK707600) XH840B0

1. IC

IC 1-20, 89-92: NE5534P (IG076700) OP AMP.
 IC24, 26, 33, 84, 86-88, 93-104: NE5532P (IG102500) OP AMP.
 IC27-32, 71, 72: M5238P (XA013001) OP AMP.
 IC34, 35, 40, 41, 50, 51, 65, 70: PCM63P-Y (XH987A00) D/A CONVERTER
 IC36, 38, 42, 43, 46, 48, 63, 69, 75, 77, 79: AN78L05 (IG157200) +5V REGULATOR
 IC37, 39, 44, 45, 47, 49, 64, 68, 76, 78, 80: AN79L05 (XF611A00) -5V REGULATOR
 IC52, 62: SN74HC04N (IR000450) INVERTER
 IC53-55, 74: SM5803APT (XH751A00) DIGITAL FILTER
 IC56, 57, 60, 61, 73: SN74HC244 (IR024450) BUS-BUFFER
 IC66: μPC311C (IG033400) COMPARATOR
 IC67: TLO82CP (IG052500) OP AMP.
 IC81-83: AK5328-VP (XI521A00) A/D CONVERTER
 IC85: NJU211D (XC555001) ANALOG SWITCH

2. Transistor

Q 1, 3, 5-8, 17, 23-25: 2SC1815 Y, GR (IC181580)
 Q 2, 4, 15, 16, 20, 26: 2SA1015 O, Y (IA101580)
 Q 9-14, 21, 22: 2SC2878 A, B (IC287820)

3. Digital Transistor

DTC 1-8: DTC143XS (VD488500)

4. Diode

D 1-8, 14, 29: 1S1885 (IH000240)
 D 9, 17-28, 30: 1SS133 (IF003450)
 D10-13, 15, 16: 11ES4 (VB481900)

5. Zener Diode

ZD 1, 14: RD27EB3 27V (IF005660)
 ZD 2-13: MTZ4.7B (IX608000)

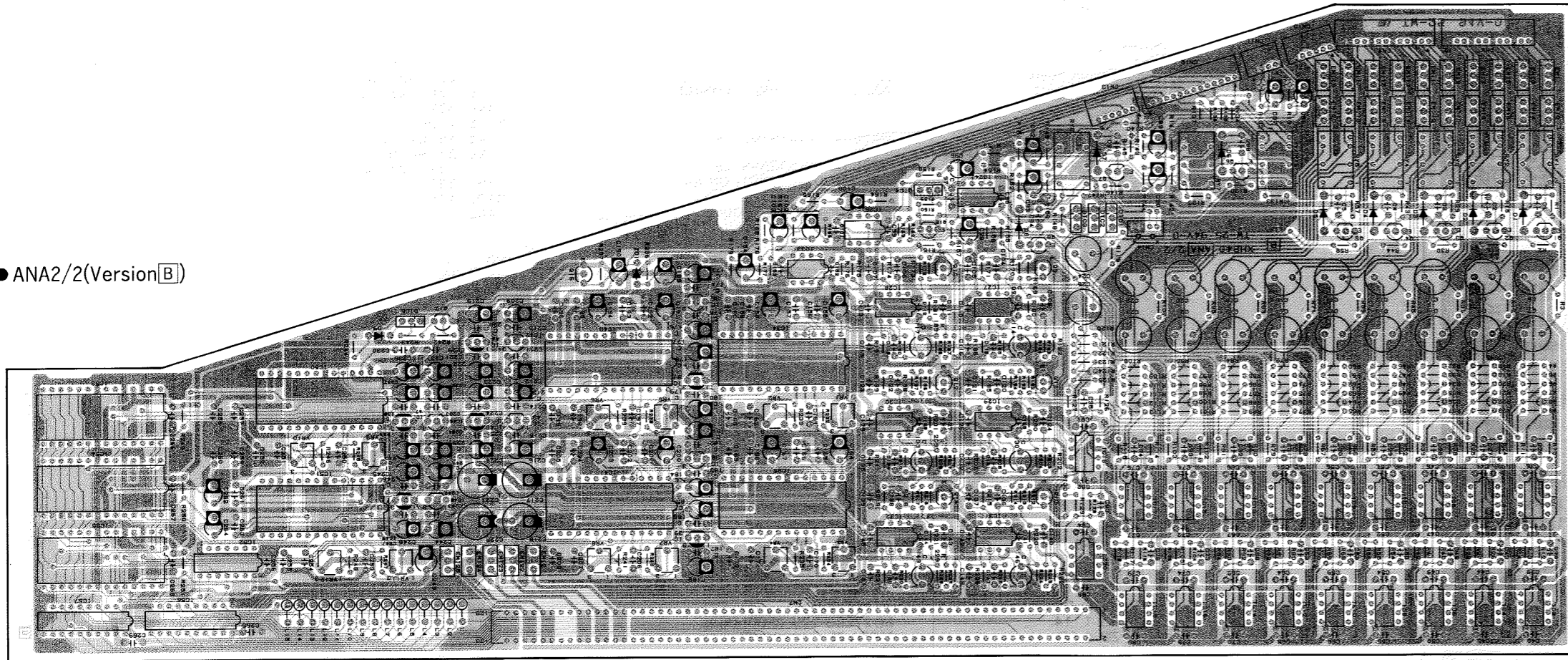
6. Metal Film Resistor

R 4, 5, 18, 19, 32, 33, 46, 47, 60, 61, 72, 73, 84, 85, 96, 97, 108, 109, 120, 121, 386, 388, 389, 392: 75.0Ω 1/6 F (VC819600)
 R183, 188, 203, 208, 223, 228, 276, 284: 220.0Ω 1/6 F (VC820900)
 R 14, 28, 42, 56, 70, 82, 94, 106, 118, 130, 340, 383: 430.0Ω 1/6 F (VC821600)
 R180, 181, 200, 201, 220, 221, 278, 285: 510.0Ω 1/6 F (VC821800)
 R170, 171, 173, 174, 193, 195, 197, 199, 213, 215, 217, 219, 281, 283, 294, 295: 1.0KΩ 1/6 F (VC822500)
 R185, 190, 205, 210, 225, 230, 287, 291: 1.5KΩ 1/4 F (VB065900)
 R349, 355, 361, 367, 373, 379, 393, 405, 417, 429, 441, 453: 4.3KΩ 1/6 F (VC824000)
 R399, 401, 412, 413, 423, 425, 435, 437, 447, 449, 459, 461: 8.2KΩ 1/6 F (VC824700)
 R 8, 9, 11, 13, 22, 23, 25, 27, 36, 37, 39, 41, 50, 51, 53, 55, 64, 65, 67, 69, 76, 77, 79, 81, 88, 89, 91, 93, 100, 101, 103, 105, 112, 113, 115, 117, 124, 125, 127, 129, 314, 315, 318, 319, 339, 342, 343, 348, 354, 360, 366, 372, 378, 381, R400, 402, 411, 414, 424, 426, 436, 438, 448, 450, 460, 462: 10.0KΩ 1/6 F (VC824900)
 R346, 352, 358, 364, 370, 376: 12.0KΩ 1/6 F (VC825100)
 R404, 416, 428, 440, 452, 464: 13.0KΩ 1/6 F (VC825200)
 R404, 416, 428, 440, 452, 464: 22.0KΩ 1/6 F (VC825700)

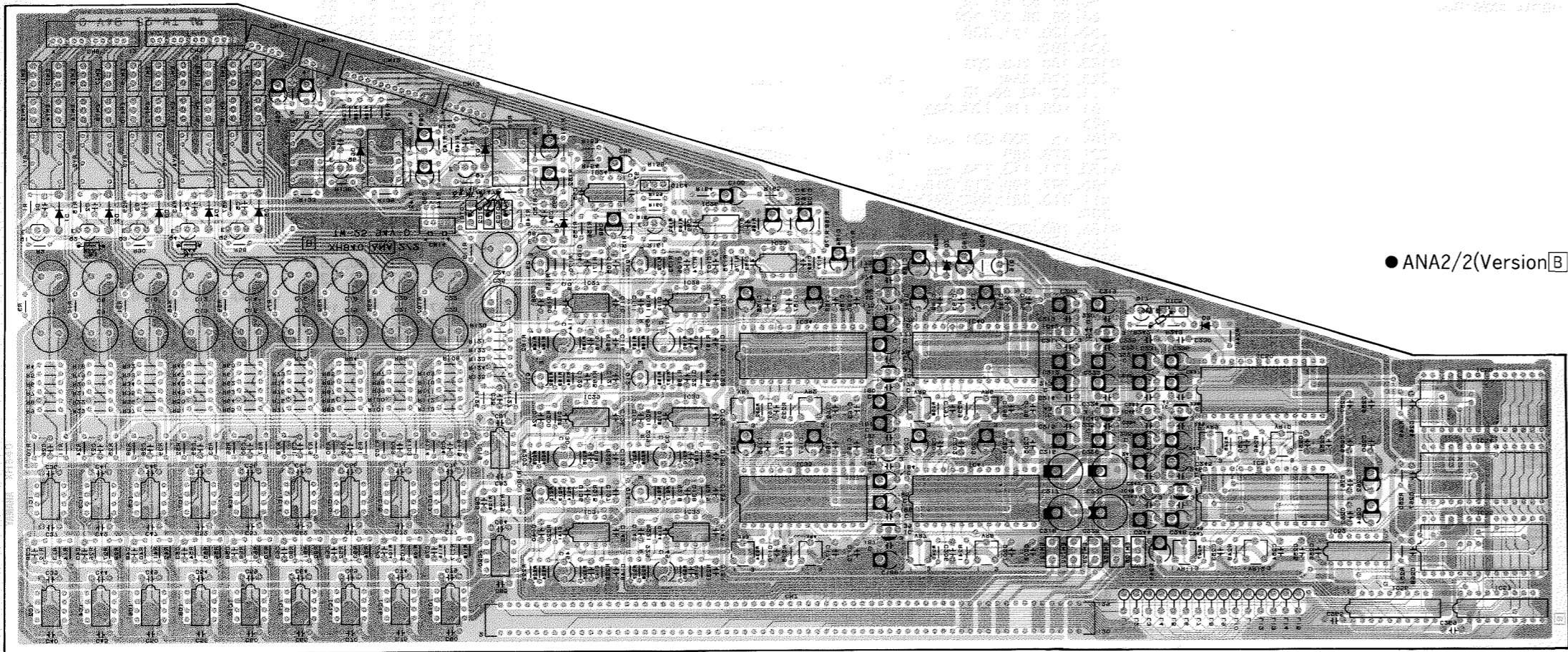
●ANA1/2

R 10, 12, 24, 26, 38, 40, 52, 54, 66, 68, 78, 80, 90, 92, 102, 104, 114, 116, 126, 128, 337, 341, 344, 382: 39.0KΩ 1/6 F (VC826300)
 R 6, 7, 20, 21, 34, 35, 48, 49, 62, 63, 74, 75, 86, 87, 98, 99, 110, 111, 122, 123, 385, 387, 390, 391: 43.0KΩ 1/6 F (VC826400)
 R403, 415, 427, 439, 451, 463: 68.0KΩ 1/6 F (VC826900)
 7. Trimmer Potentiometer
 VR 1-12, 15-18: B220K 3P RHE (VA788500)
 VR19-24: B10K EVN-D4A (VA024800)
 8. Electrolytic Cap.
 C217, 218, 227, 228, 337-340: 330μ 35V (UJ858330)
 9. Ceramic Cap.
 C 36, 37, 39-42, 44-47, 49-52, 54-57, 59-62, 64-67, 69-72, 74-77, 79-82, 84, 85, 95, 97, 99, 101, 109, 110, 112, 113, 125, 126, 128, 129, 141, 142, 144, 145, 152, 153, 291, 292, 303, 304, 333, 334, 336, 346, 381, 388-390, 397, 400-405, 408, 409, 412, 413, 416, 417, 420, 421, 424, 425, 428, 429, 431, 433-435, 437, 438, 440-450, 456, 457, 467, 468, 478, 479, 489, 490, 500, 501, 511, 512, 530, 532: 10000P 16V N (VD843800)
 10. Semiconductive Cera. Cap.
 C 1-5, 88, 91, 94, 174, 175, 178, 179, 182, 183, 186, 187, 210, 211, 214, 215, 220, 221, 224, 225, 233, 234, 238, 239, 242, 243, 246, 247, 256, 265, 269, 280-284, 288, 289, 318-321, 341, 350, 351, 353, 355, 357, 359, 361, 364, 365, 368, 369, 372, 373, 521: 0.1μ 25V Z (VC694800)
 11. Monolithic Cera. Cap.
 C266-268, 342, 376, 378, 380, 383, 385, 387, 392, 394, 396: 0.1μ 50V K (VF611200)
 12. Monolithic Mylar Cap.
 C161, 162, 170, 171, 197, 198, 206, 207, 250, 251, 253, 254, 301, 302, 325, 326: 0.022μ 50V J (VJ663000)
 C156, 157, 159, 160, 163, 165, 166, 168, 169, 172, 192, 193, 195, 196, 199, 201, 202, 204, 205, 208, 229, 230, 252, 255, 257, 261, 263, 295, 297-300, 312, 314-317: 0.22μ 50V J (VJ663100)
 13. EMI Filter
 EMI 1-20, 32-35: LS MT B271KB (FZ006920) 270P
 EMI21-31: LS MT Y223NB (FZ006970) 22000P
 14. Relay
 RY 1-10: DC AG 8023 (VD613500)
 15. Ferrite Bead
 L 1-30: BL02RN1-R62T4 (GE300610)
 16. Jumper Wire
 R151, 152: Jumper wire

●ANA2/2(Version B)



Components side (部品側)



●ANA2/2(Version B)

Pattern side (パターン側)

Notes)

Circuit Board:

ANA1/2 (VK707500) XH840B0
ANA2/2 (VK707600) XH840B0

1. IC

IC 1-20, 89-92: NE5534P (IG076700) OP AMP.
IC24, 26, 33, 84, 86-88, 93-104: NE5532P (IG102500) OP AMP.
IC27-32, 71, 72: M5238P (XA013001) OP AMP.
IC34, 35, 40, 41, 50, 51, 65, 70: PCM63P-Y (XH987A00) D/A CONVERTER
IC36, 38, 42, 43, 46, 48, 63, 69, 75, 77, 79: AN78L05 (IG157200) +5V REGULATOR
IC37, 39, 44, 45, 47, 49, 64, 68, 76, 78, 80: AN79L05 (XF611A00) -5V REGULATOR
IC52, 62: SN74HC04N (IR000450) INVERTER
IC53-55, 74: SM5803APT (XH751A00) DIGITAL FILTER
IC56, 57, 60, 61, 73: SN74HC244 (IR024450) BUS-BUFFER
IC66: μPC311C (IG033400) COMPARATOR
IC67: TL082CP (IG052500) OP AMP.
IC81-83: AK5328-VP (XI521A00) A/D CONVERTER
IC85: NJU211D (XC555001) ANALOG SWITCH

2. Transistor

Q 1, 3, 5-8, 17, 23-25: 2SC1815 Y, GR (IC181580)
Q 2, 4, 15, 16, 20, 26: 2SA1015 O, Y (IA101580)
Q 9-14, 21, 22: 2SC2878 A, B (IC287820)

3. Digital Transistor

DTC 1-8: DTC143XS (VD488500)

4. Diode

D 1-8, 14, 29: 1S1885 (IH000240)
D 9, 17-28, 30: 1S5133 (IF003450)
D10-13, 15, 16: 1ES4 (VB481900)

5. Zener Diode

ZD 1, 14: RD27EB3 27V (IF005660)
ZD 2-13: MTZ4.7B (IX608000)

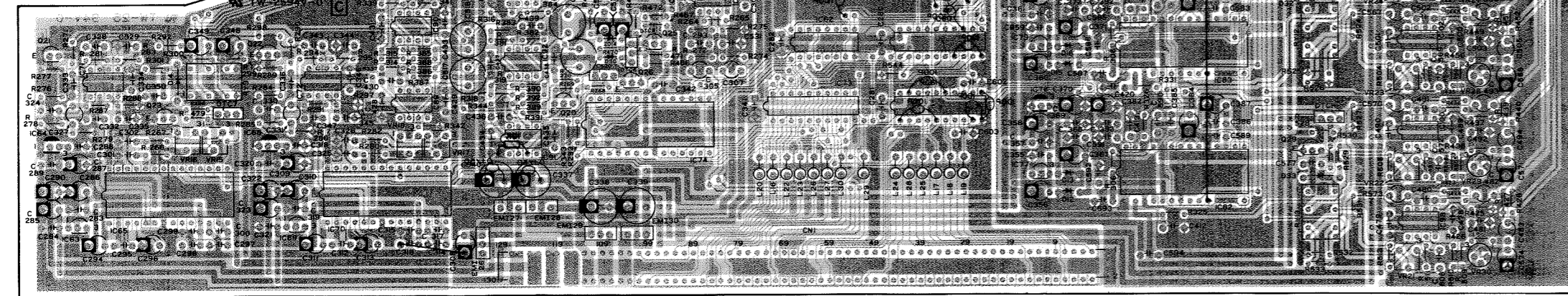
6. Metal Film Resistor

R 4, 5, 18, 19, 32, 33, 46, 47, 60, 61, 72, 73, 84, 85, 96, 97, 108, 109, 120, 121, 386, 388, 389, 392: 75.0Ω 1/6 F (VC819600)
R183, 188, 203, 208, 223, 228, 276, 284: 220.0Ω 1/6 F (VC820900)
R 14, 28, 42, 56, 70, 82, 94, 106, 118, 130, 340, 383: 430.0Ω 1/6 F (VC821600)
R180, 181, 200, 201, 220, 221, 278, 285: 510.0Ω 1/6 F (VC821800)
R170, 171, 173, 174, 193, 195, 197, 199, 213, 215, 217, 219, 281, 283, 294, 295: 1.0KΩ 1/6 F (VC822500)
R185, 190, 205, 210, 225, 230, 287, 291: 1.5KΩ 1/4 F (VB065900)
R349, 355, 361, 367, 373, 379, 393, 405, 417, 429, 441, 453: 4.3KΩ 1/6 F (VC824000)
R399, 401, 412, 413, 423, 425, 435, 437, 447, 449, 459, 461: 8.2KΩ 1/6 F (VC824700)
R 8, 9, 11, 13, 22, 23, 25, 27, 36, 37, 39, 41, 50, 51, 53, 55, 64, 65, 67, 69, 76, 77, 79, 81, 88, 89, 91, 93, 100, 101, 103, 105, 112, 113, 115, 117, 124, 125, 127, 129, 314, 315, 318, 319, 339, 342, 343, 348, 354, 360, 366, 372, 378, 381: 10.0KΩ 1/6 F (VC824900)
R400, 402, 411, 414, 424, 426, 436, 438, 448, 450, 460, 462: 12.0KΩ 1/6 F (VC825100)
R346, 352, 358, 364, 370, 376: 13.0KΩ 1/6 F (VC825200)
R404, 416, 428, 440, 452, 464: 22.0KΩ 1/6 F (VC825700)

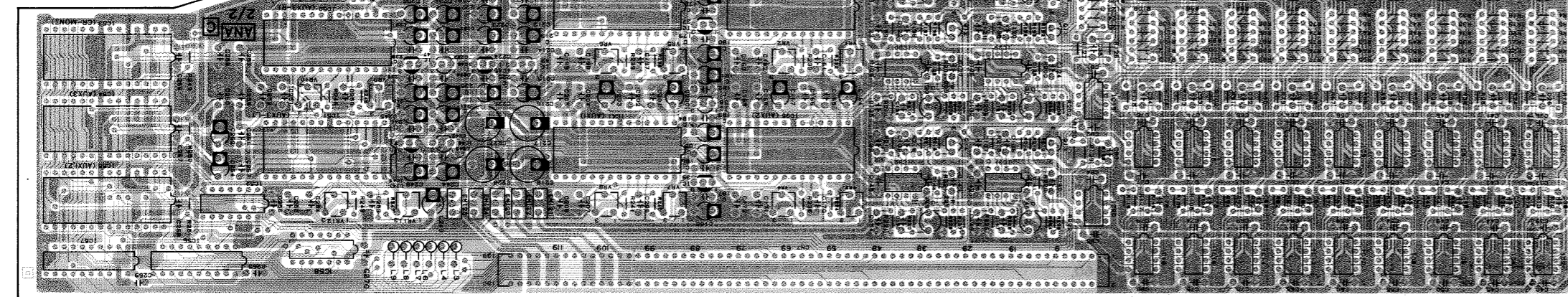
R 10, 12, 24, 26, 38, 40, 52, 54, 66, 68, 78, 80, 90, 92, 102, 104, 114, 116, 126, 128, 337, 341, 344, 382: 39.0KΩ 1/6 F (VC826300)
R 6, 7, 20, 21, 34, 35, 48, 49, 62, 63, 74, 75, 86, 87, 98, 99, 110, 111, 122, 123, 385, 387, 390, 391: 43.0KΩ 1/6 F (VC826400)
R403, 415, 427, 439, 451, 463: 68.0KΩ 1/6 F (VC826900)
7. Trimmer Potentiometer
VR 1-12, 15-18: B220K 3P RHE (VA788500)
VR19-24: B10K EVN-D4A (VA024800)
8. Electrolytic Cap.
C217, 218, 227, 228, 337-340: 330μ 35V (UJ858330)
9. Ceramic Cap.
C 36, 37, 39-42, 44-47, 49-52, 54-57, 59-62, 64-67, 69-72, 74-77, 79-82, 84, 85, 95, 97, 99, 101, 109, 110, 112, 113, 125, 126, 128, 129, 141, 142, 144, 145, 152, 153, 291, 292, 303, 304, 333, 334, 336, 346, 381, 388-390, 397, 400-405, 408, 409, 412, 413, 416, 417, 420, 421, 424, 425, 428, 429, 431, 433-435, 437, 438, 440-450, 456, 457, 467, 468, 478, 479, 489, 490, 500, 501, 511, 512, 530, 532: 10000P 16V N (VD843800)
10. Semiconductive Cera. Cap.
C 1-5, 88, 91, 94, 174, 175, 178, 179, 182, 183, 186, 187, 210, 211, 214, 215, 220, 221, 224, 225, 233, 234, 238, 239, 242, 243, 246, 247, 256, 265, 269, 280-284, 288, 289, 318-321, 341, 350, 351, 353, 355, 357, 359, 361, 364, 365, 368, 369, 372, 373, 521: 0.1μ 25V Z (VC694800)
11. Monolithic Cera. Cap.
C266, 268, 342, 376, 378, 380, 383, 385, 387, 392, 394, 396: 0.1μ 50V K (VF611200)
12. Monolithic Mylar Cap.
C161, 162, 170, 171, 197, 198, 206, 207, 250, 251, 253, 254, 301, 302, 325, 326: 0.022μ 50V J (VJ663000)
C156, 157, 159, 160, 163, 165, 166, 168, 169, 172, 192, 193, 195, 196, 199, 201, 202, 204, 205, 208, 229, 230, 252, 255, 257-261, 263, 295, 297-300, 312, 314-317: 0.22μ 50V J (VJ663100)
13. EMI Filter
EMI 1-20, 32-35: LS MT B271KB (FZ006920) 270P
EMI21-31: LS MT Y223NB (FZ006970) 22000P
14. Relay
RY 1-10: DC AG 8023 (VD613500)
15. Ferrite Bead
L 1-30: BL02RN1-R62T4 (GE300610)
16. Jumper Wire
R151, 152: Jumper wire 3NA-VK15160

● ANA Circuit Board (Version C)

● ANA1/2



● ANA2/2



Components side (部品側)

Notes)

Circuit Board:

1. IC

- IC 1-20, 89-92:
- IC 24, 26, 33, 84, 94, 96, 98, 100, 102, 104:
- IC 27-32, 71, 72:
- IC 34, 35, 40, 41, 50, 51, 65, 70:
- IC 36, 38, 42, 43, 46, 48, 63, 69, 75, 77, 79:
- IC 37, 39, 44, 45, 47, 49, 64, 68, 76, 78, 80:
- IC 52, 62:
- IC 53-55, 74:
- IC 56, 57, 60, 61, 73:
- IC 58:
- IC 66:
- IC 67:
- IC 81-83:
- IC 85:
- IC 106:

2. Transistor

- Q 1, 3, 5-8, 17, 23-25, 27-29:
- Q 2, 4, 15, 16, 20, 26:
- Q 9-14, 21, 22:

3. Digital Transistor

- DTC 1-11:

4. Diode

- D 1-8, 14, 29, 31-33:
- D 9, 30:
- D10-13, 15, 16:

5. Zener Diode

- ZD 1, 14:

6. Metal Film Resistor

- R 4, 5, 18, 19, 32, 33, 46, 47, 60, 61, 72, 73, 84, 85, 96, 97, 108, 109, 120, 121, 386, 388, 389, 392:
- R183, 188, 203, 208, 223, 228, 276, 284:
- R 14, 28, 42, 56, 70, 82, 94, 106, 118, 130, 340, 383:
- R180, 181, 200, 201, 220, 221, 278, 285:
- R170, 171, 173, 174, 193, 195, 197, 199, 213, 215, 217, 219, 281, 283, 294, 295:
- R185, 190, 205, 210, 225, 230, 287, 291:
- R399, 401, 412, 413, 423, 425, 435, 437, 447, 449, 459, 461:
- R 8, 9, 11, 13, 22, 23, 25, 27, 36, 37, 39, 41, 50, 51, 53, 55, 64, 65, 67, 69, 76, 77, 79, 81, 88, 89, 91, 93, 100, 101, 103, 105, 112, 113, 115, 117, 124, 125, 127, 129, 314, 315, 318, 319, 339, 342, 343, 348, 354, 360, 381:
- R400, 402, 411, 414, 424, 426, 436, 438, 448, 450, 460, 462:
- R404, 416, 428, 440, 452, 464:
- R 10, 12, 24, 26, 38, 40, 52, 54, 66, 68, 78, 80, 90, 92, 102, 104, 114, 116, 126, 128, 337, 341, 344, 382:

- ANA1/2 (VK707500) XH840C0
- ANA2/2 (VK707600) XH840C0

- NE5534P (IG076700) OP AMP.
- NE5532P (IG102500) OP AMP.
- M5238P (XA013001) OP AMP.
- PCM63P-Y (XH987A00) D/A CONVERTER
- AN78L05 (IG157200) +5V REGULATOR
- AN79L05 (XF611A00) -5V REGULATOR
- SN74HC04N (IR000450) INVERTER
- SM5803APT (XH751A00) DIGITAL FILTER
- SN74HC244 (IR024450) BUS-BUFFER
- SN74HC08N (IR000850) AND
- μPC311C (IG033400) COMPARATOR
- TL082CP (IG052500) OP AMP.
- AK5328-VP (XI521A00) A/D CONVERTER
- NJU211D (XC555001) ANALOG SWITCH
- SN74HC32N (IR003250) OR

- 2SC1815 Y, GR (IC181580)
- 2SA1015 O, Y (IA101580)
- 2SC2878 A, B (IC287820)

- DTC143XS (VD488500)

- 1S1885 (IH000240)
- 1SS133 (IF003450)
- 11ES4 (VB481900)

- RD27EB3 27V (IF005660)

- 75.0Ω 1/6 F (VC819600)

- 220.0Ω 1/6 F (VC820900)

- 430.0Ω 1/6 F (VC821600)

- 510.0Ω 1/6 F (VC821800)

- 1.0KΩ 1/6 F (VC822500)

- 1.5KΩ 1/4 F (VB065900)

- 5.1KΩ 1/4 F (VA074200)

- 10.0KΩ 1/6 F (VC824900)

- 12.0KΩ 1/6 F (VC825100)

- 24.0KΩ 1/4 F (VB068200)

- 39.0KΩ 1/6 F (VC826300)

- R 6, 7, 20, 21, 34, 35, 48, 49, 62, 63, 74, 75, 86, 87, 98, 99, 110, 111, 122, 123, 385, 387, 390, 391:
 - R403, 415, 427, 439, 451, 463:
- 43.0KΩ 1/6 F (VC826400)
 - 68.0KΩ 1/6 F (VC826900)

- 7. Trimmer Potentiometer
 - VR 1-12, 15-18:
 - VR19-24:
 - VR25-30:
- B220K 3P RHE (VA788500)
 - B5.0K 3P EVN (VD753100)
 - B500 3P 3321H (VD753100)

- 8. Electrolytic Cap.
 - C217, 218, 227, 228, 337-340:
- 330μ 35V (UJ858330)

- 9. Ceramic Cap.
 - C 36, 37, 39-42, 44-47, 49-52, 54-57, 59-62, 64-67, 69-72, 74-77, 79-82, 84, 85, 95, 97, 99, 101, 109, 110, 112, 113, 125, 126, 128, 129, 141, 142, 144, 145, 152, 153, 291, 292, 303, 304, 333, 334, 336, 346, 400-405, 412, 413, 420, 421, 428, 429, 431, 433-435, 437, 438, 456, 457, 467, 468, 478, 479, 489, 490, 500, 501, 511, 512:
- 10000P 16V N (VD843800)

- 10. Semiconductive Cera. Cap.
 - C 1-5, 88, 91, 94, 174, 175, 178, 179, 182, 183, 186, 187, 210, 211, 214, 215, 220, 221, 224, 225, 233, 234, 238, 239, 242, 243, 246, 247, 256, 265, 269, 270, 280-284, 288, 289, 318-321, 341, 350, 351, 353, 355, 357, 359, 361, 364, 365, 368, 369, 372, 373, 521, 575-577, 606:
- 0.1μ 25V Z (VC694800)

- 11. Monolithic Cera. Cap.
 - C266-268, 342, 376, 378, 380, 383, 385, 387, 392, 394, 396, 581, 582, 586, 587, 592, 593:
- 0.1μ 50V K (VF611200)

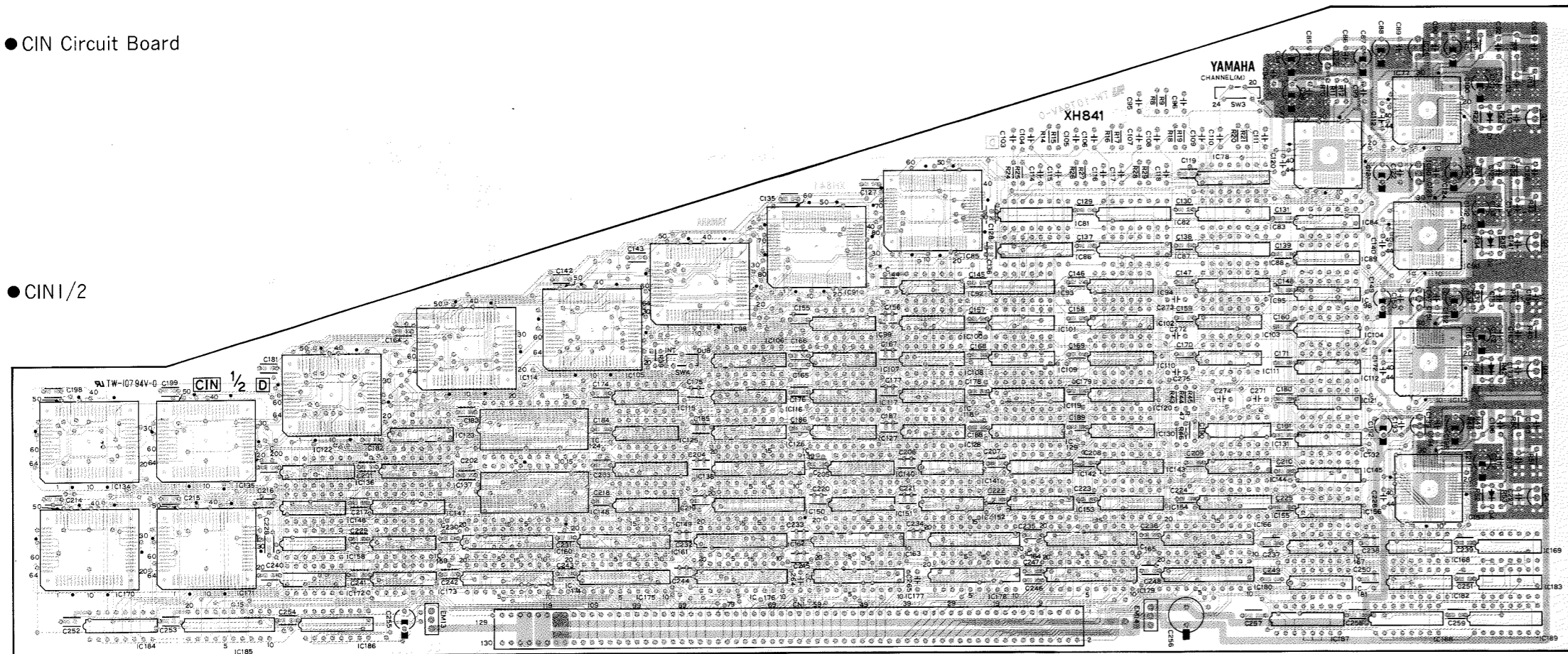
- 12. Monolithic Mylar Cap.
 - C161, 162, 170, 171, 197, 198, 206, 207, 250, 251, 253, 254, 301, 302, 325, 326:
 - C156, 157, 159, 160, 163, 165, 166, 168, 169, 172, 192, 193, 195, 196, 199, 201, 202, 204, 205, 208, 229, 230, 252, 255, 257-261, 263, 295, 297-300, 312, 314-317:
- 0.022μ 50V J (VJ663000)
 - 0.22μ 50V J (VJ663100)

- 13. EMI Filter
 - EMI 1-20, 32-35:
 - EMI21-31:
- LS MT B271KB (F2006920) 270P
 - LS MT Y223NB (F2006970) 22000P

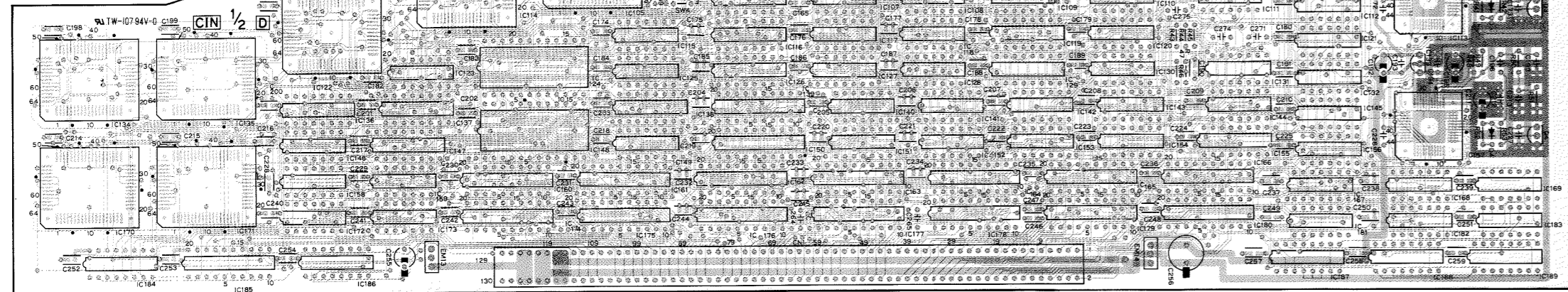
- 14. Relay
 - RY 1-13:
- DC AG 8023 (VD613500)

- 15. Ferrite Bead
 - L 3, 4, 6-9, 16-20, 22-30:
- BL02RN1-R62T4 (GE300610)

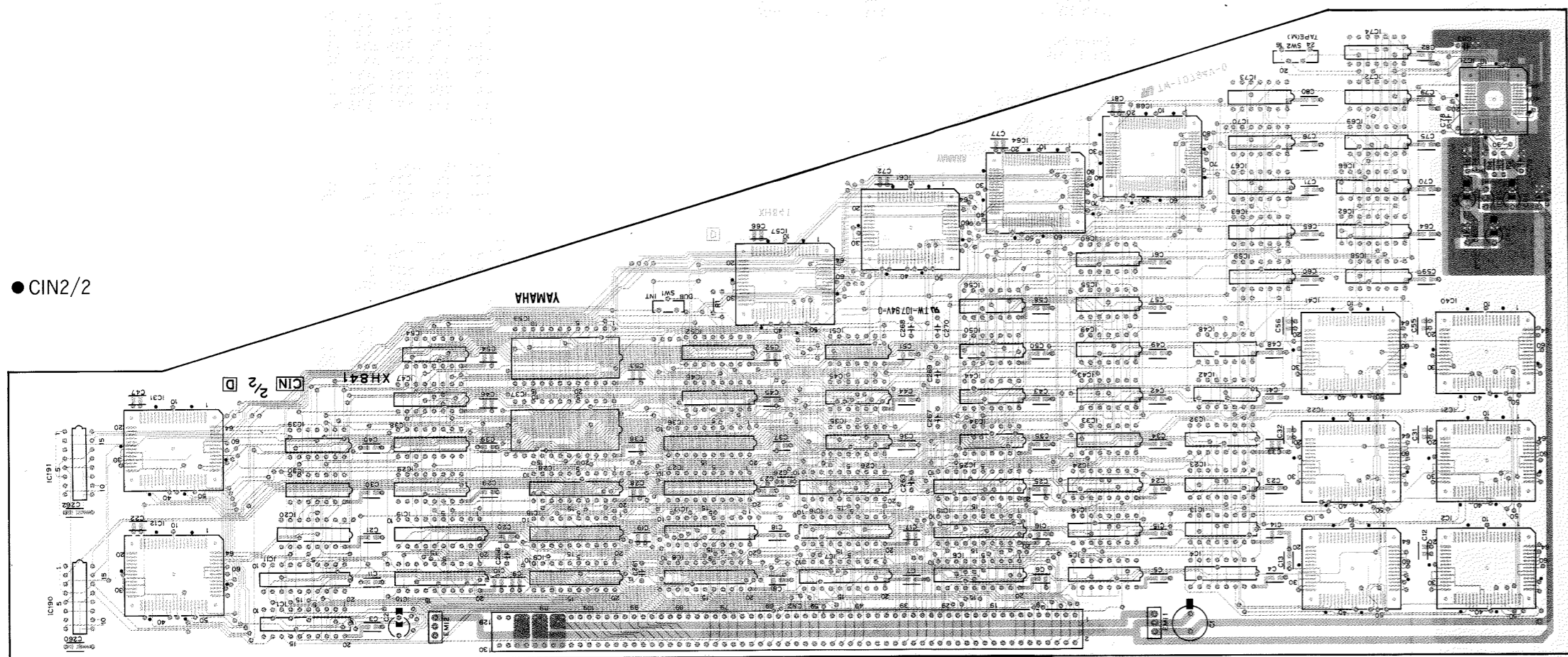
● CIN Circuit Board



● CIN1/2



● CIN2/2



Components side (部品側)

Notes)

Circuit Board:

1. IC
 IC 1, 6-11, 15, 16,
 18, 19, 26, 160,
 163-166, 174-180,
 185:
 IC 2, 3, 12, 21, 22,
 31, 40, 41, 57, 61,
 98, 105, 114, 122,
 134, 135, 170, 171:
 IC 4, 13, 23, 32:
 IC 5, 38, 46, 47, 52,
 106, 116, 126, 136,
 137, 147, 184:
 IC 14, 24:
 IC 17, 27, 28, 36, 139
 150, 161, 162:
 IC 20, 155, 186:
 IC 25:
 IC 29, 138:
 IC 30, 34, 35, 39, 84,
 100, 104, 132, 146,
 158, 168, 173:
 IC 33, 42, 43, 48-51,
 55, 56, 60, 72, 92,
 115, 118, 128, 130,
 131, 140-144, 151-
 154, 159:
 IC 37, 53, 124, 148:
 IC 44, 54, 125, 167,
 172, 182:
 IC 45, 59, 69, 108,
 123, 149:
 IC 58, 89, 109, 112,
 145, 169:
 IC 62, 66, 119, 129,
 187-189:
 IC 63, 67, 70, 73, 74,
 93, 94, 96, 99, 101-
 103, 107, 110, 111,
 117, 120, 121, 127,
 156, 181, 183:
 IC 64, 68, 85, 91:
 IC 65, 75, 76, 80, 97,
 133:
 IC 71, 77, 79, 90, 113,
 157:
 IC 78, 81-83, 86-88,
 95:
 IC 190, 191:
2. Transistor
 Q 1-4:
3. Diode
 D 1-4:
4. Electrolytic Cap.
 C 1, 256:
5. Semiconductive Cera. Cap.
 C 63, 67, 83, 85, 86,
 89, 90, 94, 122, 123,
 150, 151, 193, 194:
6. Monolithic Cera. Cap.
 C 73, 98:
 C 74, 78, 99, 101, 112,
 120, 133, 140, 162,
 172, 212, 226:
7. Chip Cera. Cap.
 C 3-61, 64-66, 70-72,
 75-77, 79-82, 119,
 127-131, 135-139,
 142-148, 155-160,
 164-171, 174-191,
 198-210, 214-225,
 228-254, 257-260,
 262:

CIN1/2 (VK708100) XH841D0
 CIN2/2 (VK708200) XH841D0

SN74HC244 (IRO24450) BUS-BUFFER

YM6067 (XH494A00) PSC4
 SN74HC151N (IRO15150) MULTIPLEXER

SN74HC157N (IRO15750) DATA-SELECTOR
 SN74HC153N (IRO15350) 4-1 SELECTOR

SN74HC273N (IRO27350) D-FF OCTAL
 SN74HC138N (IRO13850) DECODER 3-8
 SN74HC374N (IRO37450) D-FF
 SN74HC139N (IRO13950) DECODER 2-4

SN74HC08N (IRO00850) AND

SN74HC125N (IRO12550) 3S-BUFFER
 YMAB04 (XH888A00) BIT SHIFT

SN74HC04N (IRO00450) INVERTER

SN74HC32N (IRO03250) OR

SN74HC164N (IRO16450) SHIFT REGISTER

SN74HC163N (IRO16350) COUNTER

SN74HC74N (IRO07450) D-FF
 YM6035 (XE800A00) PSC2

AN78L05 (IG157200) +5V REGULATOR

YM3436BG (XG948C00) DIR2

TC74HC123AP (IRO12300) SINGLE SHOT
 YM3422B (XE862B00) ESI

2SC1815 Y, GR (IC181580)

1SS133 (IF003450)

470μ 16V (UJ838470)

0.1μ 16V M (FZ004100)

0.22μ 50V Z (VJ786300)

1.5μ 25V Z (VD534400)

F 0.01μ 50V Z (UB044100)

8. EMI Filter
 EMI 1-4:

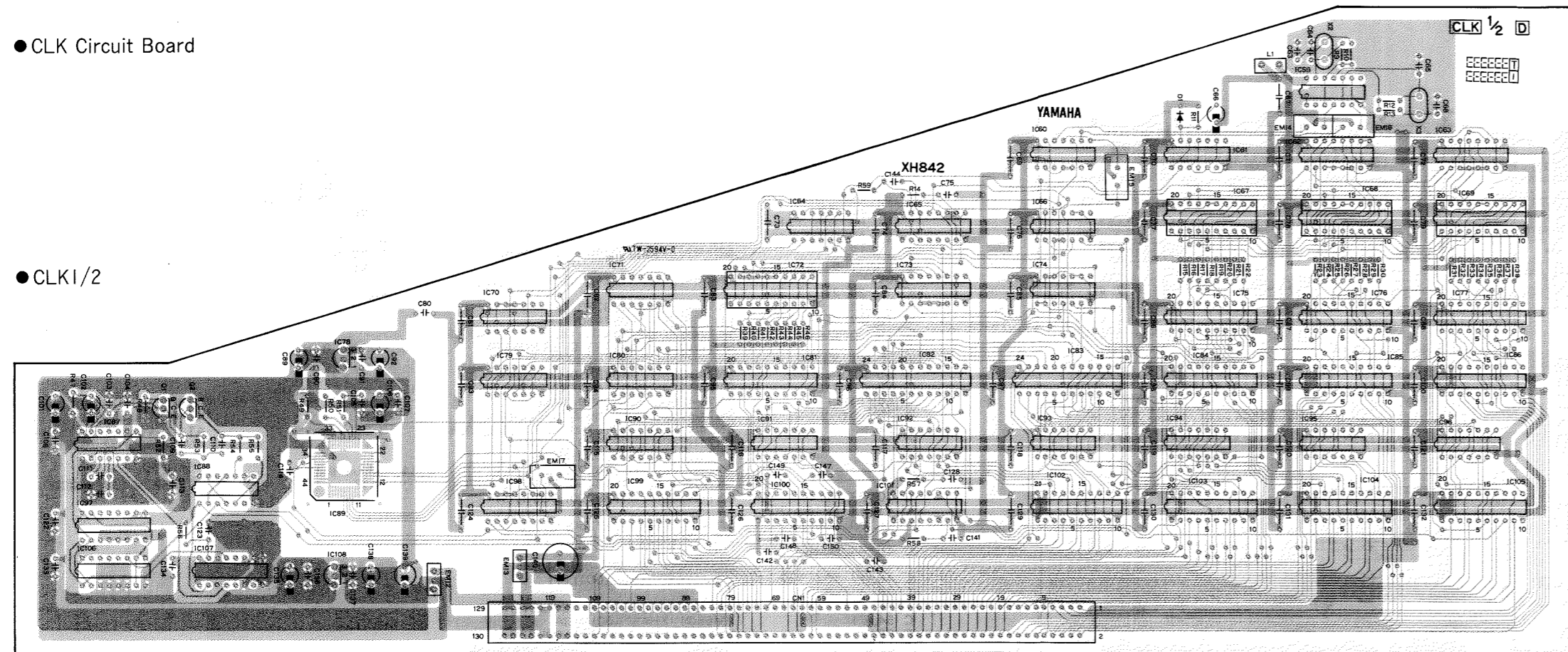
LS MT Y223NB (FZ006970) 22000P

9. Slide Switch
 SW 1, 4:
 SW 2, 3:

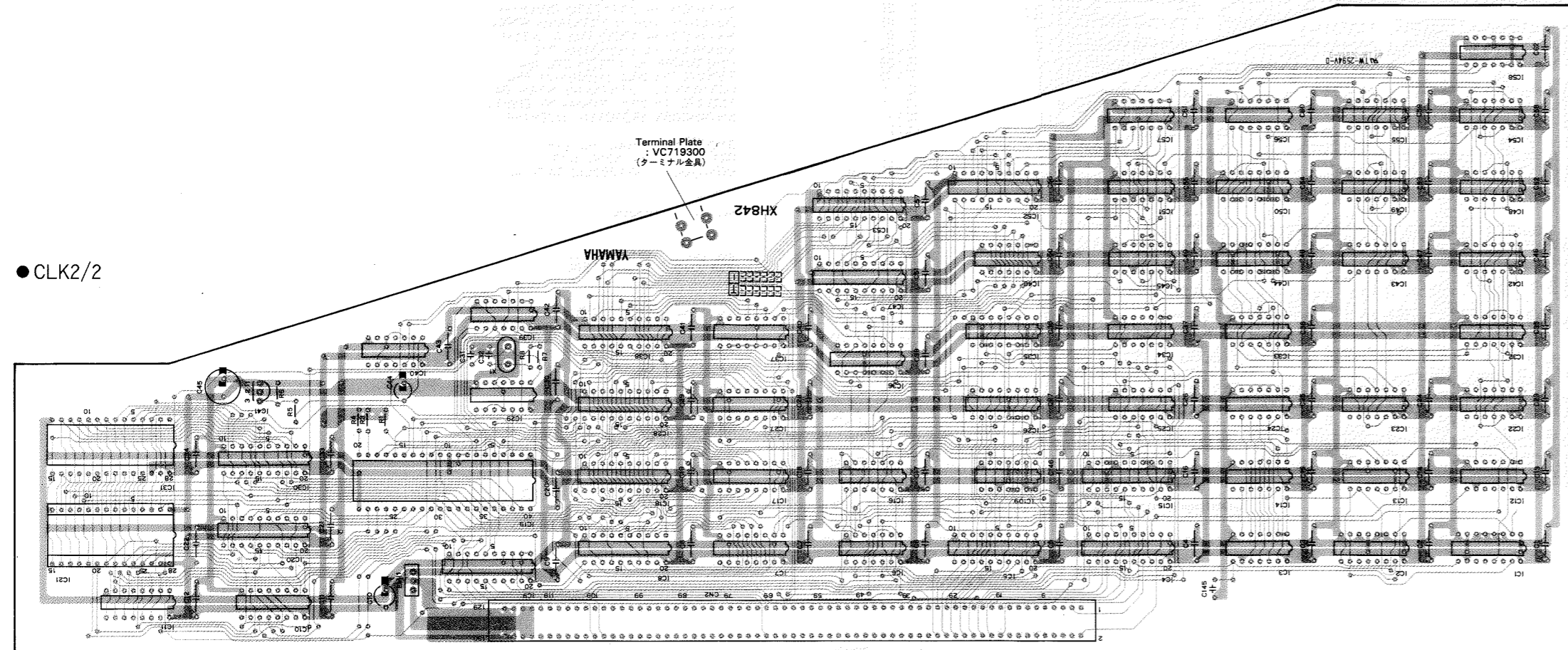
SSS212 (KA401270)
 SSSS213 (VK500200)

●CLK Circuit Board

●CLK1/2



●CLK2/2

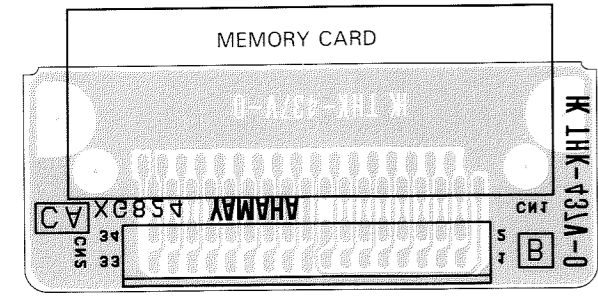


Components side (部品側)

Notes)

- | | |
|---|---|
| Circuit Board: | CLK1/2 (VK708300) XH842D0
CLK2/2 (VK708400) XH842D0 |
| 1. IC | |
| IC 1, 2, 62, 63, 73, 97, 106: | SN74HC163N (IRO16350) COUNTER
SN74HC164N (IRO16450) SHIFT REGISTER |
| IC 3, 12, 34, 46, 57: | SN74HC244 (IRO24450) BUS-BUFFER |
| IC 4, 5, 9, 53, 84-86, 99, 100, 102-105: | SN74HC00N (IRO00050) NAND
SN74HC165N (IRO16550) SHIFT REGISTER |
| IC 6: | SN74HC273N (IRO27350) D-FF OCTAL |
| IC 7, 17, 27, 36, 37: | SN74HC139N (IRO13950) DECODER 2-4 |
| IC 8, 15, 18, 28, 38, 75-77, 81: | SN74HC04N (IRO00450) INVERTER |
| IC 10, 11: | TC74HC4072AP (IR407200) OR |
| IC 13, 16, 80: | HD63BC3RP (IG105200) CPU 8bit |
| IC 14, 24: | SN74HC373N (IRO37350) D-LATCH |
| IC 19: | D27C010 (XI569B00) EP ROM |
| IC 20, 30, 47, 52: | |
| IC 21: | |
| IC 22, 23, 42, 43, 45, 48, 49, 51, 54, 55, 70, 109: | SN74HC74N (IRO07450) D-FF
SN74HC32N (IRO03250) OR |
| IC 25, 64, 74: | SN74HC157N (IRO15750) DATA-SELECTOR |
| IC 26, 35, 44, 50, 98: | SN74HC04N (IG142250) INVERTER |
| IC 29, 59: | LH5164D-10L (XF876A00) SRAM 64K |
| IC 31: | TC74HC86P (IRO08600) EX-OR |
| IC 32, 56, 58: | SN74HC08N (IRO00850) AND |
| IC 33, 39, 66: | SN74HC14N (IRO01450) INVERTER |
| IC 40, 61: | PST5188-2 (IG116200) SYSTEM RESET |
| IC 41: | SN74HC125N (IRO12550) 3S-BUFFER |
| IC 60, 71, 79, 90-96: | TC74HC123AP (IRO12300) SINGLE SHOT MV |
| IC 65, 101, 107: | MB711EHM (XI562B00) EP ROM (T1) |
| IC 67: | MB711EHM (XI565B00) EP ROM (T2) |
| IC 68: | MB711EHM (XI566B00) EP ROM (T3) |
| IC 69: | MB711EHM (XI567B00) EP ROM (T4) |
| IC 72: | AN78L05 (IG157200) +5V REGULATOR |
| IC 78, 108: | TC74HC154AP (IRO15400) DECODER 4-16 |
| IC 82, 83: | SN74LS524N (IG136400) VCO |
| IC 87: | MC4044 (IG057900) F.DETECT |
| IC 88: | YM3436BG (XG948C00) DIR2 |
| IC 89: | |
| 2. Transistor | |
| Q 1, 2: | 2SC1815 Y, GR (IC181580) |
| 3. Diode | |
| D 1: | 1SS133 (IF003450) |
| 4. Electrolytic Cap. | |
| C 45, 139: | 470μ 16V (UJ838470) |
| 5. Semiconductive Cera. Cap. | |
| C 90, 91, 136, 137: | 0.1μ 16V M (FZ004100) |
| 6. Monolithic Cera. Cap. | |
| C103, 104, 107, 108, 113, 114, 122, 133, 134: | 1.5μ 25V Z (VD534400) |
| C105: | 0.22μ 50V Z (FZ005780) |
| 7. Maica Capacitor | |
| C111: | 8P 500V J (FU450800) |
| 8. Coil | |
| L 1: | 20μ FL5R200QNT (VB835000) |
| 9. EMI Filter | |
| EMI 1-3: | LS MT Y223NB (FZ006970) 22000P |
| EMI 4-7: | NFV610-655T2A (VH227800) 50MHZ |
| 10. Ceramic Resonator | |
| X 1: | CSA8.00MT (QU008500) 8MHz |
| 11. Quartz Crystal Unit | |
| X 2: | AF5883CK (VI551900) 11.2896MHz |
| X 3: | AF2138CG (VI552000) 12.288MHz |

● CA Circuit Board

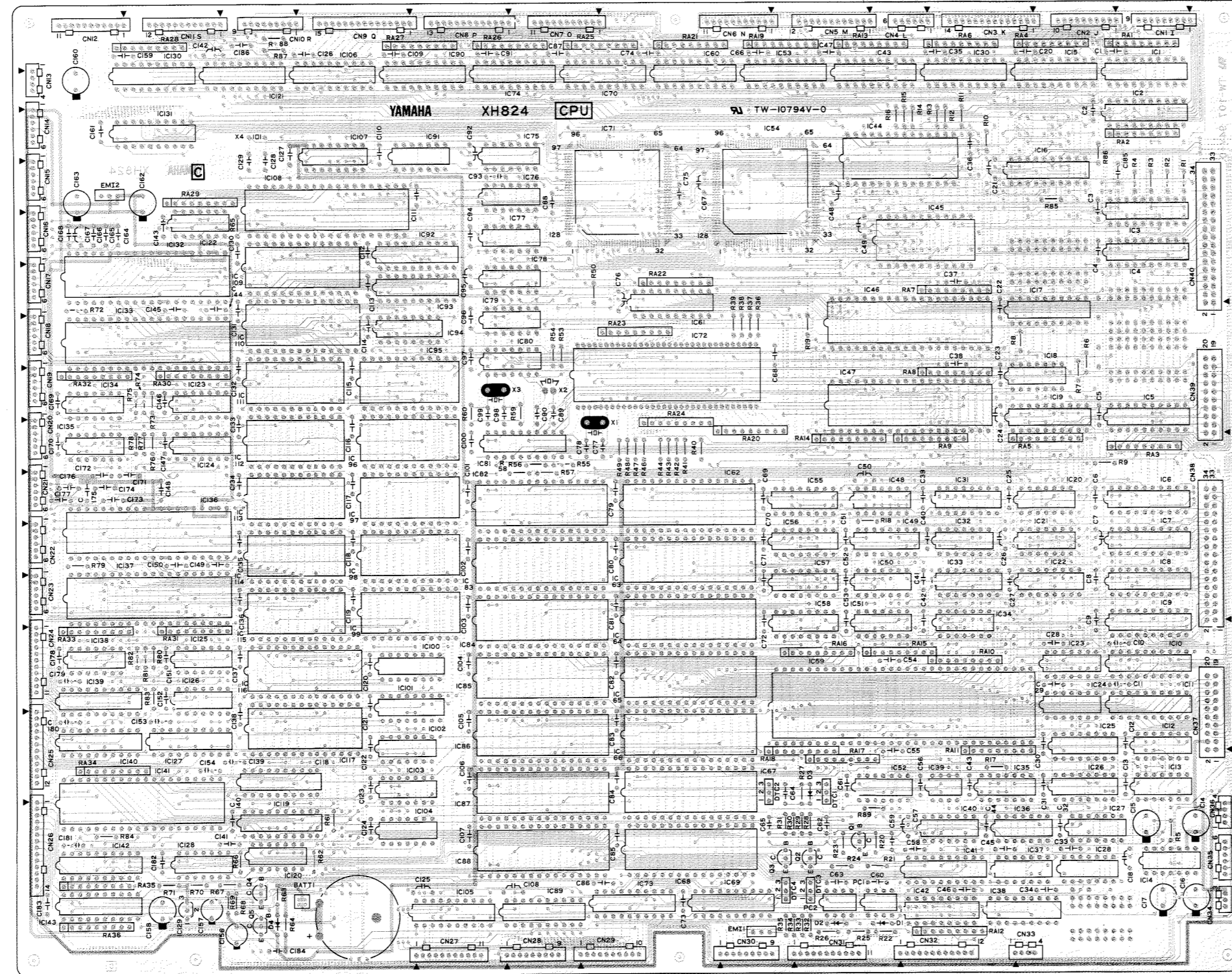


Pattern side (パターン側)

Notes

- Circuit Board: CA (VK155000) XG824B0
1. Connector, IC Card (MEMORY CARD)
CN1: IC3A-38PS-1.27D (VF821100) 38P

● CPU Circuit Board



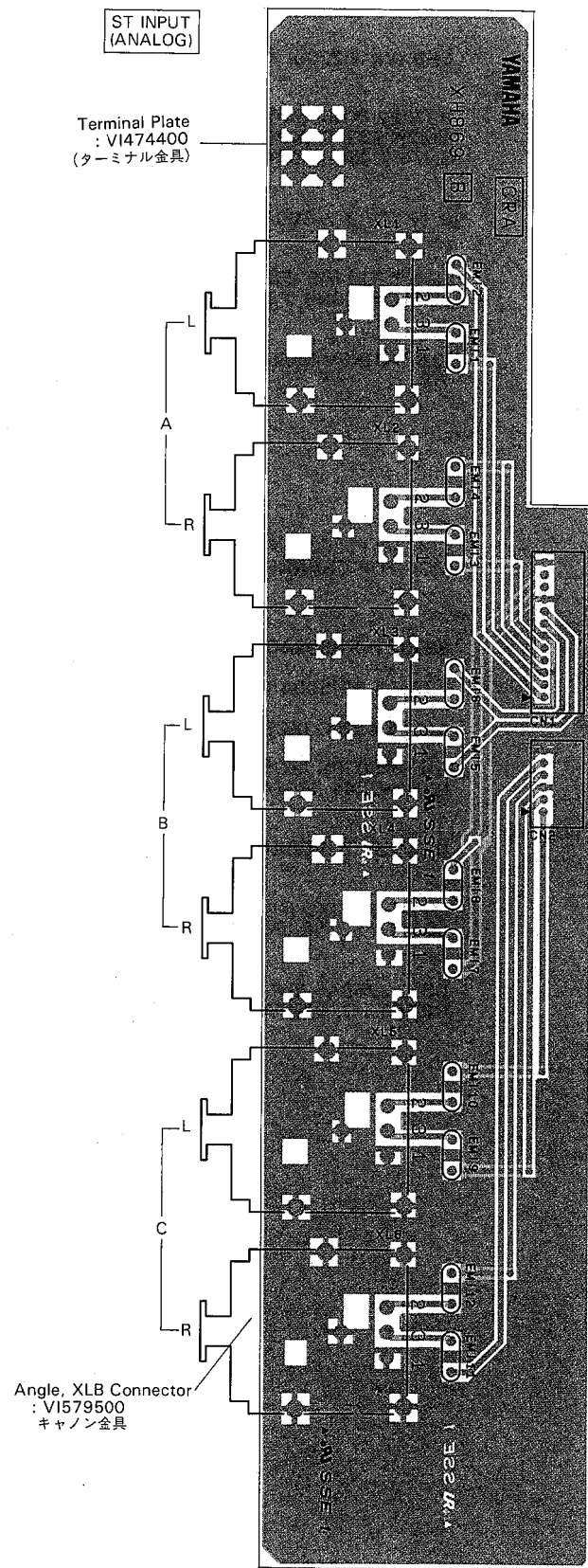
Components side (部品側)

Notes

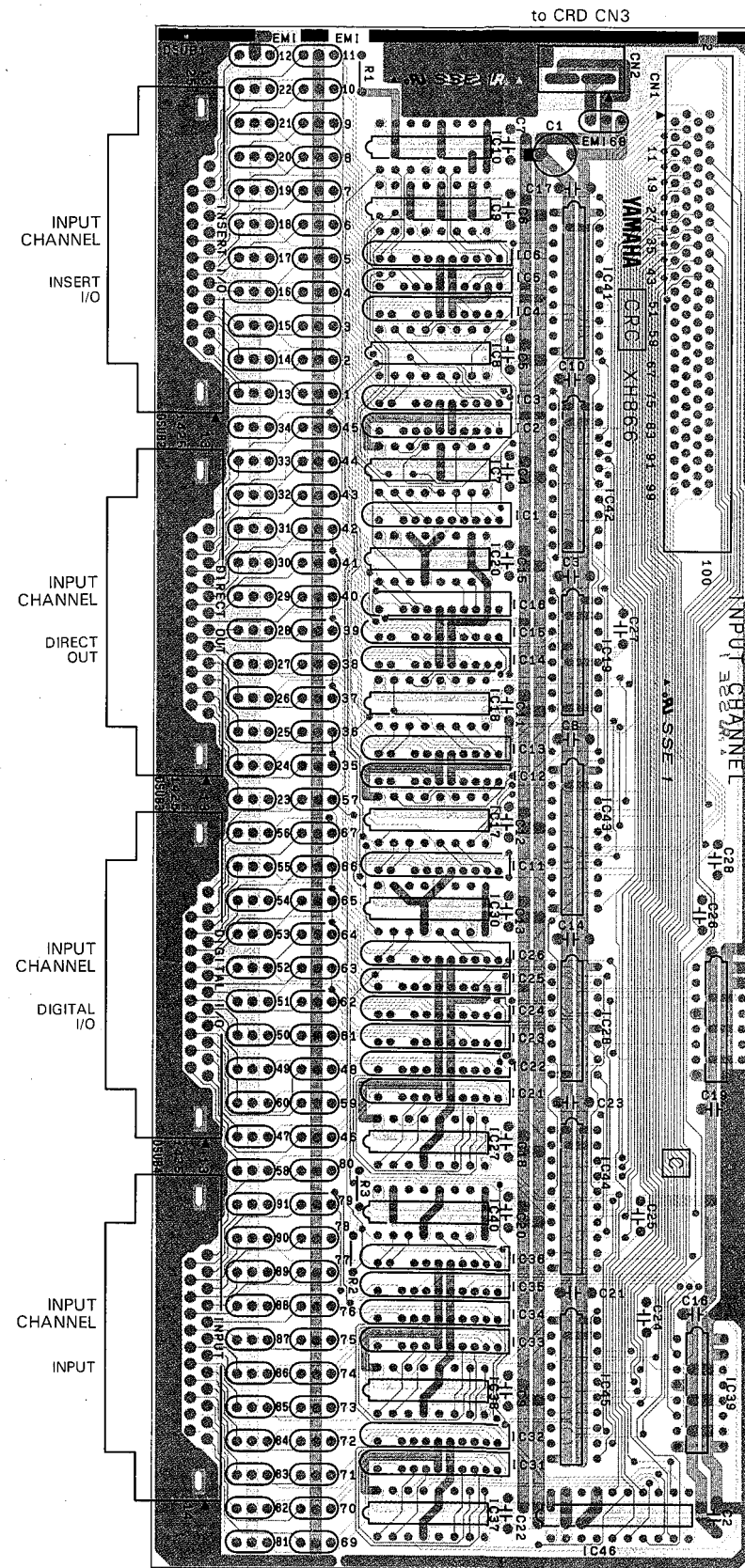
- | | | | |
|--|--|---|-------------------------|
| Circuit Board: | CPU (VK151200) XH824C0 | 9. Ceramic Cap.
C 1-13, 18, 20-58,
60, 61, 66-76, 79-
88, 91-97, 100-
127, 130-147, 149-
154, 159, 161, 169,
170, 178-183, 185,
186: | 10000P 16V N (VD843800) |
| 1. IC | IC 1, 2, 5, 15, 19,
30, 142, 143: | SN74HC374N (IR037450) D-FF | |
| IC 3, 6-8, 10, 16,
81, 89, 105, 121,
127, 131, 139, 140: | IC 9, 17: | SN74HC244 (IR024450) BUS-BUFFER
SN74HC240N (IR024050) BUS-BUFFER | |
| IC 106: | IC 11, 61, 69, 73,
12, 20, 21, 27, 34,
51, 75: | SN74HC245N (IR024550) TRANSCEIVER | |
| IC 13, 77, 102, 122: | IC 14: | SN74HC32N (IR003250) OR
SN74HC74N (IR007450) D-FF
SC17661C (XB088001) DC-DC CONVERTER
SN74HC125N (IR012550) 3S BUFFER | |
| IC 18: | IC 22, 31, 33, 49,
55-58, 94, 100: | SN74HC138N (IR013850) DECODER 3-8
SN74HC14N (IR001450) INVERTER
SN74HC00N (IR000050) NAND
SN74HC139N (IR013950) DECODER 2-4
SN74HC157N (IR015750) DATA-SELECTOR
SN74HC30N (IR003050) NAND
SN74HC03N (IR000350) NAND
SN74HC08N (IR000850) AND
SN74HC164N (IR016450) SHIFT REGISTER
SN74HC393N (IR039350) COUNTER | |
| IC 23, 28, 128: | IC 24, 103: | SN74HC273N (IR027350) D-FF OCTAL
WD1772PH-02 (XB623001) FDC | |
| IC 25, 101: | IC 26: | μPD71054C (XC310A00) P.T.C
μPD71055C (XB361001) PPI | |
| IC 26: | IC 32: | SN74HC04N (IR000450) INVERTER
YM6604 (XH497A00) ACIA
HD69HC000P12 (XC808A00) CPU
HM628128LP-10 (X1580A00) SRAM 1M
D27C010-120V10 (X1559A00) EPROM BOOT-0
HD63C01YORS37P (XH499B00) CPU
TC74HC86P (IR008600) EX-OR
SN74HC04N (IG142250) INVERTER
D27C010-120V10 (X1563A00) EPROM BOOT-E
SN74HC373N (IR037350) D-LATCH
MSM58321RS (IG090400) RTC
HD63B03RP (IG105200) CPU 8bit
TMS27C128-20JL (X1560A00) EPROM FADER1
LH5164D-10L (XF876A00) SRAM 64K
TMS27C128-20JL (X1564A00) EPROM FADER2
SN74HC05N (IR000550) INVERTER | |
| IC 35: | IC 36: | SN74HC11N (IR001150) AND
PST518B-2 (IG116200) SYSTEM RESET
HD46508A-1 (IG129200) DATA IN | |
| IC 37: | IC 40, 78, 79: | | |
| IC 41, 43, 53, 60, 70,
74, 90, 130: | IC 44: | | |
| IC 45, 95-99, 111-
115: | IC 46, 47, 133, 137: | | |
| IC 48, 50, 52, 91,
104: | IC 54, 71: | | |
| IC 59: | IC 62-67, 82-87: | | |
| IC 68: | IC 72: | | |
| IC 76: | IC 80: | | |
| IC 88: | IC 92, 93, 118, 119: | | |
| IC 107: | IC 108, 141: | | |
| IC 109: | IC 110, 117: | | |
| IC 116: | IC 120: | | |
| IC 123-126, 134, 135,
138: | IC 129: | | |
| IC 132, 136: | | | |
| 2. Photo Coupler
PC 1, 2: | | 6N137 (VD473200) | |
| 3. Transistor
Q 1-4:
Q 5: | | 2SC1815 Y, GR (IC181580)
2SA1015 O, Y (IA101580) | |
| 4. Digital Transistor
DTC 1-4: | | DTC143XS (VD488500) | |
| 5. Transistor Array
IC 38, 42: | | TD62381P (VJ041400) | |
| 6. Diode
D 1-4: | | 1SS133 (IF003450) | |
| 7. Resistor Array
RA 1-36: | | RGLD8X472J (VE331200) | |
| 8. Electrolytic Cap.
C160, 162, 163: | | 470μ 10V (UJ828470) | |

● CRA Circuit Board

● CRC Circuit Board



Components side (部品側)



Components side (部品側)

Notes)

- | | |
|--------------------------|--|
| Circuit Board: | CRA (VK152400) XH869B0 = ST INPUT (ANALOG) |
| 1. EMI Filter EMI 1-12: | MT-B271KB (FZ007050) 270P |
| 2. XLB Connector XL 1-6: | XLB-3-31PCV-M09 (VI443700) A(L, R), B(L, R), C(L, R) |

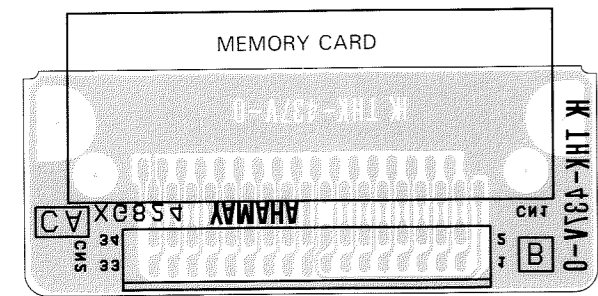
Notes)

- | | |
|--|---|
| Circuit Board: | CRC (VK152100) XH866C0 = INPUT CHANNEL |
| 1. IC | |
| IC 1, 2, 5, 16, 21, 22, 25, 31-35: | 897021 (XH595A00) RS422 IN |
| IC 3, 4, 6, 11-15, 23, 24, 26, 29, 36: | 897022 (XH596A00) RS422 OUT |
| IC 7, 9, 20, 27, 37-39: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC 8, 10, 17-19, 28, 30, 40: | AM26LS31PC (XC570001) LINE DRIVER |
| IC41-46: | SN74HC244 (IRO24450) BUS-BUFFER |
| 2. Semiconductive Cera. Cap. C 2-23: | 0.1μ 25V Z (VC694800) |
| 3. EMI Filter EMI 1-67, 69-91: EMI68: | LS MT B271KB (FZ006920) 270P
LS MT Y223NB (FZ006970) 22000P |
| 4. D-SUB Connector DSUB 1-4: | DBLC-J25SAF 25P (VL181700) INSERT I/O, DIRECT OUT, DIGITAL I/O, INPUT |

CRA: 3NA-VK15240
CRC: 3NA-VK15210



● CA Circuit Board

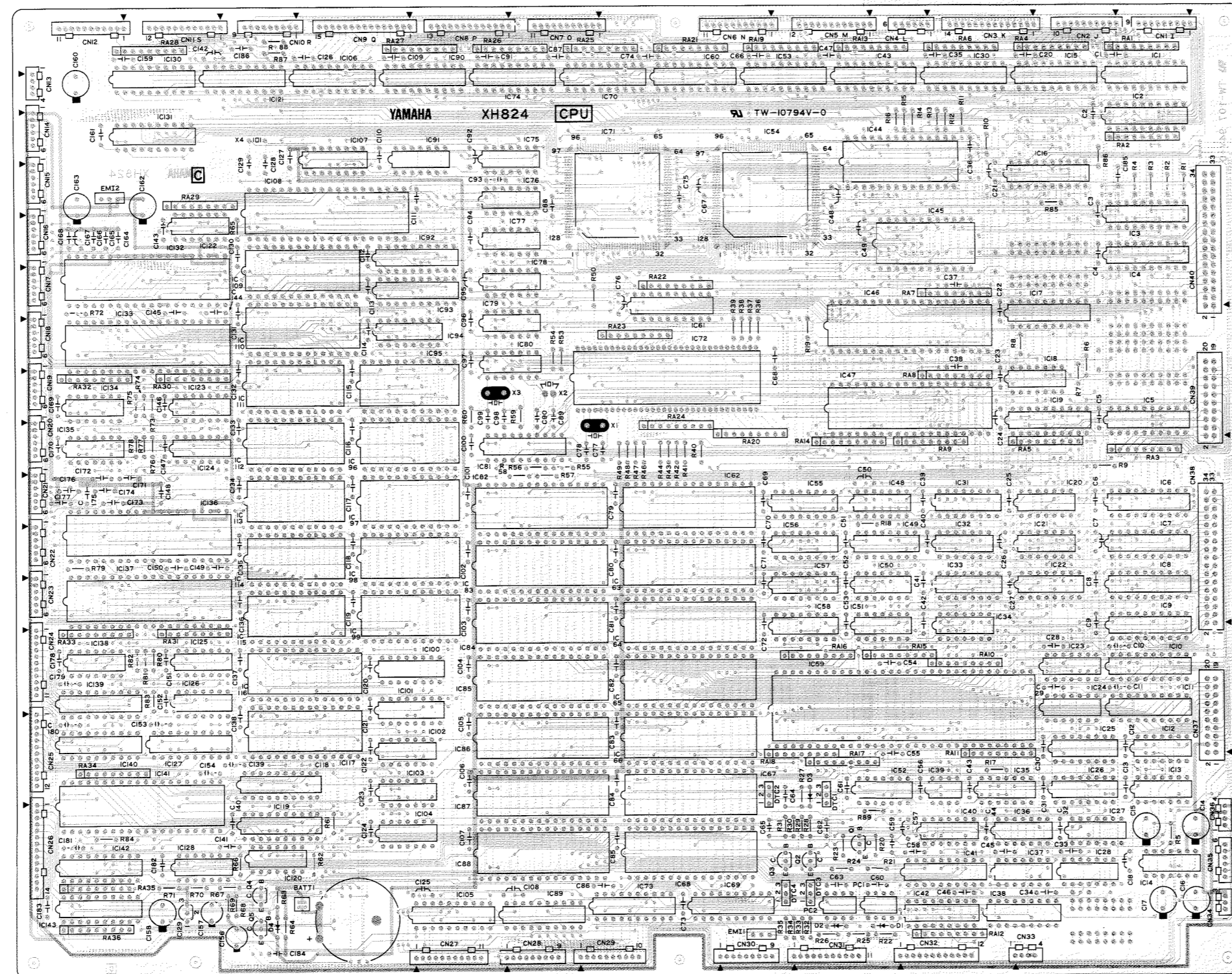


Pattern side (パターン側)

Notes

- Circuit Board: CA (VK155000) XG824B0
1. Connector, IC Card (MEMORY CARD)
CN1: IC3A-38PS-1.27D (VF821100) 38P

● CPU Circuit Board



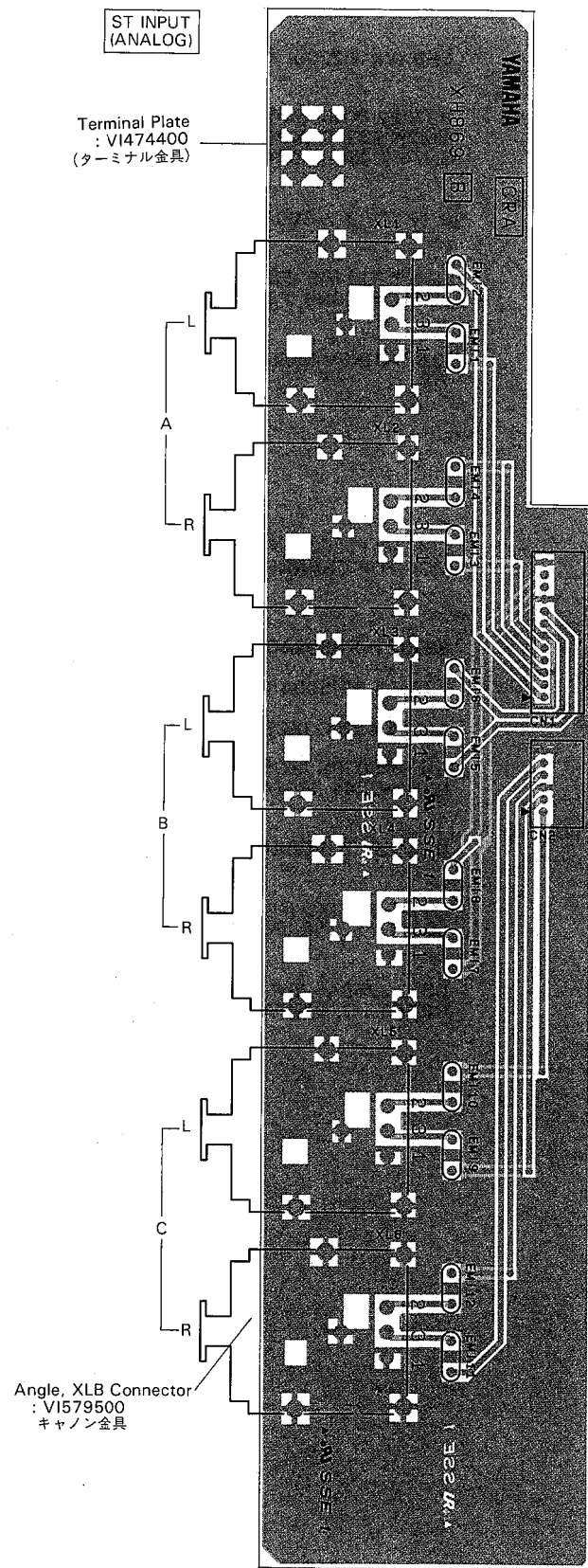
Components side (部品側)

Notes

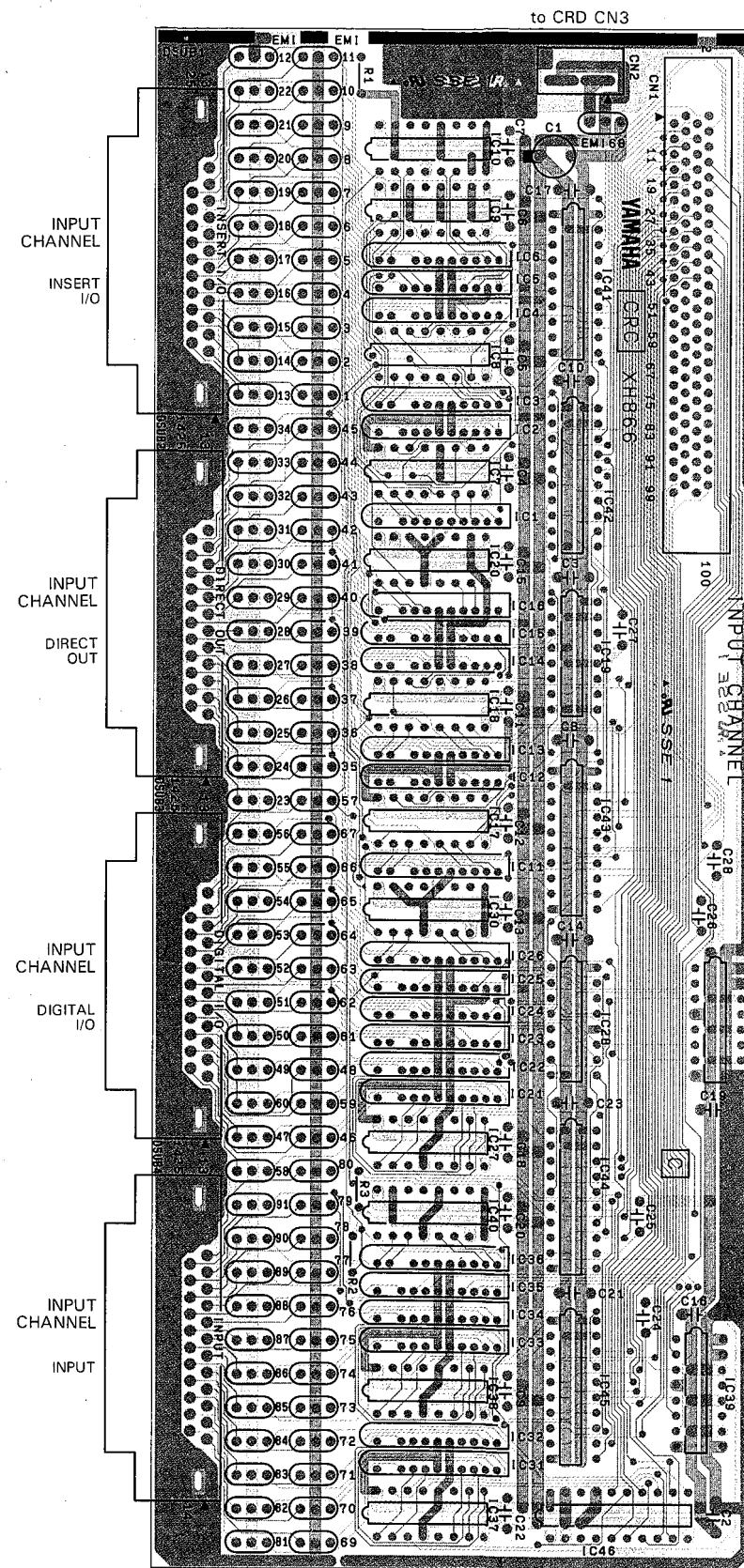
- Circuit Board: CPU (VK151200) XH824C0
1. IC
IC 1, 2, 5, 15, 19, 30, 142, 143: SN74HC374N (IR037450) D-FF
IC 3, 6-8, 10, 16, 81, 89, 105, 121, 127, 131, 139, 140: SN74HC244 (IR024450) BUS-BUFFER
IC 4, 17: SN74HC240N (IR024050) BUS-BUFFER
IC 9, 11, 61, 69, 73, 106: SN74HC245N (IR024550) TRANSCEIVER
IC 12, 20, 21, 27, 34, 51, 75: SN74HC32N (IR003250) OR
IC 13, 77, 102, 122: SN74HC74N (IR007450) D-FF
IC 14: SC17661C (XB088001) DC-DC CONVERTER
IC 18: SN74HC125N (IR012550) 3S-BUFFER
IC 22, 31, 33, 49, 55-58, 94, 100: SN74HC138N (IR013850) DECODER 3-8
IC 23, 28, 128: SN74HC14N (IR001450) INVERTER
IC 24, 103: SN74HC00N (IR000050) NAND
IC 25, 101: SN74HC139N (IR013950) DECODER 2-4
IC 26: SN74HC157N (IR015750) DATA-SELECTOR
IC 32: SN74HC30N (IR003050) NAND
IC 35: SN74HC03N (IR000350) NAND
IC 36: SN74HC08N (IR000850) AND
IC 37: SN74HC164N (IR016450) SHIFT REGISTER
IC 40, 78, 79: SN74HC393N (IR039350) COUNTER
IC 41, 43, 53, 60, 70, 74, 90, 130: SN74HC273N (IR027350) D-FF OCTAL
IC 44: WD1772PH-02 (XB623001) FDC
IC 45, 95-99, 111-115: μ PD71054C (XC310A00) P.T.C
IC 46, 47, 133, 137: μ PD71055C (XB361001) PPI
IC 48, 50, 52, 91, 104: SN74HC04N (IR000450) INVERTER
IC 54, 71: YM6604 (XH497A00) ACIA
IC 59: HD69HC000P12 (XC808A00) CPU
IC 62-67, 82-87: HM628128LP-10 (X1580A00) SRAM 1M
IC 68: D27C010-120V10 (X1559A00) EPROM BOOT-0
IC 72: HD63C01YORS37P (XH499B00) CPU
IC 76: TC74HC86P (IR008600) EX-OR
IC 80: SN74HCU04N (IG142250) INVERTER
IC 88: D27C010-120V10 (X1563A00) EPROM BOOT-E
IC 92, 93, 118, 119: SN74HC373N (IR037350) D-LATCH
IC107: MSM58321RS (IG090400) RTC
IC108, 141: HD63B03RP (IG105200) CPU 8bit
IC109: TMS27C128-20JL (X1560A00) EPROM FADER1
IC110, 117: LH5164D-10L (XF876A00) SRAM 64K
IC116: TMS27C128-20JL (X1564A00) EPROM FADER2
IC120: SN74HC05N (IR000550) INVERTER
IC123-126, 134, 135, 138: SN74HC11N (IR001150) AND
IC129: PST518B-2 (IG116200) SYSTEM RESET
IC132, 136: HD46508A-1 (IG129200) DATA IN
2. Photo Coupler
PC 1, 2: 6N137 (VD473200)
3. Transistor
Q 1-4: 2SC1815 Y, GR (IC181580)
Q 5: 2SA1015 O, Y (IA101580)
4. Digital Transistor
DTC 1-4: DTC143XS (VD488500)
5. Transistor Array
IC 38, 42: TD62381P (VJ041400)
6. Diode
D 1-4: 1SS133 (IF003450)
7. Resistor Array
RA 1-36: RGLD8X472J (VE331200)
8. Electrolytic Cap.
C160, 162, 163: 470 μ 10V (UJ828470)
9. Ceramic Cap.
C 1-13, 18, 20-58, 60, 61, 66-76, 79-88, 91-97, 100-127, 130-147, 149-154, 159, 161, 169, 170, 178-183, 185, 186: 10000P 16V N (VD843800)
10. Monolithic Cera. Cap.
C 63, 64, 148, 164-168, 171-177: 0.1 μ 50V Z (VI307100)
11. EMI Filter
EMI 1, 2: LS MT Y223NB (FZ006970) 22000P
12. Ceramic Resonator
X 2: CSB (VJ041100) 1.2288MHz
13. Quartz Crystal Unit
IC 39: EXO-3C (VF939500) 24MHz
X 1: AT-49 (VJ040900) 10.752MHz
X 3: AT-51 (VE804600) 16MHz
X 4: (VA070900) 32.768KHz
14. Lithium Battery
BATT: CR2450-HE4 (VF913300)

● CRA Circuit Board

● CRC Circuit Board



Components side (部品側)



Components side (部品側)

Notes)

- | | |
|--------------------------|--|
| Circuit Board: | CRA (VK152400) XH869B0 = ST INPUT (ANALOG) |
| 1. EMI Filter EMI 1-12: | MT-B271KB (FZ007050) 270P |
| 2. XLB Connector XL 1-6: | XLB-3-31PCV-M09 (VI443700) A(L, R), B(L, R), C(L, R) |

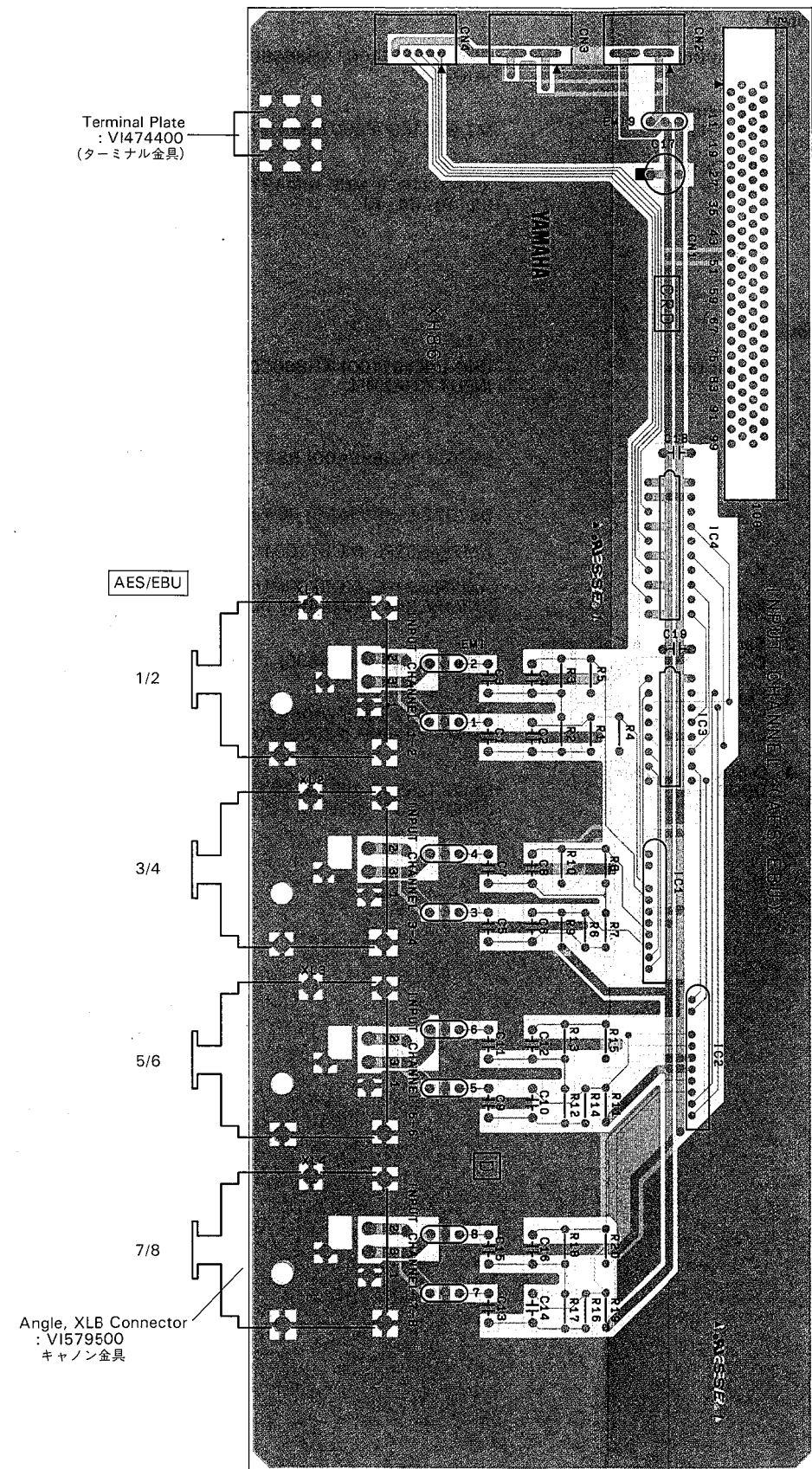
Notes)

- | | |
|--|---|
| Circuit Board: | CRC (VK152100) XH866C0 = INPUT CHANNEL |
| 1. IC | |
| IC 1, 2, 5, 16, 21, 22, 25, 31-35: | 897021 (XH595A00) RS422 IN |
| IC 3, 4, 6, 11-15, 23, 24, 26, 29, 36: | 897022 (XH596A00) RS422 OUT |
| IC 7, 9, 20, 27, 37-39: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC 8, 10, 17-19, 28, 30, 40: | AM26LS31PC (XC570001) LINE DRIVER |
| IC41-46: | SN74HC244 (IRO24450) BUS-BUFFER |
| 2. Semiconductive Cera. Cap. C 2-23: | 0.1μ 25V Z (VC694800) |
| 3. EMI Filter EMI 1-67, 69-91: EMI68: | LS MT B271KB (FZ006920) 270P
LS MT Y223NB (FZ006970) 22000P |
| 4. D-SUB Connector DSUB 1-4: | DBLC-J25SAF 25P (VL181700) INSERT I/O, DIRECT OUT, DIGITAL I/O, INPUT |

CRA: 3NA-VK15240
CRC: 3NA-VK15210

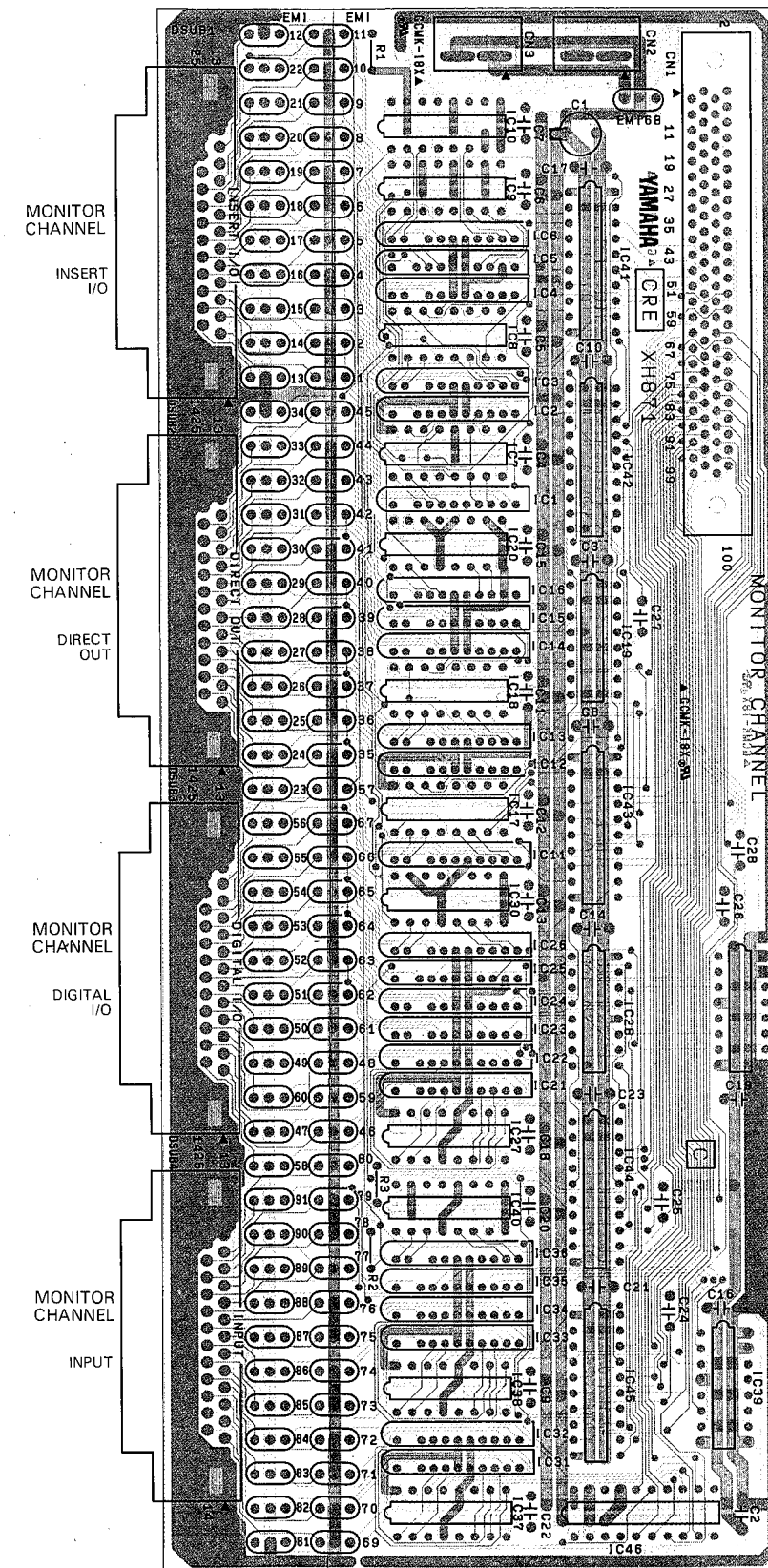


● CRD Circuit Board



Components side (部品側)

● CRE Circuit Board



Components side (部品側)

Notes)

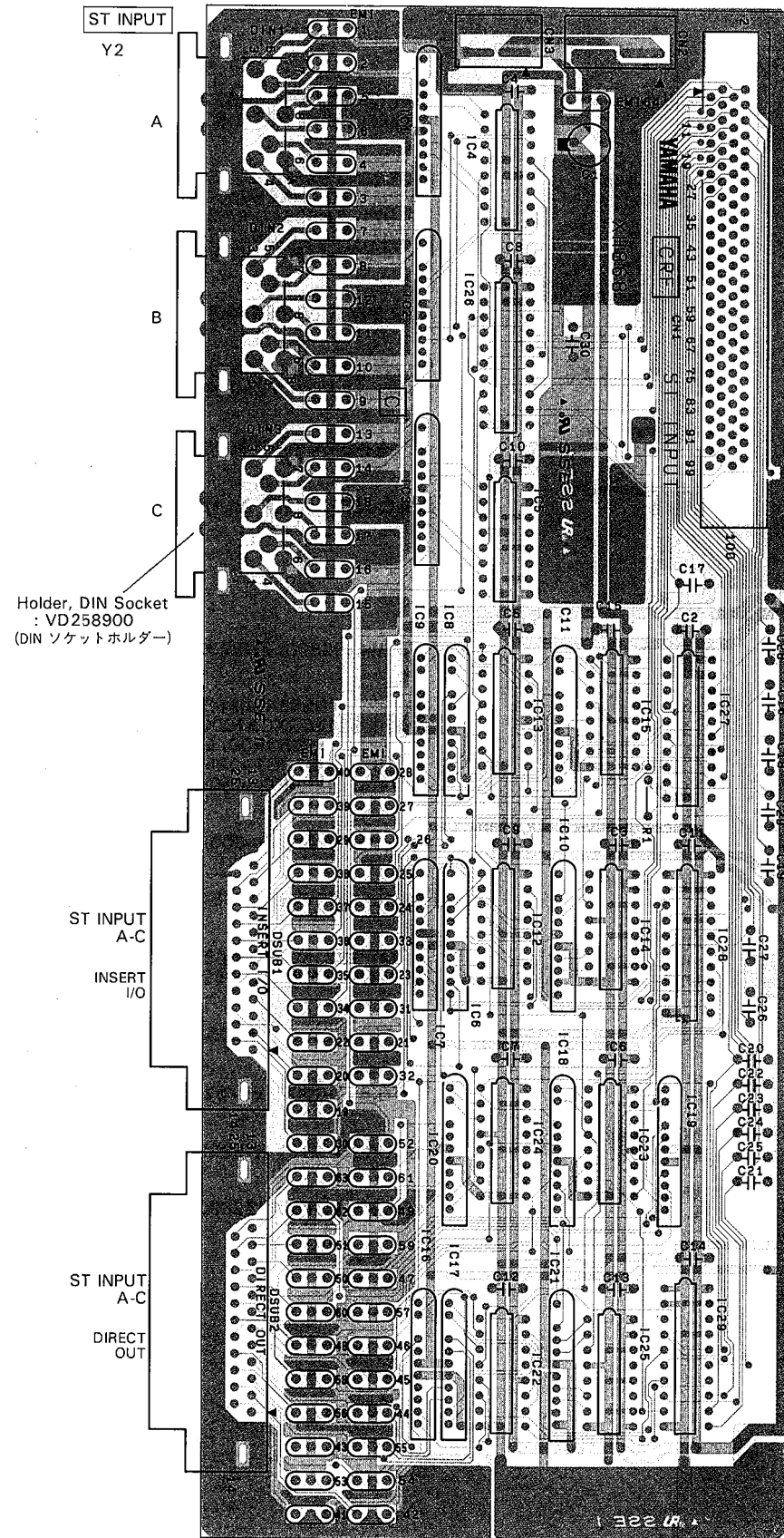
- | | |
|------------------------------|---|
| Circuit Board: | CRD (VK152200) XH867D0 = AES/EBU |
| 1. IC | 897022 (XH596A00) RS422 OUT |
| IC 1, 2: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC 3: | SN74HC244 (IR024450) BUS-BUFFER |
| IC 4: | |
| 2. Semiconductive Cera. Cap. | 0.1μ 25V Z (VC694800) |
| C 18, 19: | |
| 3. EMI Filter | LS MT B271KB (FZ006920) 270P |
| EMI 1-8: | LS MT Y223NB (FZ006970) 22000P |
| EMI 9: | |
| 4. XLB Connector | XLB-3-31PCV-M09 (VI443700) 1/2, 3/4, 5/6, 7/8 |
| XL 1-4: | |

Notes)

- | | |
|------------------------------|---|
| Circuit Board: | CRE (VK152600) XH871C0 = MONITOR CHANNEL |
| 1. IC | 897021 (XH595A00) RS422 IN |
| IC 1, 2, 5, 16, 21, | 897022 (XH596A00) RS422 OUT |
| 22, 25, 31-35: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC 3, 4, 6, 11-15, | AM26LS31PC (XC570001) LINE DRIVER |
| 23, 24, 26, 36: | SN74HC244 (IR024450) BUS-BUFFER |
| IC 7, 9, 20, 27, 29, | |
| 37-39: | |
| IC 8, 10, 17-19, | |
| 28, 30, 40: | |
| IC 41-46: | |
| 2. Semiconductive Cera. Cap. | 0.1μ 25V Z (VC694800) |
| C 2-23: | |
| 3. EMI Filter | LS MT B271KB (FZ006920) 270P |
| EMI 1-67, 69-91: | LS MT Y223NB (FZ006970) 22000P |
| EMI 68: | |
| 4. D-SUB Connector | DBLC-J25SAF 25P (VL181700) INSERT I/O, DIRECT I/O, DIGITAL I/O, INPUT |
| DSUB 1-4: | |

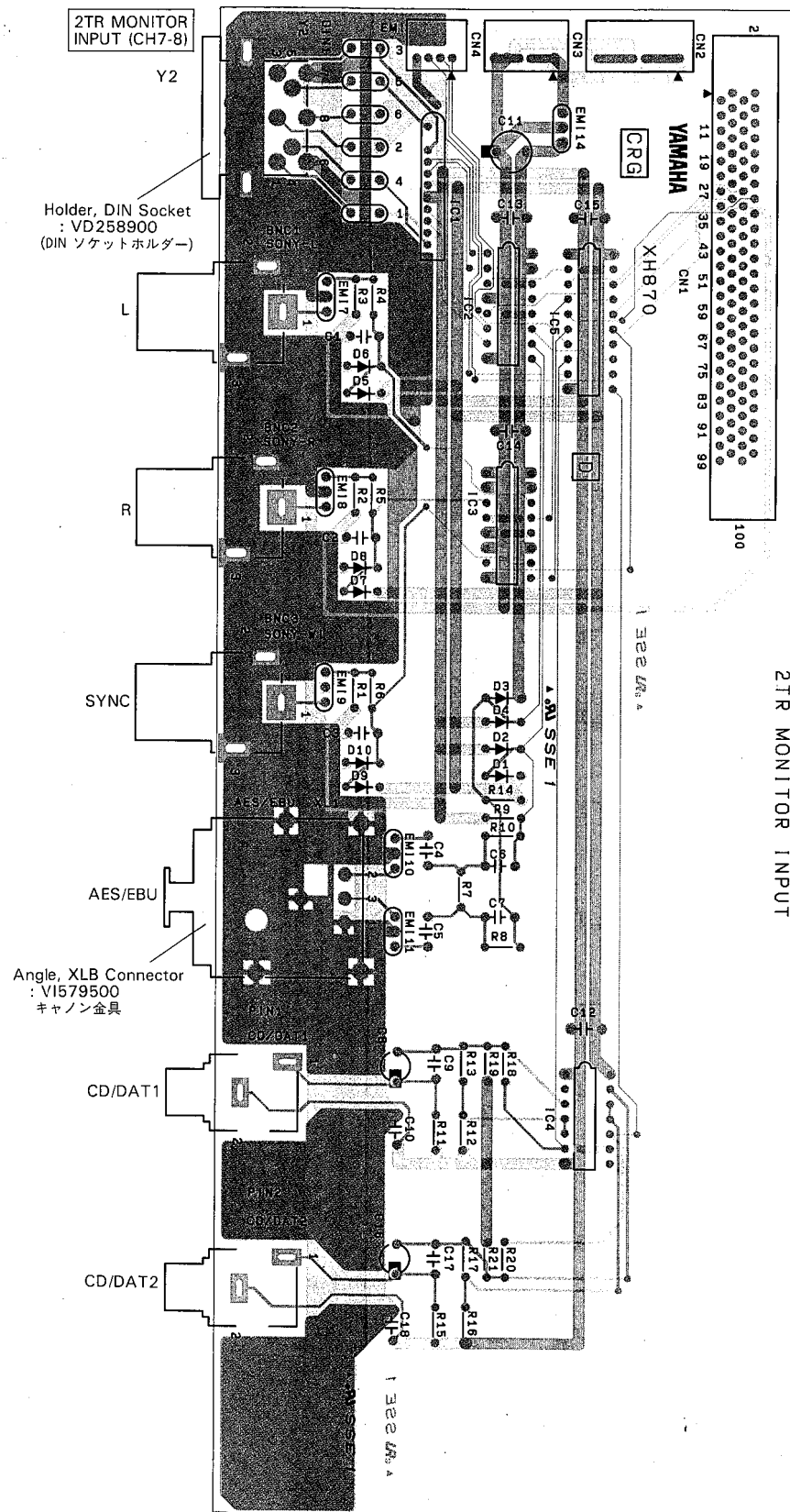


● CRF Circuit Board



Components side (部品側)

● CRG Circuit Board



Components side (部品側)

Notes)

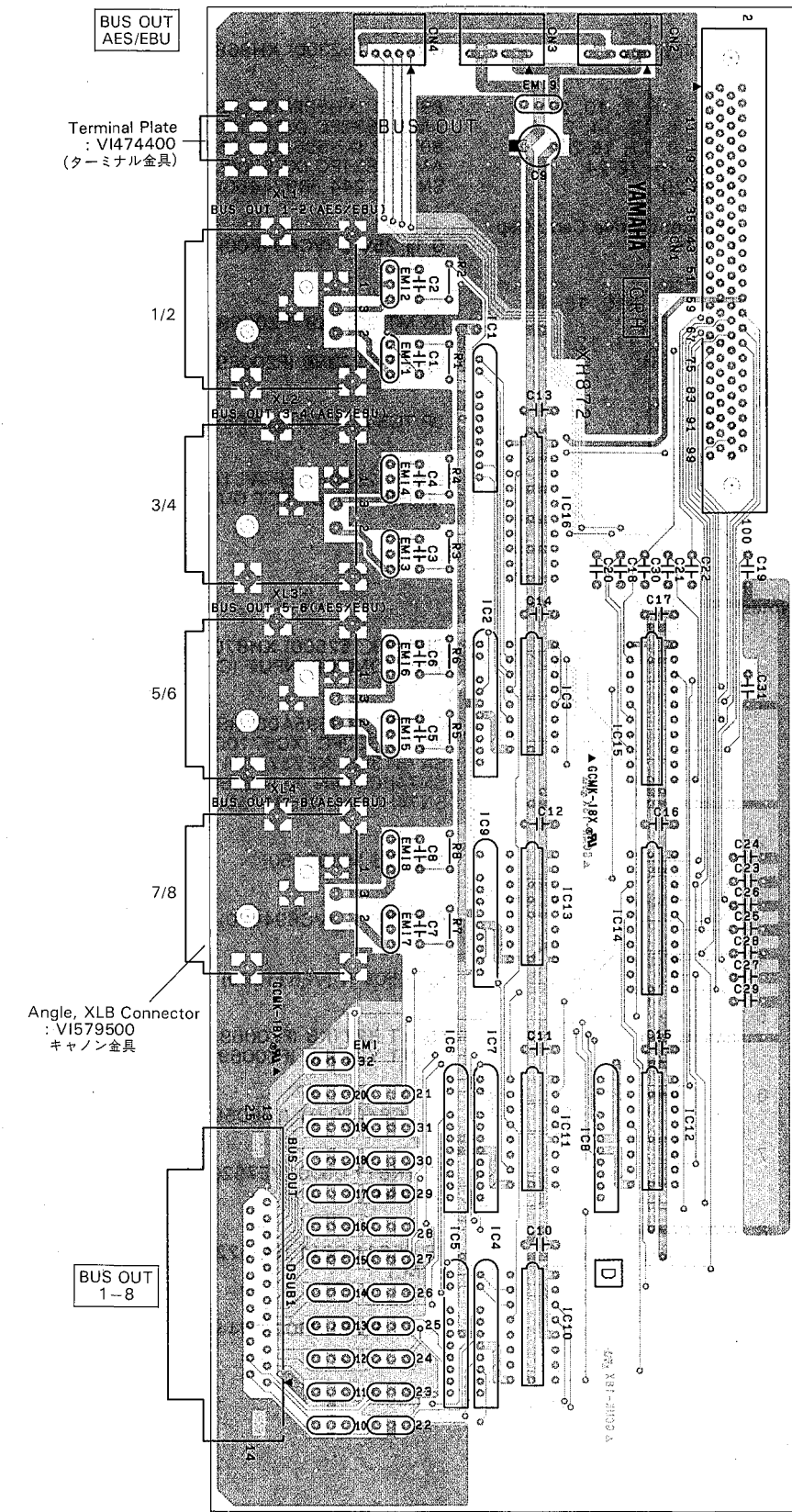
- | | |
|------------------------------|--|
| Circuit Board: | CRF (VK152300) XH868CO = ST INPUT |
| 1. IC | 897021 (XH595A00) RS422 IN |
| IC 1-3, 6, 7, 10, 21: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC 4, 5, 12, 14, 25: | 897022 (XH596A00) RS422 OUT |
| IC 8, 9, 11, 16-20: | AM26LS31PC (XC570001) LINE DRIVER |
| IC 13, 15, 22-24: | SN74HC244 (IRO24450) BUS-BUFFER |
| IC 26-29: | |
| 2. Semiconductive Cera. Cap. | 0.1 μ 25V Z (VC694800) |
| C 2-15: | |
| 3. EMI Filter | |
| EMI 1-4, 7-10, 13-16 | LS MT B271KB (FZ006920) 270P |
| 19-63: | LS MT Y223NB (FZ006970) 22000P |
| EMI 5, 6, 11, 12, 17, | |
| 18, 64: | |
| 4. DIN Jack | |
| DIN 1-3: | 8P TCS4680-01 (LB605820) Y2 (A, B, C) |
| 5. D-SUB Connector | |
| DSUB 1, 2: | DBLC-J25SAF 25P (VL181700) ST INPUT A-C (INSERT I/O, DIRECT OUT) |

Notes)

- | | |
|------------------------------|--|
| Circuit Board: | CRG (VK152500) XH870DO = 2TR MONITOR INPUT (CH7-8) |
| 1. IC | 897021 (XH595A00) RS422 IN |
| IC 1: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC 2: | SN75124N (XE737A00) LINE RECEIVER |
| IC 3: | SN74HCU04N (IG142250) INVERTER |
| IC 4: | SN74HC244 (IRO24450) BUS-BUFFER |
| IC 5: | |
| 2. Diode | |
| D 1-10: | 1SS133 (IF003450) |
| 3. Semiconductive Cera. Cap. | 0.1 μ 25V Z (VC694800) |
| C 10, 12-15, 18: | |
| 4. Monolithic Cera. Cap. | 0.1 μ 50V K (VF611200) |
| C 9, 17: | |
| 5. EMI Filter | |
| EMI 1, 3-5, 7-11: | LS MT B271KB (FZ006920) 270P |
| EMI 2, 6, 14: | LS MT Y223NB (FZ006970) 22000P |
| 6. DIN Jack | |
| DIN 1: | 8P TCS4680-01 (LB605820) Y2 |
| 7. Pin Jack | |
| PIN 1, 2: | 1P YKB11-0500 (VE752000) CD/DAT1, CD/DAT2 |
| 8. BNC Connector | |
| BNC 1-3: | 1P YKS11-0011 (VI552200) SDIF2 (L, R, SYNC) |
| 9. XLB Connector | |
| XL 1: | XLB-3-31PCV-M09 (VI443700) AES/EBU |

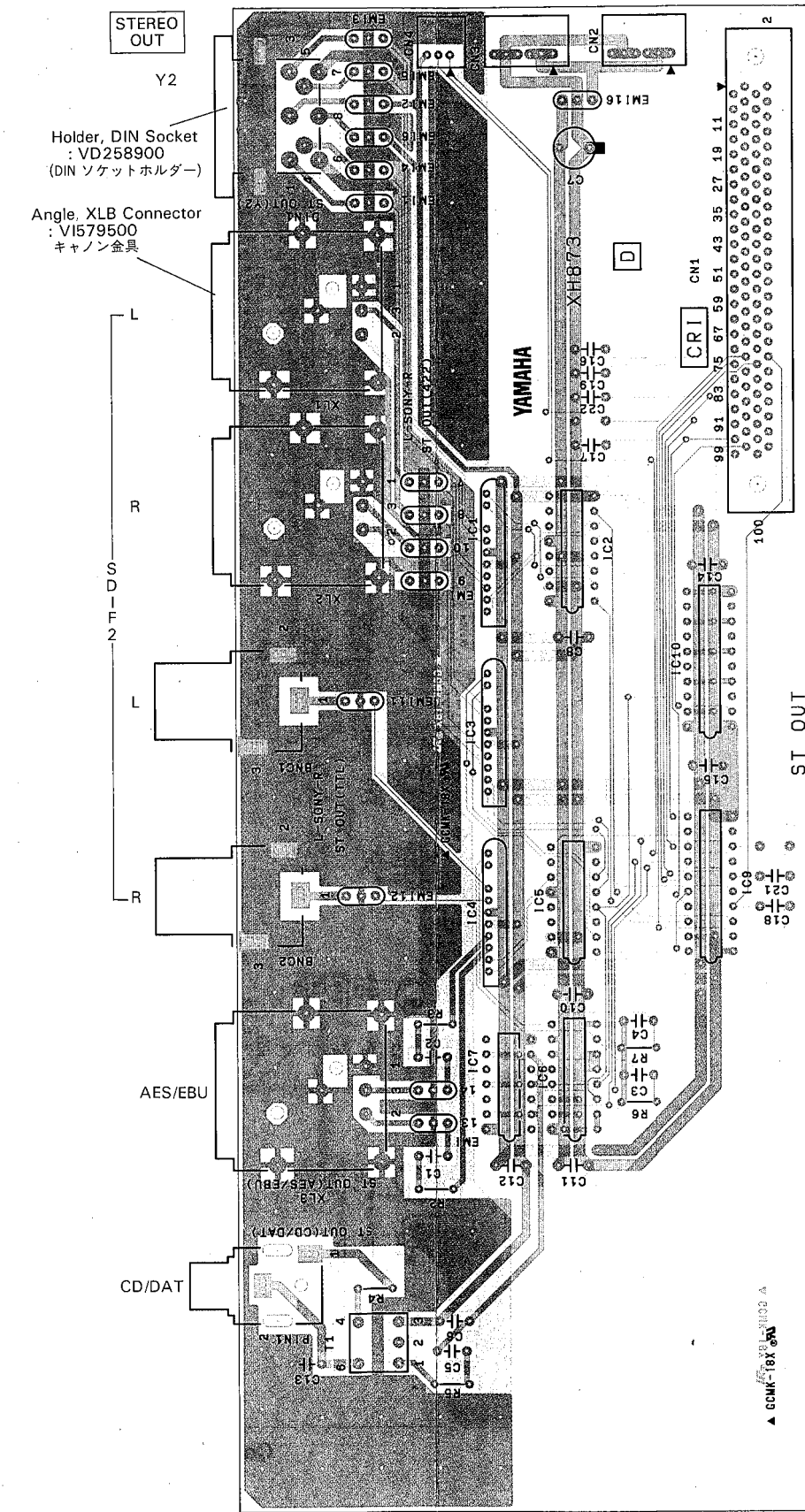
CRF: 3NA-VK15230 \triangle
 CRG: 3NA-VK15250 \triangle

● CRH Circuit Board



Components side (部品側)

● CRI Circuit Board



Components side (部品側)

Notes)

- | | |
|------------------------------|---|
| Circuit Board: | CRH (VK152700) XH872D0 = BUS OUT AES/EBU, BUS OUT 1-8 |
| 1. IC | 897022 (XH596A00) RS422 OUT |
| IC 1, 2, 4-8: | AM26LS31PC (XC570001) LINE DRIVER |
| IC 3, 10-12: | 897021 (XH595A00) RS422 IN |
| IC 9: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC13: | SN74HC244 (IRO24450) BUS-BUFFER |
| IC14-16: | |
| 2. Semiconductive Cera. Cap. | 0.1μ 25V Z (VC694800) |
| C 10-17: | |
| 3. EMI Filter | LS MT B271KB (FZ006920) 270P |
| EMI 1-8, 10-32: | LS MT Y223NB (FZ006970) 22000P |
| EMI 9: | |
| 4. XLB Connector | XLB-3-32PCV (VI579600) 1/2, 3/4, 5/6, 7/8 |
| XL 1-4: | |
| 5. D-SUB Connector | DBLC-J25SAF 25P (VL181700) BUS OUT 1-8 |
| DSUB 1: | |

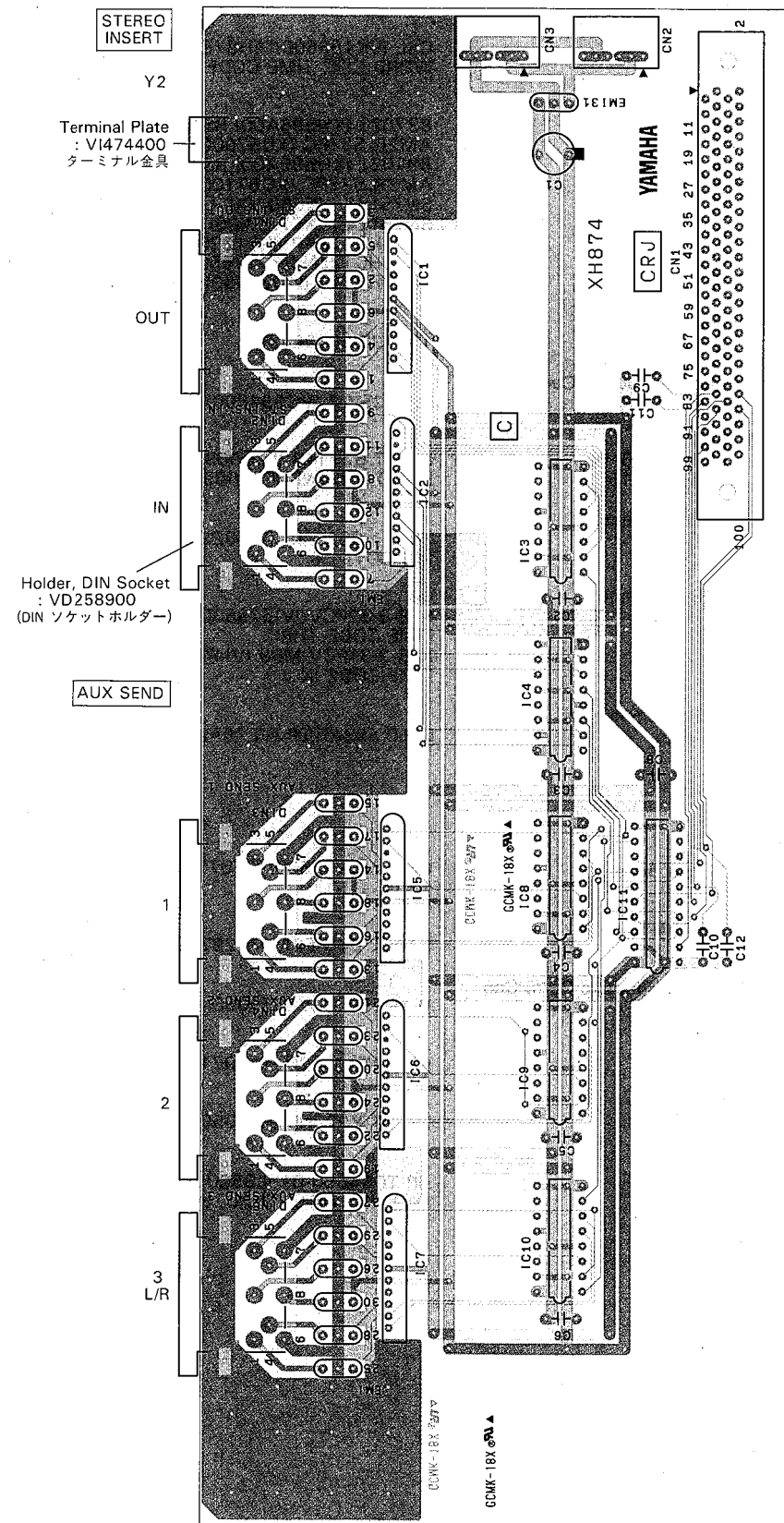
Notes)

- | | |
|------------------------------|---------------------------------------|
| Circuit Board: | CRI (VK152800) XH873D0 = ST OUT |
| 1. IC | 897022 (XH596A00) RS422 OUT |
| IC 1, 3, 4: | AM26LS31PC (XC570001) LINE DRIVER |
| IC 2, 5: | SN75121 (XE683A00) LINE DRIVER |
| IC 6: | SN74HCU04N (IG142250) INVERTER |
| IC 7: | SN74HC244 (IRO24450) BUS-BUFFER |
| IC 9, 10: | |
| 2. Semiconductive Cera. Cap. | 0.1μ 25V Z (VC694800) |
| C 8, 10-15: | |
| 3. Pulse Transformer | TC-1019-06 7mm (VC548200) 100μ |
| T 1: | |
| 4. EMI Filter | LS MT B271KB (FZ006920) 270P |
| EMI 1, 3-5, 7-14: | LS MT Y223NB (FZ006970) 22000P |
| EMI 2, 6, 16: | |
| 5. DIN Jack | 8P TCS4680-01 (LB605820) Y2 |
| DIN 1: | |
| 6. Pin Jack | 1P YKB11-0500 (VE752000) CD/DAT |
| PIN 1: | |
| 7. BNC Connector | 1P YKS11-0011 (VI552200) SDF2 (L, R) |
| BNC 1, 2: | |
| 8. XLB Connector | XLB-3-32PCV (VI579600) ST OUT AES/EBU |
| XL 1-3: | |

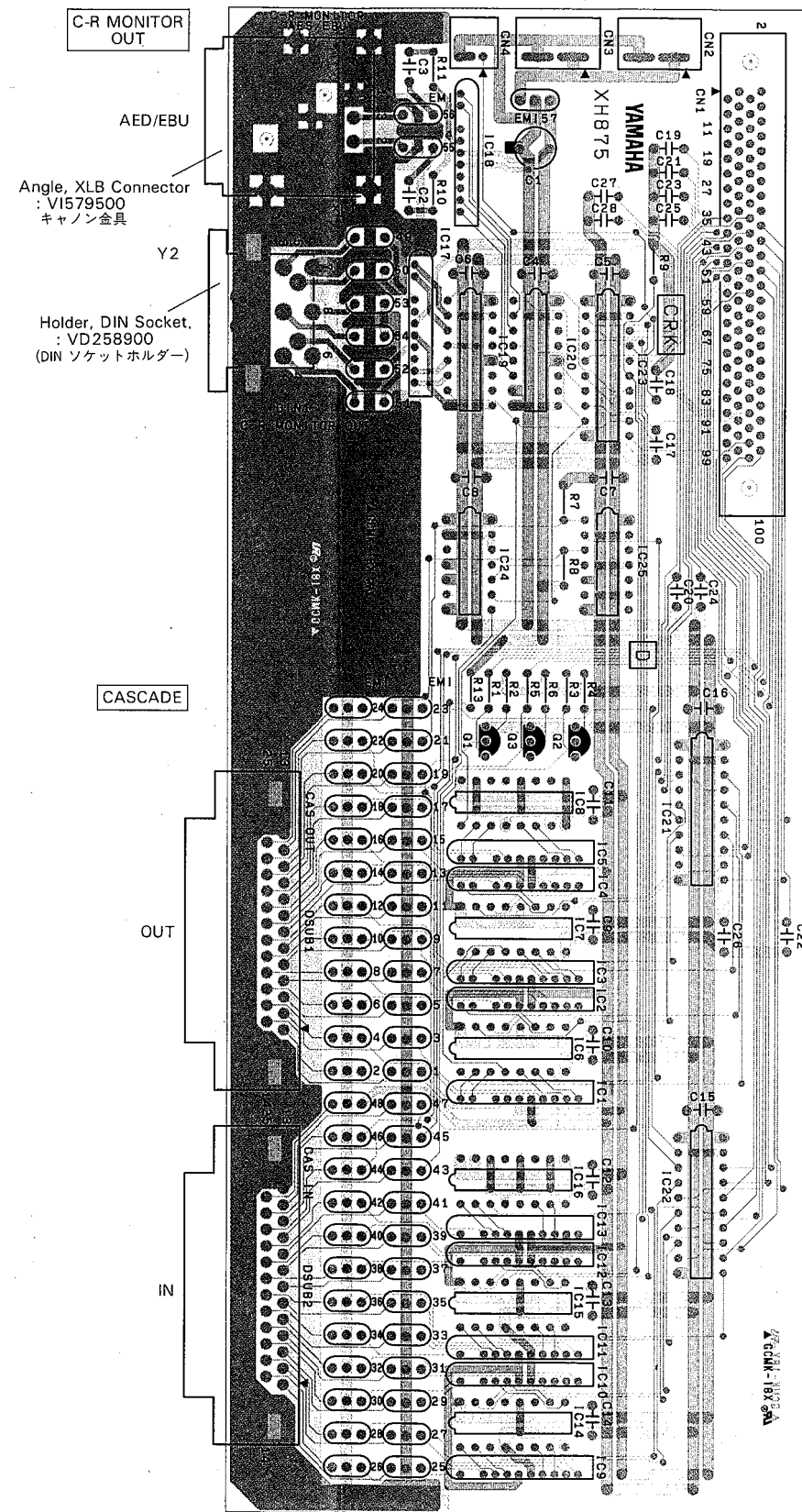


● CRJ Circuit Board

● CRK Circuit Board



Components side (部品側)



Components side (部品側)

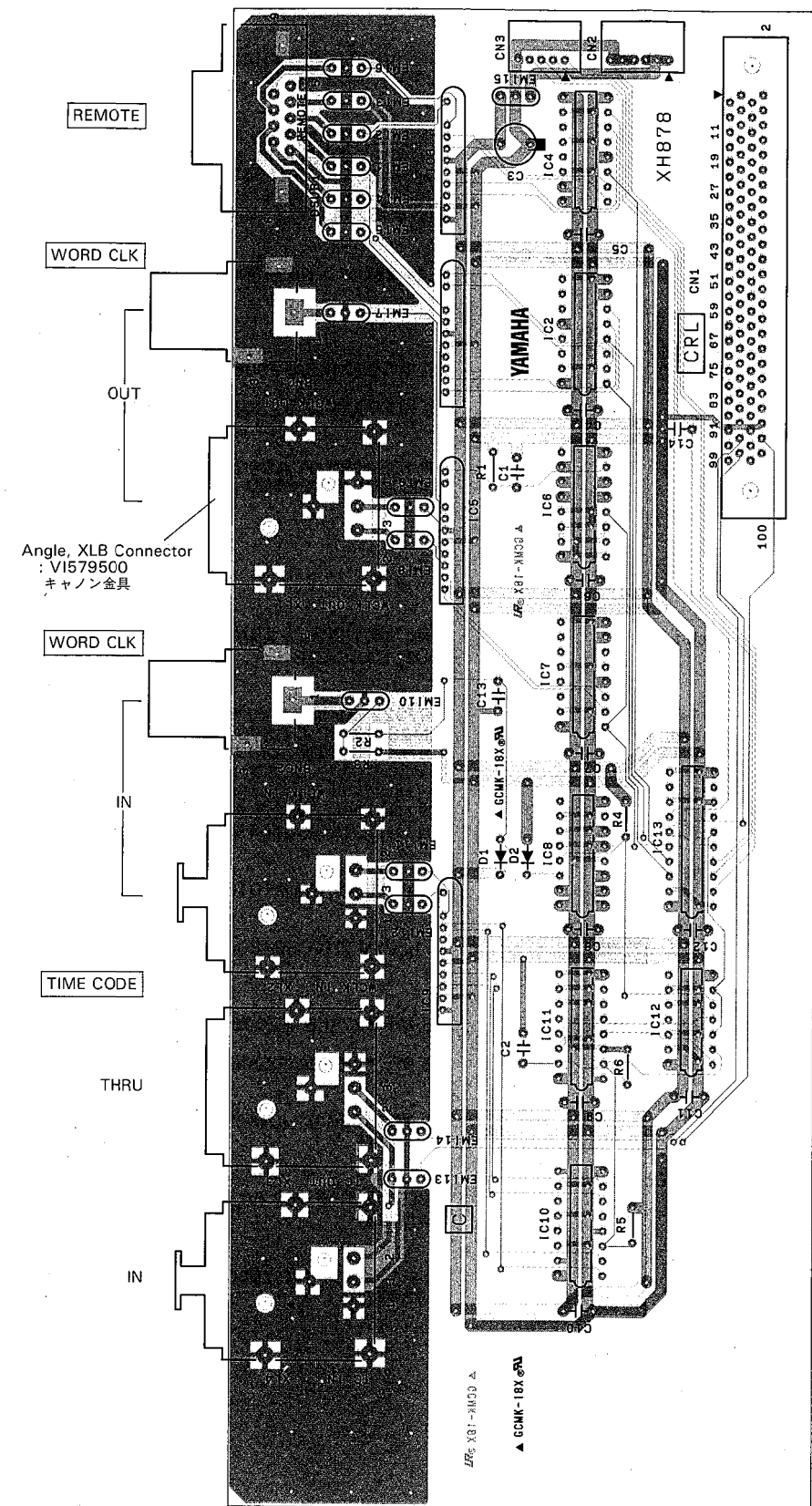
Notes)

- | | |
|---|--|
| Circuit Board: | CRJ (VK152900) XH874C0 = STEREO INSERT, AUX SEND |
| 1. IC | 897022 (XH596A00) RS422 OUT |
| IC 1, 5-7: | 897021 (XH595A00) RS422 IN |
| IC 2: | AM26LS31PC (XC570001) LINE DRIVER |
| IC 3, 8-10: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC 4: | SN74HC244 (IR024450) BUS-BUFFER |
| IC11: | |
| 2. Semiconductive Cera. Cap. | 0.1μ 25V Z (VC694800) |
| C 2-6, 8: | |
| 3. EMI Filter | LS MT B271KB (FZ006920) 270P |
| EMI 1, 3-5, 7, 9-11, 13, 15-17, 19, 21-23, 25, 27-29: | LS MT Y223NB (FZ006970) 22000P |
| EMI 2, 6, 8, 12, 14, 18, 20, 24, 26, 30, 31: | |
| 4. DIN Jack | 8P TCS4680-01 (LB605820) ST INSERT Y2 |
| DIN 1-5: | (OUT, IN), AUX SEND (1, 2, 3) |

Notes)

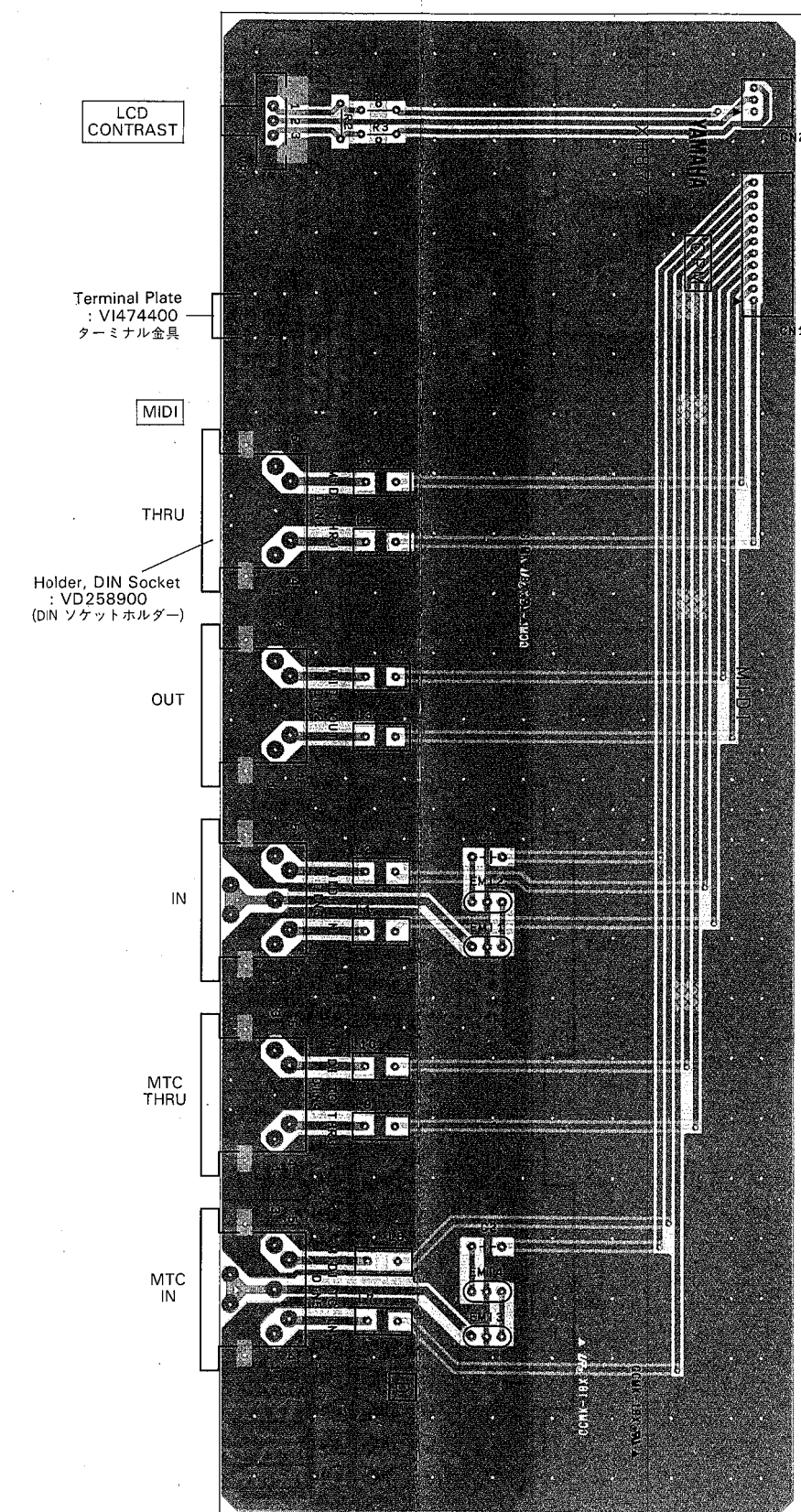
- | | |
|---------------------------------|---|
| Circuit Board: | CRK (VK153300) XH875D0 = C-R MONITOR OUT, CASCADE |
| 1. IC | 897022 (XH596A00) RS422 OUT |
| IC 1-5, 17, 18: | AM26LS31PC (XC570001) LINE DRIVER |
| IC 6-8, 19, 20: | 897021 (XH595A00) RS422 IN |
| IC 9-13: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC14-16: | SN74HC244 (IR024450) BUS-BUFFER |
| IC21-23: | SN74HC08N (IR000850) AND |
| IC24: | SN74HC04N (IR000450) INVERTER |
| IC25: | |
| 2. Transistor | 2SA1015 O, Y (IA101580) |
| Q 1-3: | |
| 3. Semiconductive Cera. Cap. | 0.1μ 25V Z (VC694800) |
| C 4-16, 27, 28: | |
| 4. EMI Filter | LS MT B271KB (FZ006920) 270P |
| EMI 1-23, 25-47, 49-52, 55, 56: | LS MT Y223NB (FZ006970) 22000P |
| EMI24, 48, 53, 54, 57: | |
| 5. DIN Jack | 8P TCS4680-01 (LB605820) C-R MONITOR |
| DIN 1: | OUT (Y2) |
| 6. D-SUB Connector | DBLC-J25SAF 25P (VL181700) CASCADE |
| DSUB 1, 2: | (OUT, IN) |
| 7. XLB Connector | XLB-3-32PCV (VI579600) C-R MONITOR OUT |
| XL 1: | (AES/EBU) |

● CRL Circuit Board



Components side (部品側)

● CRM Circuit Board



Components side (部品側)

Notes)

Circuit Board:

- | | |
|------------------------------|--|
| 1. IC | 897022 (XH596A00) RS422 OUT |
| IC 1, 5: | AM26LS31PC (XC570001) LINE DRIVER |
| IC 2, 7: | 897021 (XH595A00) RS422 IN |
| IC 3, 9: | AM26LS32PC (XC571001) LINE RECEIVER |
| IC 4, 10: | SN75121 (XE683A00) LINE DRIVER |
| IC 6: | SN75124N (XE737A00) LINE RECEIVER |
| IC 8: | TC74HC123AP (IR012300) SINGLE SHOT MV. |
| IC11: | SN74HC125N (IR012550) 3S-BUFFER |
| IC12: | SN74HC244 (IR024450) BUS-BUFFER |
| IC13: | |
| 2. Diode | |
| D 1, 2: | 1SS133 (IF003450) |
| 3. Semiconductive Cera. Cap. | |
| C 4-12: | 0.1 μ 25V Z (VC694800) |
| 4. EMI Filter | |
| EMI 1, 2, 5-14: | LS MT B271KB (FZ006920) 270P |
| EMI 3, 4, 15: | LS MT Y223NB (FZ006970) 22000P |
| 5. BNC Connector | |
| BNC 1, 2: | YKS11-0011 1P (VI552200) WORD CLK (IN, OUT) |
| 6. XLB Connector | |
| XL 1, 3: | XLB-3-32PCV (VI579600) WORD CLK OUT, TIME CODE THRU |
| XL 2, 4: | XLB-3-31PCV-M09 (VI443700) WORD CLK IN, TIME CODE IN |
| 7. D-SUB Connector | |
| DSUB 1: | DELCC-J9SAF 9P (VL184200) REMOTE |

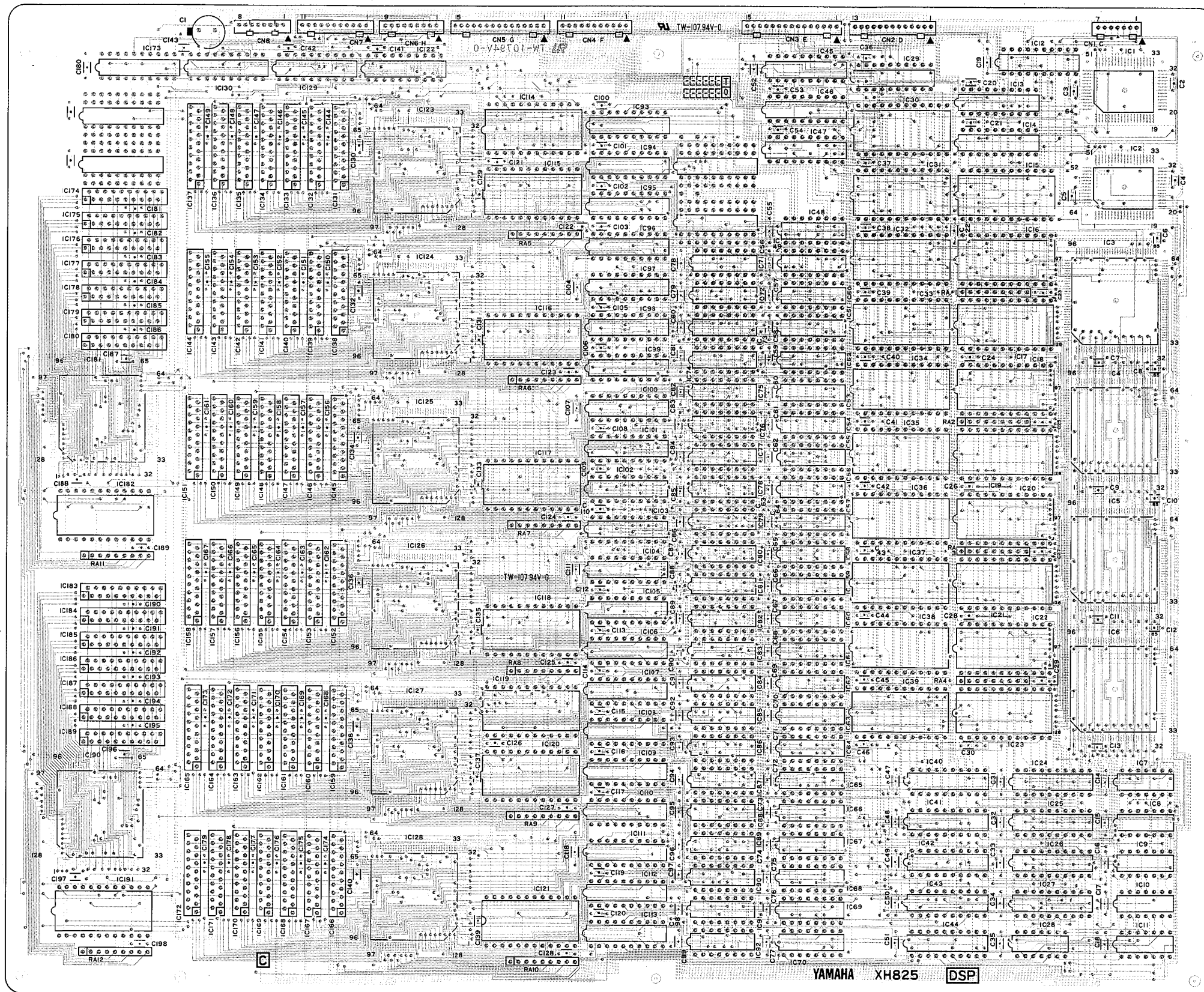
Notes)

Circuit Board:

- | | |
|------------------------------|---|
| | CRM (VK153500) XH877D0=LCD CONTRAST, MIDI |
| 1. Variable Resistor | |
| VR 1: | B100K EVU-E2A (VK297800) LCD CONTRAST |
| 2. Semiconductive Cera. Cap. | |
| C 1, 2: | 0.1 μ 25V Z (VE659000) |
| 3. Coil | |
| L 1-10: | FL5R200QN 20 μ (VB971100) |
| 4. EMI Filter | |
| EMI 1-4: | LS MT Y223NB (FZ005920) 22000P |
| 5. DIN Jack | |
| DIN 1-5: | 5P TCS4650-01 (LB500590) MIDI (THRU, OUT, IN), MTC (THRU, IN) |



● DSP Circuit Board

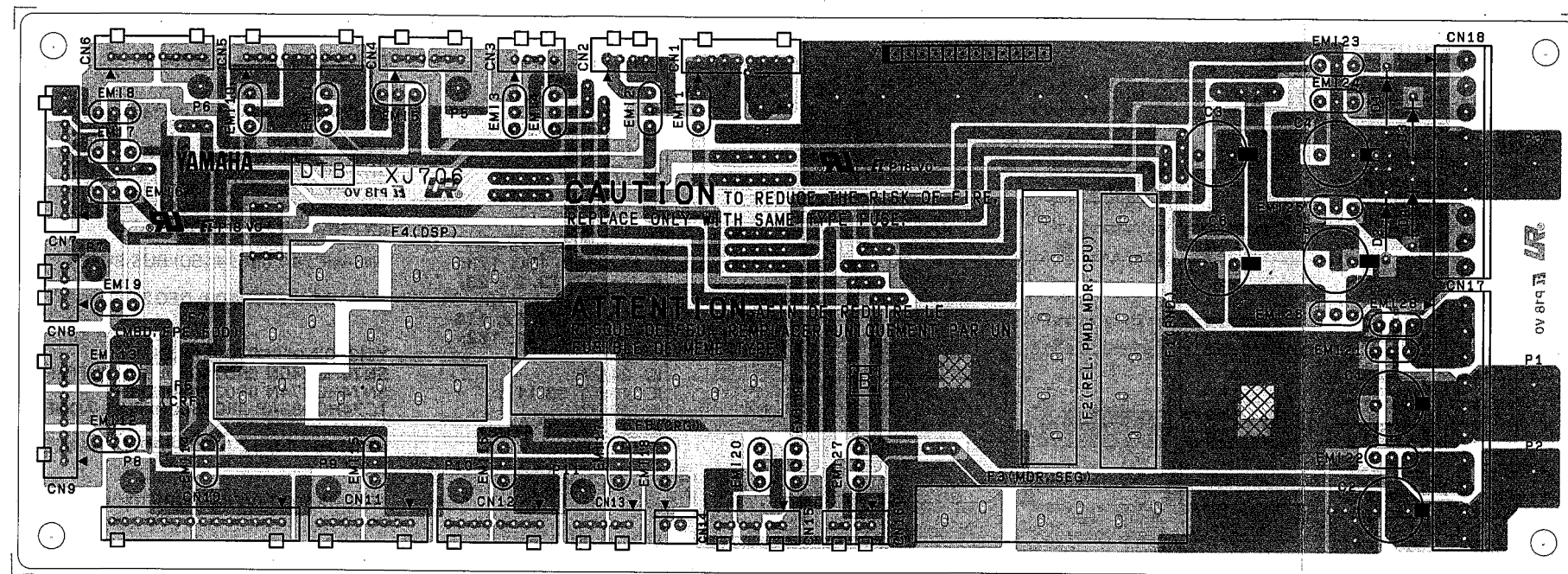


Notes)

- | | |
|---|------------------------------------|
| Circuit Board: | DSP (VK151300) XH825C0 |
| 1. IC | |
| IC 1, 2: | YM6067 (XH494A00) PSC4 |
| IC 3-6, 123-128, 181, 190: | YM6007 (XF164A00) DSP2 |
| IC 7: | SN74HC32N (IR003250) OR |
| IC 8: | SN74HC08N (IR000850) AND |
| IC 9, 11: | SN74HC04N (IR000450) INVERTER |
| IC 10, 28: | SN74HC30N (IR003050) NAND |
| IC 12-14, 29, 45-47, 122, 129, 130, 173: | SN74HC244 (IR024450) BUS-BUFER |
| IC 15, 17, 19, 21, 23, 30-39, 114, 119: | YM6104 (XE788A00) DEQ2 |
| IC 16, 18, 20, 22, 115-118, 120, 121, 182, 191: | YM3807 (IT380700) MOD |
| IC 24-27: | SN74HC240N (IR024050) BUS-BUFFER |
| IC 40-44, 93-113: | SN74HC374N (IR037450) D-FF |
| IC 48-92: | TC74HC283AP (IR028300) FULL-ADDER |
| IC131-172, 174-180, 183-189: | MB81464-12PSZ (XD265A00) DRAM 256K |
| 2. Resistor Array | |
| RA 1-12: | RGLD8X103J (VE445200) 10K x 4 |
| 3. Electrolytic Cap. | |
| C 1: | 470 μ 10V (UJ828470) |
| 4. Chip Cera. Cap. | |
| C 2-198: | F 0.01 μ 50V Z (UB044100) |

Components side (部品側)

●DTB Circuit Board

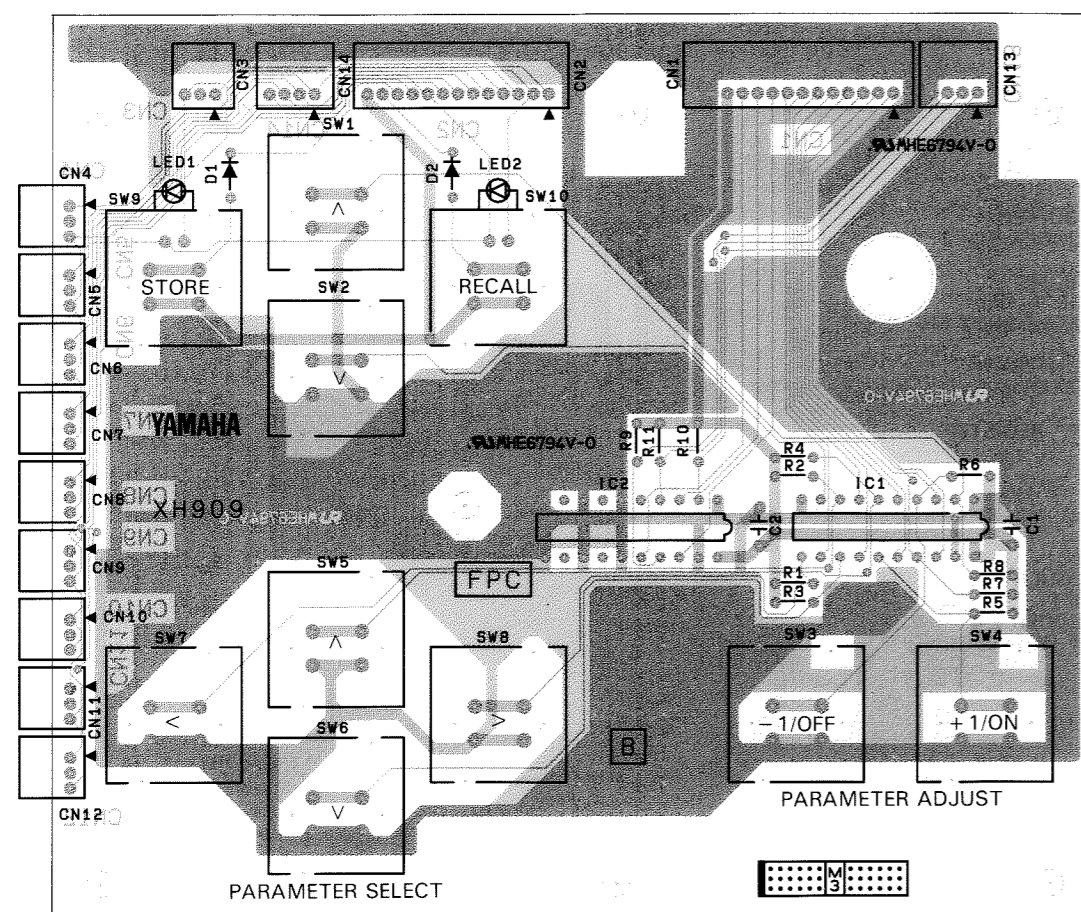


Components side (部品側)

Notes)

- | | |
|--------------------------------|--|
| Circuit Board : | DTB (VL686700) J XJ706B0
DTB (VL686900) U, C XJ706B0
DTB (VL687100) H, B XJ706B0 |
| 1. Diode
D 1-4: | 11ES4 (VB482000) |
| 2. Electrolytic Cap.
C 1-6: | 470 μ 25V (UJ748470) |
| 3. EMI Filter
EMI 1-27: | LS MT Y223NB (FZ005920) 22000P |
| 4. Fuse
F 1-3, 5-7: | T 4.00A J 250V (KB000380) J
T 3.15A U 250V (VB245200) U, C
T 3.15A S 250V (KB000760) H, B
T 5.00A J 250V (KB000400) J
T 5.00A U 250V (VB002590) U, C
T 5.00A S 250V (KB000780) H, B |
| F 4: | |
| 5. Fuse Holder
F 1-7: | PC-FH1 (LB201530) |

● FPC Circuit Board



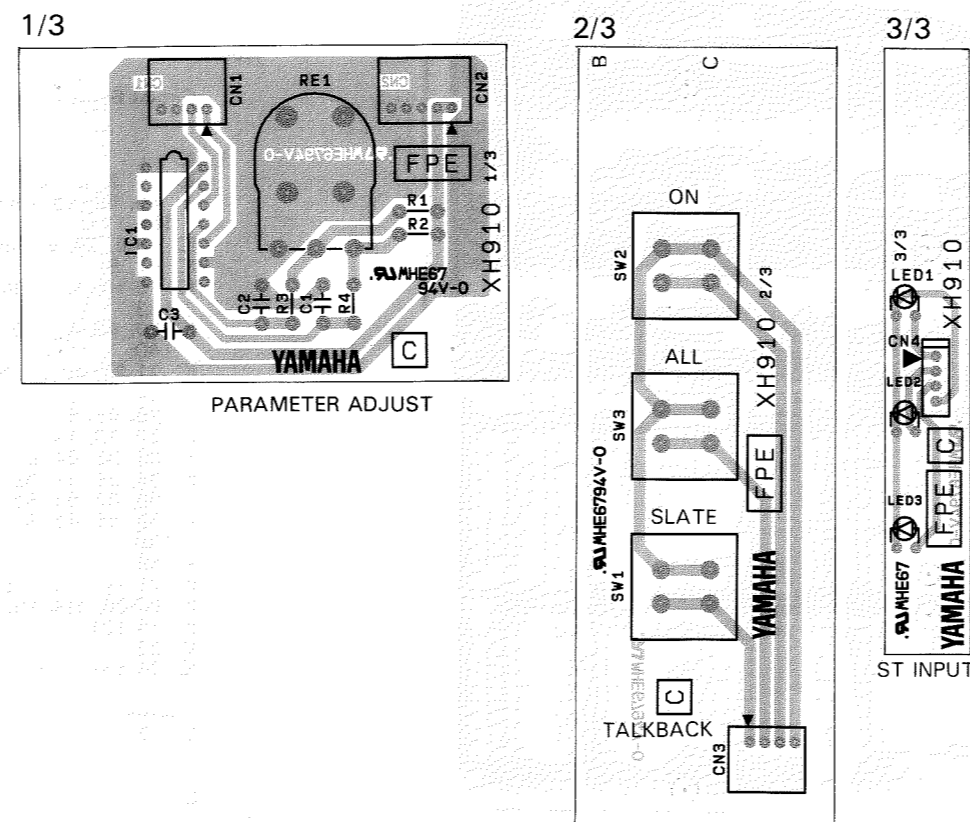
Components side (部品側)

Notes)

Circuit Board:	FPC (VK154400) XH909B0
1. IC IC 1, 2:	SN74HC244 (IR024450) BUS-BUFFER
2. Diode D 1, 2:	1SS133 (IF003450)
3. LED LED 1, 2:	LN242RP RE (VA262300) STORE, RECALL
4. Semiconductive Cera. Cap. C 1, 2:	0.1 μ 25V Z (VE659000)
5. Push Switch SW 1-10:	SKHHA (KA907030) MEMORY, PARAMETER SELECT, PARAMETER ADJUST

FPC: 3NA-VK15440
 FPE: 3NA-VK15450
 HP: 3NA-VK15370

● FPE Circuit Board

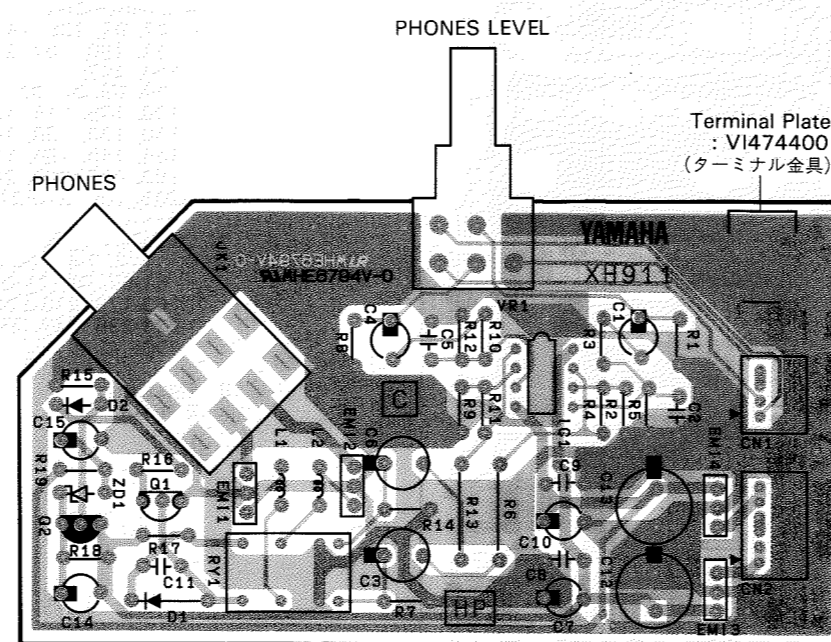


Components side (部品側)

Notes)

Circuit Board:	FPE1/3 (NX810190) XH910C0 FPE2/3 (NX810200) XH910C0 FPE3/3 (NX810210) XH910C0
1. IC IC 1:	SN74HC14N (IR001450) INVERTER
2. LED LED 1-3:	LN221RP RE (IF003170) A, B, C
3. Ceramic Cap. C 1, 2:	1500P 50V K (FG413150)
4. Semiconductive Cera. Cap. C 3:	0.1 μ 25V Z (VE659000)
5. Push Switch SW 1-3:	SKHQAC (VK700800) TALK BACK (ON, ALL, SLATE)
6. Rotary Encoder RE 1:	EC16B40B (VL236800)

● HP Circuit Board



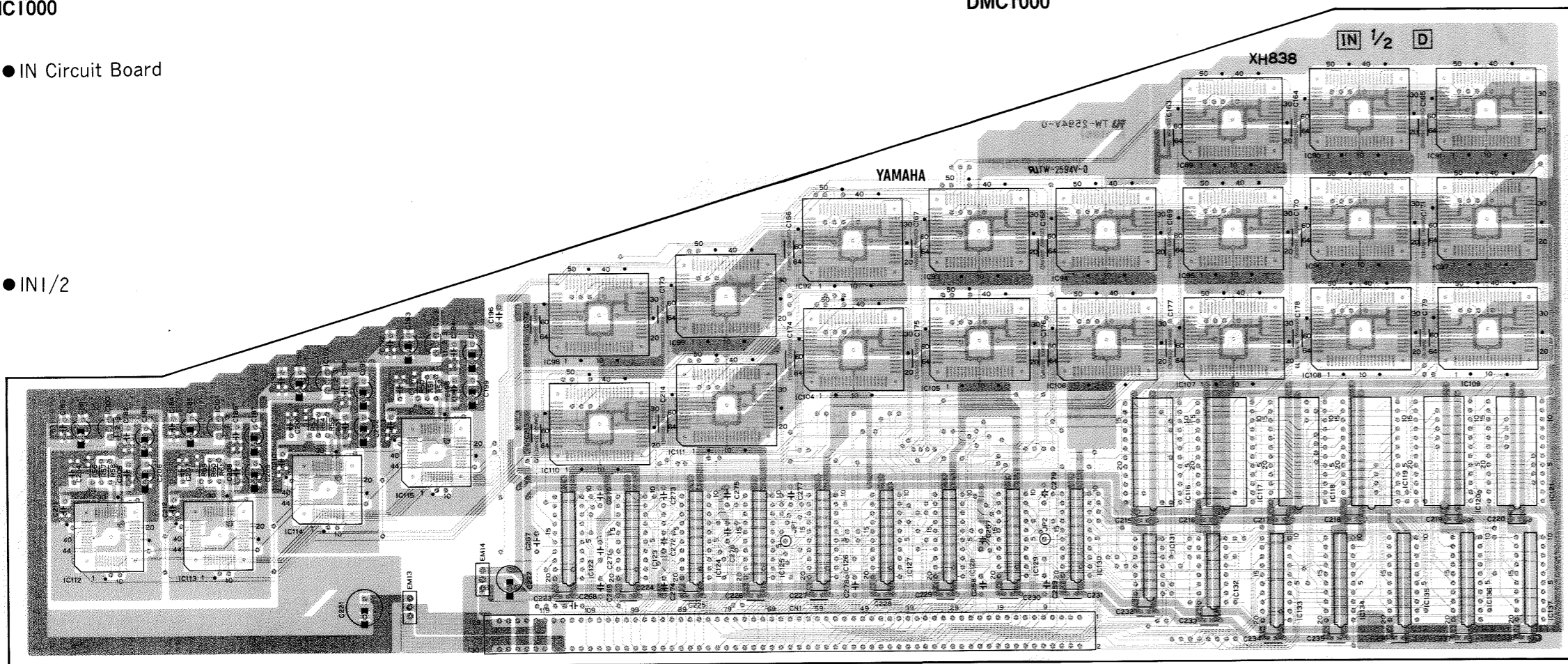
Components side (部品側)

Notes)

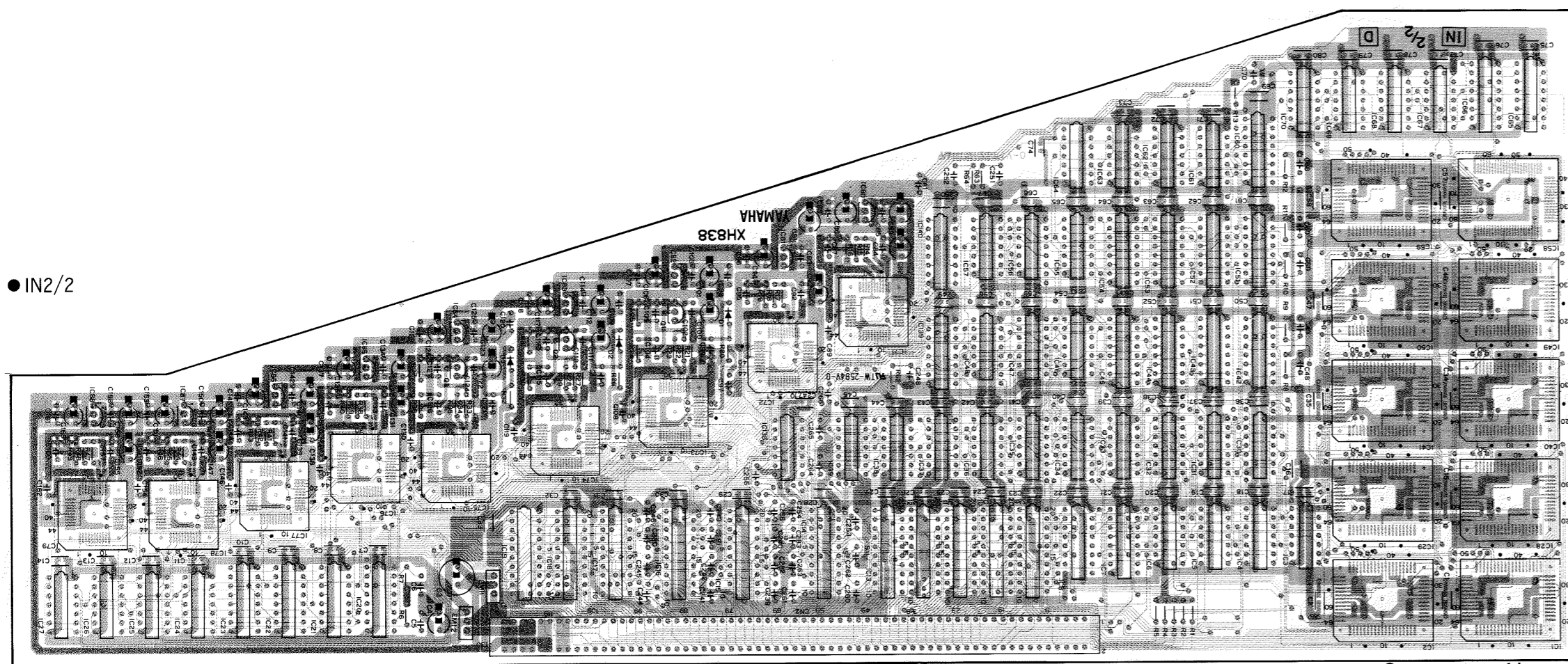
Circuit Board:	HP (VK153700) XH911C0
1. IC IC 1:	NJM4556DD (XE803A00) OP AMP.
2. Transistor Q 1: Q 2:	2SC1815 GR (IC181530) 2SA1015 GR (IA101530)
3. Diode D 1: D 2:	1S1885 (IH000240) 1SS133 (IF003450)
4. Zener Diode ZD 1:	RD27EB3 27V (IF005660)
5. Metal Oxide Film Resistor R 6, 13:	150 Ω 1W J (VC731800)
6. Variable Resistor VR 1:	RK16312A (VK963800) A10K \times 2 PHONES LEVEL
7. Semiconductive Cera. Cap. C 8, 9, 11:	0.1 μ 25V Z (VE659000)
8. Coil L 1, 2:	FL5R200QN 20 μ (VB971100)
9. EMI Filter EMI 1-4:	LS MT Y223NB (FZ005920) 22000P
10. Phone Jack JK 1:	STEREO HLJ0259 (LB301080) PHONES
11. Relay RY 1:	DC AG 8023 (VD613500)

● IN Circuit Board

● IN1/2



● IN2/2



Components side (部品側)

Notes

Circuit Board:

1. IC
IC 1, 2, 28, 29, 40, 41,
49, 50, 59, 89-99,
104-111:
IC 3-6, 24, 25, 30-32:
IC 7, 8:
IC 9-19, 122-130,
133:
IC 20, 42, 51, 60, 139,
140:
IC 21-23, 43-45, 52-
54, 65, 66:
IC 26, 47, 61:
IC 27, 70, 131:
IC 33, 36, 64, 67:
IC 34, 35, 37, 38, 55,
56, 62, 63, 68:
IC 39, 46, 48, 57, 69,
138:
IC 58:
IC 71-79, 112-115:
IC 80-88, 100-103:
IC 116-121:
IC 132:
IC 134-137:

2. Transistor
Q 1-3:

3. Diode
D 1-3:

4. Electrolytic Cap.
C 3, 221:

5. Semiconductive Cera. Cap.
C 81, 85, 88, 93, 96,
103, 107, 114, 118,
125, 129, 134, 137,
142, 145, 150, 153,
158, 161, 180, 182,
184, 186, 188, 190,
192, 194, 196:

6. Monolithic Cera. Cap.
C 87, 95, 136, 144,
152, 160, 197, 200,
204, 207:
C 84, 89, 92, 97, 98,
108, 109, 119, 120,
130, 133, 138, 141,
146, 149, 154, 157,
162, 198, 201, 203,
205, 208, 210-212:

7. Chip Cera. Cap.
C 1, 2, 7-47, 50-58,
61-67, 69, 71-80,
163-179, 213-220,
223-238, 247, 249,
250:

8. EMI Filter
EMI 1-4:

IN1/2 (VK707700) XH838D0
IN2/2 (VK707800) XH838D0

YM6067 (XH494A00) PSC4
SN74HC125N (IR012550) 3S-BUFFER
SN74HC138N (IR013850) DECODER 3-8

SN74HC244 (IR024450) BUS-BUFF

TC74HC123AP (IR012300) SINGLE SHOT MV

SN74HC163N (IR016350) COUNTER
SN74HC04N (IR000450) INVERTER
SN74HC32N (IR003250) OR
SN74HC164N (IR016450) SHIFT REGISTER

SN74HC74N (IR007450) D-FF

SN74HC08N (IR000850) AND
YM6035 (XE800A00) PSC2
YM3436BG (XG948C00) DIR2
AN78L05 (IG157200) +5V REGULATOR
YMAB04 (XH888A00) BIT SHIFT
SN74HC139N (IR013950) DECODER 2-4
SN74HC273N (IR027350) D-FF OCTAL

2SC1815 Y, GR (IC181580)

1SS133 (IF003450)

470 μ 16V (UJ838470)

0.1 μ 16V M (FZ004100)

0.22 μ 50V Z (VJ786300)

1.5 μ 25V Z (VD534400)

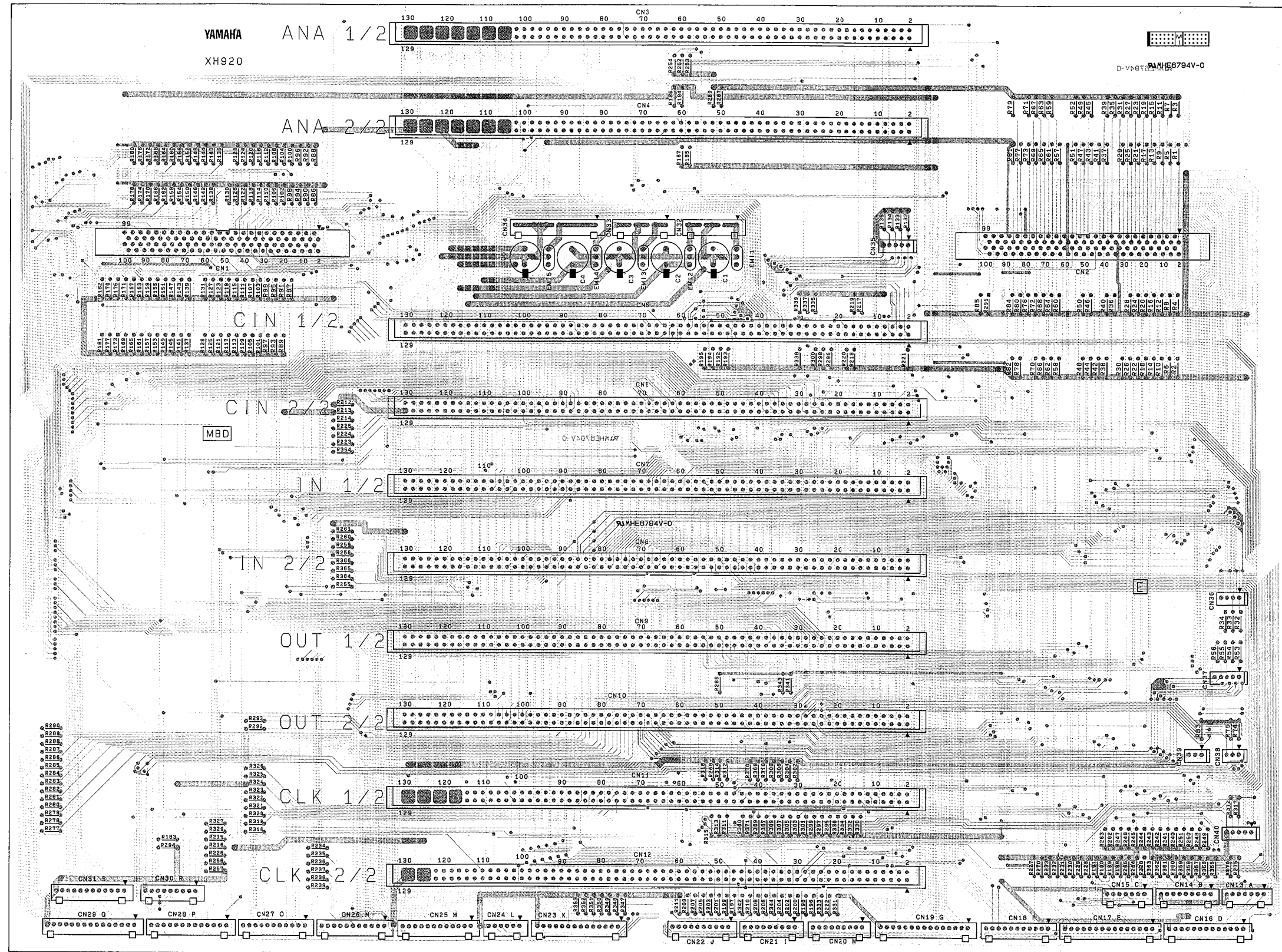
F 0.1 μ 25V Z (VJ798800)

LS MT Y223NB (FZ006970) 22000P

● MBD Circuit Board

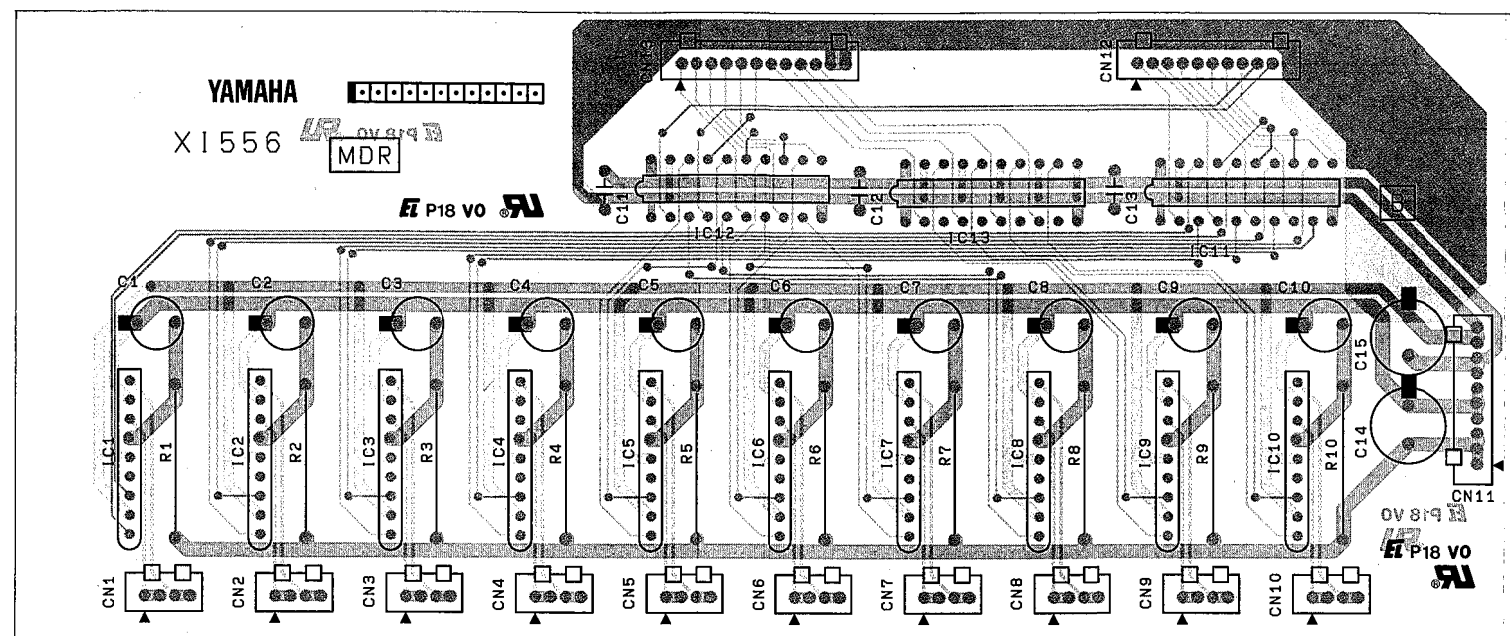
Notes)

- | | |
|--------------------------------|--------------------------------|
| Circuit Board: | MBD (VK15380) XH920D0 |
| 1. Electrolytic Cap.
C 1-5: | 470 μ 25V (UJ748470) |
| 2. EMI Filter
EMI 1-5: | LS MT Y223NB (FZ005920) 22000P |



Components side (部品側)

● MDR Circuit Board

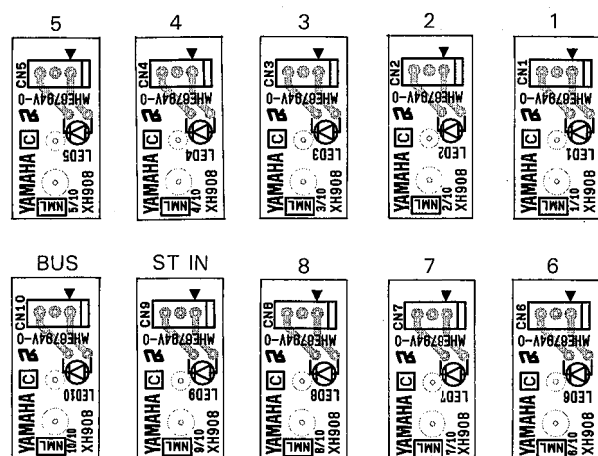


Components side (部品側)

Notes)

- | | |
|------------------------------|---------------------------------|
| Circuit Board: | MDR (VK244600) X1556B0 |
| 1. IC | |
| IC 1-10: | BA6218 (IG153500) MOTOR DRIVER |
| IC 11-13: | SN74HC244 (IR024450) BUS-BUFFER |
| 2. Metal Oxide Film Resistor | |
| R 1-10: | 10Ω 3W J (VL099900) |
| 3. Electrolytic Cap. | |
| C 14: | 470μ 10V (UJ728470) |
| C 15: | 330μ 35V (UJ758330) |
| 4. Semiconductive Cera. Cap. | |
| C 11-13: | 0.1μ 25V Z (VC694800) |

● NML Circuit Board



Components side (部品側)

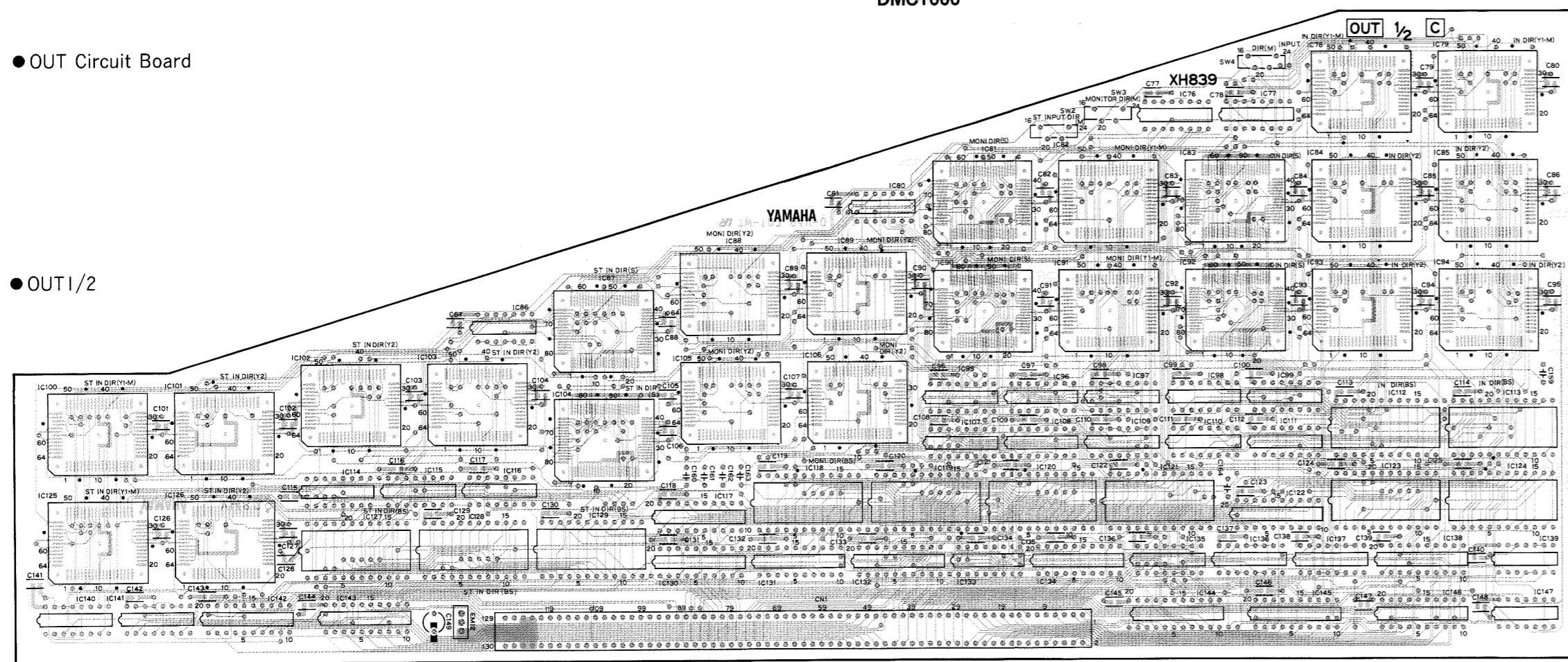
Notes)

- | | |
|----------------|---------------------------------------|
| Circuit Board: | NML (NX810180) XH908C0 |
| 1. LED | |
| LED 1-10: | LN221RP RE (IF003170) FADER indicator |

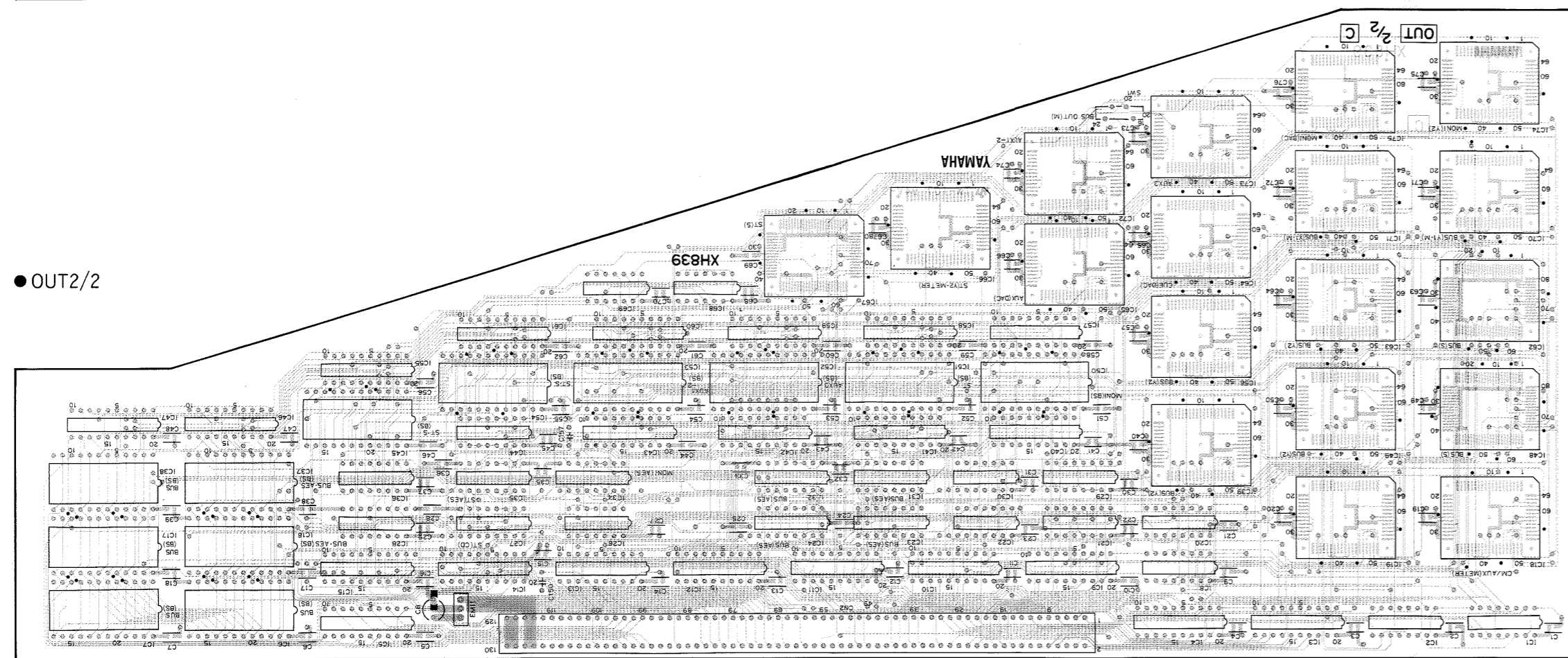


● OUT Circuit Board

● OUT1/2



● OUT2/2



Components side (部品側)

Notes)

Circuit Board:

- 1. IC
- IC 1, 2, 8, 20, 44, 95, 96, 98, 99, 107, 108, 110, 111, 114-116, 135-137:
- IC 3-5, 9-15, 130, 132, 134, 138, 142-146:
- IC 6, 7, 16, 17, 37, 38, 45, 50-54, 112, 113, 118-121, 123, 124, 127-129:
- IC 18, 19, 39, 49, 56, 63-66, 70-75, 78, 79, 82, 84, 85, 88, 89, 91, 93, 94, 100-103, 105, 106, 125, 126:
- IC 21, 29, 76, 77, 97, 109, 140, 141:
- IC 22, 69, 147:
- IC 23, 24, 27, 31, 32, 34, 35:
- IC 26:
- IC 28, 36:
- IC 30, 80, 86:
- IC 40-43, 46, 47, 55, 57-61, 117, 122, 131:
- IC 48, 62, 67, 81, 83, 87, 90, 92, 104:
- IC 68:
- IC133:
- IC139:

- 2. EMI Filter
- EMI 1, 2:

- 3. Slide Switch
- SW 1-4:

- 4. Chip Cera. Cap.
- C 1-7, 9-25, 27-33, 35-148:

OUT1/2 (VK707900) XH839C0
OUT2/2 (VK708000) XH839C0

SN74HC153N (IR015350) 4-1 SELECTOR

SN74HC244 (IR024450) BUS-BUFFER

YMAB04 (XH888A00) BIT SHIFT

YM6067 (XH494A00) PSC4

SN74HC157N (IR015750) DATA-SELECTOR
SN74HC04N (IR000450) INVERTER

YM3437 (XG949A00) DIT2
SN74HC125N (IR012550) 3S-BUFFER
SN74HC138N (IR013850) DECODER 3-8
SN74HC08N (IR000850) AND

SN74HC273N (IR027350) D-FF OCTAL

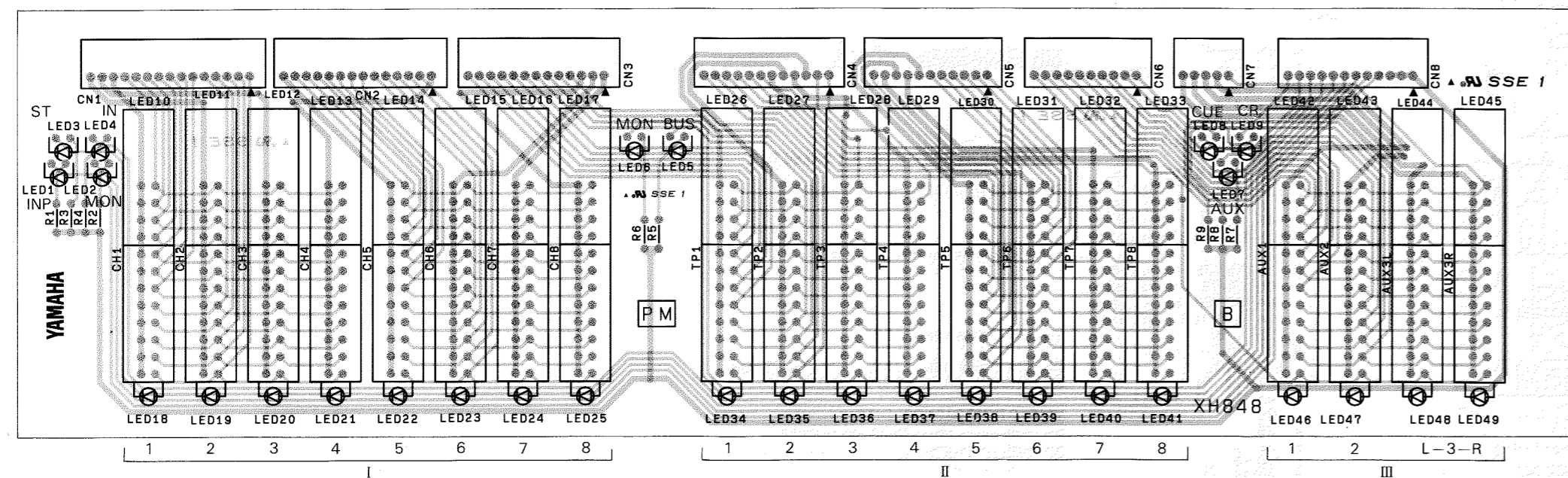
YM6035 (XE800A00) PSC2
SN74HC74N (IR007450) D-FF
SN74HC139N (IR013950) DECODER 2-4
SN74HC32N (IR003250) OR

LS MT Y223NB (FZ006970) 22000P

SSSS213 (VK500200) BUS OUT(M),
INPUT(ST/DIR), TAPE D(M), CHANNEL DIR(M)

F 0.01μ 50V Z (UB044100)

● PM Circuit Board

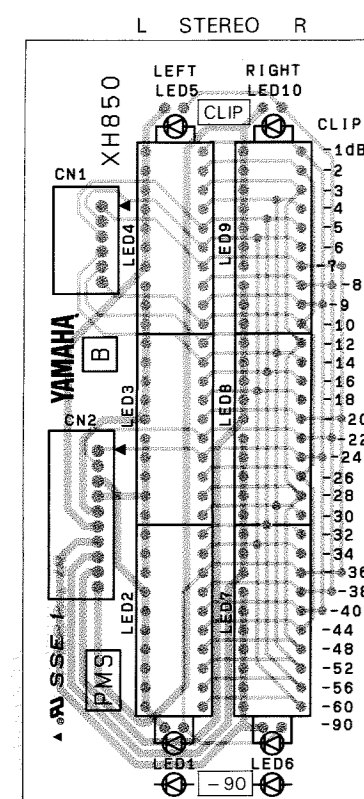


Components side (部品側)

Notes)

- | | |
|--------------------------|--|
| Circuit Board: | PM (VK154000) XH848B0 |
| 1. LED | LD-201VR (IF009570) INP, MON, ST, IN, BUS, MON, AUX, CUE, CR |
| LED 1-9: | |
| 2. LED Display | SX-25-S (VF521500) High level indicator |
| LED 10-17, 26-33, 42-45: | SX-25AF (VJ155200) Low level indicator |
| LED 18-25, 34-41, 46-49: | |
| 3. LED Spacer | LD-201 (VK423500) |

● PMS Circuit Board



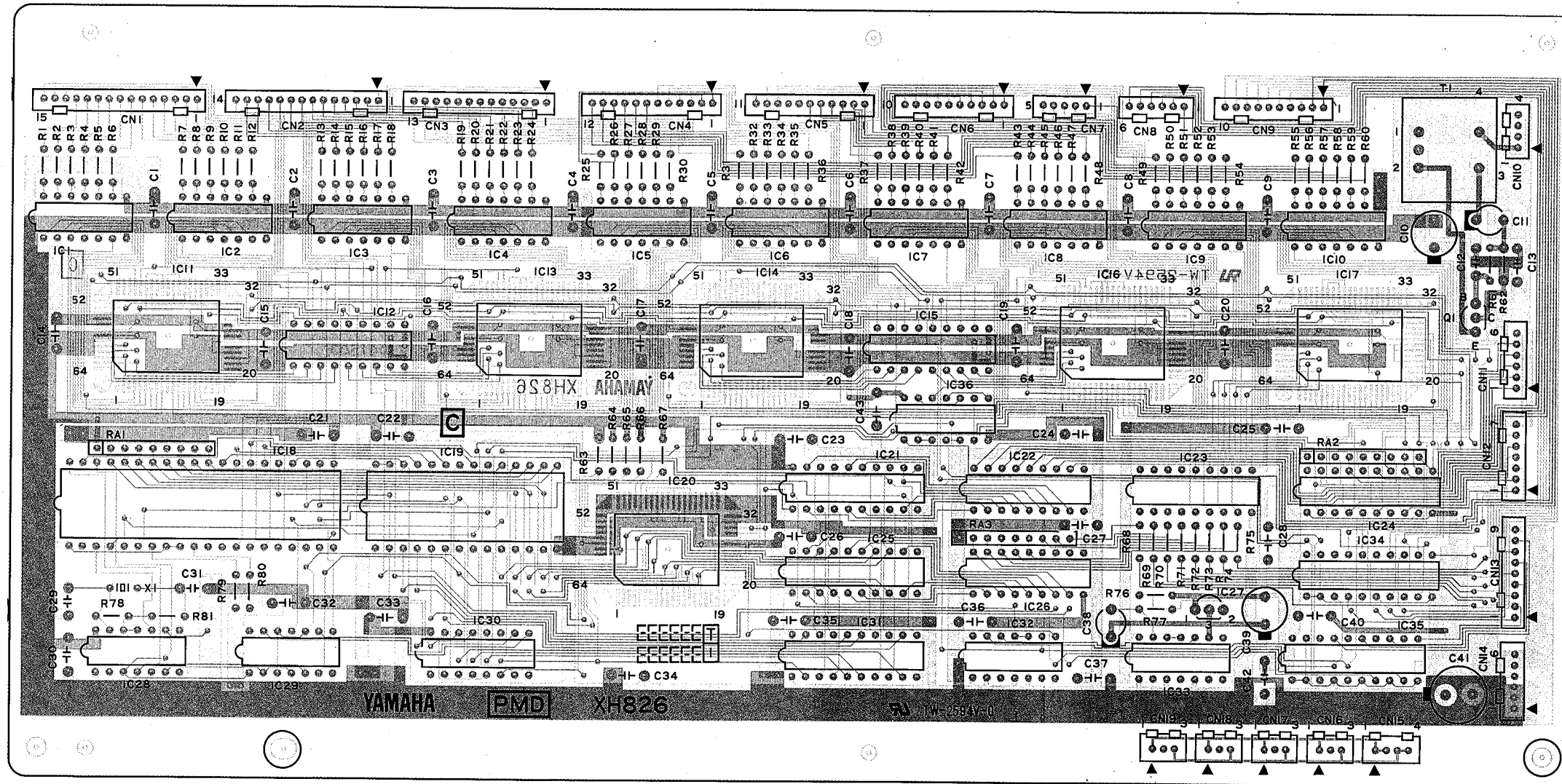
Components side (部品側)

Notes)

- | | |
|--------------------------------|-------------------------------------|
| Circuit Board: | PMS (VK154200) XH850B0 |
| 1. LED | LD101MG GR (IF007690) - 90dB |
| LED 1, 6: | |
| LED 5, 10: | LD-101VR RE (IF004940) CLIP |
| 2. LED Level Meter (L STREO R) | |
| LED 2, 7: | SLA-2651 10P (VK272300) GR |
| LED 3, 8: | SLA5651-14 (VK272500) YE(6) + GR(4) |
| LED 4, 9: | SLA-4651 10P (VK272400) YE |



●PMD Circuit Board



Components side (部品側)

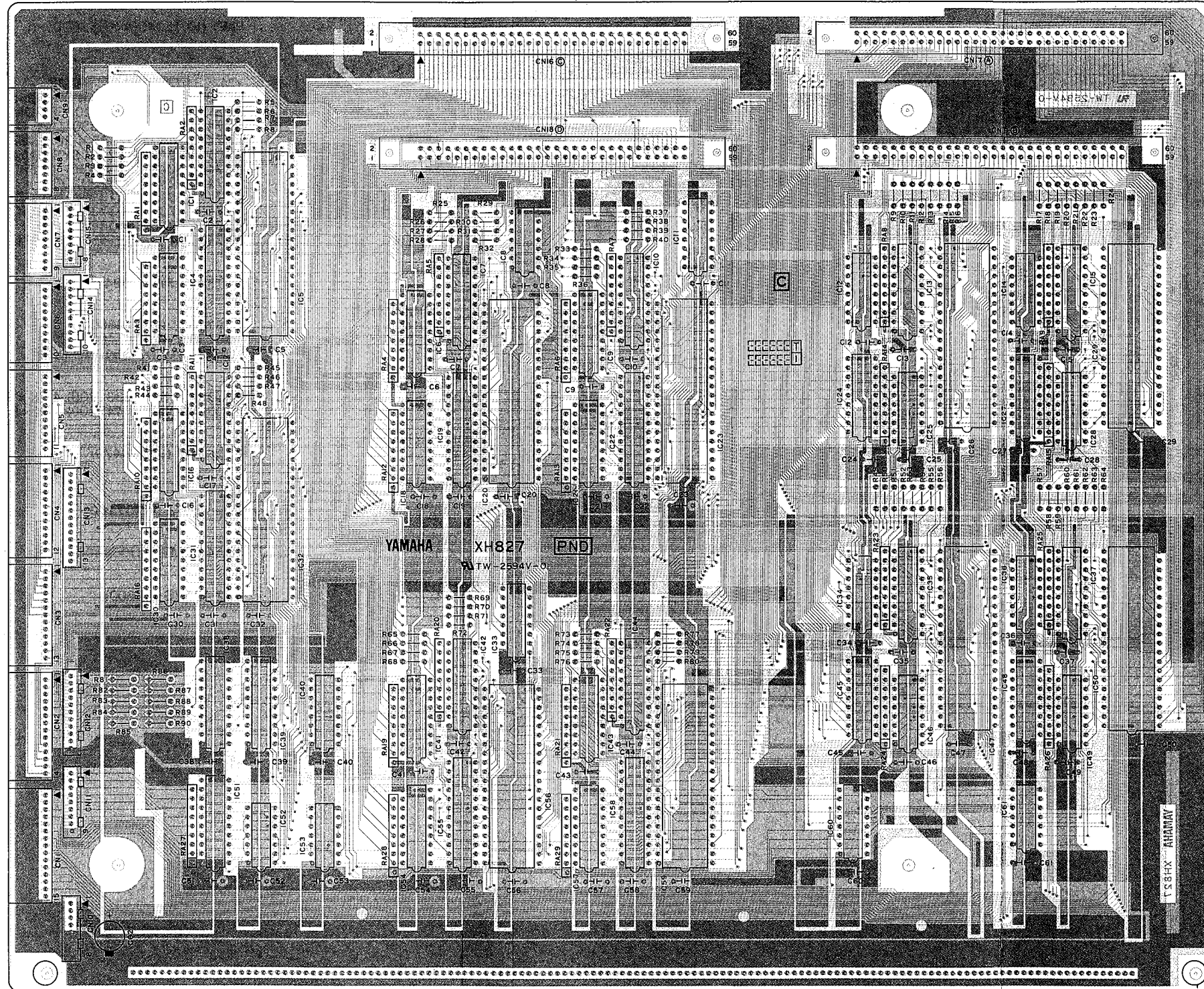
Notes)

Circuit Board:

PMD (VK151400) XH826C0

- | | |
|--|--|
| <p>1. IC
IC11, 13, 14, 16,
17, 20:
IC18:
IC19:
IC21, 25:
IC24, 34, 35:
IC27:
IC28:
IC29:
IC30:
IC31:
IC32:
IC33, 36:</p> <p>2. Transistor
Q 1:</p> <p>3. Transistor Array
IC 1-10:
IC12, 15, 23, 26:
IC22:</p> <p>4. Resistor Array
RA 1, 2:
RA 3:</p> <p>5. Electrolytic Cap.
C41:</p> <p>6. Monolithic Cera. Cap.
C 1-9, 13-28, 30,
32-37, 40, 42:</p> <p>7. Ceramic Resonator
X 1:</p> <p>8. DA Inverter Transformer
T 1:</p> | <p>YM3934 (XE798A00) PMM2
HD6303R1P (IG093500) CPU 8bit
MBM27C128 (X1561D00) EP ROM (METER)
SN74HC273N (IR027350) D-FF OCTAL
SN74HC244 (IR024450) BUS-BUFFER
PST518B-2 (IG116200) SYSTEM RESET
SN74HC04N (IG142250) INVERTER
SN74HC32N (IR003250) OR
SN74HC139N (IR013950) DECODER 2-4
SN74HC373N (IR037350) D-LATCH
SN74HC08N (IR000850) AND
SN74HC14N (IR001450) INVERTER</p> <p>2SC945A PA (IC094530)</p> <p>TD62703P (VF519600)
TD62381P (VJ041400)
TD62781AP (XC551001) DRIVE</p> <p>RGLD8X472J (VE331200) 4.7K x 8
RGLD8X103J (VE445200) 10K x 8</p> <p>470μ 10V (UJ828470)</p> <p>0.1μ 50V Z (VI307100)</p> <p>CSA4.00MT (QU004800) 4MHz</p> <p>D32-49 (VG582600)</p> |
|--|--|

● PND Circuit Board



Components side (部品側)

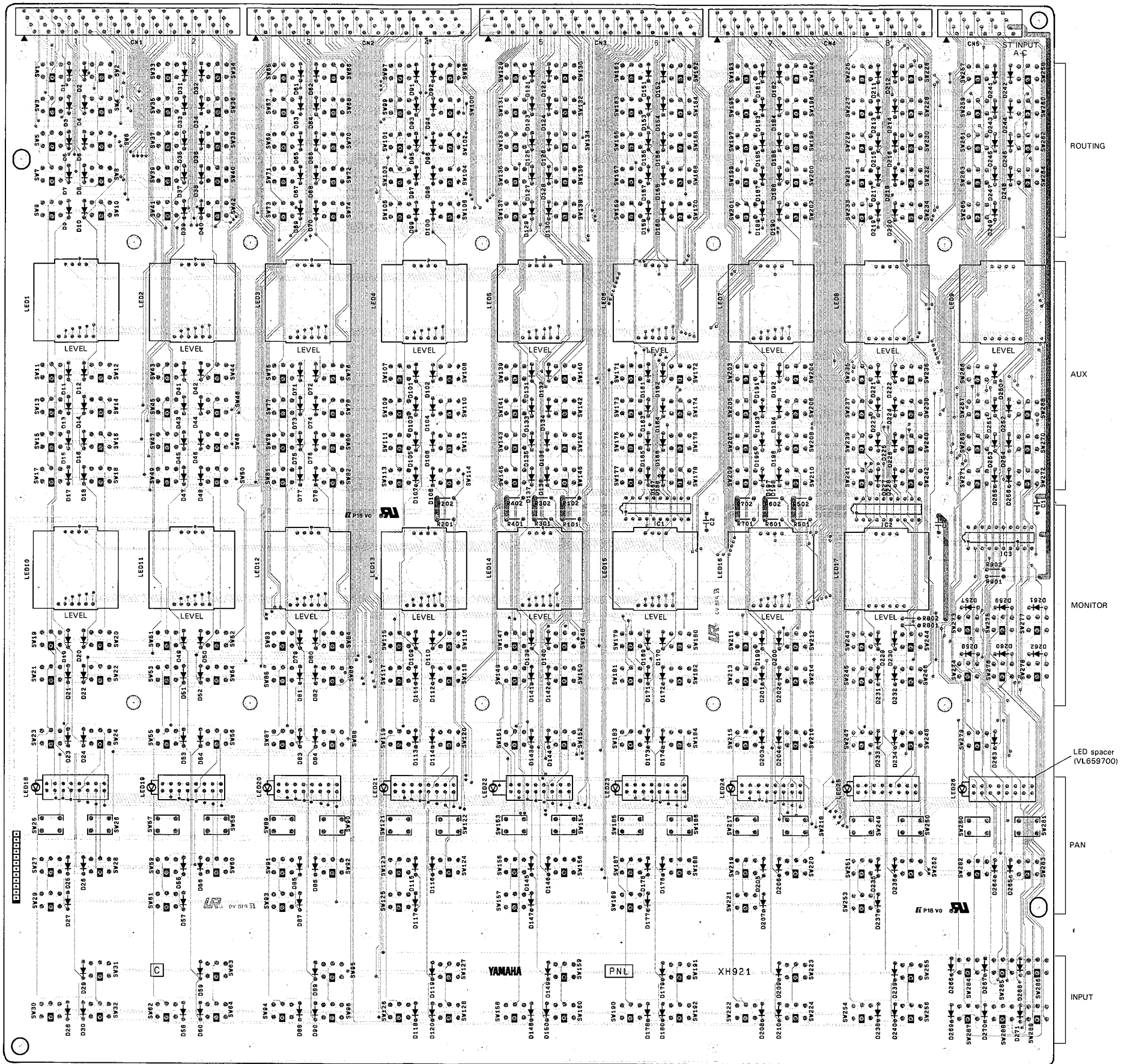
Notes)

Circuit Board:

PND (VK151500) XH827C0

1. IC
 IC 2, 7, 10, 13, 15, 17, 35, 37, 42, 44: HD74LS240P (IG044500) BUFFER
 IC 4, 19, 22, 31, 55, 58: TC74HC154AP (IR015400) DECODER
 IC 5, 20, 23, 26, 29, 32, 47, 50, 56, 59: μ PD8279C-2 (XC519001) CPU
 IC 8, 61: SN74HC04N (IR000450) INVERTER
 IC11, 12, 14, 25, 28, 33, 34, 36, 46, 49, 60: SN74HC138N (IR013850) DECODER 3-8
 SN74HC244 (IR024450) BUS-BUFFER
 SN74HC139N (IR013950) DECODER 2-4
 SN74HC245N (IR024550) TRANSCEIVER
 SN74HC14N (IR001450) INVERTER
 SN74HC08N (IR000850) AND
 IC38, 39:
 IC40:
 IC51:
 IC52:
 IC53:
2. Transistor Array
 IC 1, 3, 6, 9, 16, 18, 21, 24, 27, 30, 41, 43, 45, 48, 54, 57: TD62786AP (VJ041500)
3. Resistor Array
 RA 1-16, 19-29: RGLD8X472J (VE331200) 4.7K \times 8
4. Electrolytic Cap.
 C 62: 470 μ 10V (UJ828470)
5. Monolithic Cera. Cap.
 C 1-61: 0.1 μ 50V Z (VI307100)

● PNL Circuit Board

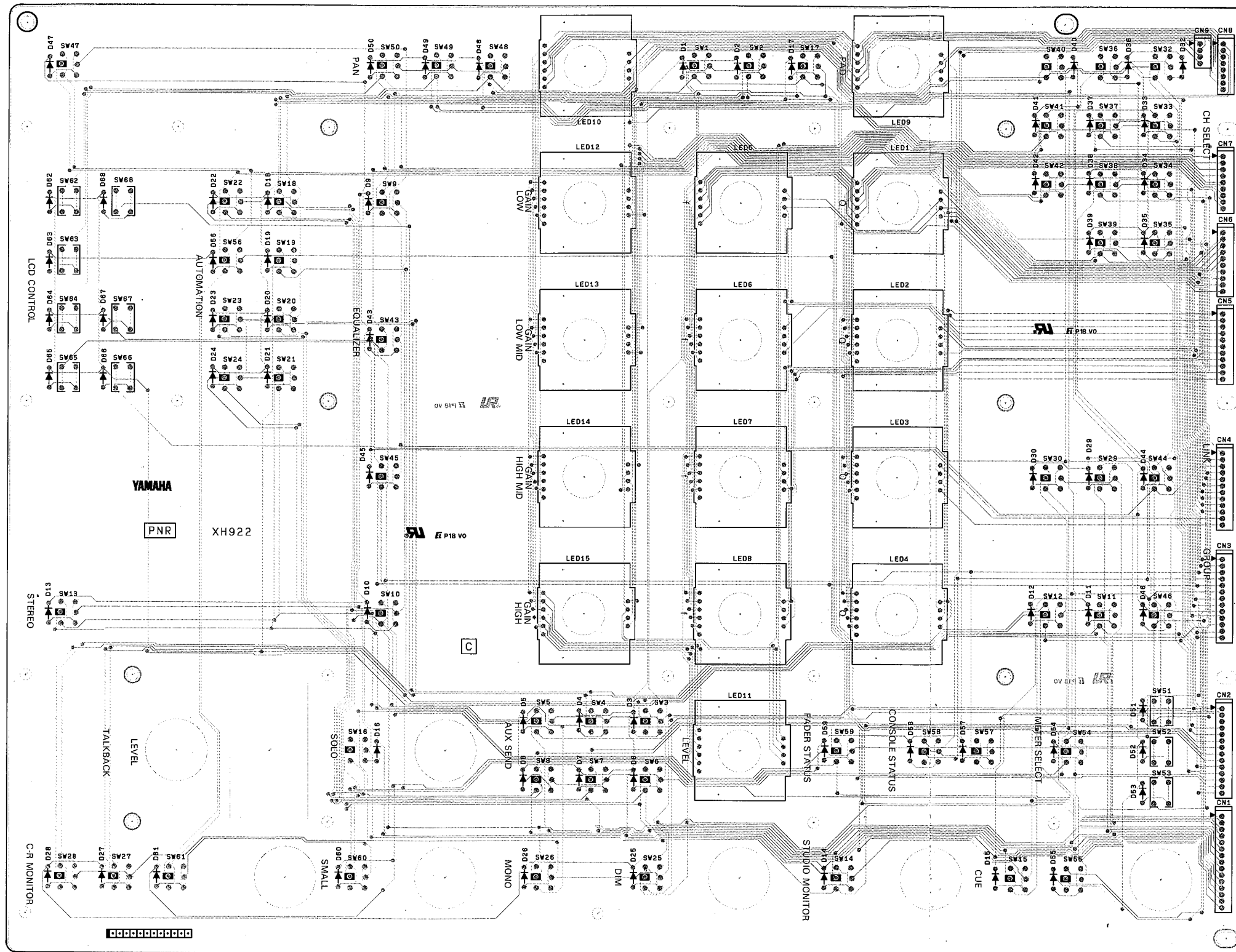


Components side (部品側)

Notes)

- | | |
|--|--|
| Circuit Board: | PNL (VK154600) XH921C0 |
| 1. IC
IC 1-3: | SN74HC244 (IRO24450) BUS-BUFFER |
| 2. Diode
D 1-271: | 1SS133 (IF003450) |
| 3. Monolithic Cera. Cap.
C 1-3: | 0.1 μ 50V Z (VI307100) |
| 4. Push Switch
SW 1-8, 14, 16, 18, 22, 23,
32-40, 46, 48, 50, 54,
55, 64-72, 78, 80, 82,
86, 87, 96-104, 110,
112, 114, 118, 119,
128-136, 142, 144, 146,
150, 151, 160-168, 174,
176, 178, 182, 183, 192,
200, 206, 208, 210, 214,
215, 224-232, 238, 240,
242, 246, 247, 256-264,
268, 270, 272, 273, 275,
277, 279, 284-286: | SKHQFN GR (VJ701100) |
| SW 9, 13, 15, 17, 20, 21,
30, 31, 41, 45, 47, 49,
52, 53, 62, 63, 73, 77,
79, 81, 84, 85, 94, 95,
105, 109, 111, 113, 116,
117, 126, 127, 137, 141,
143, 145, 148, 149, 158,
159, 169, 173, 175, 177,
180, 181, 190, 191, 201,
205, 207, 209, 212, 213,
222, 223, 233, 237, 239,
241, 244, 245, 254, 255,
265, 267, 269, 271, 274,
276, 278, 287-289: | KHQFH AMBER (VK700900) |
| SW 10-12, 19, 24, 27-29, 42-
44, 51, 56, 59-61, 74-76,
83, 88, 91-93, 106-108,
115, 120, 123-125, 138-
140, 147, 152, 155-157,
170-172, 179, 184, 187-
189, 202-204, 211, 216,
219-221, 234-236, 243,
248, 251-253, 266, 282,
283: | SKHQFM OR (VK701000) |
| SW 25, 26, 57, 58, 89, 90,
121, 122, 153, 154, 185,
186, 217, 218, 249, 250,
280, 281: | SKHQAC (VK700800) |
| 5. LED Display
LED 1-17: | 16P RE LT4143A (VK240500) LEVEL
(AUX SEND, MONITOR) |
| LED 18-26: | SX-25AE (VK251100) PAN Indicator |
| 6. LED Spacer
installed at LED 18-26: | 8 points (VL659700) |
| 7. Connector Assembly (These connector assemblies are not prepared as service parts.) | |
| CN1: | (VK27120) |
| CN2: | (VK27150) |
| CN3: | (VK27110) |
| CN4: | (VK27140) |
| CN5: | (VK29540) |

● PNR Circuit Board

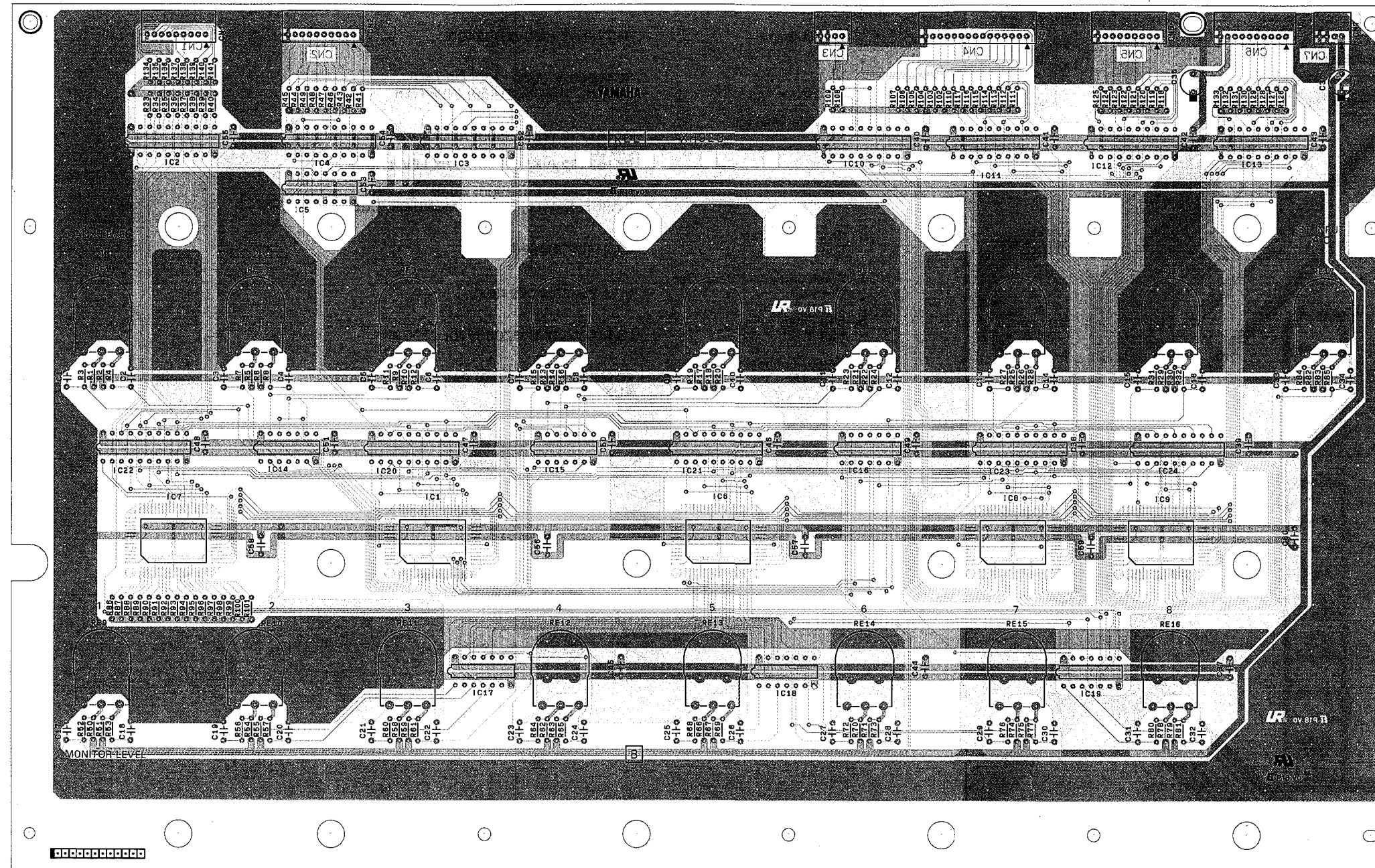


Components side (部品側)

Notes)

- | | |
|--|--|
| Circuit Board: | PNR (VK154700) XH922C0 |
| 1. Diode
D 1-30, 32-68: | 1SS133 (IF003450) |
| 2. Push Switch
SW 1, 2, 6-12, 18-21, 27,
29, 30, 32-42:
SW 3-5, 13-17, 22-26, 28:
SW43-50, 54-61:
SW51-53, 62-68: | SKHQFN GR (VK701100)
SKHQFH AMBER (VK700900)
SKHQFM OR (VK701000)
SKHQAC (VK700800) |
| 3. LED Display
LED 1-9, 11:
LED10, 12-15: | 16P RE LT4143A (VK240500) Q, f, PAD, AUX
SEND LEVEL
14RE2YE LT4143B (VK325900) PAN, EQ
GAIN |

●REL Circuit Board

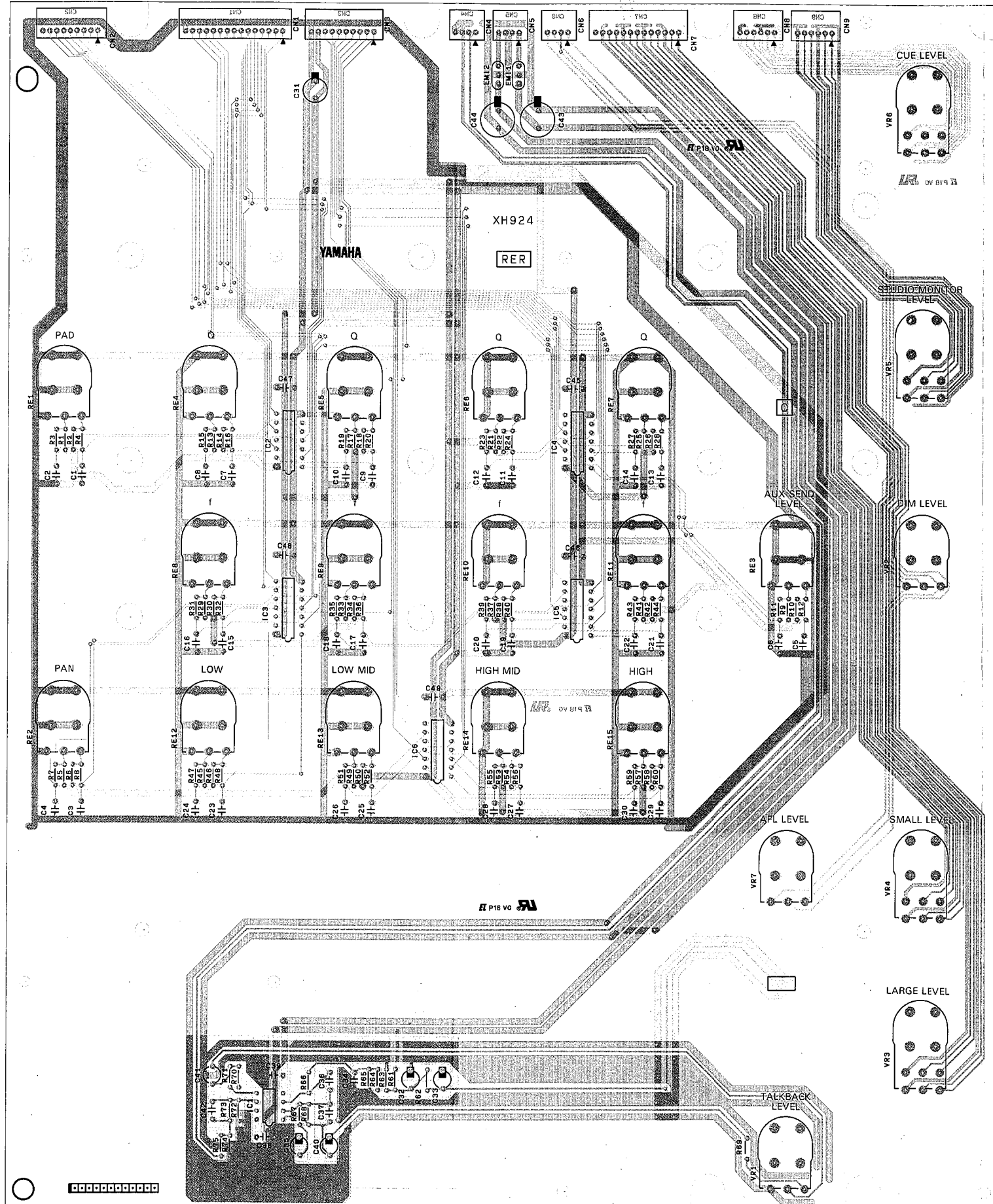


Components side (部品側)

Notes)

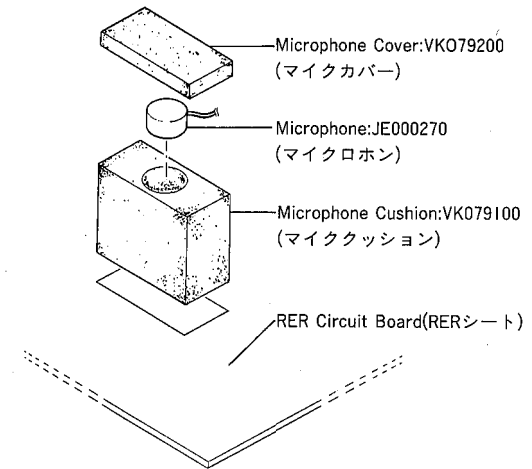
- | | |
|------------------------------|---|
| Circuit Board: | REL (VK154800) XH923B0 |
| 1. IC | |
| IC 1, 6-9: | YMAB03 (XH887A00) RE COUNTER |
| IC 2: | SN74HC245N (IR024550) TRANSCEIVER |
| IC 3, 4, 10-13, 20-24: | SN74HC244 (IR024450) BUS-BUFFER |
| IC 5: | SN74HC138N (IR013850) DECODER 3-8 |
| IC 14-19: | SN74HC14N (IR001450) INVERTER |
| 2. Electrolytic Cap. | |
| C 35, 36: | 470 μ 10V (UJ828470) |
| 3. Semiconductive Cera. Cap. | |
| C 37-60: | 0.1 μ 25V Z (VC694800) |
| 4. Rotary Encoder | |
| RE 1-17: | EC16B40B (VK227100) LEVEL (AUX SEND, MONITOR) |

● RER Circuit Board

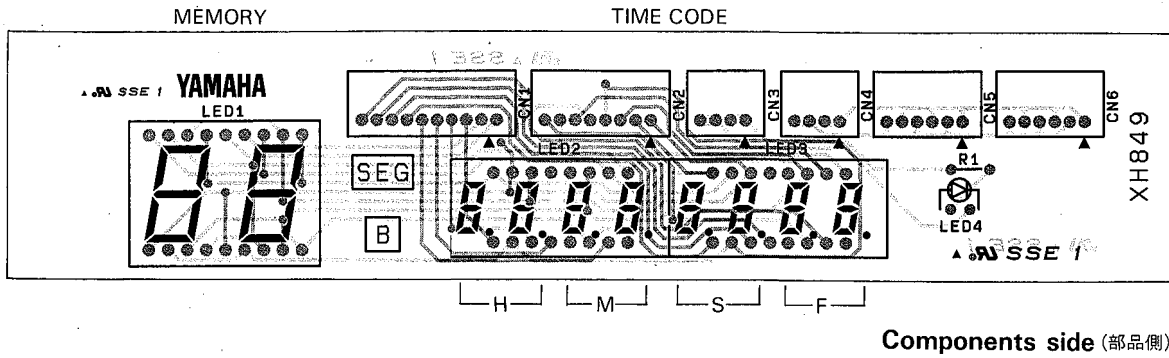


Notes)

- | | |
|------------------------------|--|
| Circuit Board: | RER (VK15490) XH924C0 |
| 1. IC | |
| IC 1: | RC4558D-V (IG001390) OP AMP. |
| IC 2-6: | SN74HC14N (IRO01450) INVERTER |
| 2. Variable Resistor | |
| VR 1: | RK163122 (VK963600) A10K TALKBACK LEVEL |
| VR 2, 7: | RK163122 (VK963700) B10K LEVEL (DIM, AFL) |
| VR 3-6: | RK16312B (VK963900) A20K x 2 LEVEL (LARGE, SMALL, STUDIO MONITOR, CUE) |
| 3. Electrolytic Cap. | |
| C 31: | 470μ 10V (UJ828470) |
| 4. Semiconductive Cera. Cap. | |
| C 45-49: | 0.1μ 25V Z (VC694800) |
| 5. EMI Filter | |
| EMI 1, 2: | LS MT Y223NB (FZ006970) 2200PF |
| 6. Rotary Encoder | |
| RE 1-15: | EC16B40B (VK227100) PAD, Q, f, EQ GAIN, AUX SEND LEVEL |



● SEG Circuit Board



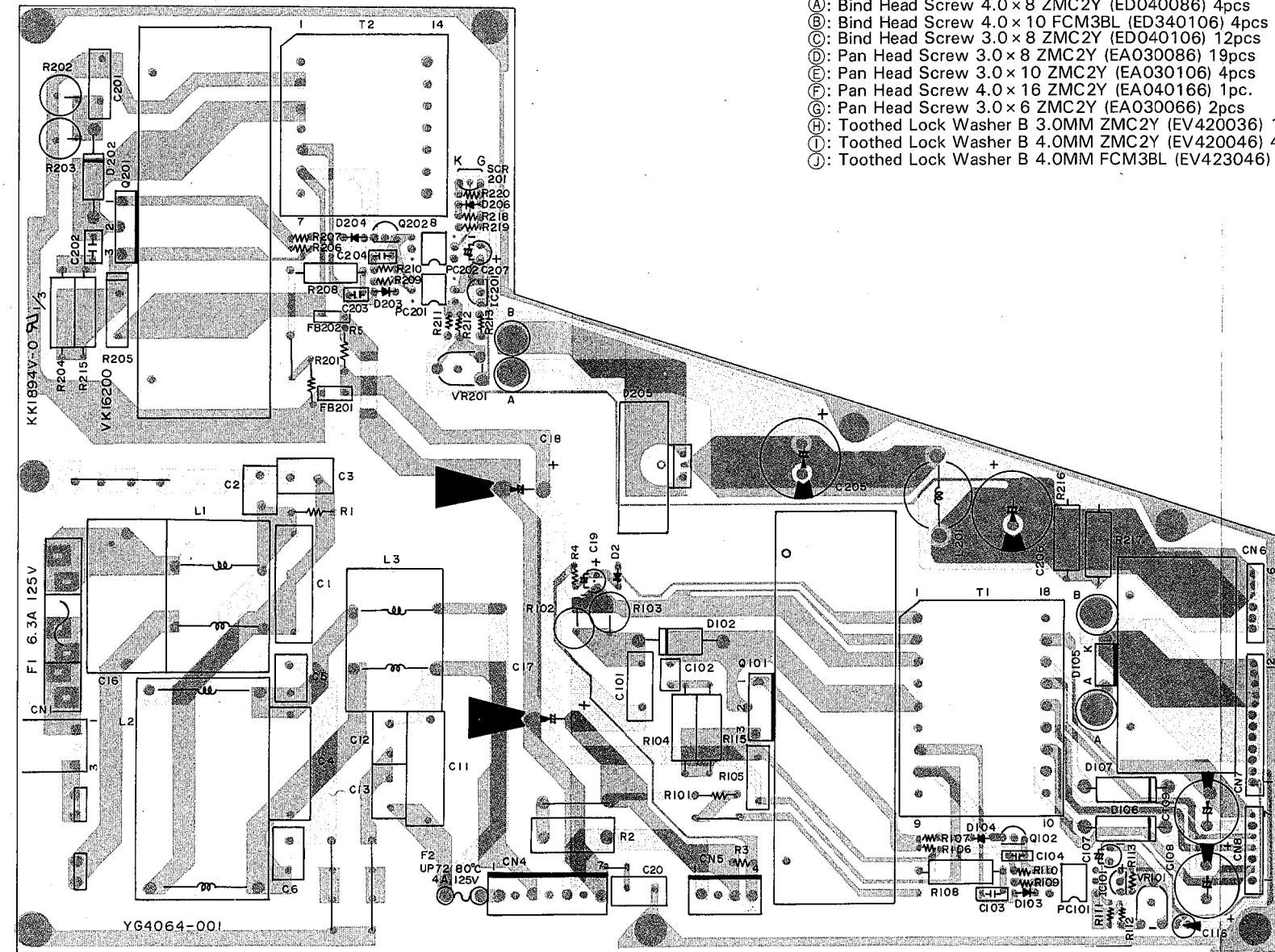
Notes)

- | | |
|----------------|------------------------------|
| Circuit Board: | SEG (VK154100) XH849B0 |
| 1. LED | |
| LED 4: | LD-201VR (IF009570) DF |
| 2. LED Display | |
| LED 1: | GL7P220 (VK536600) MEMORY |
| LED 2, 3: | GL3P422 (VK536500) TIME CODE |

POWER SUPPLY UNIT (電源ユニット)

Japanese, U.S. and Canadian models

Circuit Board 1/3

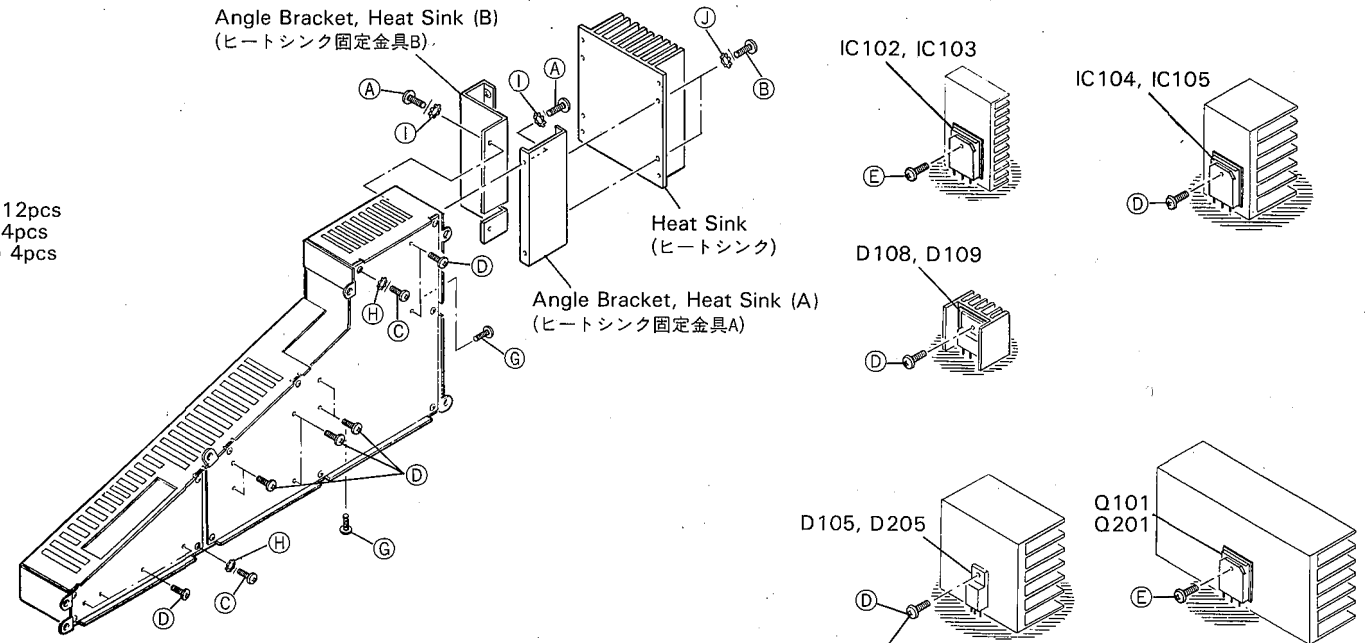


Components side (部品側)

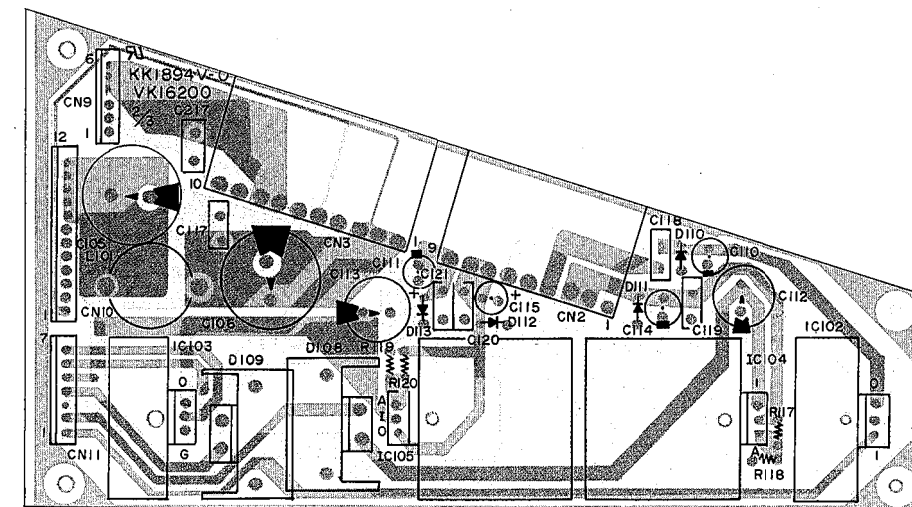
Notes)

* Screws

- (A): Bind Head Screw 4.0 x 8 ZMC2Y (ED040086) 4pcs
- (B): Bind Head Screw 4.0 x 10 FCM3BL (ED340106) 4pcs
- (C): Bind Head Screw 3.0 x 8 ZMC2Y (ED040106) 12pcs
- (D): Pan Head Screw 3.0 x 8 ZMC2Y (EA030086) 19pcs
- (E): Pan Head Screw 3.0 x 10 ZMC2Y (EA030106) 4pcs
- (F): Pan Head Screw 4.0 x 16 ZMC2Y (EA040166) 1pc.
- (G): Pan Head Screw 3.0 x 6 ZMC2Y (EA030066) 2pcs
- (H): Toothed Lock Washer B 3.0MM ZMC2Y (EV420036) 12pcs
- (I): Toothed Lock Washer B 4.0MM ZMC2Y (EV420046) 4pcs
- (J): Toothed Lock Washer B 4.0MM FCM3BL (EV423046) 4pcs

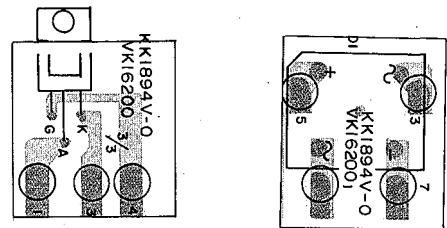


Circuit Board 2/3



Components side (部品側)

Circuit Board 3/3



Components side (部品側)

Notes)

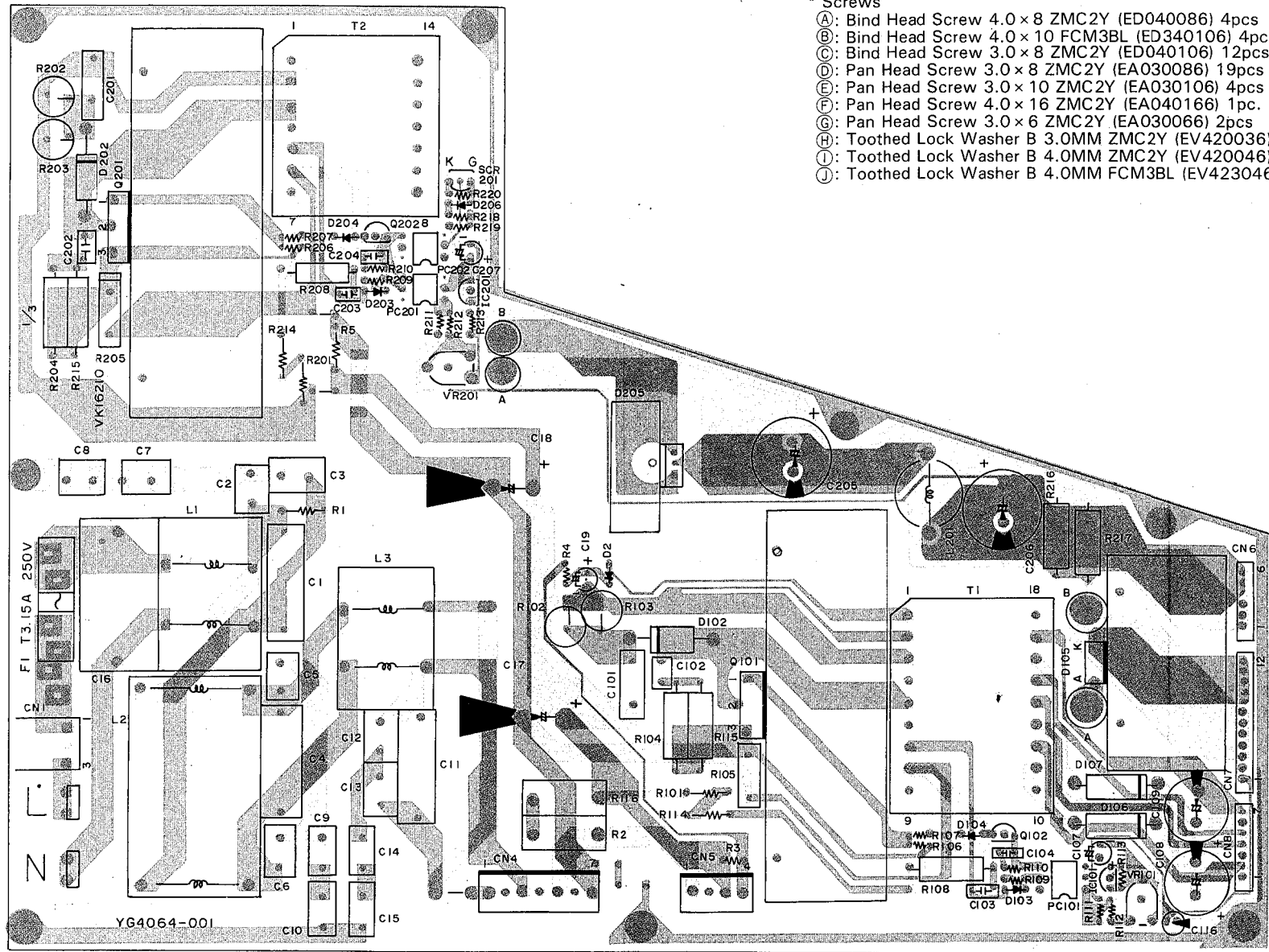
Power Supply Unit:

(VK162000) J,U,C (VK162100) H,B	6. Diode Bridge D1: D1:	KBPC1504P (IX806200) J,U,C or KBPC1504 (IX806210) J,U,C KBPC1506P (IX806220) H,B or KBPC1506 (IX806230) H,B	11. Carbon Resistor R101,201: R101,114,201,214:	560KΩ 1/2W (J,U,C) 880KΩ 1/2W (H,B)	16. Choke Coil L1: L2: L3: L101,201:	FM06E150M (GX803060) J,U,C FT-1KM15D080045 (GX803070) H,B ETQ39K2A (GX803030) J,U,C ETQ39K12A-1 (GX803040) H,B CL500300GB (GX803050) J,U,C CL300500FBK (GX802800) H,B 20A 7μH (GX803080)
1. IC IC101,201: IC102: IC103: IC104: IC105:	2. Photo Coupler PC101,201:	μPC1093J (IX801910) REGULATOR μPC7815H (IG063900) REGULATOR +15V μPC7915H (IG077500) REGULATOR -15V μPC317 (IX806110) REGULATOR μPC337H (IX805950) REGULATOR	7. Zener Diode D104,204: D206:	HZ12B2 12.0V (IF002350) HZ15-3 15.0V (IF004240)	17. Fuse F1: F2:	ST6 6.3A 125V (KX803030) J,U,C T3 15A 250V (KX803040) H,B UP72 80°C (KX802770) J,U,C
2. FET Q101,201:	3. Transistor Q102,202:	CNY17G-F2 (IX805930)	8. Thyristor SCR1: SCR201:	5P4SMYF (IX806240) J,U,C 5P6SMYF (IX806250) H,B CR02AM4 (IX806260)	18. Ferrite Bead FB201,202:	LFW7B-M3R2A0 (BX800570) J,U,C
5. Diode D2,103,203: D102,202: D105: D106,107: D108,109: D110-113: D205:	4. FET Q101,201:	2SK1170 (IX806120) J,U,C 2SK1342 (IX806130) H,B	9. Metal Oxide Film Resistor R2: R102,103,202,203: R104,204,115,205: R108,208: R116: R216,217:	6.8Ω 5W (HX806350) 27KΩ 3W (HX806360) J,U,C 68KΩ 2W (HL327680) H,B 330Ω 2W (HL825330) 82Ω 1W (HL314820) 6.8Ω 5W (HX806350) H,B 240Ω 2W (HX806370)	19. Power Transformer T1: T1: T2: T2:	TUM031F (GX803090) J,U,C TUM033F (GX803100) H,B TUM030E (GX803110) J,U,C TUM032D (GX803120) H,B
			10. Wire Wound Resist R105: R205:	70mΩ 5W (HX806380) J,U,C 0.15Ω 5W (HX806390) H,B 0.1Ω 5W (HM552100) J,U,C 0.22Ω 5W (HM752220) H,B		
				15. Metalized Film Cap. C1,4,11: C16: C101,201:		
				0.22μF 250V (VI346100) 1.0μF 250V (FX800760) H,B 0.033μF 630V (FX800770) J,U,C		

POWER SUPPLY UNIT (電源ユニット)

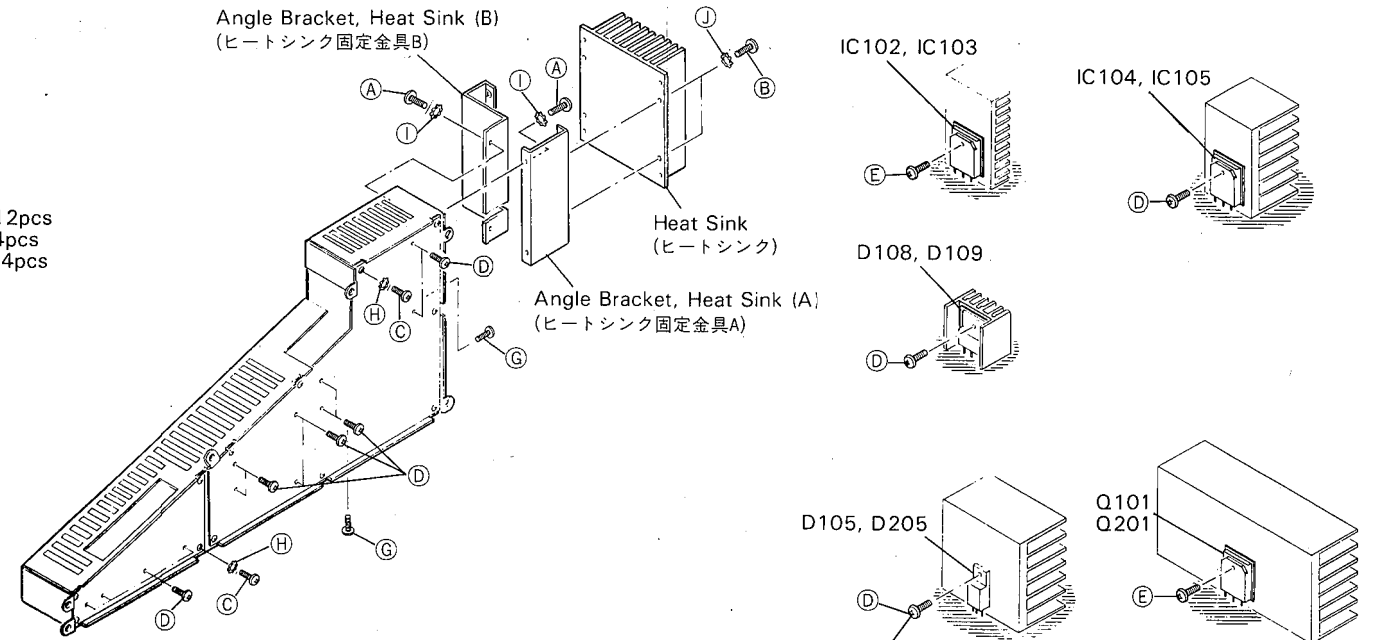
European model

● Circuit Board 1/3

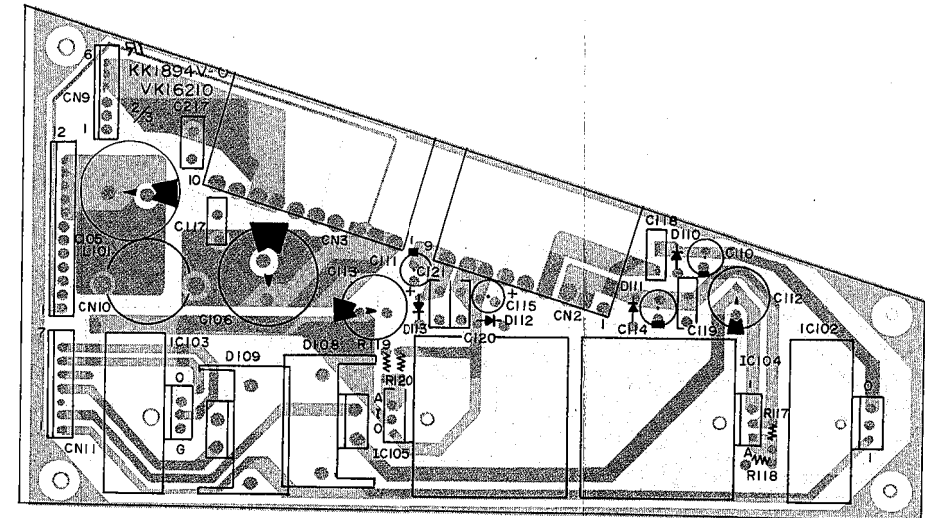


Notes)

- * Screws
 (A): Bind Head Screw 4.0×8 ZMC2Y (ED040086) 4pcs
 (B): Bind Head Screw 4.0×10 FCM3BL (ED340106) 4pcs
 (C): Bind Head Screw 3.0×8 ZMC2Y (ED040106) 12pcs
 (D): Pan Head Screw 3.0×8 ZMC2Y (EA030086) 19pcs
 (E): Pan Head Screw 3.0×10 ZMC2Y (EA030106) 4pcs
 (F): Pan Head Screw 4.0×16 ZMC2Y (EA040166) 1pc.
 (G): Pan Head Screw 3.0×6 ZMC2Y (EA030066) 2pcs
 (H): Toothed Lock Washer B 3.0MM ZMC2Y (EV420036) 12pcs
 (I): Toothed Lock Washer B 4.0MM ZMC2Y (EV420046) 4pcs
 (J): Toothed Lock Washer B 4.0MM FCM3BL (EV423046) 4pcs

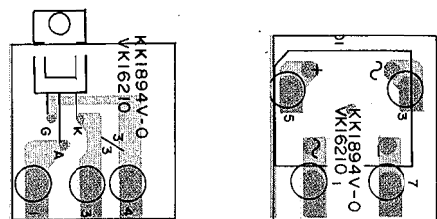


● Circuit Board 2/3



Components side (部品側)

● Circuit Board 3/3



Components side (部品側)

Notes)

Power Supply Unit:		6. Diode Bridge		11. Carbon Resistor		16. Choke Coil	
(VK162000) J,U,C (VK162100) H,B		D1: KBPC1504P (IX806200) J,U,C or KBPC1504 (IX806210) J,U,C D1: KBPC1508P (IX806220) H,B or KBPC1506 (IX806230) H,B		R101,201: 560KΩ 1/2W (J,U,C) R101,114,201,214: 680KΩ 1/2W (H,B)		L1: FM06E150M (GX803060) J,U,C FT-1KM15D080045 (GX803070) H,B L2: ETQ39K2A (GX803030) J,U,C L3: ETQ39K12A-1 (GX803040) H,B L101,201: CL500300GB (GX803050) J,U,C 20A 7μH (GX803080)	
1. IC IC101,201: μPC1093J (IX801910) REGULATOR IC102: μPC7815H (IG063900) REGULATOR +15V IC103: μPC7915H (IG077500) REGULATOR -15V IC104: μPC317 (IX806110) REGULATOR IC105: μPC337H (IX805950) REGULATOR		7. Zener Diode D104,204: D206: HZ12B2 12.0V (IF002350) HZ15-3 15.0V (IF004240)		12. Trimmer Potentiometer VR101: RVF08P01-102 (HT570540) B1K VR201: RVF08P (HX806400) B10K		17. Fuse F1: ST6 6.3A 125V (KX803030) J,U,C F2: UF72 80°C (KX802770) J,U,C	
2. Photo Coupler PC101,201: CNY17G-F2 (IX805930)		8. Thyristor SCR1: 5P4SMYF (IX806240) J,U,C 5P6SMYF (IX806250) H,B CRO2AM4 (IX806260)		13. Electrolytic Cap. C17,18: 820μF 200V (FX800720) J,U,C 390μF 400V (FX800730) H,B 10000μF 10V (FZ006860) 2200μF 35V (FJ259220) J,U,C 2200μF 25V (UJ649220) H,B 2200μF 16V (FZ006510) 4700μF 25V (FZ002720)		18. Ferrite Bead FB201,202: LFW7B-M3R2A0 (BX800570) J,U,C	
3. Transistor Q102,202: 2SC2655 (IX552940)		9. Metal Oxide Film Resistor R2: 6.8Ω 5W (HX806350) R102,103,202,203: 27KΩ 3W (HX806360) J,U,C 68KΩ 2W (HL327680) H,B 330Ω 2W (HL825330) 82Ω 1W (HL314820) R104,204,115,205: 6.8Ω 5W (HX806350) H,B R108,208: 240Ω 2W (HX806370)		14. Ceramic Cap. C2,3,5,6,12,13: 1000PF 125V (FX800740) C7-10,14,15: 2200PF 125V (FZ002850) H,B C20: 1000PF 125V (FX800740) J,U,C C101,201: 0.01μF 125V (FZ002030) H,B C102,202: 220PF 1KV (FX800750)		19. Power Transformer T1: TUM031F (GX803090) J,U,C T1: TUM033F (GX803100) H,B T2: TUM030E (GX803110) J,U,C T2: TUM032D (GX803120) H,B	
4. FET Q101,201: 2SK1170 (IX806120) J,U,C 2SK1342 (IX806130) H,B		10. Wire Wound Resist R105: 70mΩ 5W (HX806380) J,U,C 0.15Ω 5W (HX806390) H,B 0.1Ω 5W (HM552100) J,U,C 0.22Ω 5W (HM752220) H,B		15. Metalized Film Cap. C1,4,11: 0.22μF 250V (V1346100) C16: 1.0μF 250V (FX800760) H,B C101,201: 0.033μF 630V (FX800770) J,U,C			
5. Diode D2,103,203: 1SS84 (IF001380) D102,202: 30DF6 (IX806150) D105: 30KQ40 (IX806160) D106,107: 31DQ09 (IX806170) D108,109: 5KQ60 (IX806190) D110-113: 11ES1 (IX806140) D205: F16P06QS (IX806180)							

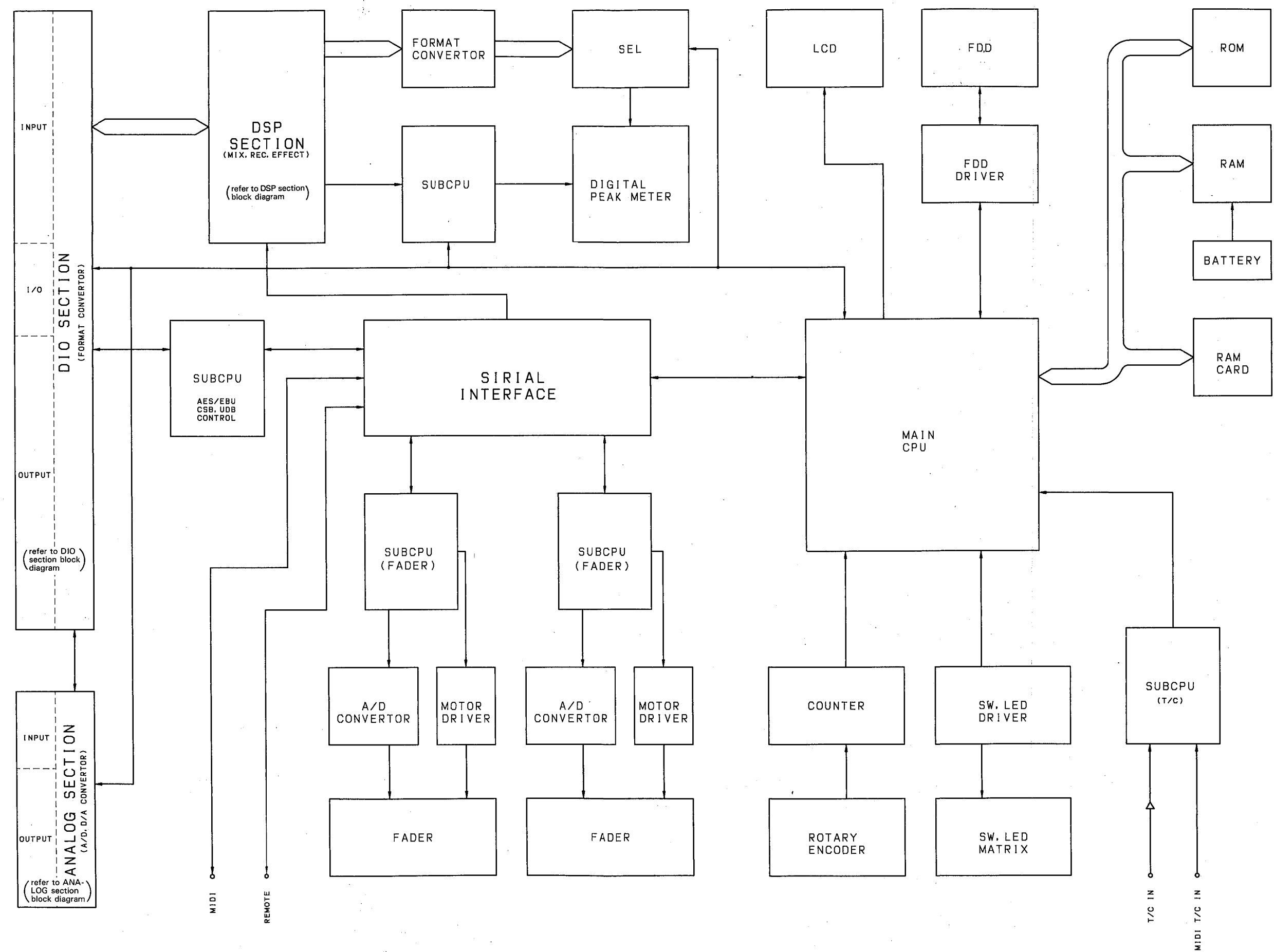
■ BLOCK DIAGRAM

■ CONTENTS (目次)

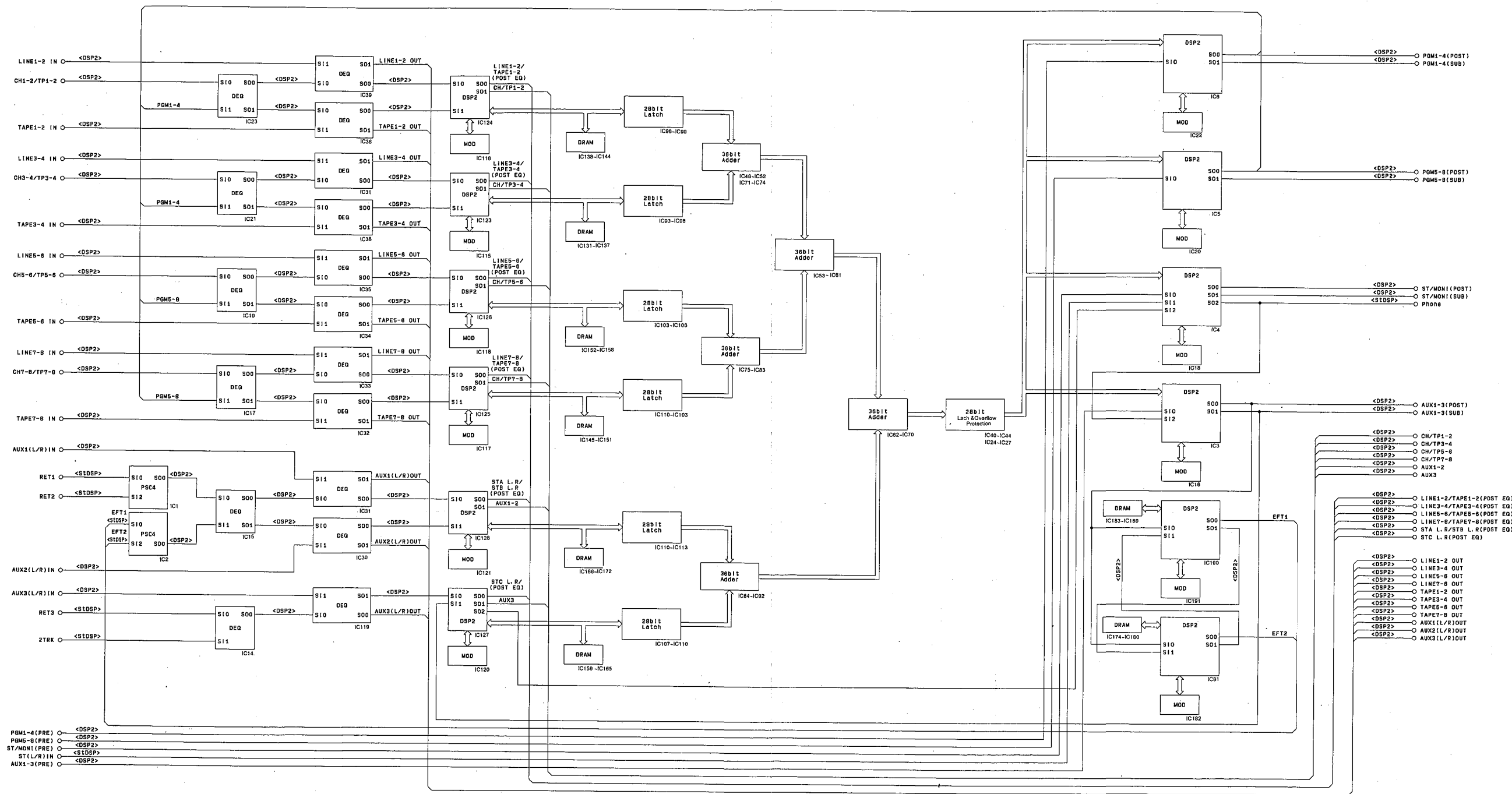
BLOCK DIAGRAM (MAIN)	1
BLOCK DIAGRAM (DSP SECTION)	2
BLOCK DIAGRAM (DIO SECTION)	3
BLOCK DIAGRAM (ANALOG SECTION)	4
LEVEL DIAGRAM (DIGITAL SECTION)	5
LEVEL DIAGRAM (ANALOG SECTION)	6
BLOCK DIAGRAM 1/2	7
BLOCK DIAGRAM 2/2)	8

■ BLOCK DIAGRAM (MAIN)

1
2
3
4
5
6



BLOCK DIAGRAM (DSP SECTION)



PGM1-4 (PRE) <DSP2>
 PGM5-8 (PRE) <DSP2>
 ST/MONI (PRE) <DSP2>
 ST(L/R) IN <DSP2>
 AUX1-3 (PRE) <DSP2>

<DSP2> PGM1-4 (POST)
 <DSP2> PGM1-4 (SUB)
 <DSP2> PGM5-8 (POST)
 <DSP2> PGM5-8 (SUB)
 <DSP2> ST/MONI (POST)
 <DSP2> ST/MONI (SUB)
 <DSP2> Phone
 <DSP2> AUX1-3 (POST)
 <DSP2> AUX1-3 (SUB)
 <DSP2> CH/TP1-2
 <DSP2> CH/TP3-4
 <DSP2> CH/TP5-6
 <DSP2> CH/TP7-8
 <DSP2> AUX1-2
 <DSP2> AUX3
 <DSP2> LINE1-2/TAPE1-2 (POST EQ)
 <DSP2> LINE3-4/TAPE3-4 (POST EQ)
 <DSP2> LINE5-6/TAPE5-6 (POST EQ)
 <DSP2> LINE7-8/TAPE7-8 (POST EQ)
 <DSP2> STA L/R/STB L/R (POST EQ)
 <DSP2> STC L/R (POST EQ)
 <DSP2> LINE1-2 OUT
 <DSP2> LINE3-4 OUT
 <DSP2> LINE5-6 OUT
 <DSP2> LINE7-8 OUT
 <DSP2> TAPE1-2 OUT
 <DSP2> TAPE3-4 OUT
 <DSP2> TAPE5-6 OUT
 <DSP2> TAPE7-8 OUT
 <DSP2> AUX1(L/R) OUT
 <DSP2> AUX2(L/R) OUT
 <DSP2> AUX3(L/R) OUT

1

2

3

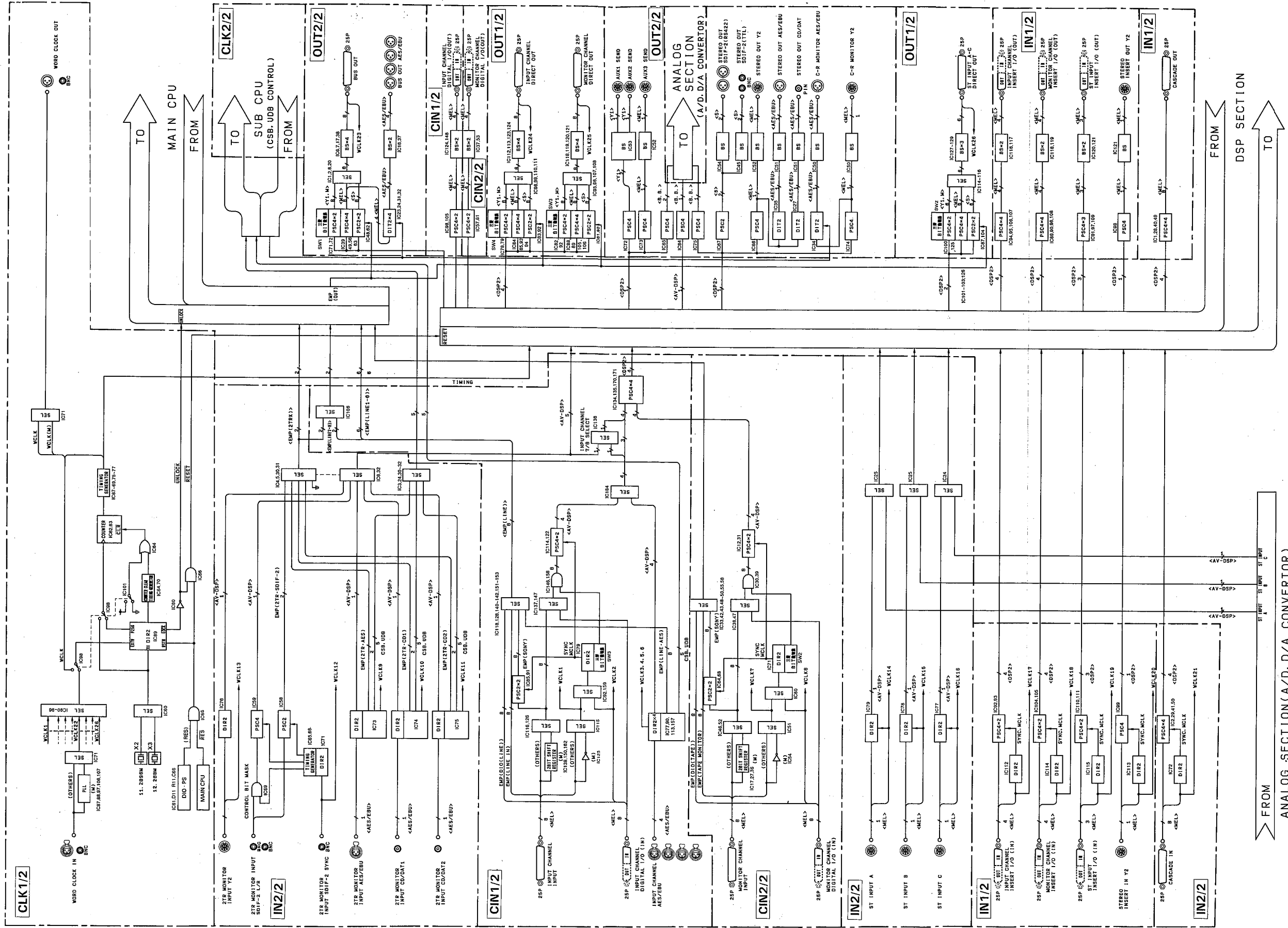
4

5

2

6

BLOCK DIAGRAM (DIO SECTION)

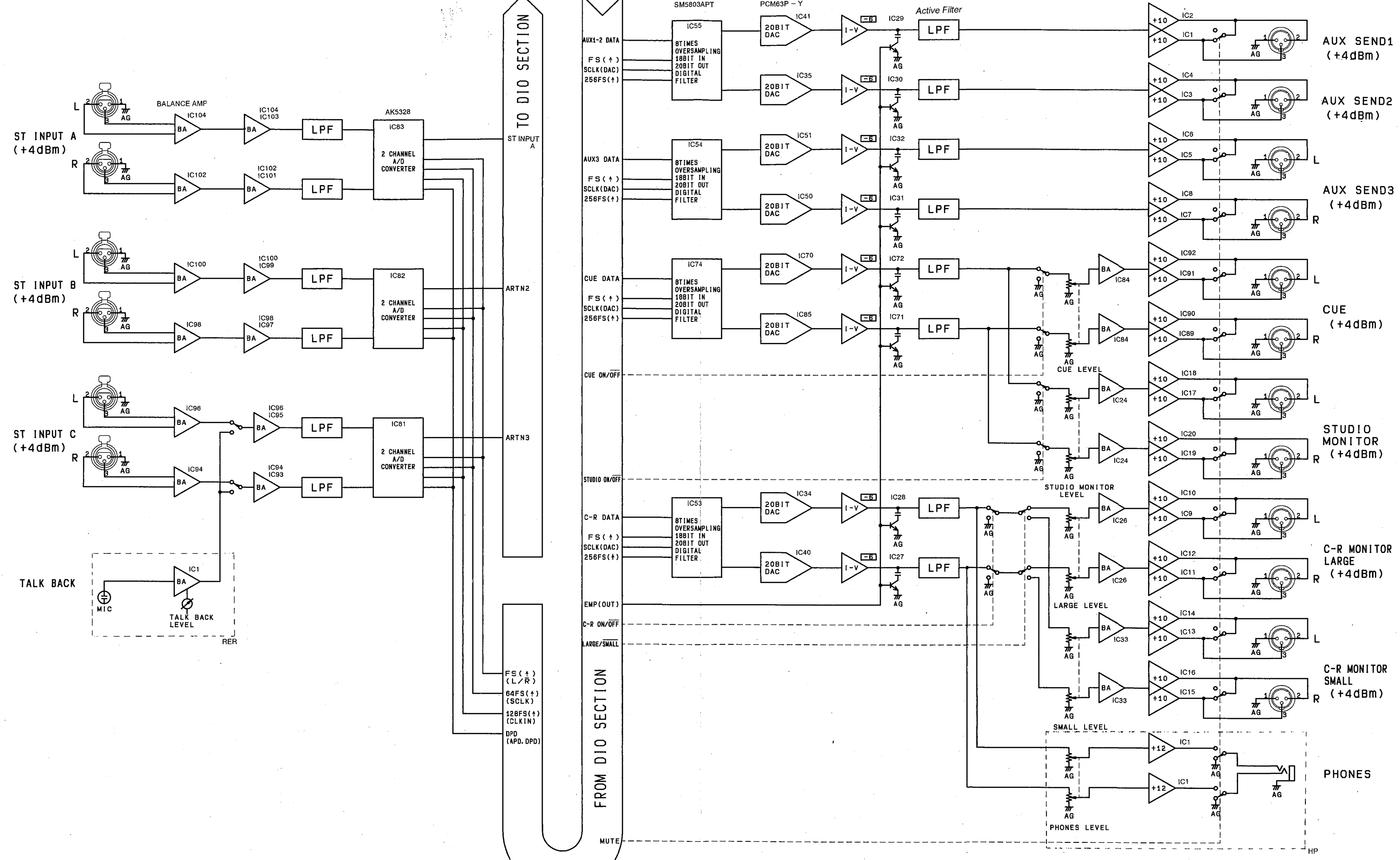


85: BIT SHIFT

FROM ANALOG SECTION (A/D, D/A CONVERTOR)

1
2
3
4
5
6

■ BLOCK DIAGRAM (ANALOG SECTION)



TO DIO SECTION

FROM DIO SECTION

FS (↑)
(L/R)
64FS (↑)
(SCLK)
128FS (↑)
(CLKIN)
DPD
(APD, DPD)

MUTE

HP

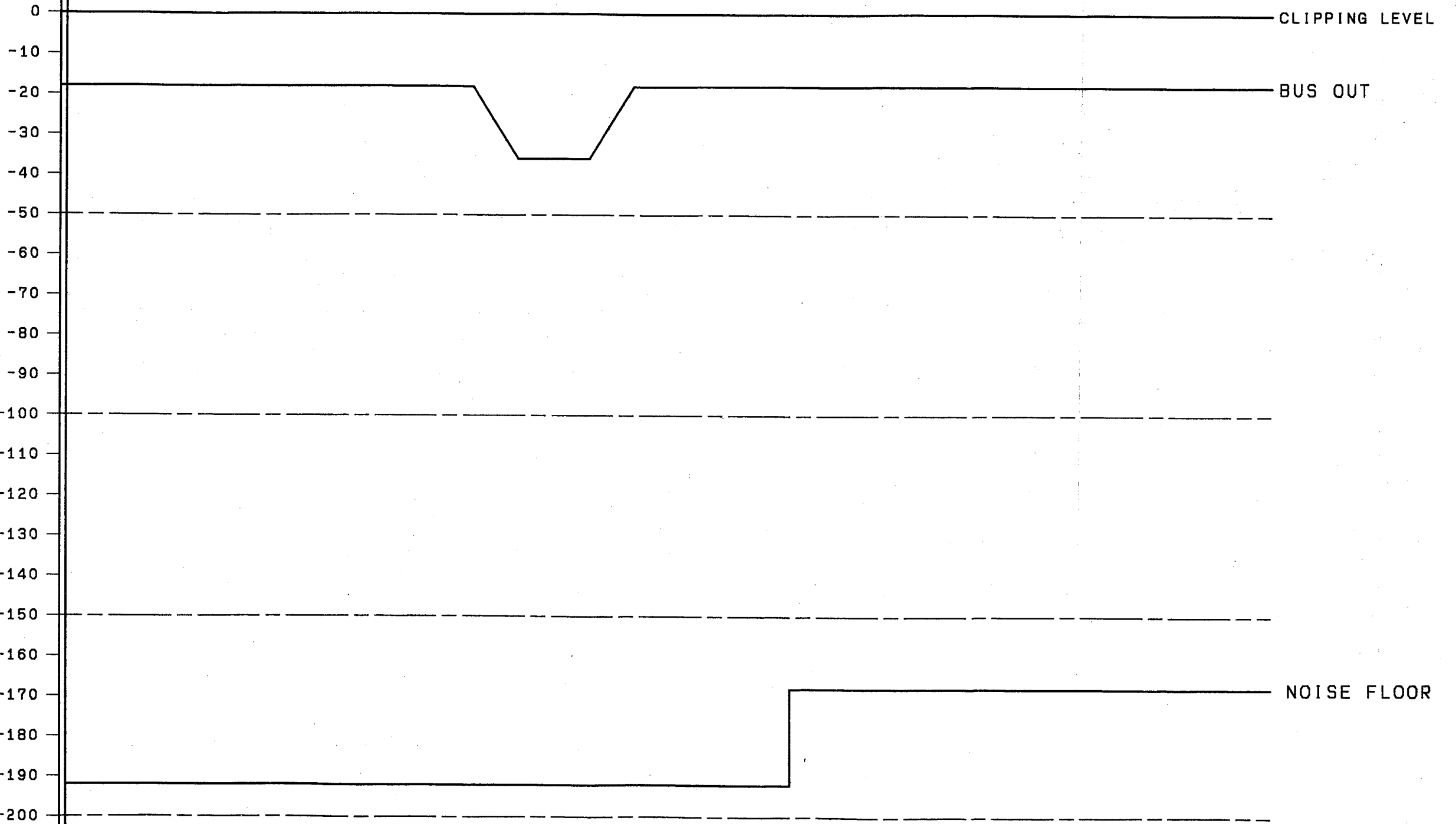
LEVEL DIAGRAM (DIGITAL SECTION)

1
2
3
4
5
6

BIT SCALE

(dB)

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
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28
29
30
31
32
33



DEQ DEQ DSP2 DRAM DSP2 ADDER DSP2

A

B

C

D

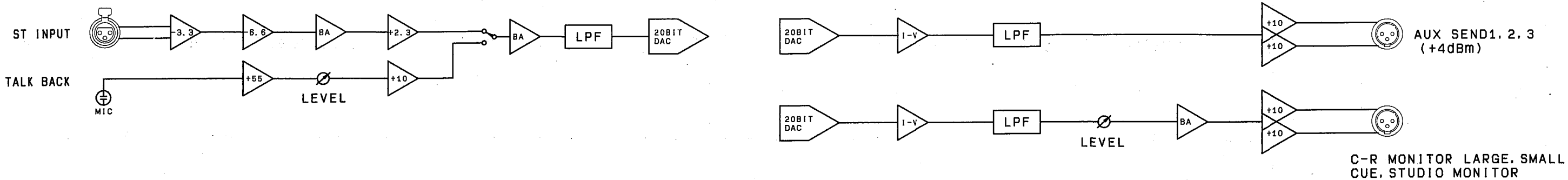
E

F

G

H

LEVEL DIAGRAM (ANALOG SECTION)



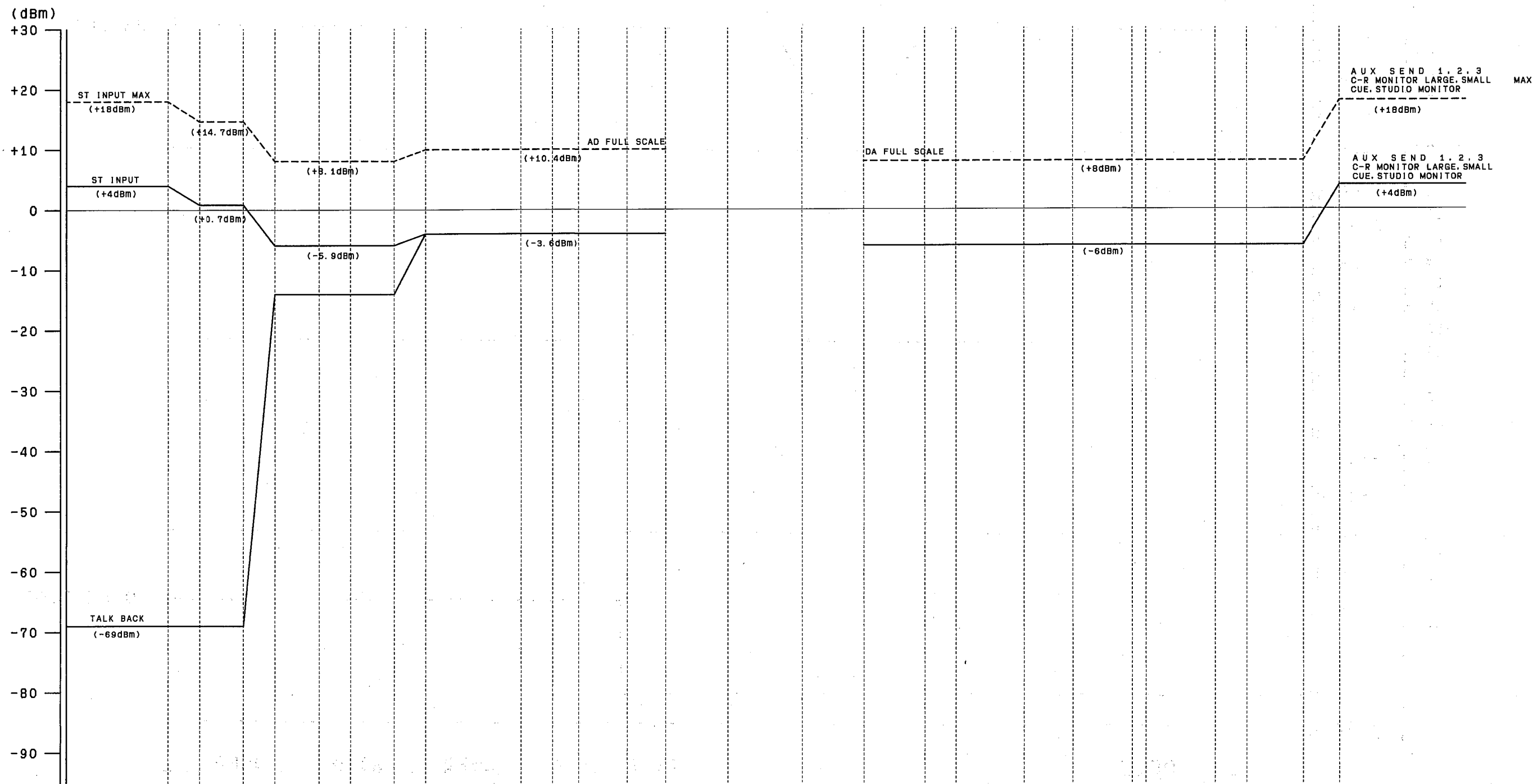
2

3

4

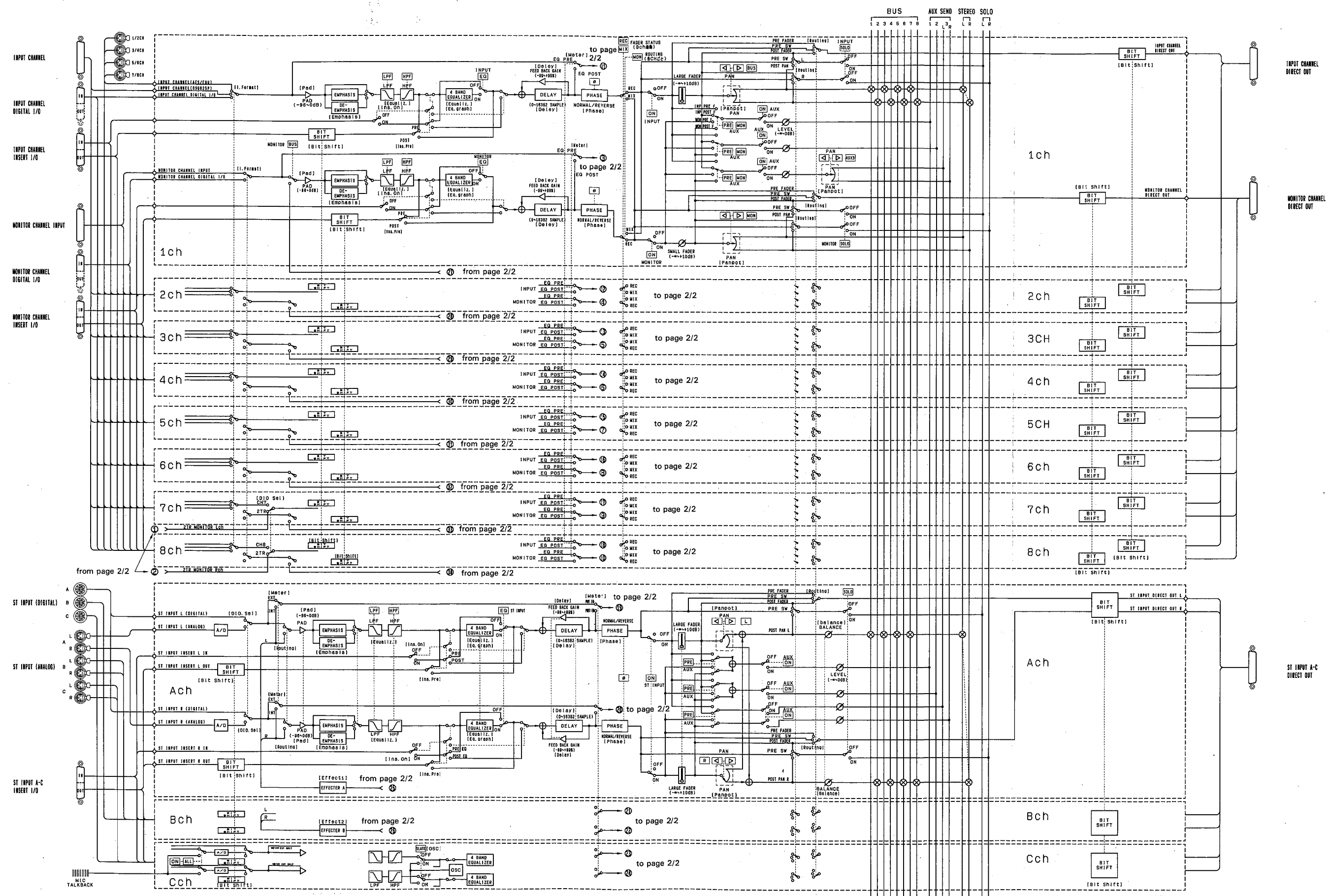
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6



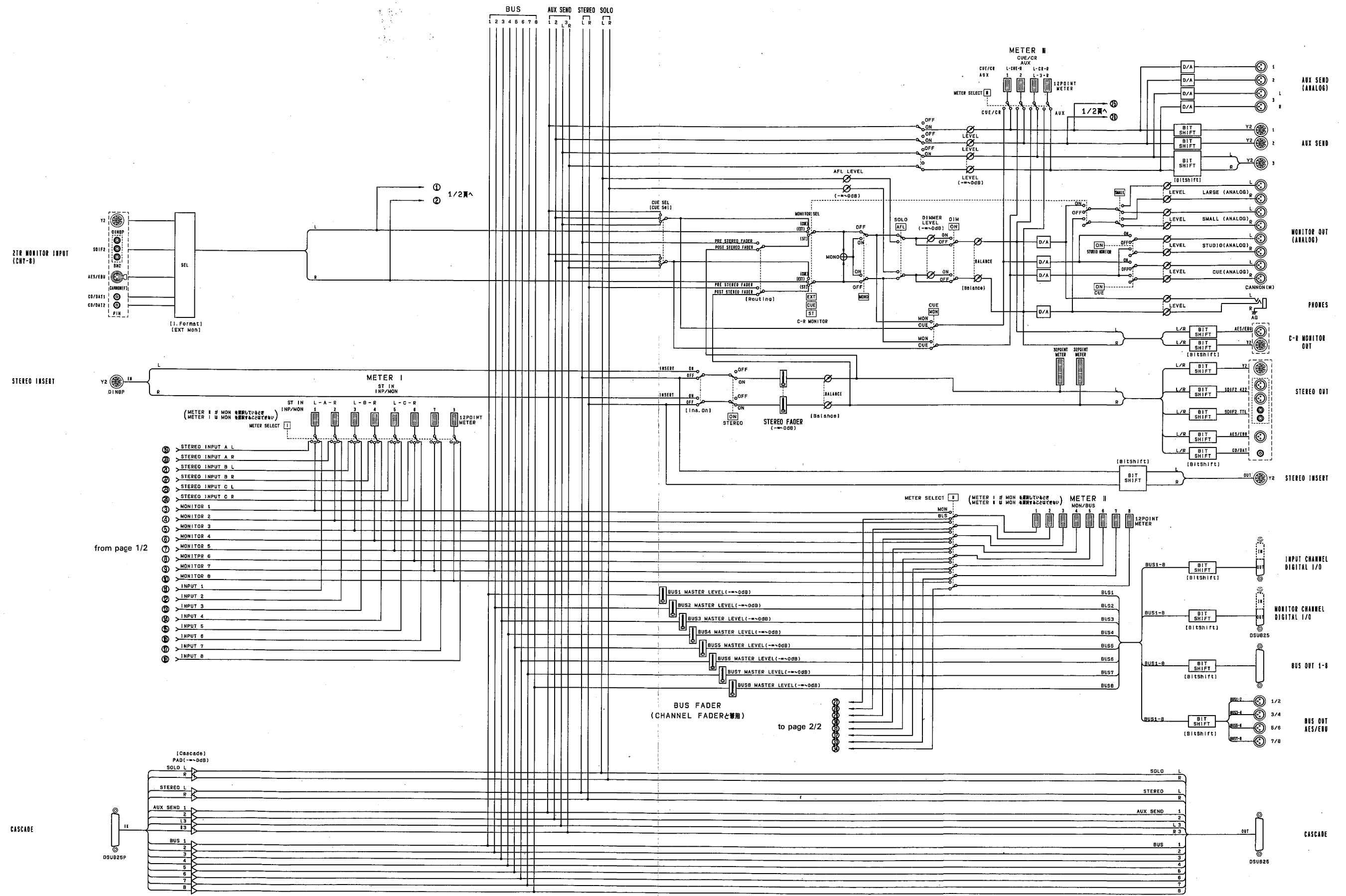
■BLOCK DIAGRAM 1/2

I
2
3
4
5
6



(注)フォーマット変更の部分は表記していない。
 (注) []内はLCDの画面名を示しており、設定の変更はLCD上で行う
 (注) PRE 値はフロントパネル上のスイッチを示す。

■BLOCK DIAGRAM 2/2






from page 1/2

to page 2/2

(注) フォーマット変更の部分は表記していません。
 (注) []内はLCDの画面名を示しており、設定の変更はLCD上で行う
 (注) PRE 数はフロントパネル上のスイッチを示す。

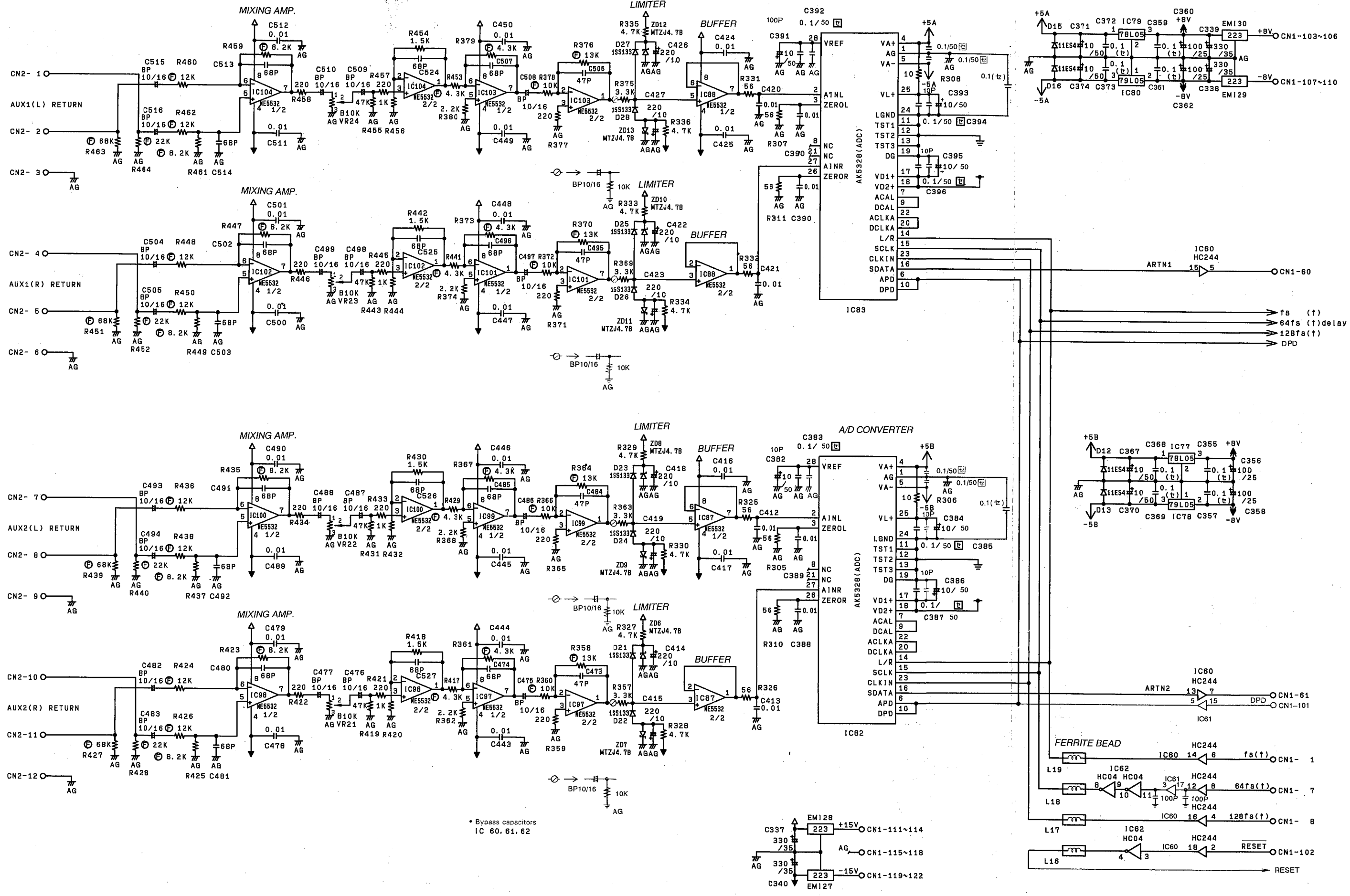
 **CIRCUIT DIAGRAM**

Page	Circuit Board		Description
1	ANA 1/2-1/3 (Version )	Analog	A/D × 2 AUX1 (L·R) RETURN AUX2 (L·R) RETURN
2	ANA 1/2-2/3 (Version )	Analog	A/D × 1 AUX3 (L·R) RETURN
3	ANA 1/2-3/3 (Version )	Analog	DA × 2 DIGI FILTTER CUE L·R
4	ANA 2/2-1/3 (Version )	Analog	DA × 4 DIGI FILTTER × 2 AUX1/2/AUX3 (L·R)
5	ANA 2/2-2/3 (Version )	Analog	DA × 2 DIGI FILTTER CR MONI (LARGE) L·R/(SMALL) L·R
6	ANA 2/2-3/3 (Version )	Analog	LINE AMP × 2 STUDIO L·R
7	ANA 1/2-1/3 (Version )	Analog	A/D × 2 AUX1 (L·R) RETURN AUX2 (L·R) RETURN
8	ANA 1/2-2/3 (Version )	Analog	A/D × 1 AUX3 (L·R) RETURN
9	ANA 1/2-3/3 (Version )	Analog	DA × 2 DIGI FILTTER CUE L·R
10	ANA 2/2-1/3 (Version )	Analog	DA × 4 DIGI FILTTER × 2 AUX1/2/AUX3 (L·R)
11	ANA 2/2-2/3 (Version )	Analog	DA × 2 DIGI FILTTER CR MONI (LARGE) L·R/(SMALL) L·R
12	ANA 2/2-3/3 (Version )	Analog	LINE AMP × 2 STUDIO L·R
13	CIN1/2-1/4	Channel In	LINE IN RSC4 × 2
14	CIN1/2-2/4	Channel In	LINE IN (AES) DIR2 × 4
15	CIN1/2-3/4	Channel In	LINE/TAPE MIX PSC4 × 5
16	CIN1/2-4/4	Channel In	LINE IN (EMP) DIR2 PSC2 × 2
17	CIN2/2-1/5	Channel In	TAPE IN PSC4 × 2
18	CIN2/2-2/5	Channel In	TAPE MIX PSC4 × 2
19	CIN2/2-3/5	Channel In	TAPE IN (EMP) PSC2 × 2 DIR2
20	CIN2/2-4/5	Channel In	METER1 PSC4 × 6
21	CIN2/2-5/5	Channel In	METER2 ESI × 2
22	CLK1/2	Clock	MASTER PLL WCLK SEL DIR2 × 1 PLL
23	CLK2/2	Clock	AES/EBU 8 bit CPU
24	CPU-1/7	CPU	CUP × 1 EPROM × 2 SRAM × 12 DECORDER
25	CPU-2/7	CPU	ACIA × 2 PPI × 2 FDC PTC RTC
26	CPU-3/7	CPU	TRANSCEIVER × 5
27	CPU-4/7	CPU	DATA BUS DRIVER
28	CPU-5/7	CPU	SUB CPU (8 bit) TC MIDI
29	CPU-6/7	CPU	SUB CPU (8 bit) FADER (1 ~ 5ch)
30	CPU-7/7	CPU	SUB CPU (8 bit) FADER (6 ~ 8ch, RET.ST)
31	CRA	Connector Rear-A	ANALOG IN
32	CRC-1/2	Connector Rear-C	LINE IN/DIR
33	CRC-2/2	Connector Rear-C	LINE INSERT/DIO
34	CRD	Connector Rear-D	LINE (AES/EBU) IN
35	CRE-1/2	Connector Rear-E	TAPE IN/DIR
36	CRE-2/2	Connector Rear-E	TAPE INSERT/DIO
37	CRF-1/2	Connector Rear-F	AUX RETURN
38	CRF-2/2	Connector Rear-F	AUX INSERT/DIR
39	CRG	Connector Rear-G	2 TRACK IN
40	CRH	Connector Rear-H	BUSS OUT
41	CRI	Connector Rear-I	ST OUT
42	CRJ	Connector Rear-J	ST INSERT/AUX SEND
43	CRK-1/2	Connector Rear-K	MONITOR OUT
44	CRK-2/2	Connector Rear-K	CASCADE IN/OUT
45	CRL	Connector Rear-L	REMOTE/WORD CLOCK/TIME CODE
46	CRM	Connector Rear-M	MIDI/MIDI TIME CODE
47	DSP-1/6	Digital Sound Processor	PSC4 × 2 DEQ2 × 15
48	DSP-2/6	Digital Sound Processor	(DSP2 + DRAM × 7) × 6
49	DSP-3/6	Digital Sound Processor	(ADDER × 9) × 3
50	DSP-4/6	Digital Sound Processor	(ADDER × 2) × 2
51	DSP-5/6	Digital Sound Processor	(DSP2 + MOD) × 4
52	DSP-6/6	Digital Sound Processor	(DSP2 + MOD + DRAM × 7) × 2
53	DTB	Distributor	± 15V/+ 5V/+ 12V F1 ~ F7
54	FPC	Front Panel Control	
55	FPE	Front Panel Encoder	
56	HP	Headphone	HP AMP × 2
57	IN1/2-1/5	Input	STEREO INSERT DIR2 PSC4 × 2

DMC1000

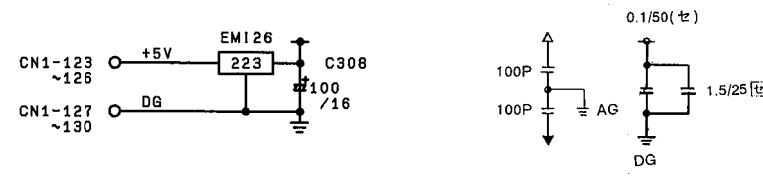
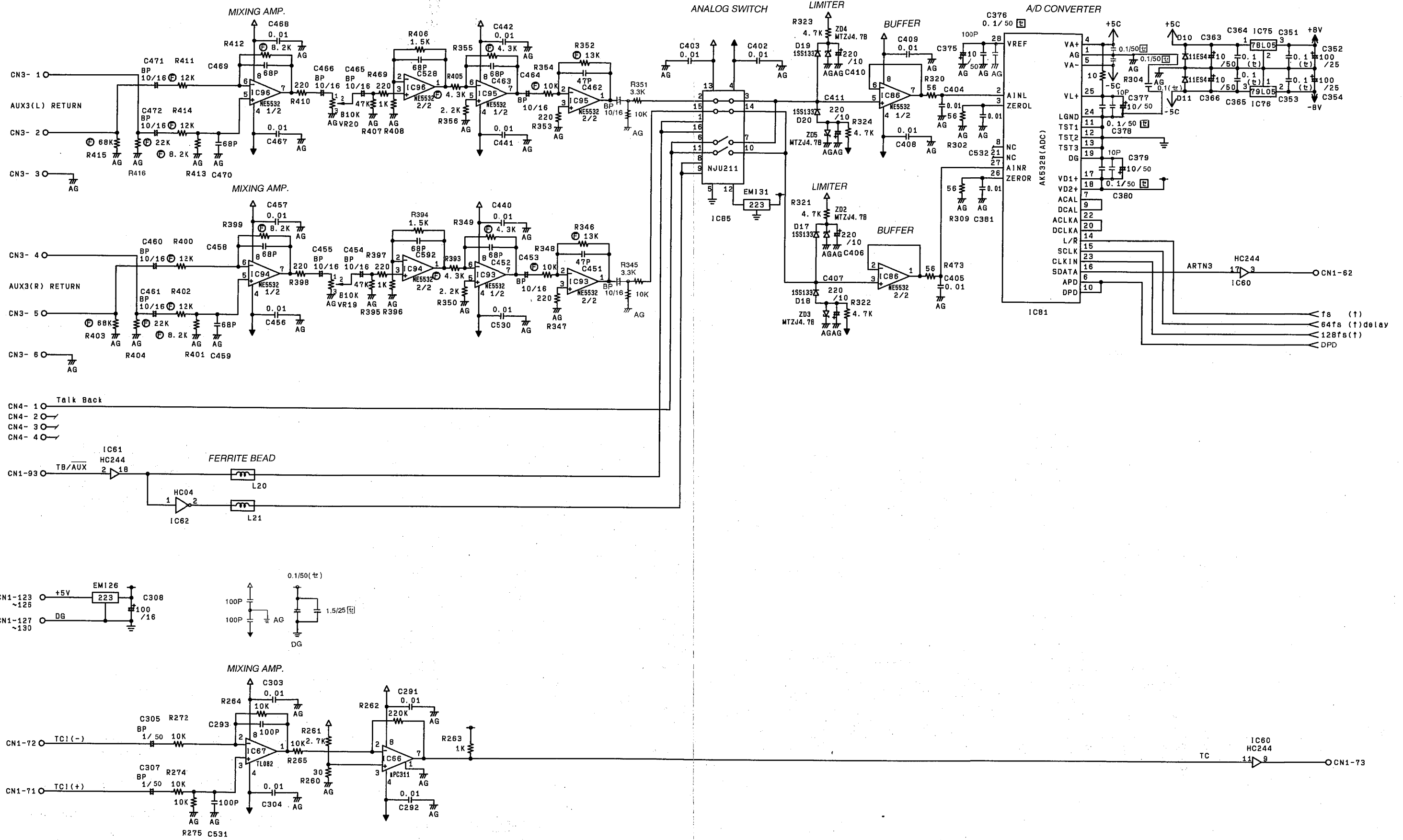
Page	Circuit Board		Description
58	IN1/2-2/5	Input	INSERT (LINE) DIR2 PSC4 × 6
59	IN1/2-3/5	Input	INSERT (TAPE) DIR2 PSC4 × 6
60	IN1/2-4/5	Input	INSERT (AUX) DIR2 PSC4 × 5
61	IN1/2-5/5	Input	BIT SHIFT YMB04 BIT SHIFT × 6
62	IN2/2-1/6	Input	AUX RTN/2TRK (Y2) DIR2 × 4
63	IN2/2-2/6	Input	2TRK (SONY) DIR2 PSC2 PSC4
64	IN2/2-3/6	Input	2TRK (AES) DIR2 × 3
65	IN2/2-4/6	Input	2TRK (SEL)
66	IN2/2-5/6	Input	CASCADE IN DIR2 PSC4 × 4
67	IN2/2-6/6	Input	CASCADE OUT PSC4 × 4
68	MBD-1/3	Mother Board	CN1 CN2
69	MBD-2/3	Mother Board	CN3~CN12
70	MBD-3/3	Mother Board	CN13~CN34
71	MDR	Motor Drive	Motor Driver × 10
72	NML	Nominal Level	
73	OUT1/2-1/8	Output	LINE DIR OUT PSC4 × 2 PSC2 × 2
74	OUT1/2-2/8	Output	TAPE DIR OUT PSC4 × 2 PSC2 × 2
75	OUT1/2-3/8	Output	AUX DIR OUT PSC4 × 2 PSC2 × 2
76	OUT1/2-4/8	Output	DIRECT OUT PSC4 × 12
77	OUT1/2-5/8	Output	LINE DIR OUT SEL LINE (Y1, Y2, SONY) SEL LINE 8 out
78	OUT1/2-6/8	Output	TAPE DIR OUT SEL TAPE (Y1, Y2, SONY) SEL TAPE 8 out
79	OUT1/2-7/8	Output	AUX DIR OUT SEL AUX (Y1, Y2, SONY) SEL AUX1~6
80	OUT1/2-8/8	Output	DIR OUT BS
81	OUT2/2-1/7	Output	AUX SEND HEADPHONE PSC4 × 6
82	OUT2/2-2/7	Output	STEREO OUT PSC4 PSC2 DIT2 × 2
83	OUT2/2-3/7	Output	MONITOR OUT PSC4 × 2 DIT2 × 1
84	OUT2/2-4/7	Output	PGM OUT (Y1, M, SONY) PSC4 × 2 PSC2 × 2
85	OUT2/2-5/7	Output	PGM OUT (Y2, AES) PSC4 × 4 DIT2 × 4
86	OUT2/2-6/7	Output	BIT SHIFT YMAB04 × 12
87	OUT2/2-7/7	Output	PGM OUT SEL PGM (Y1, Y2, SONY) I13~20
88	PM-1/2	Peak Meter	12 LED × 8 METER I
89	PM-2/2	Peak Meter	12 LED × 8 METER II AUX ST
90	PMD-1/2	Peak Meter Drive	8 bit CPU PMM2
91	PMD-2/2	Peak Meter Drive	PMM2 × 5
92	PMS	Peak Meter Stereo	32 LED × 2
93	PND-1/3	Panel Drive	8 bit CPU × 4
94	PND-2/3	Panel Drive	8 bit CPU × 4
95	PND-3/3	Panel Drive	8 bit CPU × 2
96	PNL-1/8	Panel (L)	8 × 8 LED 8 × 8 SW ASSIN
97	PNL-2/8	Panel (L)	8 × 8 LED 8 × 8 SW AUX ON 1~3 AUX SEL 1~3 ST/MONITOR EQ
98	PNL-3/8	Panel (L)	6 × 8 LED 6 × 8 SW MONITOR ON/MONITOR SOLO MONITOR SEL/EQ/SOLO/ON
99	PNL-4/8	Panel (L)	LED SW RETERN AUX PAN
100	PNL-5/8	Panel (L)	8 × 8 LED 8 × 8 SW MON TO BUS/AUX PRE/AUX MON/ BUS TO MON/FLIP/PAN BUS/PAN MON/PAN SEND3
101	PNL-6/8	Panel (L)	RE LED × 8 CH1~8 AUX LEVEL
102	PNL-7/8	Panel (L)	RE LED × 8 CH1~8 MONITER LEVEL
103	PNL-8/8	Panel (L)	RE LED × 8 CH1~8 PAN/AUX LEVEL
104	PNR-1/3	Panel (R)	LED & SW (SW with LED)
105	PNR-2/3	Panel (R)	RE LED × 8 EQ
106	PNR-3/3	Panel (R)	RE LED × 7 EQ
107	REL-1/2	Rotary Encoder (L)	RE COUNTER RE × 8
108	REL-2/2	Rotary Encoder (L)	RE COUNTER × 4 RE × 9
109	RER-1/2	Rotary Encoder (R)	RE × 15
110	RER-2/2	Rotary Encoder (R)	TB MICROPHONE AMP/LEVEL VOL.
111	SEG	Segment	7SEG LED × 10
112	POWER SUPPLY UNIT		

ANA 1/2 CIRCUIT DIAGRAM 1/3 (Version B)



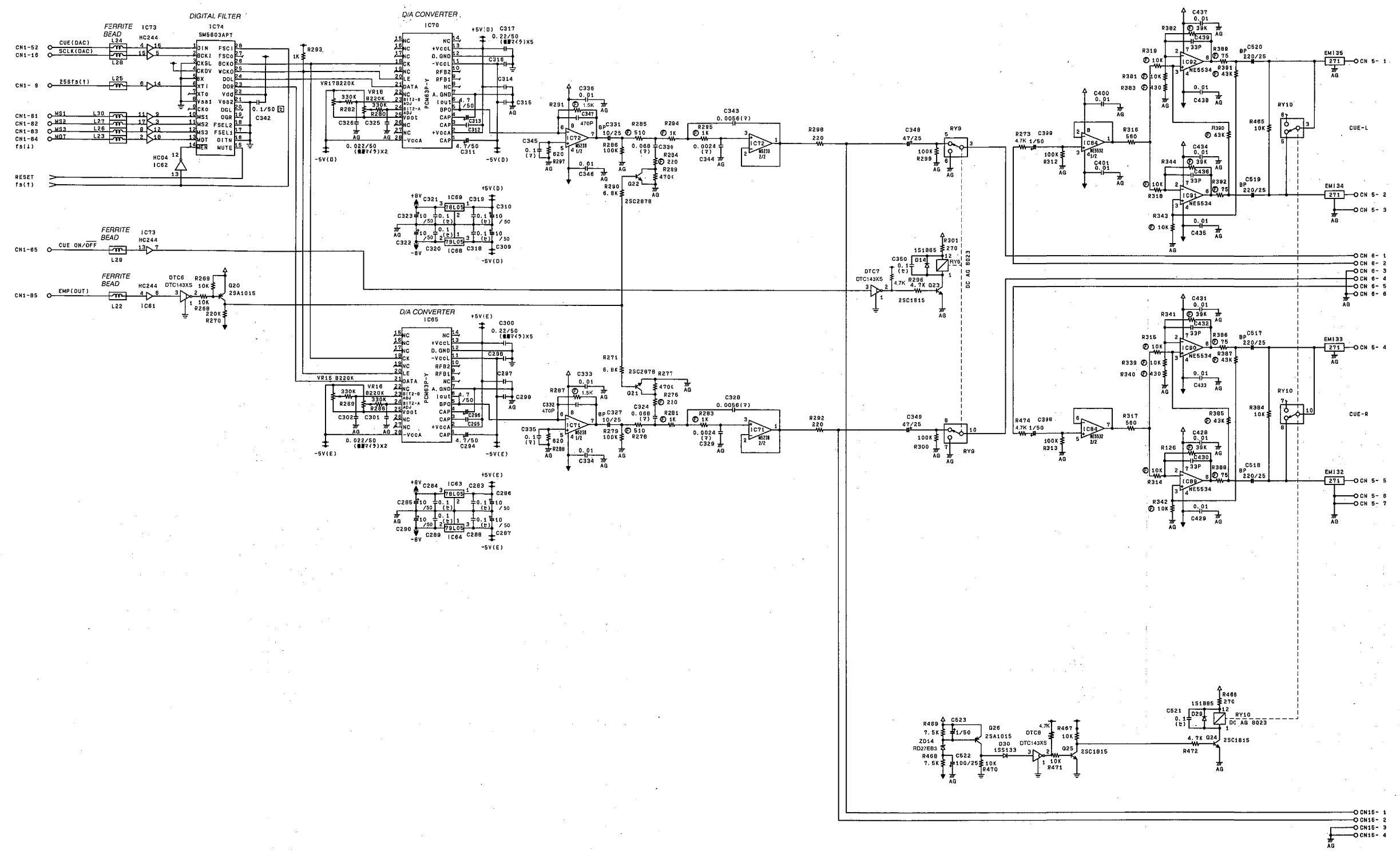
* Bypass capacitors IC 60, 61, 62

ANA 1/2 CIRCUIT DIAGRAM 2/3 (Version B)



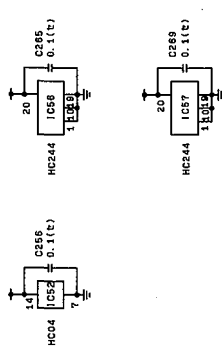
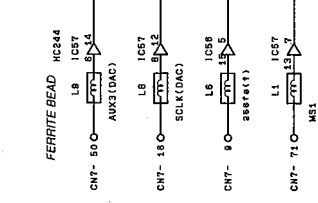
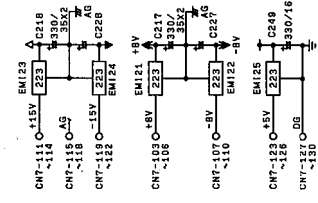
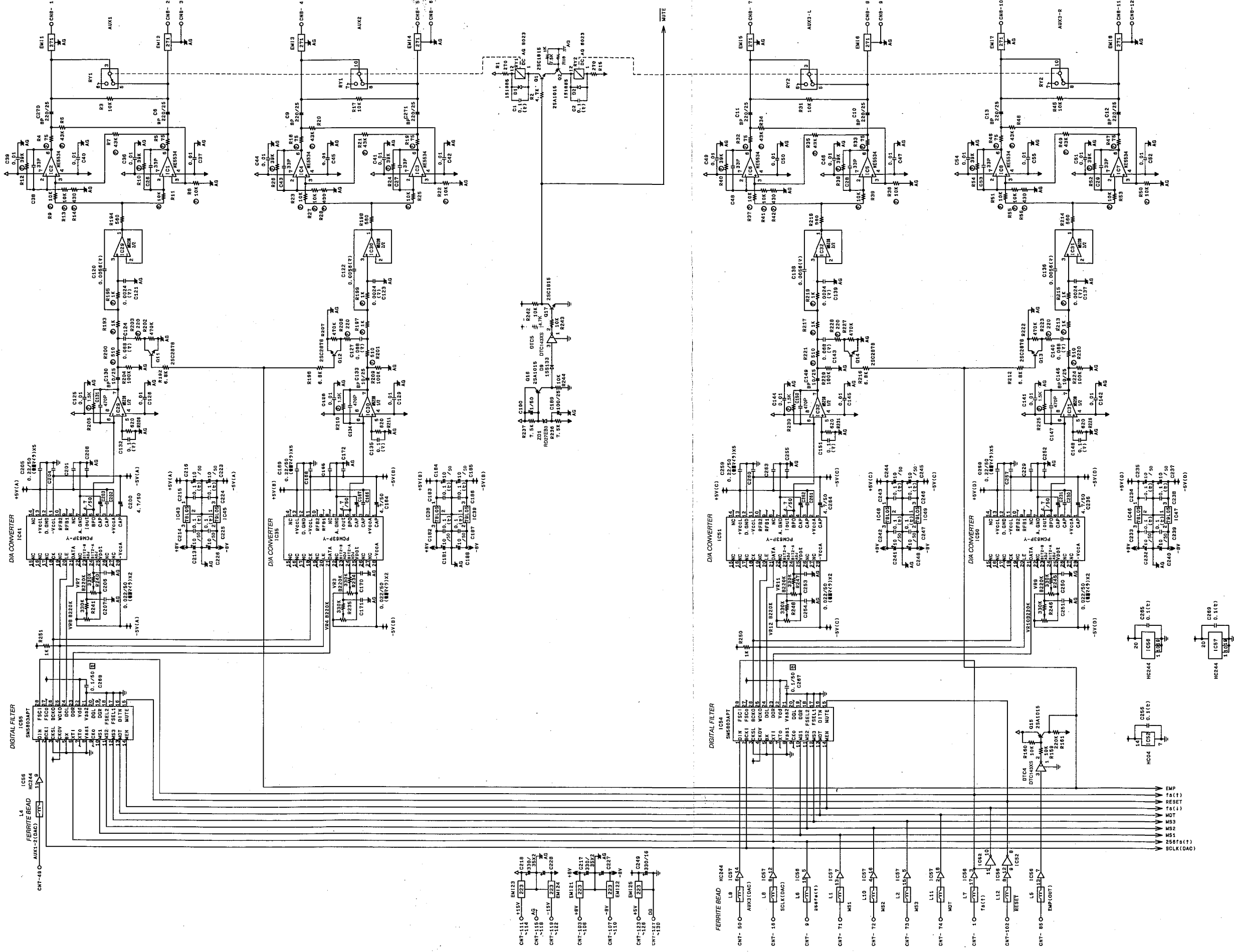
- 1s (t)
- 64fs (f) delay
- 128fs (f)
- DPD

ANA 1/2 CIRCUIT DIAGRAM 3/3 (Version B)



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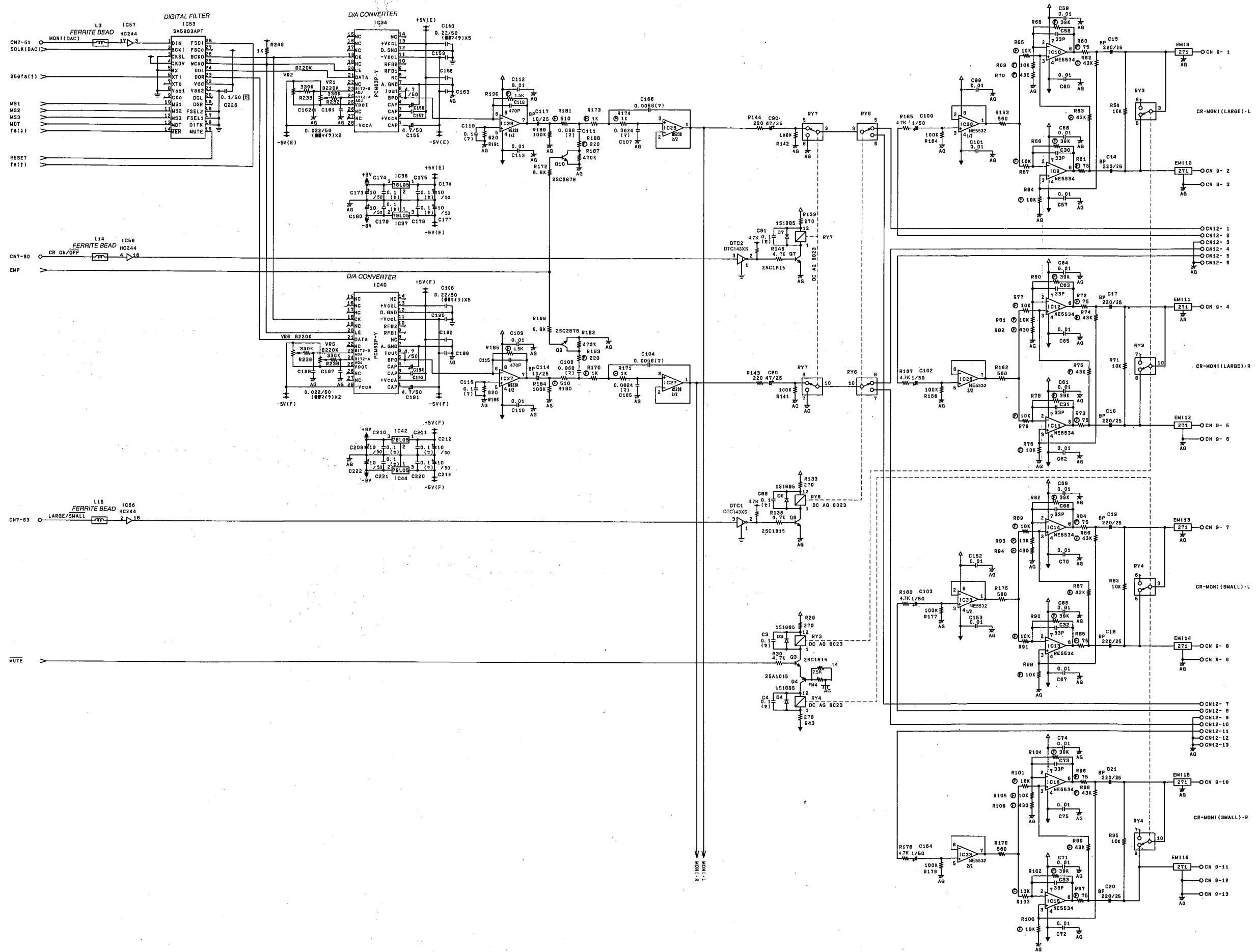
ANA 2/2 CIRCUIT DIAGRAM 1/3 (Version B)



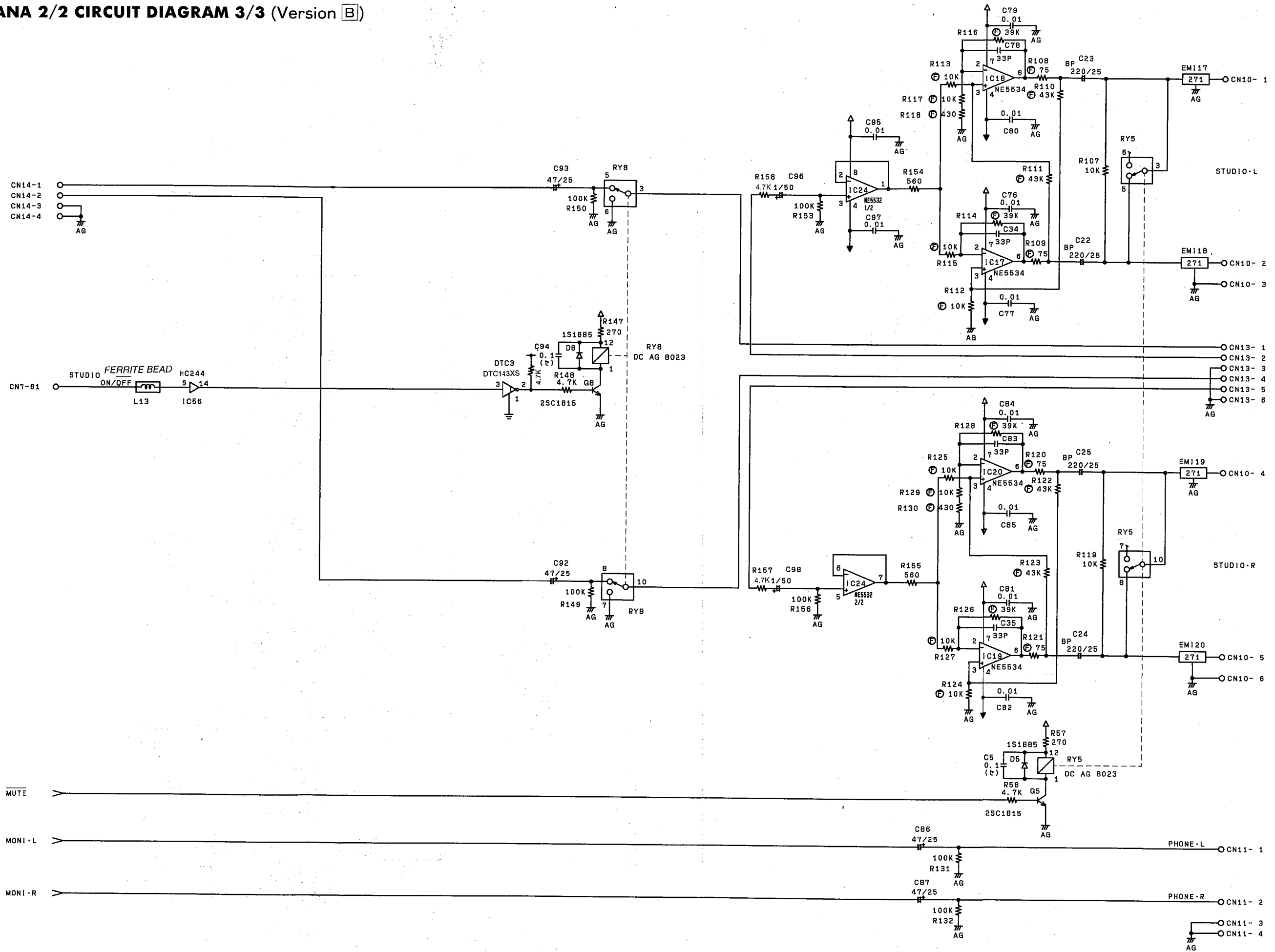
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A B C D E F G H

ANA 2/2 CIRCUIT DIAGRAM 2/3 (Version B)

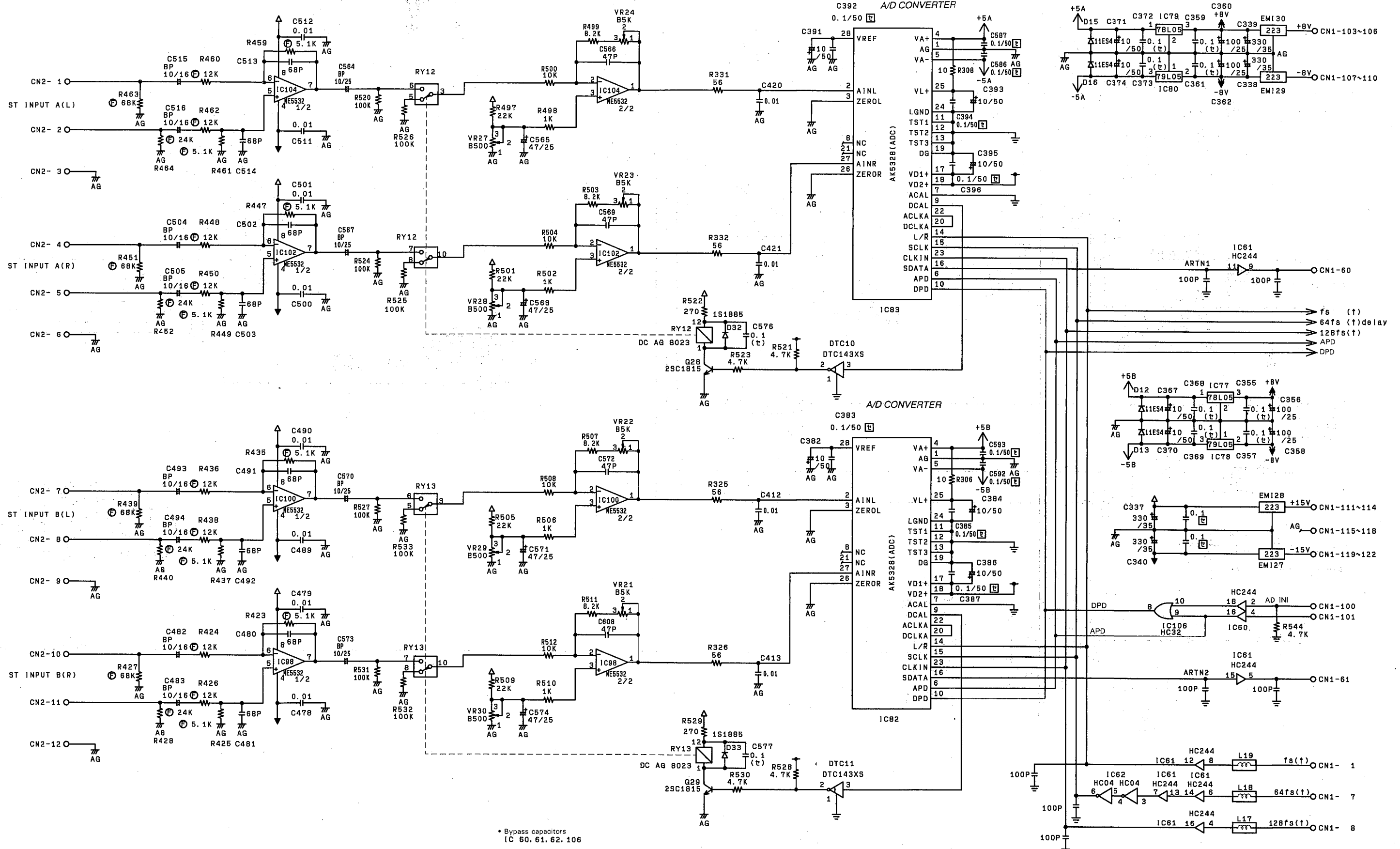


ANA 2/2 CIRCUIT DIAGRAM 3/3 (Version B)



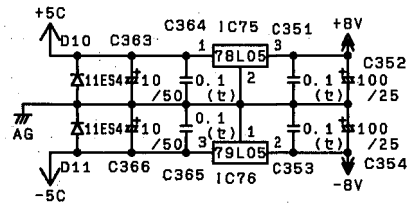
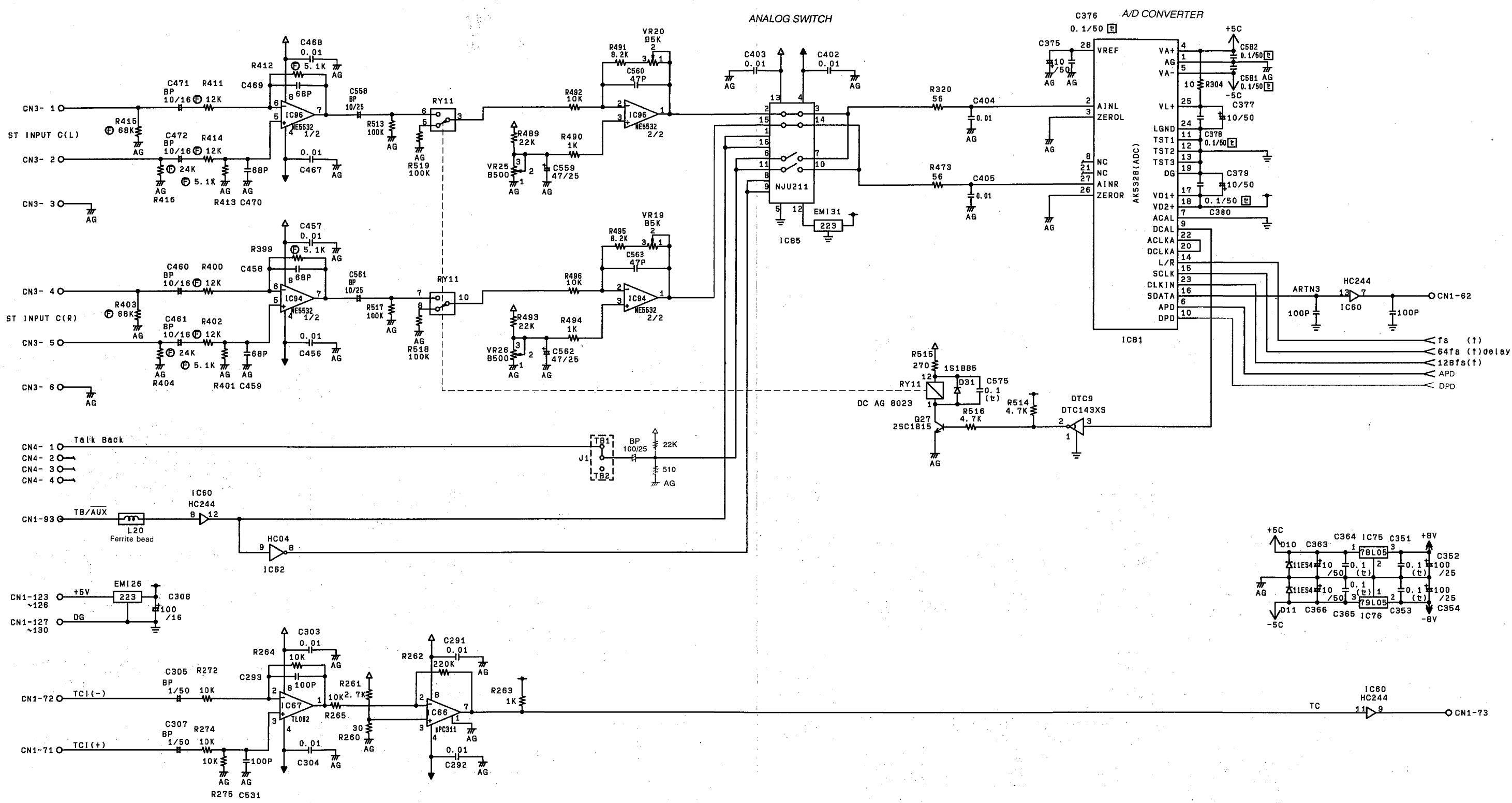
ANA 1/2 CIRCUIT DIAGRAM 1/3 (Version C)

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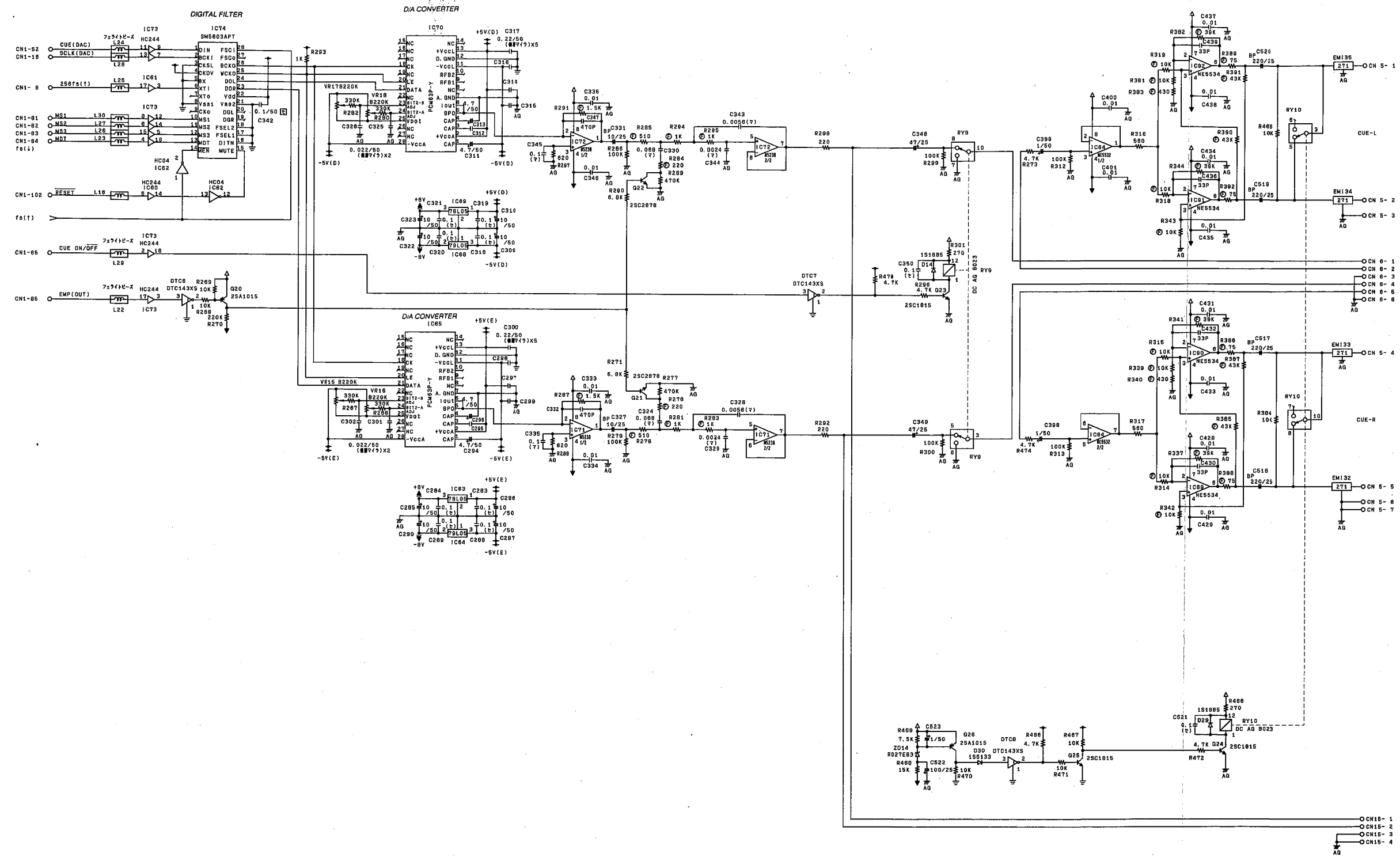


* Bypass capacitors
IC 60, 61, 62, 106

ANA 1/2 CIRCUIT DIAGRAM 2/3 (Version C)

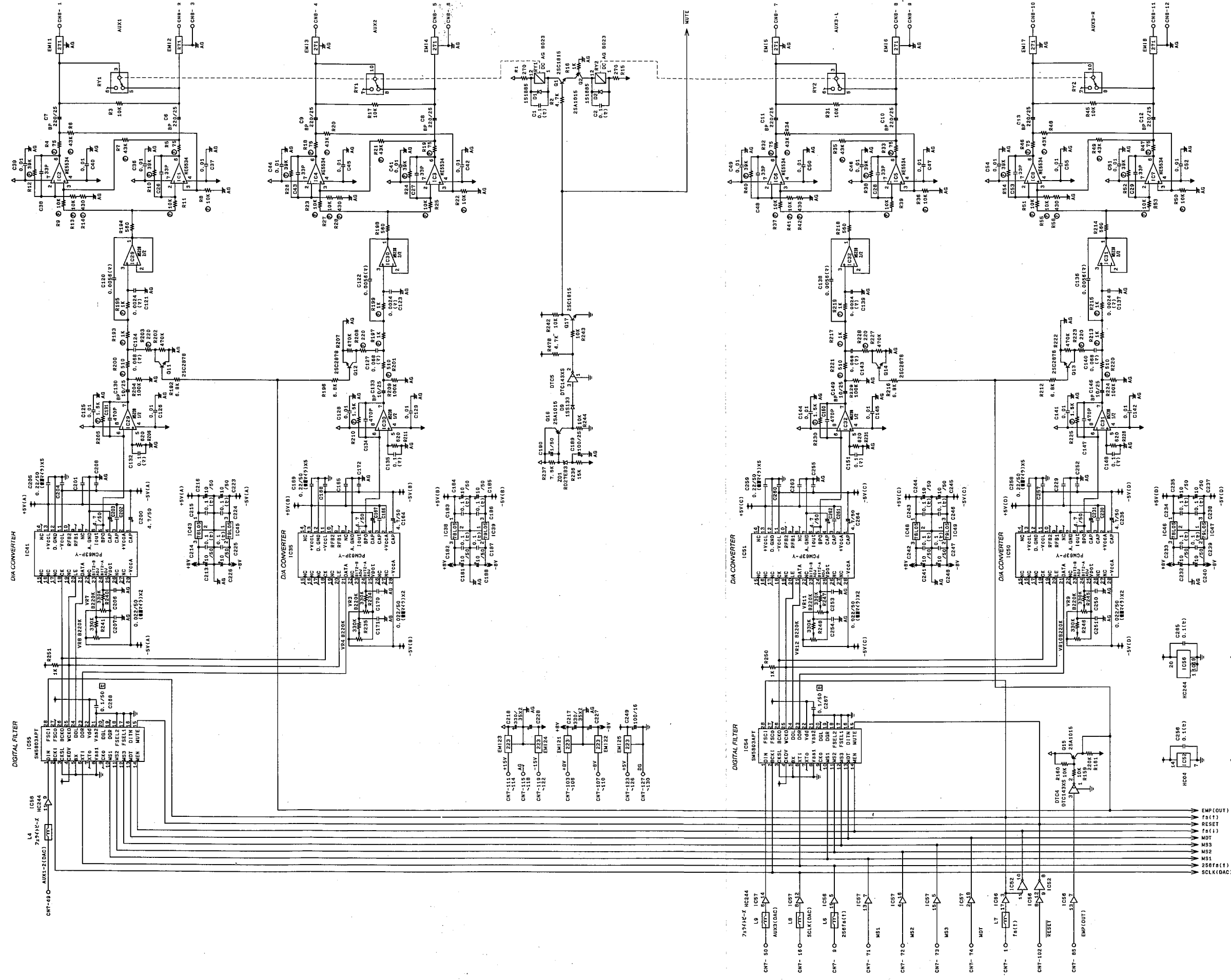


ANA 1/2 CIRCUIT DIAGRAM 3/3 (Version C)



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ANA 2/2 CIRCUIT DIAGRAM 1/3 (Version C)

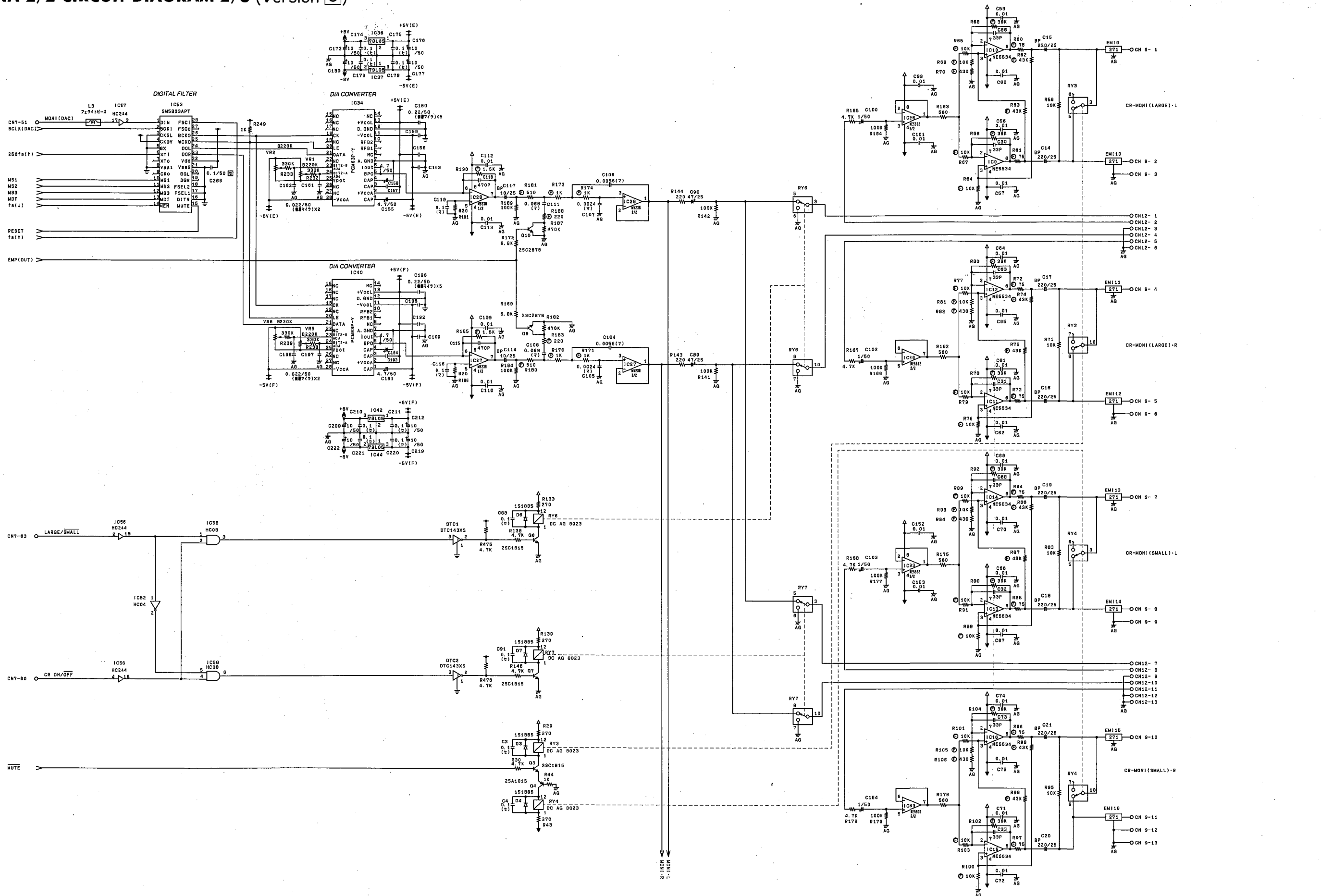


NOTE

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A B C D E F G H

ANA 2/2 CIRCUIT DIAGRAM 2/3 (Version C)



A

B

C

D

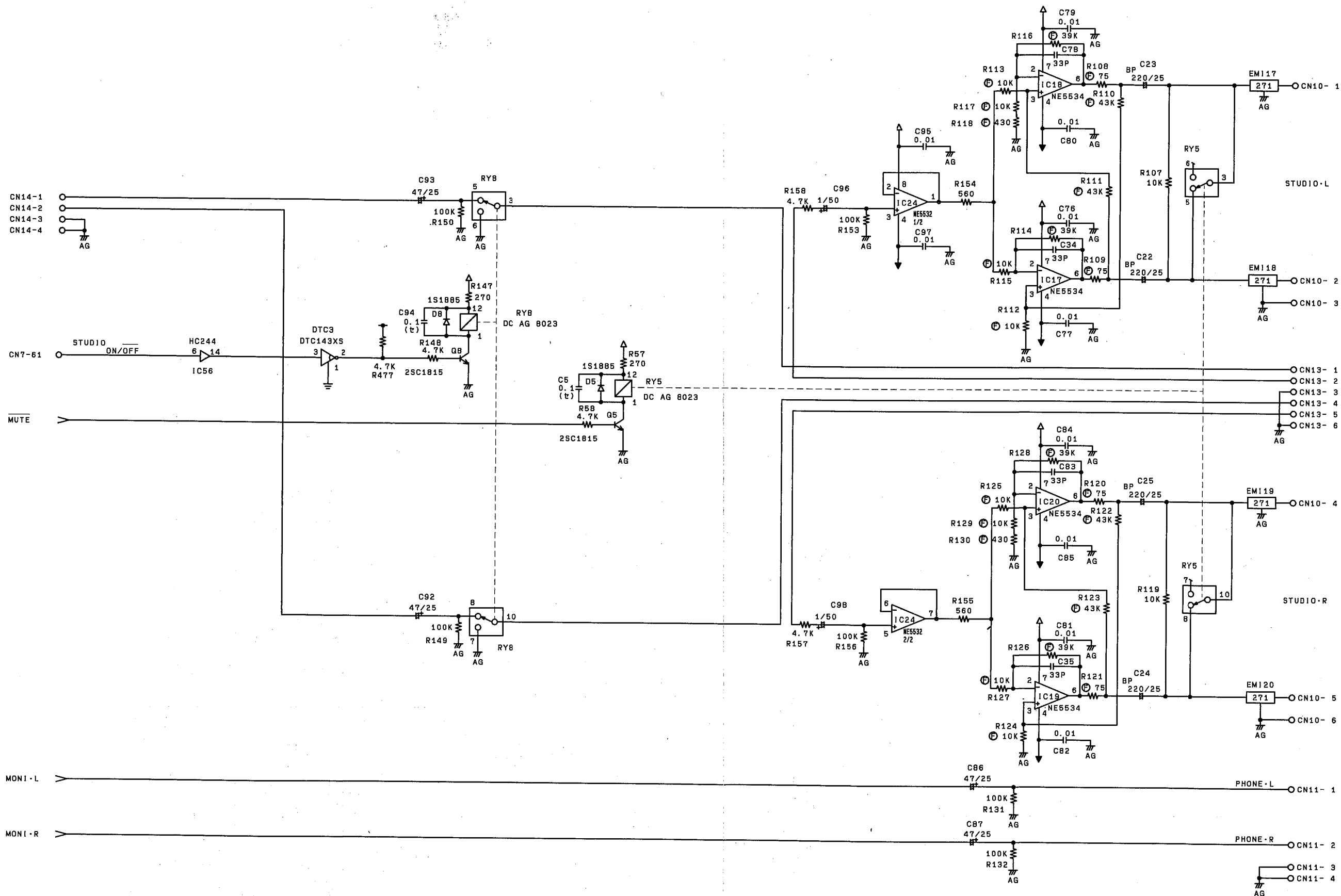
E

F

G

H

ANA 2/2 CIRCUIT DIAGRAM 3/3 (Version C)



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3

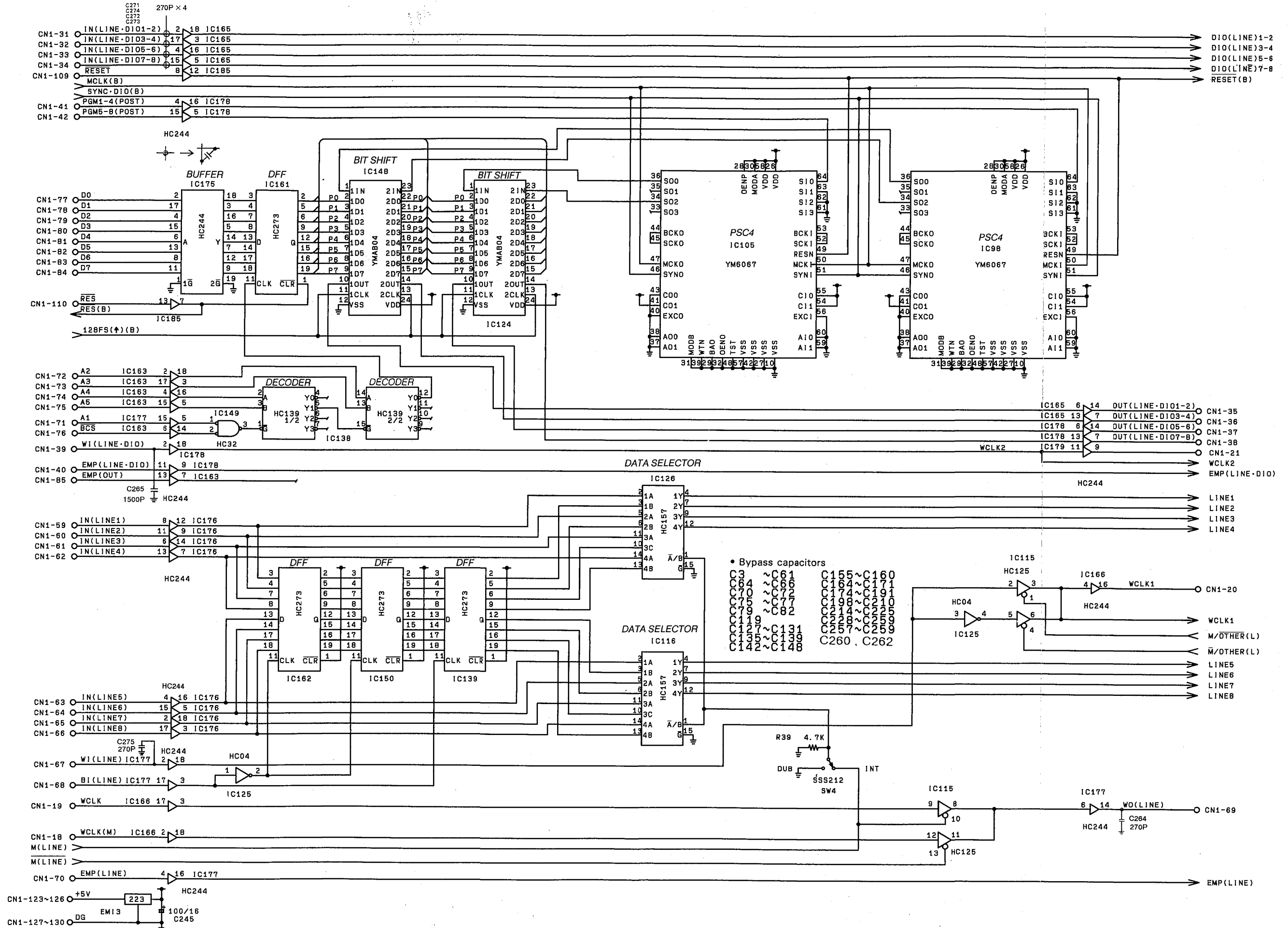
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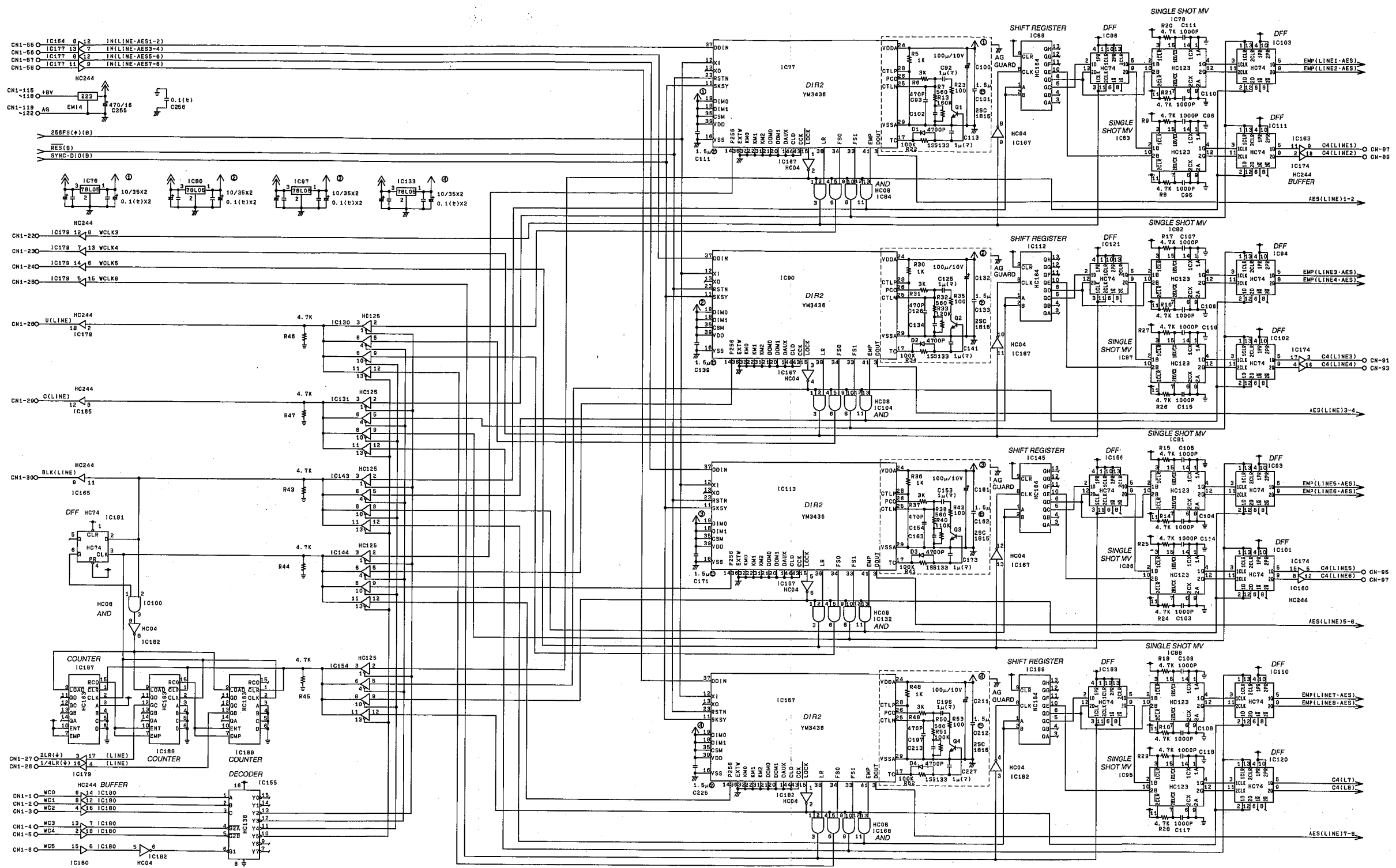
12

6

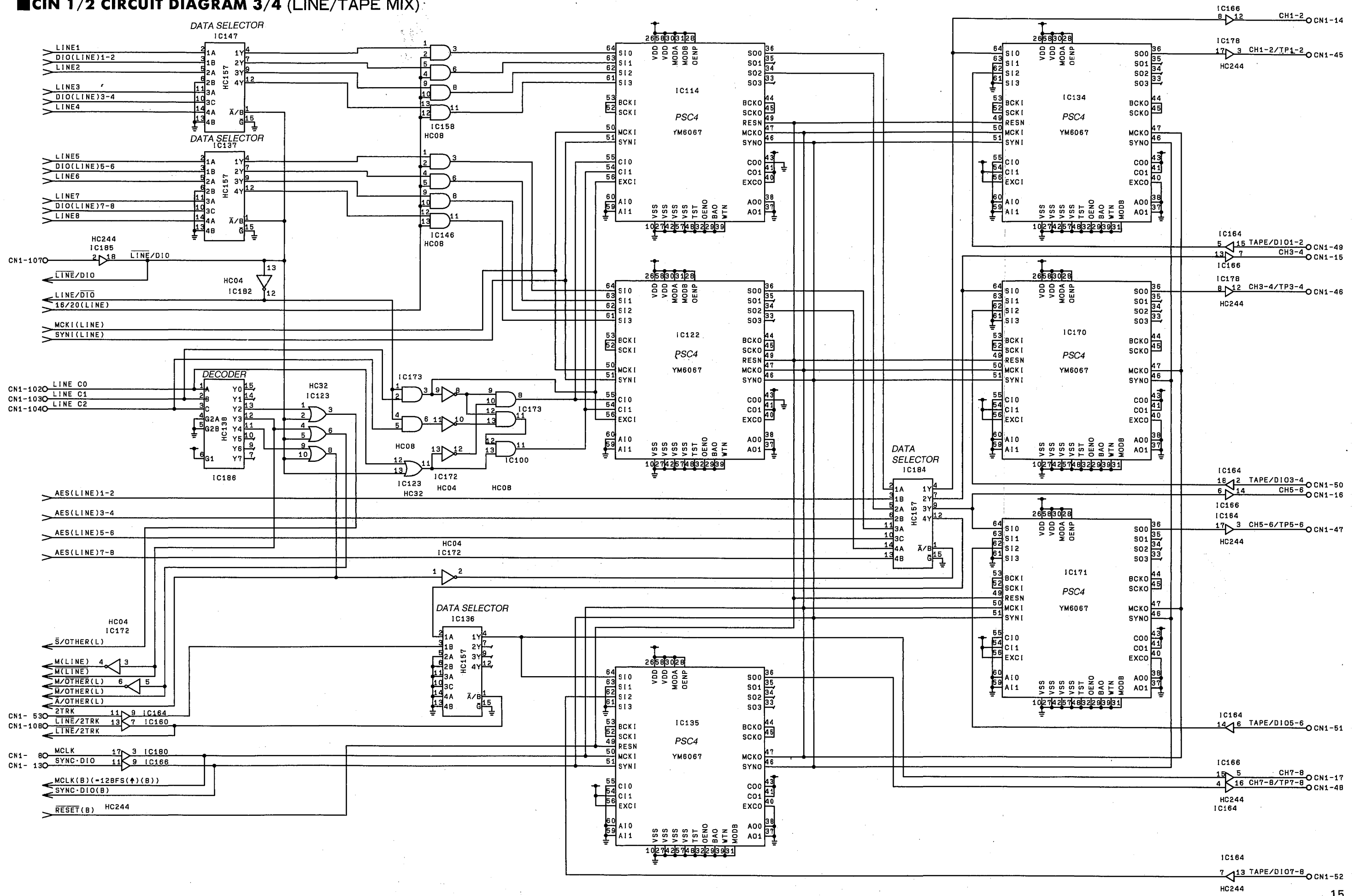
CIN 1/2 CIRCUIT DIAGRAM 1/4 (LINE IN)



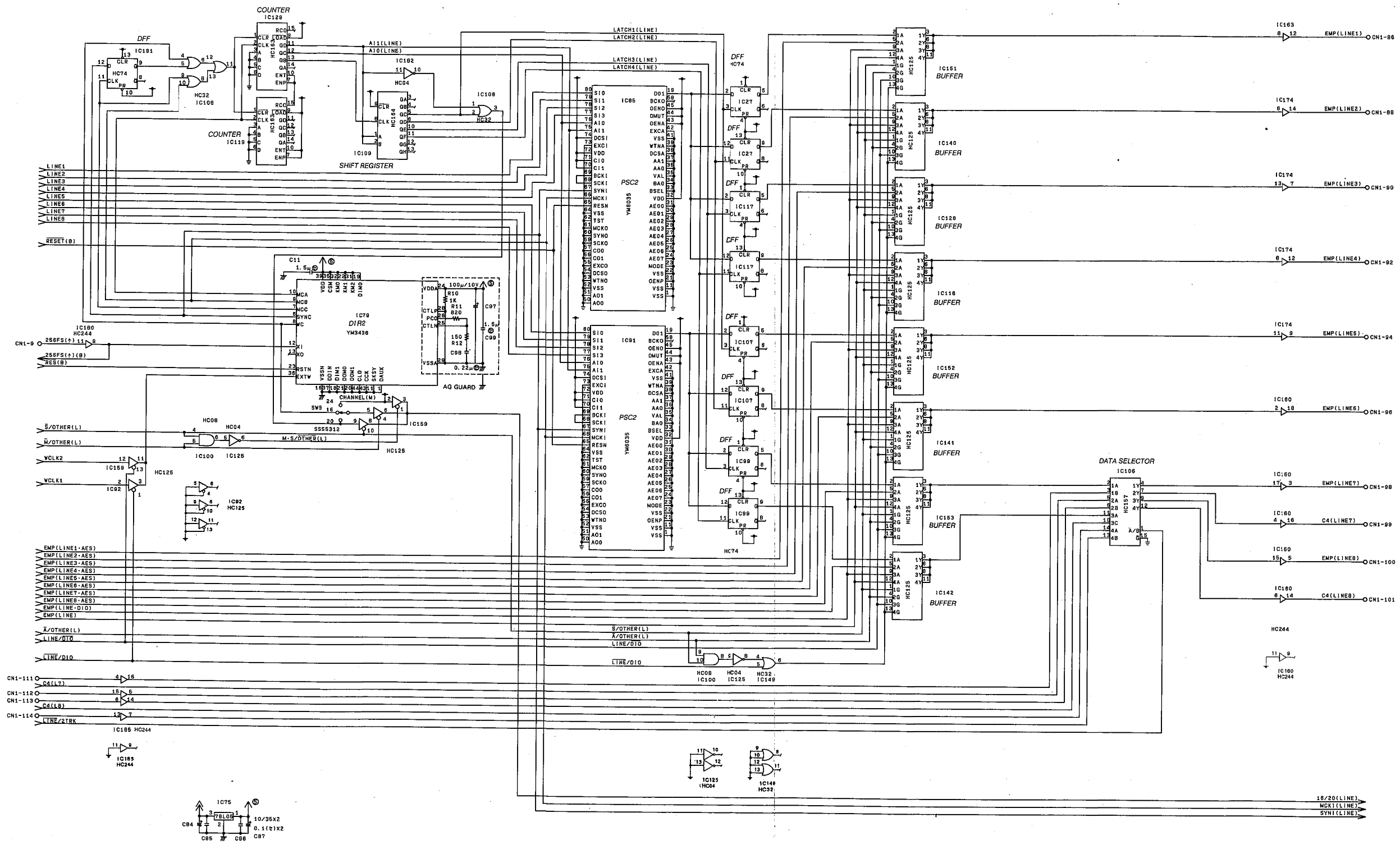
■ CIN 1/2 CIRCUIT DIAGRAM 2/4 (LINE IN (AES))



CIN 1/2 CIRCUIT DIAGRAM 3/4 (LINE/TAPE MIX)



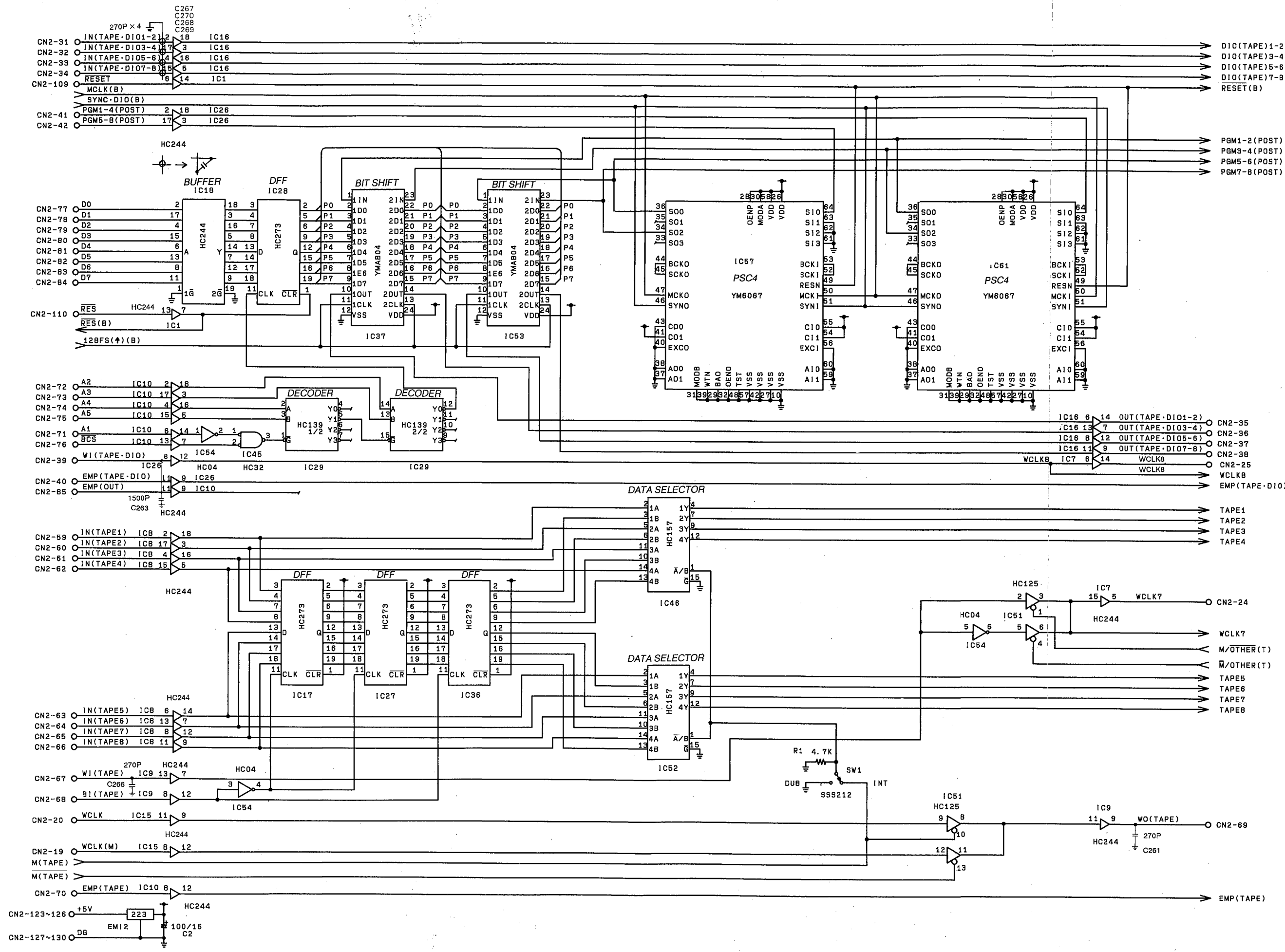
CIN 1/2 CIRCUIT DIAGRAM 4/4 (LINE IN (EMP))



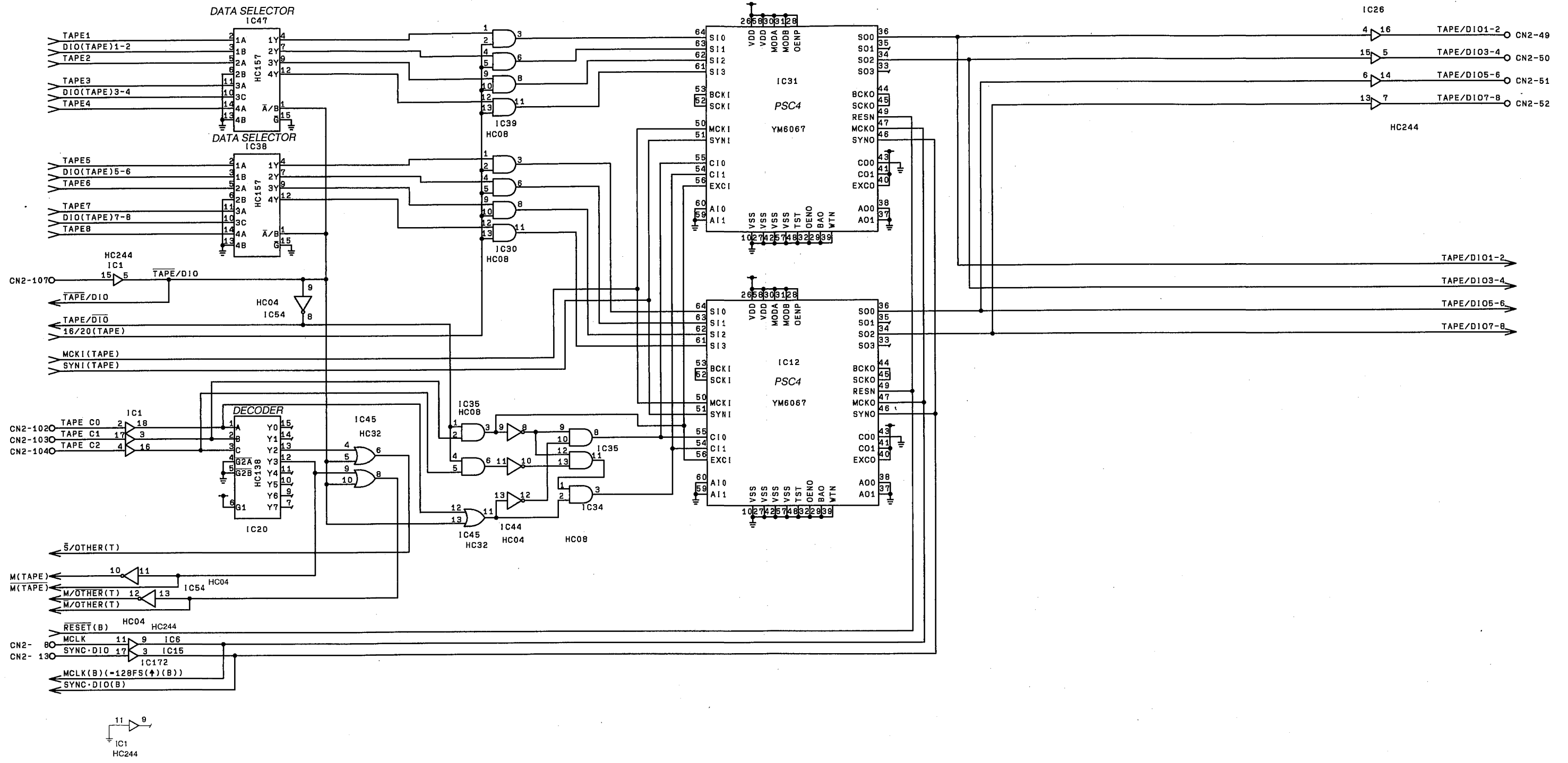
CIN 2/2 CIRCUIT DIAGRAM 1/5 (TAPE IN)

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A B C D E F G H

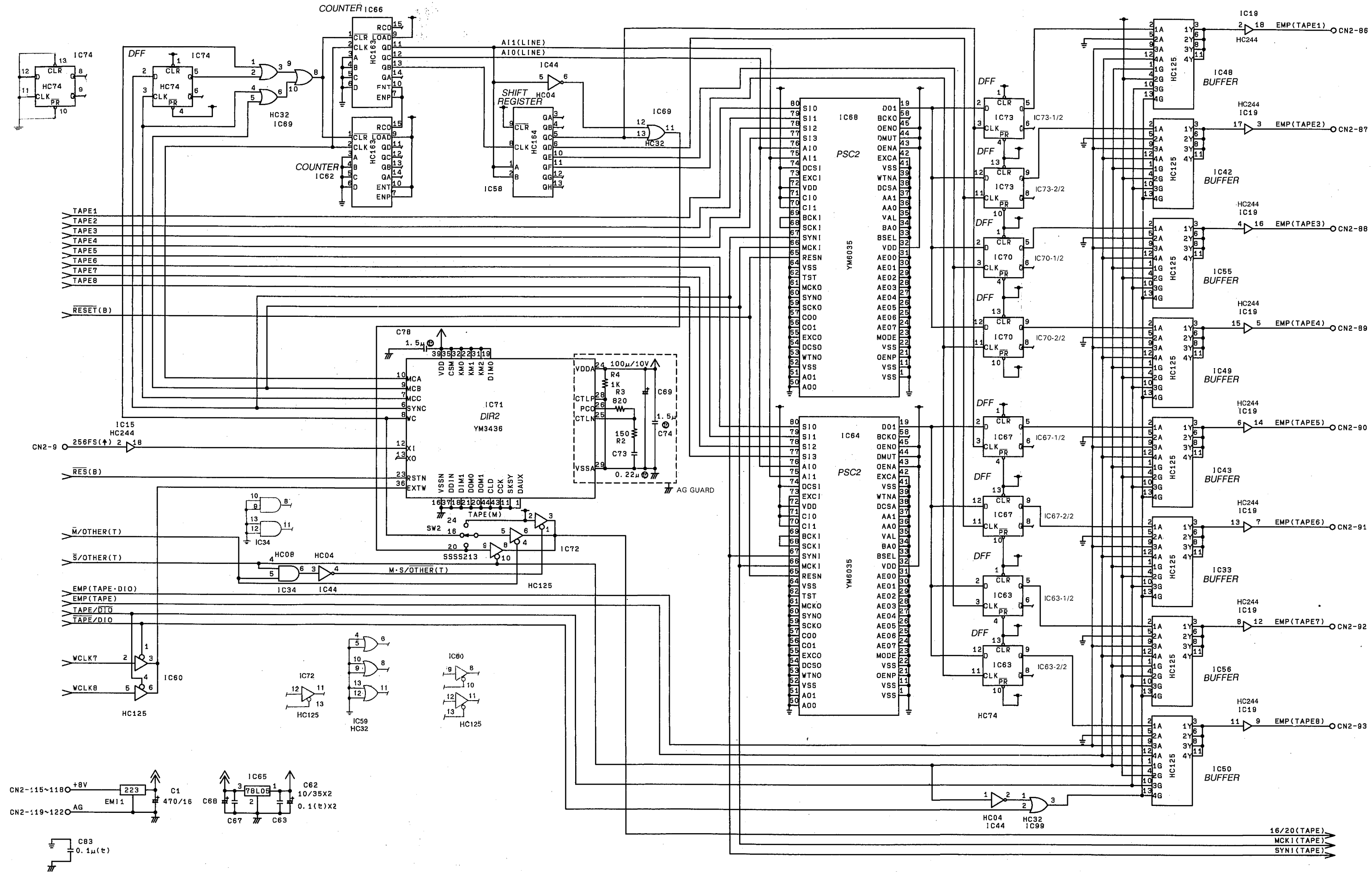


■ CIN 2/2 CIRCUIT DIAGRAM 2/5 (TAPE MIX)

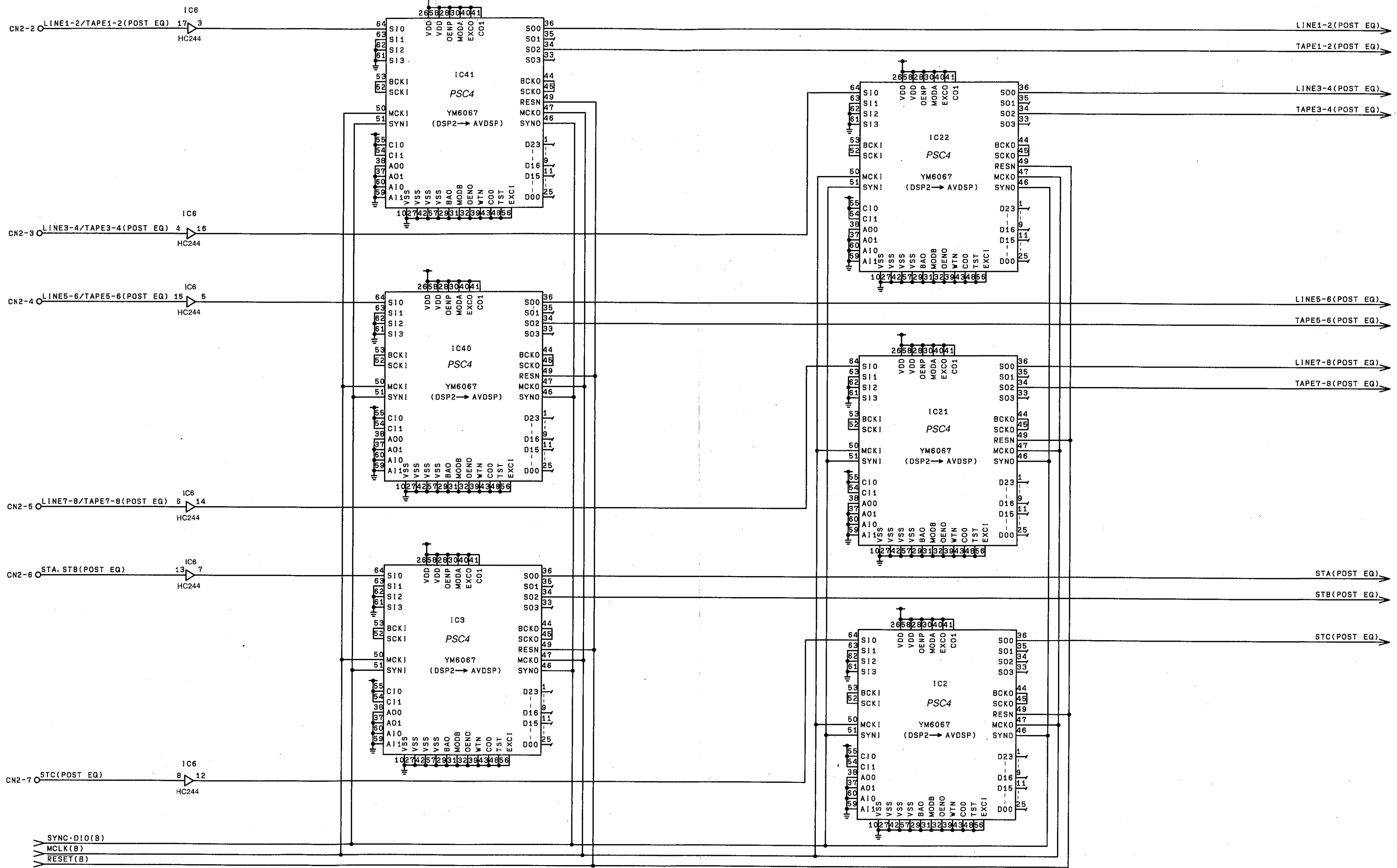


CIN 2/2 CIRCUIT DIAGRAM 3/5 (TAPE IN (EMP))

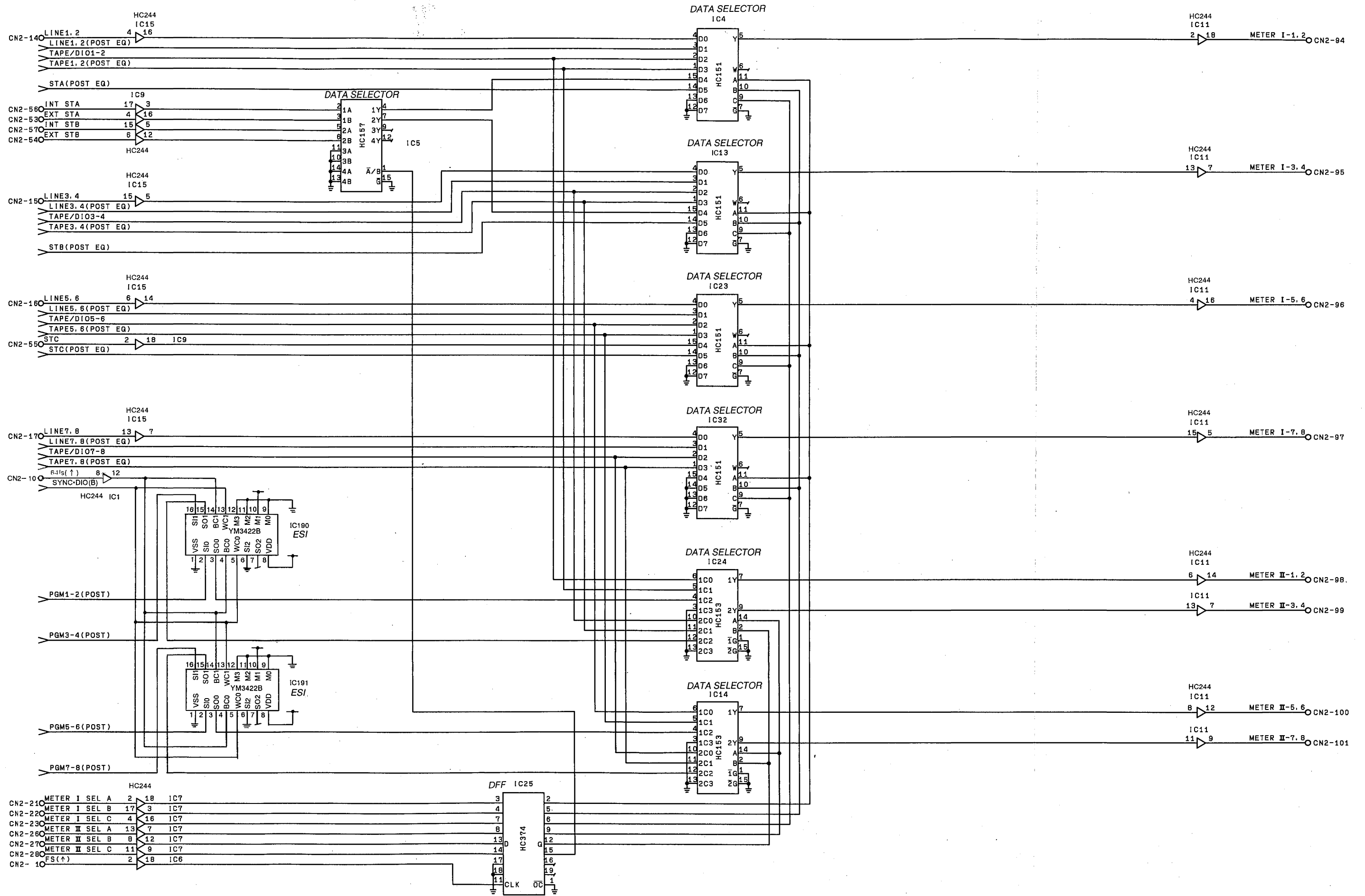
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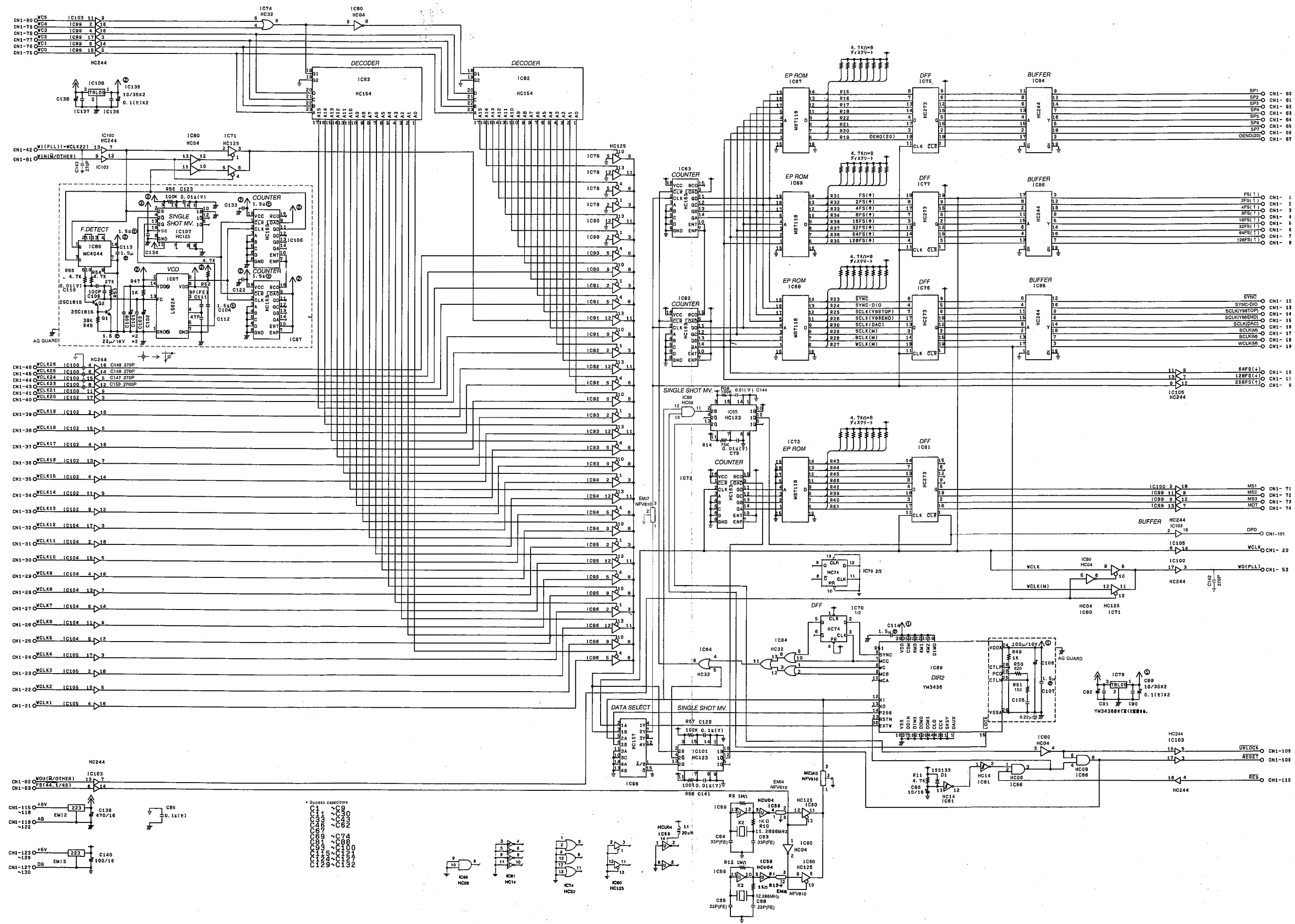
CIN 2/2 CIRCUIT DIAGRAM 4/5 (METER 1)



CIN 2/2 CIRCUIT DIAGRAM 5/5 (METER 2)

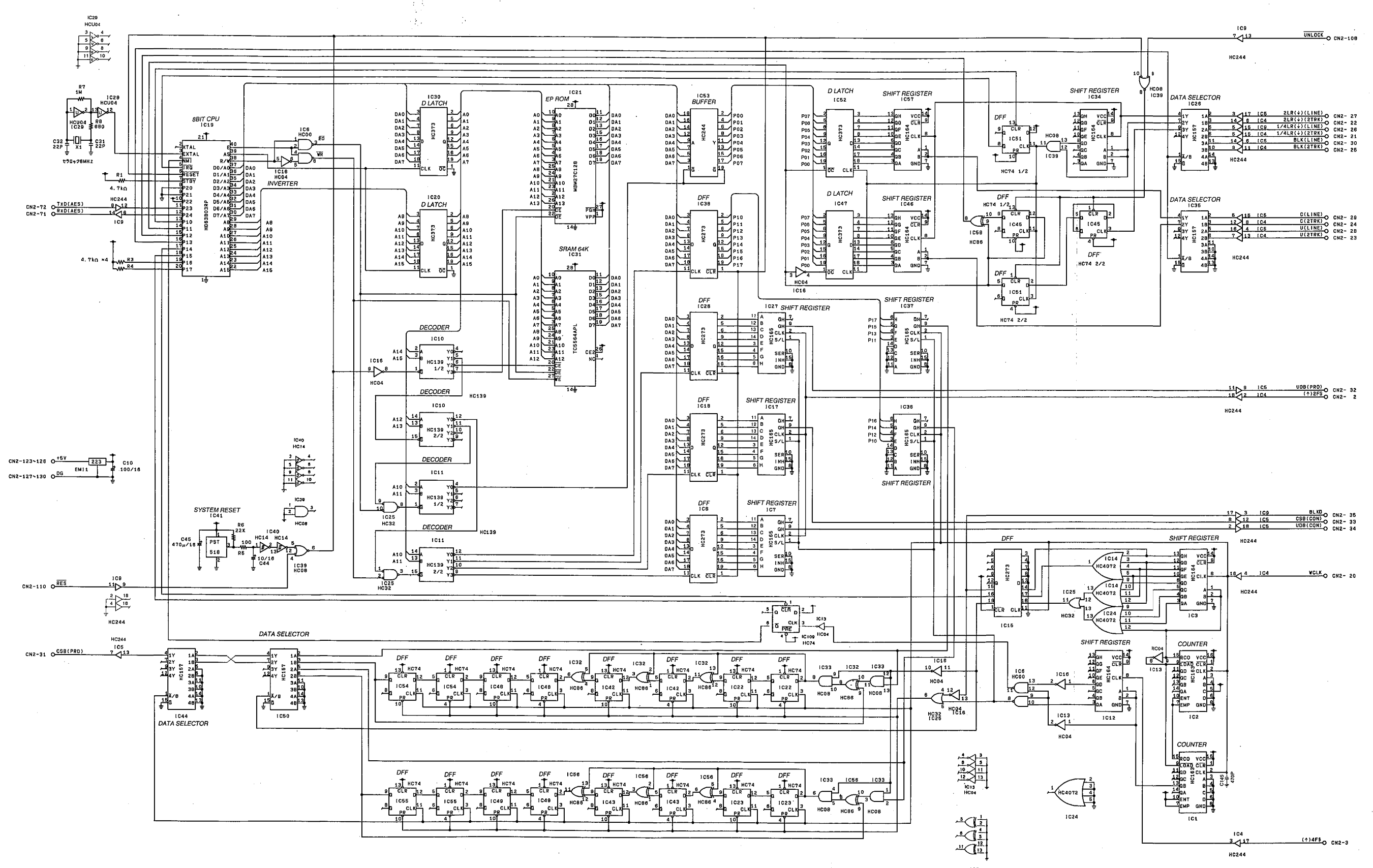


CLK 1/2 CIRCUIT DIAGRAM (MASTER PLL)

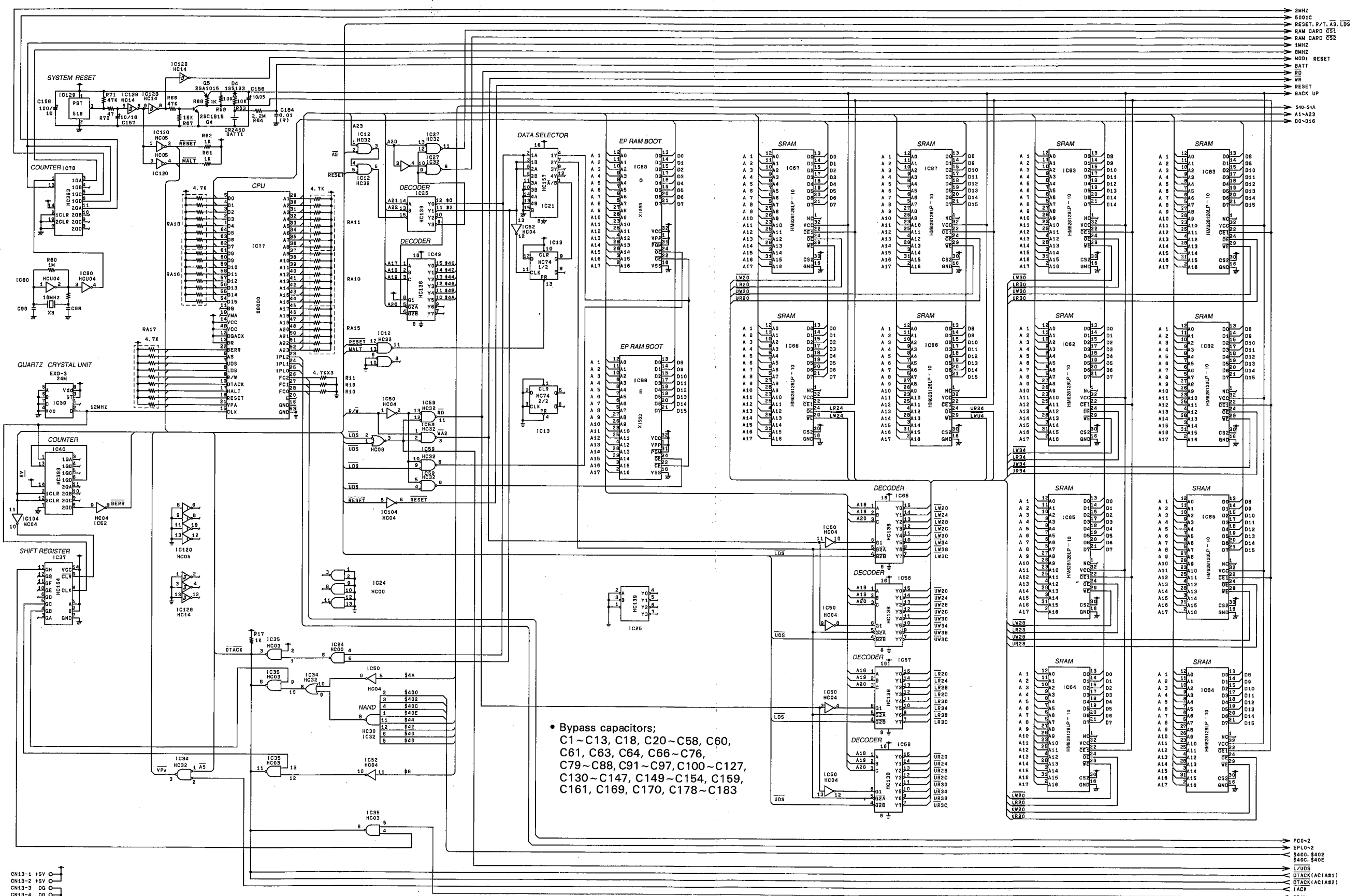


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CLK 2/2 CIRCUIT DIAGRAM (AES/EBU)



CPU CIRCUIT DIAGRAM 1/7



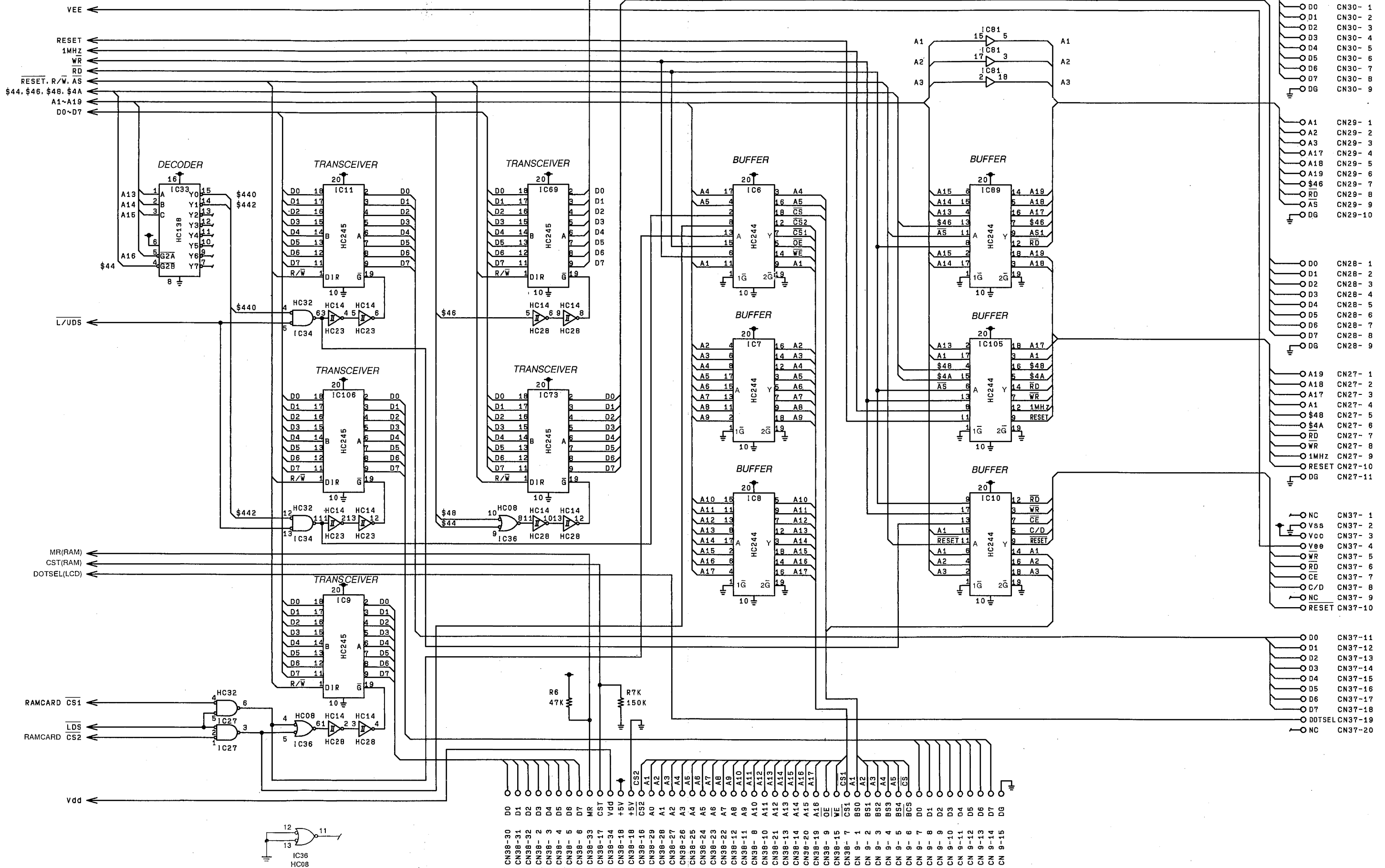
• Bypass capacitors;
 C1~C13, C18, C20~C58, C60,
 C61, C63, C64, C66~C76,
 C79~C88, C91~C97, C100~C127,
 C130~C147, C149~C154, C159,
 C161, C169, C170, C178~C183

2MHZ
 600IC
 RESET, R/T, A9, LDS
 RAM CARD CS1
 RAM CARD CS2
 1MHZ
 6MHZ
 MOD1 RESET
 BATT
 RD
 RESET
 BACK UP
 S40-S4A
 A1-A23
 D0-D16

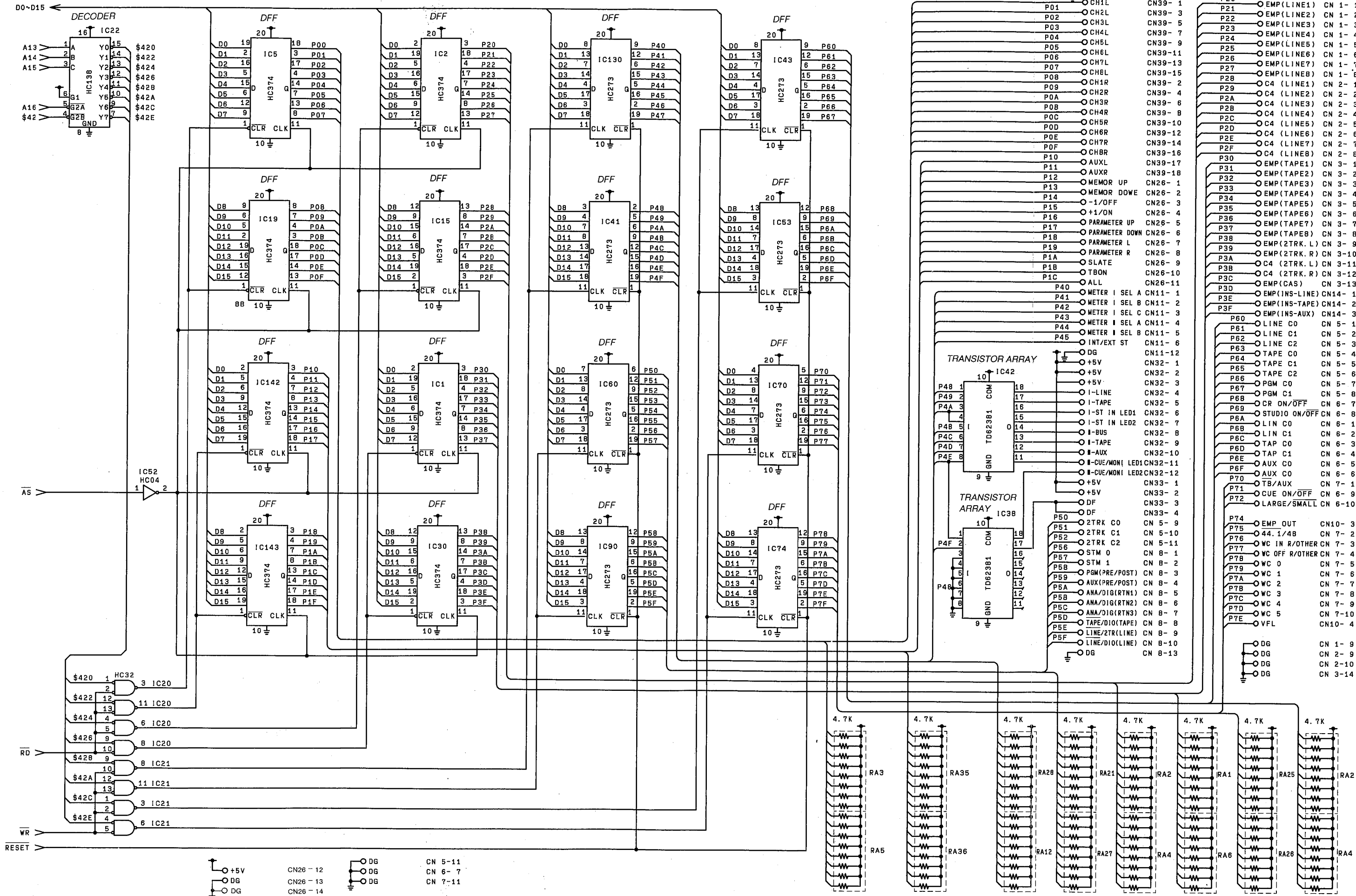
PC0-2
 EPL0-2
 \$400, \$402
 \$400, \$40E
 LVDS
 DTACK (AC1#B1)
 DTACK (AC1#B2)
 IACK
 CS404

CN13-1 +5V
 CN13-2 +5V
 CN13-3 D8
 CN13-4 D8

CPU CIRCUIT DIAGRAM 3/7

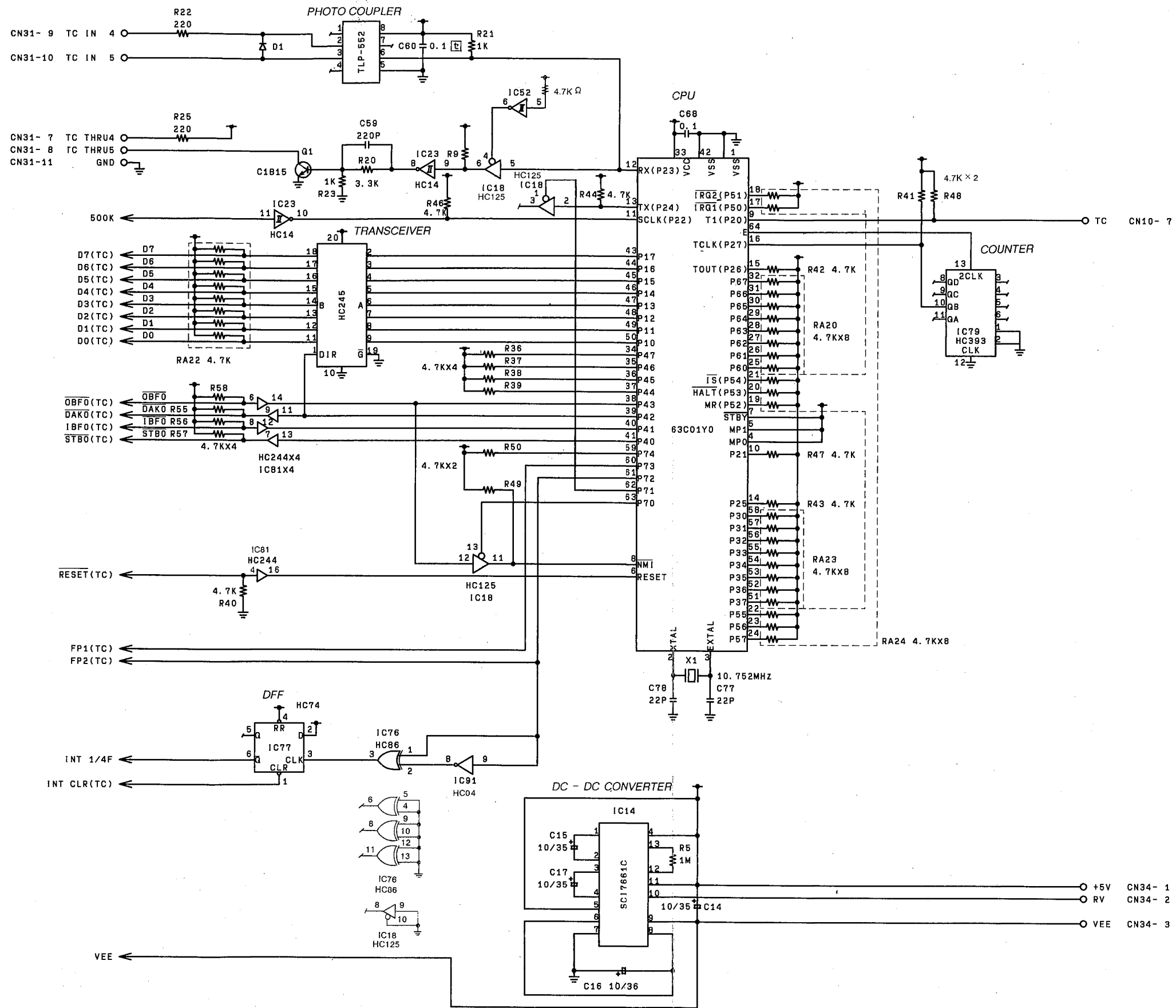


CPU CIRCUIT DIAGRAM 4/7

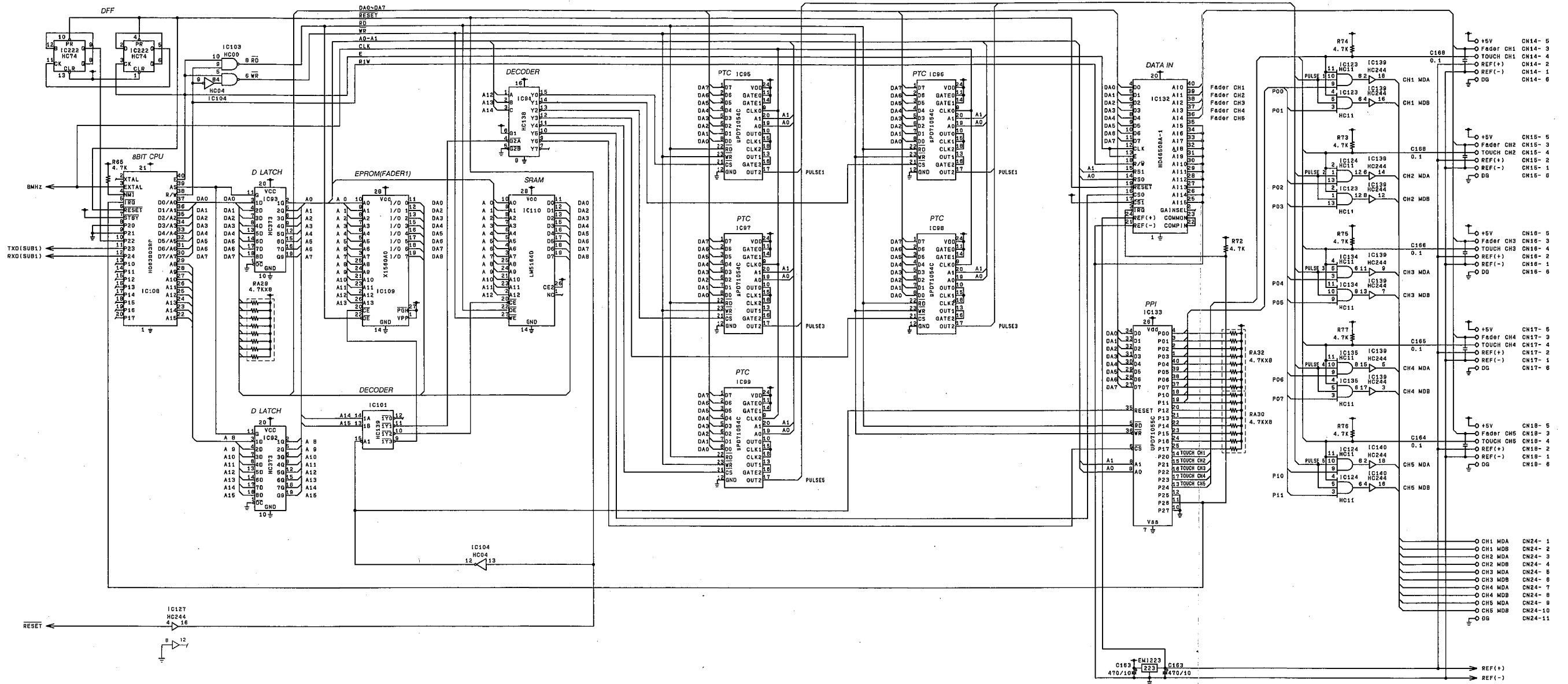


CN39-19	P20	○ EMP(LINE1)	CN 1- 1
CN39-20	P21	○ EMP(LINE2)	CN 1- 2
CN39- 1	P22	○ EMP(LINE3)	CN 1- 3
CN39- 3	P23	○ EMP(LINE4)	CN 1- 4
CN39- 5	P24	○ EMP(LINE5)	CN 1- 5
CN39- 7	P25	○ EMP(LINE6)	CN 1- 6
CN39- 9	P26	○ EMP(LINE7)	CN 1- 7
CN39-11	P27	○ EMP(LINE8)	CN 1- 8
CN39-13	P28	○ EMP(LINE9)	CN 1- 9
CN39-15	P29	○ EMP(LINE10)	CN 1-10
CN39- 2	P2A	○ C4 (LINE1)	CN 2- 1
CN39- 4	P2B	○ C4 (LINE2)	CN 2- 2
CN39- 6	P2C	○ C4 (LINE3)	CN 2- 3
CN39- 8	P2D	○ C4 (LINE4)	CN 2- 4
CN39-10	P2E	○ C4 (LINE5)	CN 2- 5
CN39-12	P2F	○ C4 (LINE6)	CN 2- 6
CN39-14	P2G	○ C4 (LINE7)	CN 2- 7
CN39-16	P2H	○ C4 (LINE8)	CN 2- 8
CN39-17	P2I	○ EMP(TAPE1)	CN 3- 1
CN39-18	P2J	○ EMP(TAPE2)	CN 3- 2
CN26- 1	P2K	○ EMP(TAPE3)	CN 3- 3
CN26- 2	P2L	○ EMP(TAPE4)	CN 3- 4
CN26- 3	P2M	○ EMP(TAPE5)	CN 3- 5
CN26- 4	P2N	○ EMP(TAPE6)	CN 3- 6
CN26- 5	P2O	○ EMP(TAPE7)	CN 3- 7
CN26- 6	P2P	○ EMP(TAPE8)	CN 3- 8
CN26- 7	P2Q	○ EMP(2TRK. L)	CN 3- 9
CN26- 8	P2R	○ EMP(2TRK. R)	CN 3-10
CN26- 9	P2S	○ C4 (2TRK. L)	CN 3-11
CN26-10	P2T	○ C4 (2TRK. R)	CN 3-12
CN26-11	P2U	○ EMP(CAS)	CN 3-13
CN26-12	P2V	○ EMP(INS-LINE)	CN14- 1
CN39- 1	P2W	○ EMP(INS-TAPE)	CN14- 2
CN39- 3	P2X	○ EMP(INS-AUX)	CN14- 3
CN11-12	P2Y	○ LINE C0	CN 5- 1
CN32- 1	P2Z	○ LINE C1	CN 5- 2
CN32- 2	P2AA	○ TAPE C0	CN 5- 3
CN32- 3	P2AB	○ TAPE C1	CN 5- 4
CN32- 4	P2AC	○ TAPE C2	CN 5- 5
CN32- 5	P2AD	○ PGM C0	CN 5- 6
CN32- 6	P2AE	○ PGM C1	CN 5- 7
CN32- 7	P2AF	○ CR ON/OFF	CN 6- 7
CN32- 8	P2AG	○ STUDIO ON/OFF	CN 6- 8
CN32- 9	P2AH	○ LIN C0	CN 6- 1
CN32-10	P2AI	○ LIN C1	CN 6- 2
CN32-11	P2AJ	○ TAP C0	CN 6- 3
CN32-12	P2AK	○ TAP C1	CN 6- 4
CN33- 1	P2AL	○ AUX C0	CN 6- 5
CN33- 2	P2AM	○ AUX C1	CN 6- 6
CN33- 3	P2AN	○ TB/AUX	CN 7- 1
CN33- 4	P2AO	○ CUE ON/OFF	CN 6- 9
CN 5- 9	P2AP	○ LARGE/SMALL	CN 6-10
CN 5-10	P2AQ	○ EMP OUT	CN10- 3
CN 5-11	P2AR	○ 44.1/48	CN 7- 2
CN 8- 1	P2AS	○ WC IN R/OTHER	CN 7- 3
CN 8- 2	P2AT	○ WC OFF R/OTHER	CN 7- 4
CN 8- 3	P2AU	○ WC 0	CN 7- 5
CN 8- 4	P2AV	○ WC 1	CN 7- 6
CN 8- 5	P2AW	○ WC 2	CN 7- 7
CN 8- 6	P2AX	○ WC 3	CN 7- 8
CN 8- 7	P2AY	○ WC 4	CN 7- 9
CN 8- 8	P2AZ	○ WC 5	CN 7-10
CN 8- 9	P2BA	○ VFL	CN10- 4
CN 8-10	P2BB	○ DG	CN 1- 9
CN 8-11	P2BC	○ DG	CN 2- 9
CN 8-12	P2BD	○ DG	CN 2-10
CN 8-13	P2BE	○ DG	CN 3-14

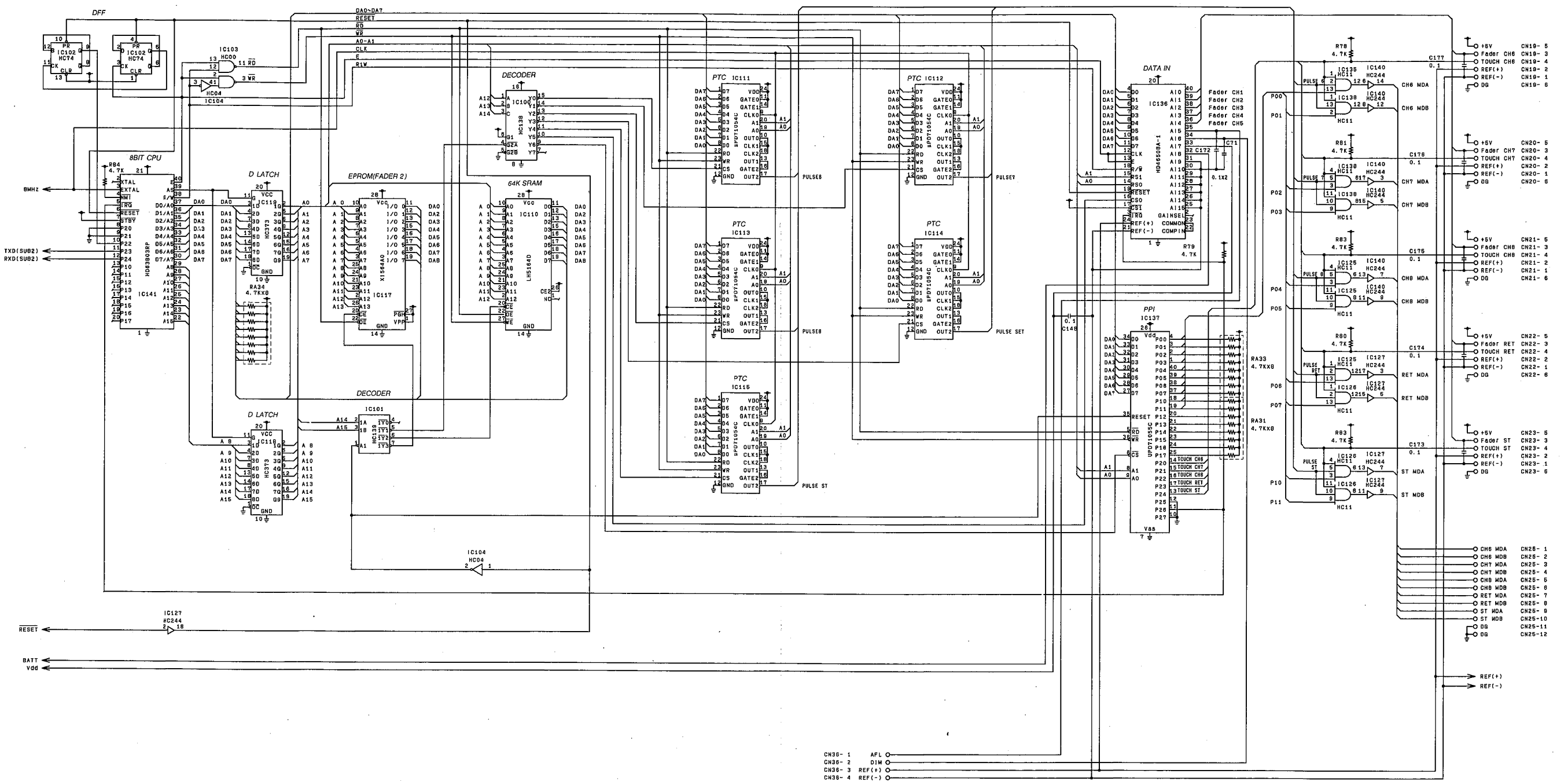
■ CPU CIRCUIT DIAGRAM 5/7



■ CPU CIRCUIT DIAGRAM 6/7



■ CPU CIRCUIT DIAGRAM 7/7



CN36- 1 AFL
 CN36- 2 DIM
 CN36- 3 REF(+)
 CN36- 4 REF(-)

CH6 MDA CN25- 1
 CH6 MDB CN25- 2
 CH7 MDA CN25- 3
 CH7 MDB CN25- 4
 CH8 MDA CN25- 5
 CH8 MDB CN25- 6
 RET MDA CN25- 7
 RET MDB CN25- 8
 ST MDA CN25- 9
 ST MDB CN25- 10
 DG CN25- 11
 DG CN25- 12

+5V FADER CH1 CN20- 5
 +5V FADER CH2 CN20- 6
 TOUCH CH1 CN20- 3
 REF(+) CN20- 2
 REF(-) CN20- 1
 DG CN20- 8

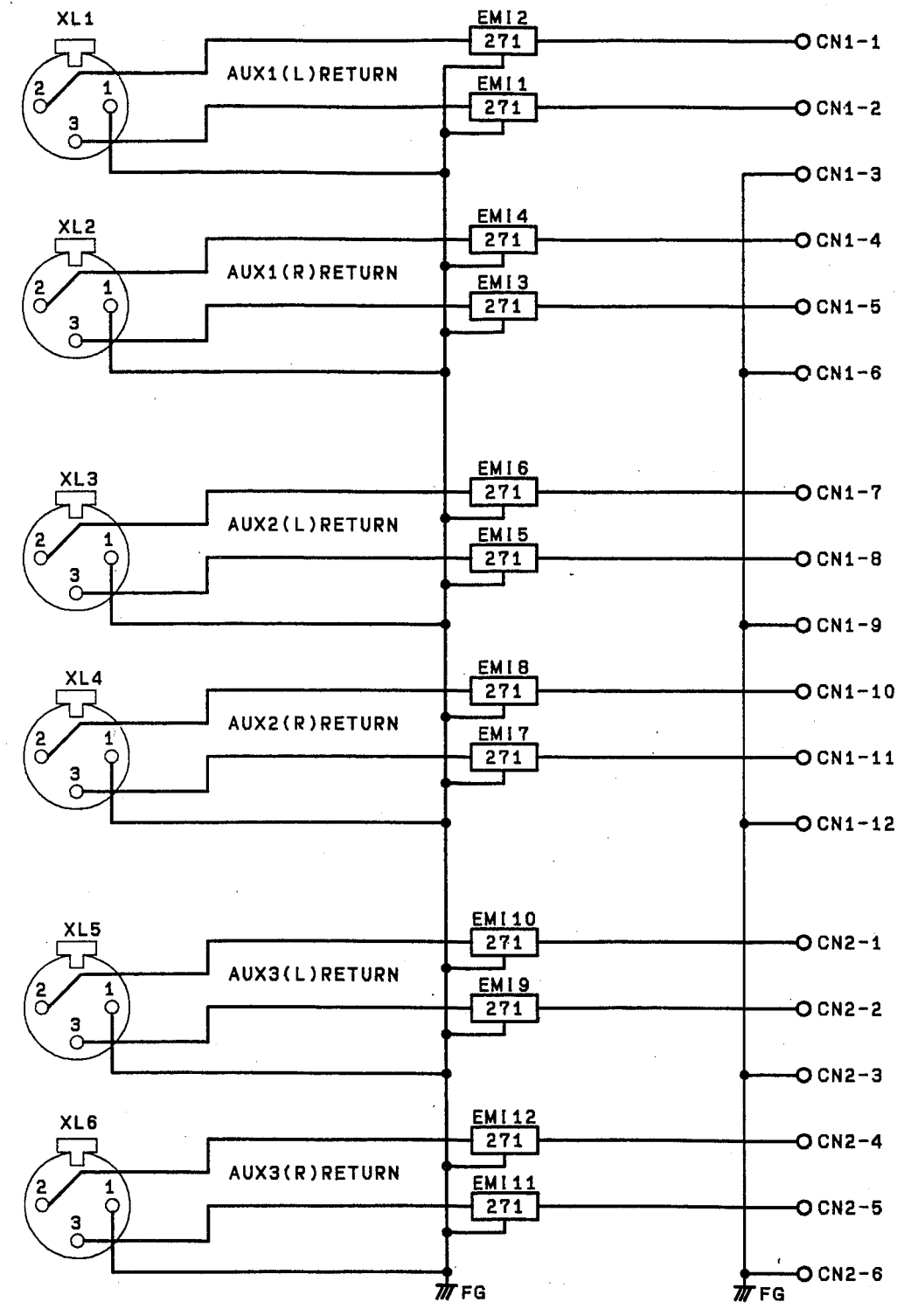
+5V FADER CH3 CN21- 5
 TOUCH CH3 CN21- 3
 REF(+) CN21- 2
 REF(-) CN21- 1
 DG CN21- 6

+5V FADER CH4 CN19- 5
 TOUCH CH4 CN19- 3
 REF(+) CN19- 2
 REF(-) CN19- 1
 DG CN19- 8

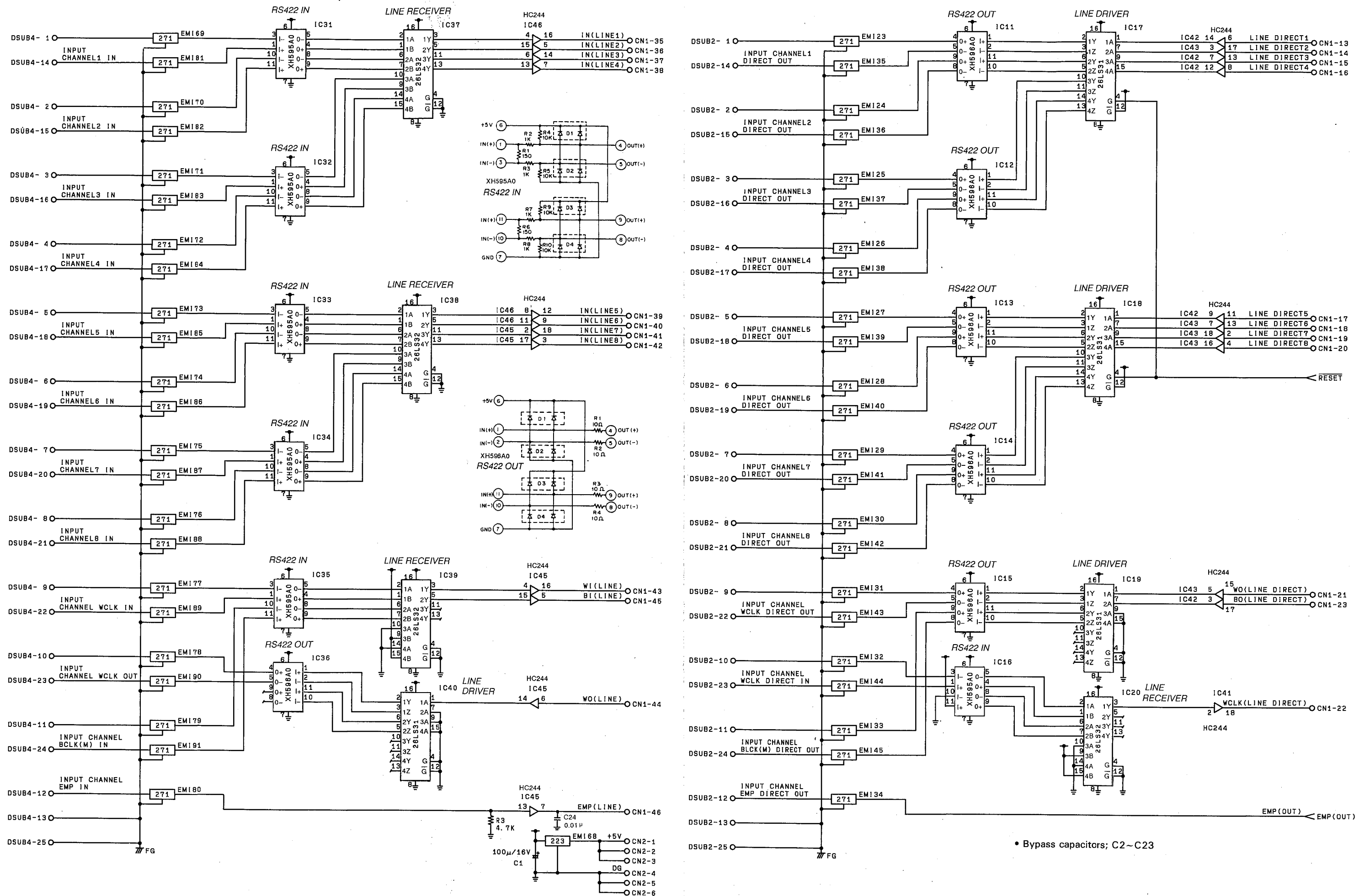
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■ CRA CIRCUIT DIAGRAM (ANALOG IN)

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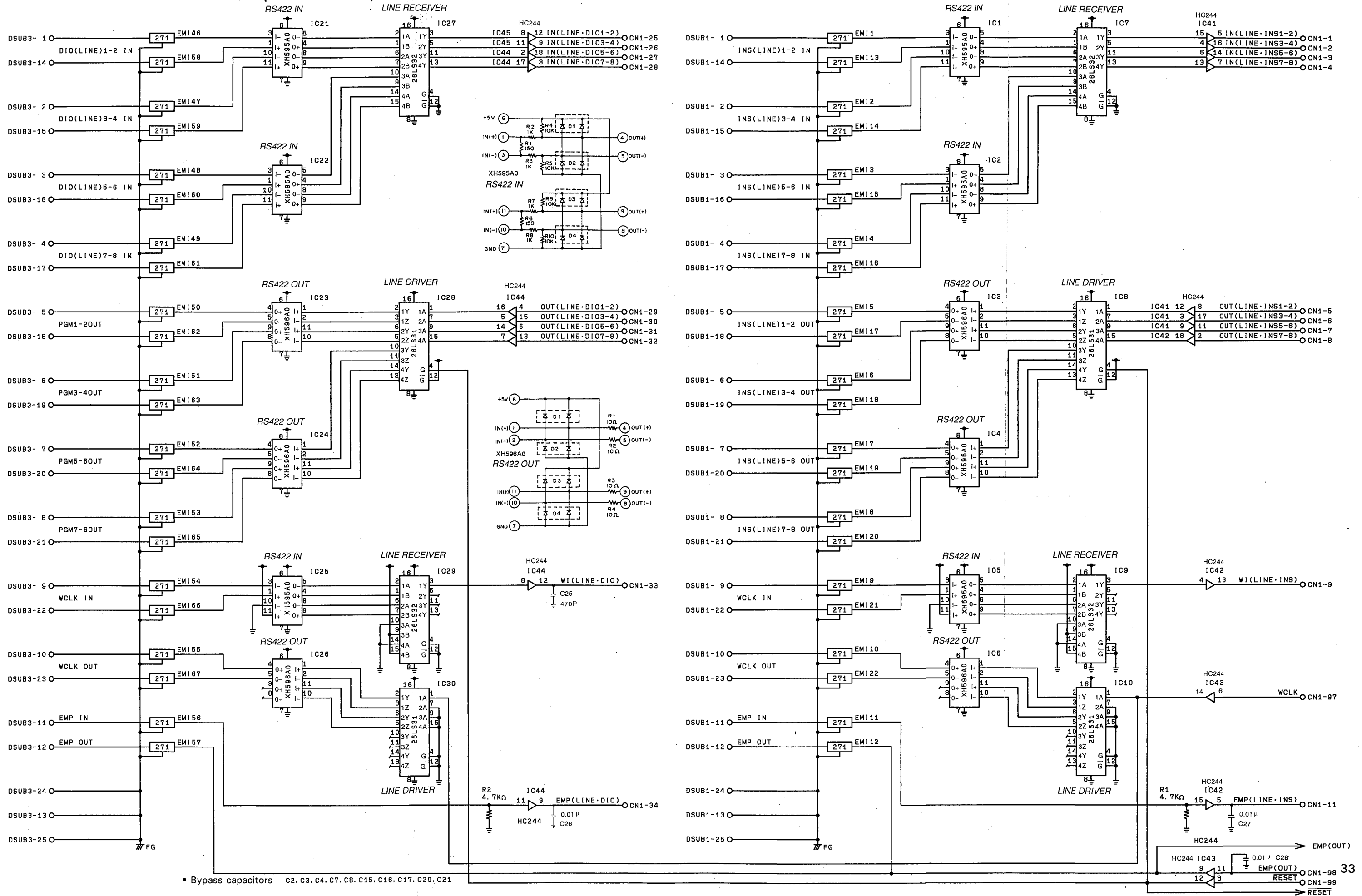


CRC CIRCUIT DIAGRAM 1/2 (LINE IN/DIR)

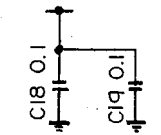
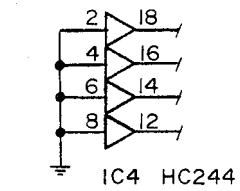
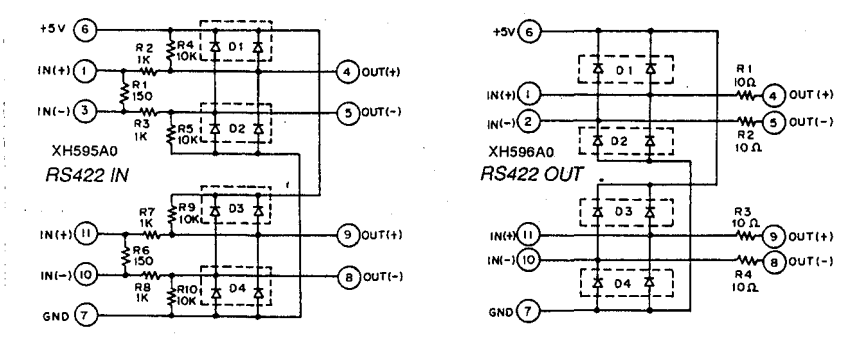
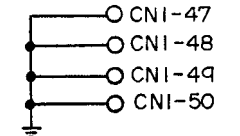
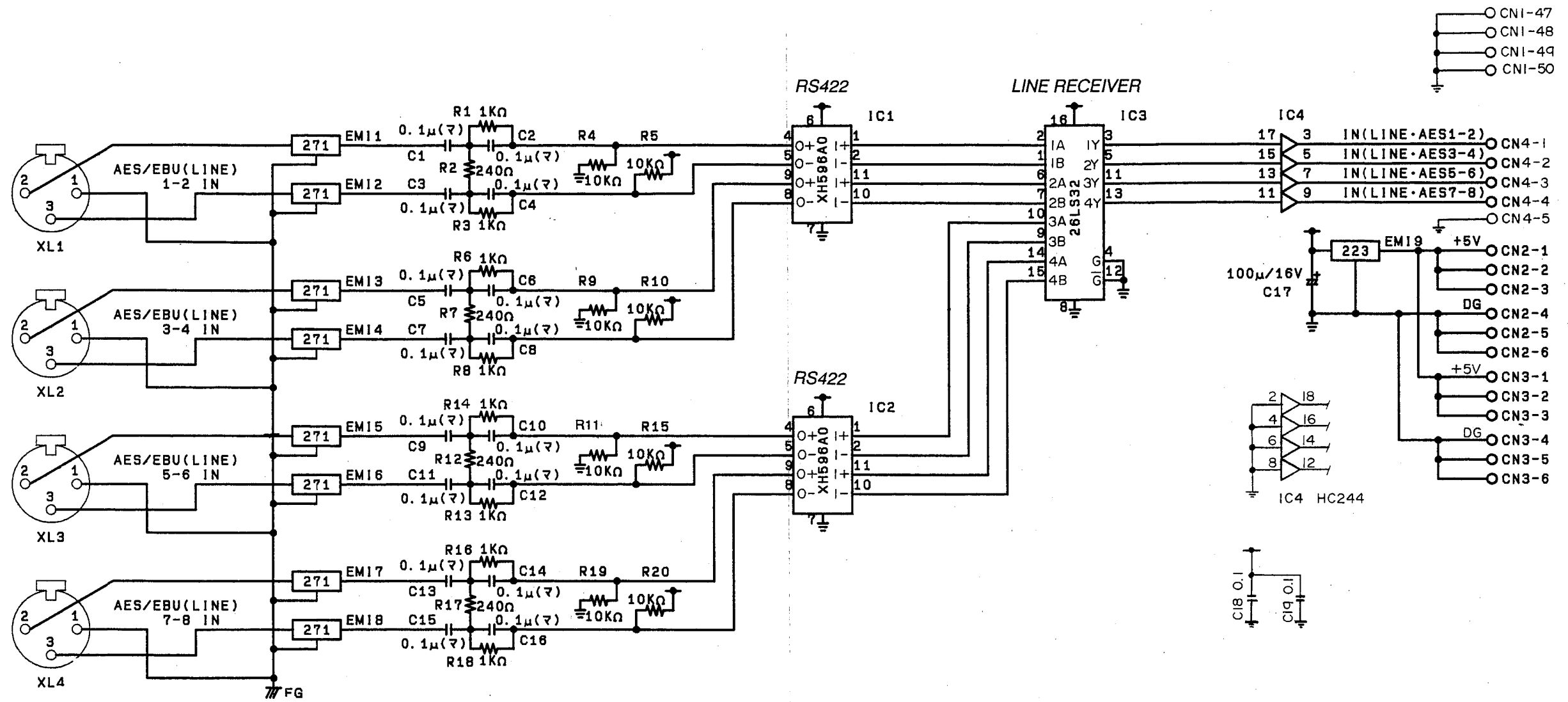


• Bypass capacitors: C2-C23

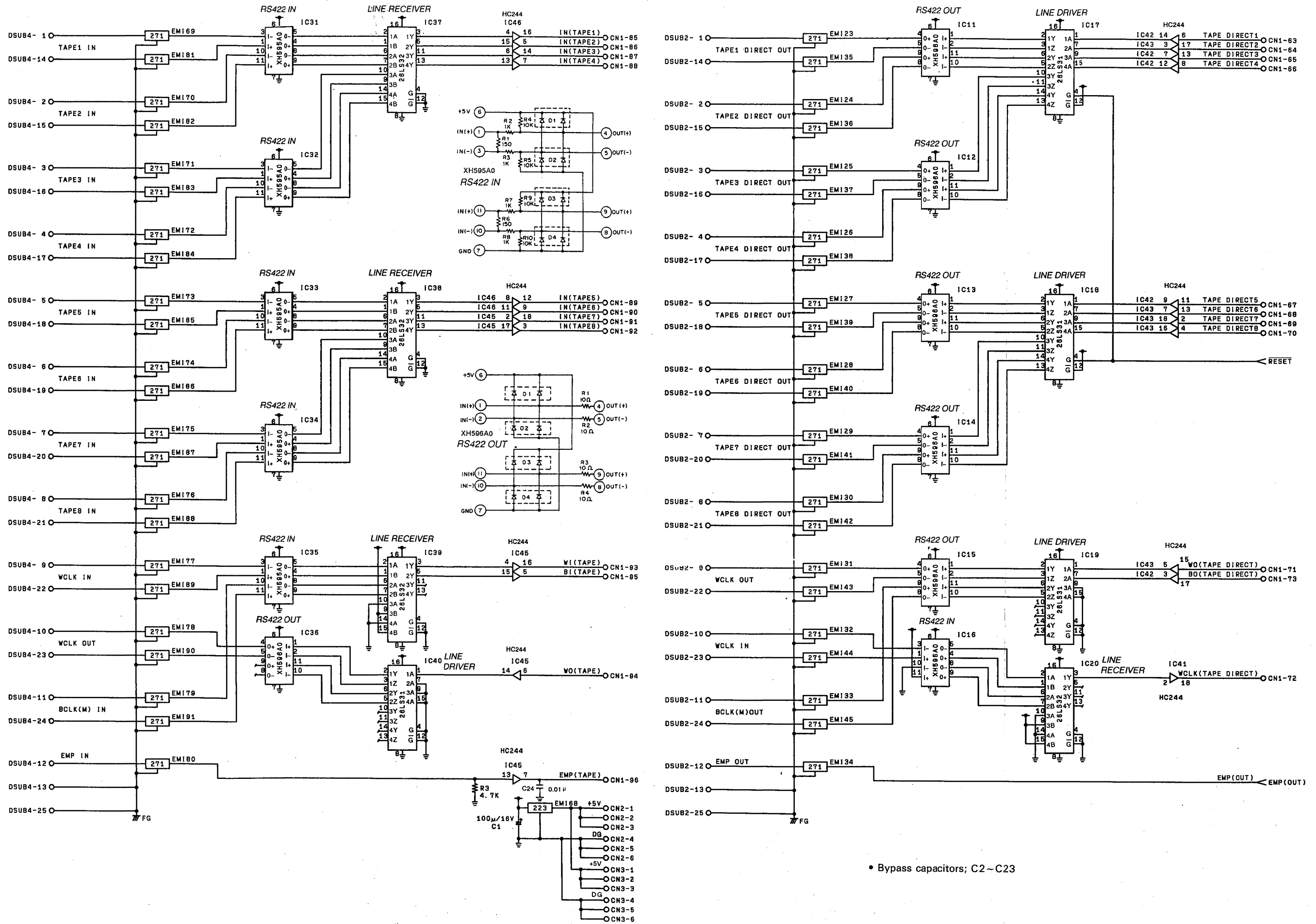
CRC CIRCUIT DIAGRAM 2/2 (LINE INS/DIO)



■ CRD CIRCUIT DIAGRAM (LINE (AES/EBU) IN)

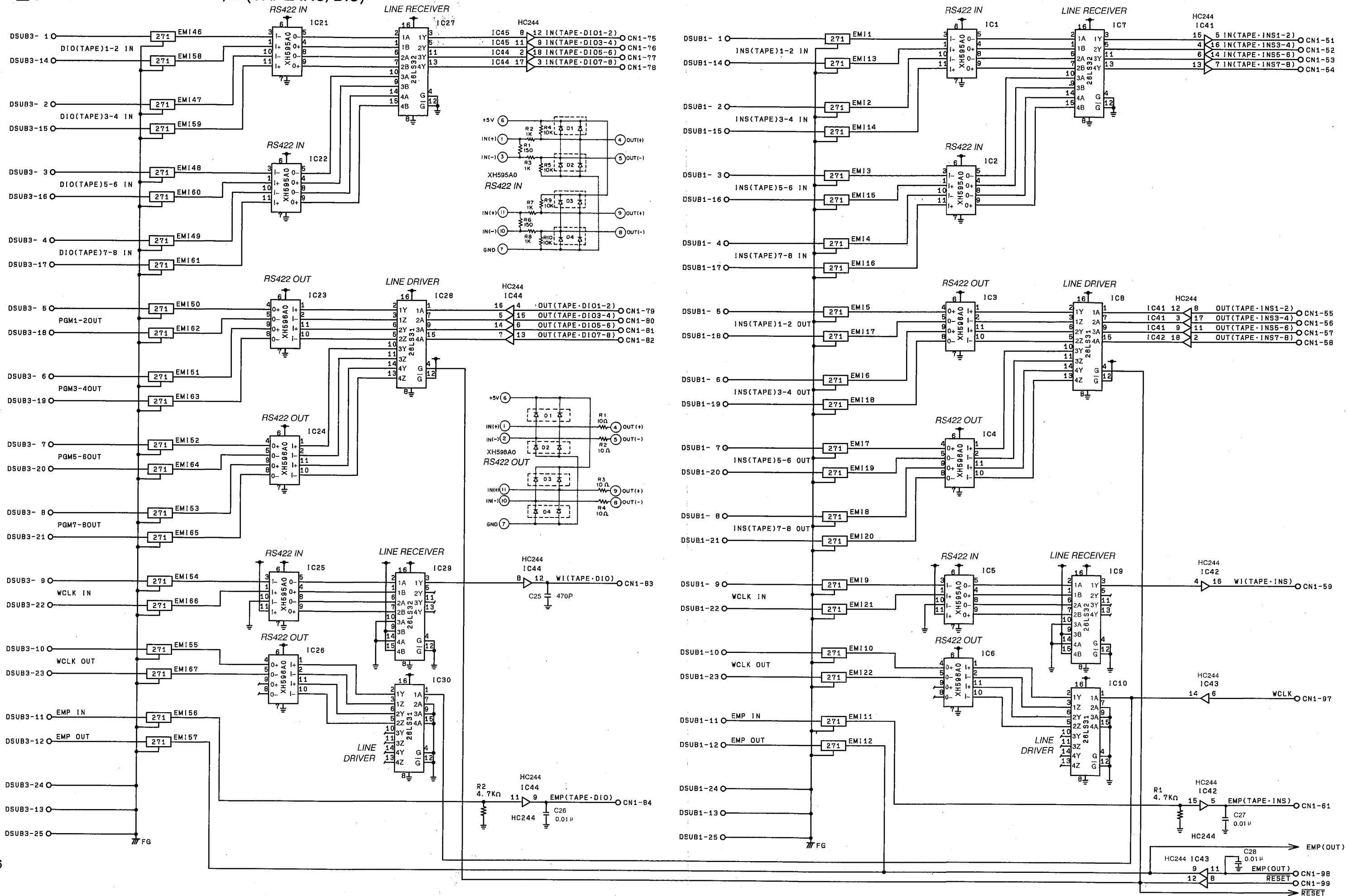


CRE CIRCUIT DIAGRAM 1/2 (TAPE IN/DIR)

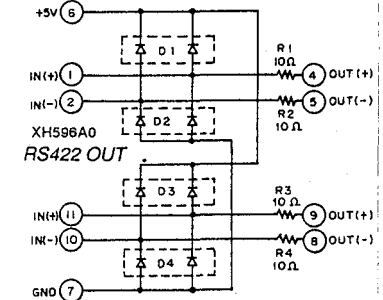
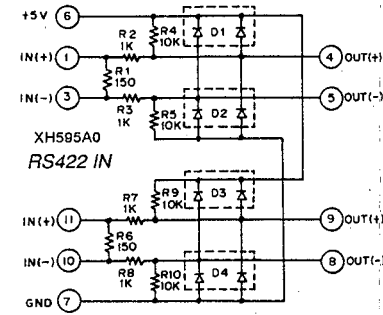
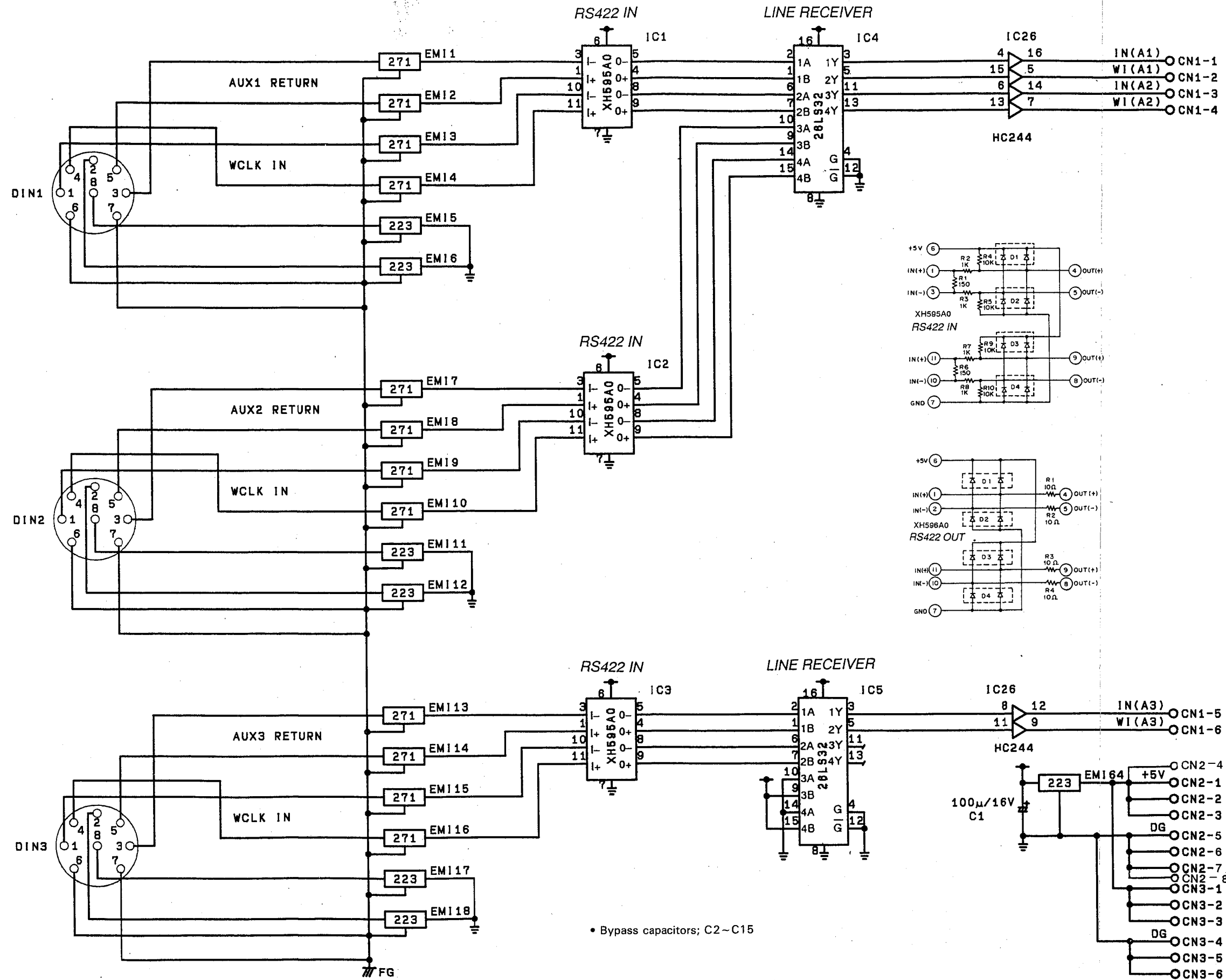


• Bypass capacitors; C2~C23

CRE CIRCUIT DIAGRAM 2/2 (TAPE INS/DIO)

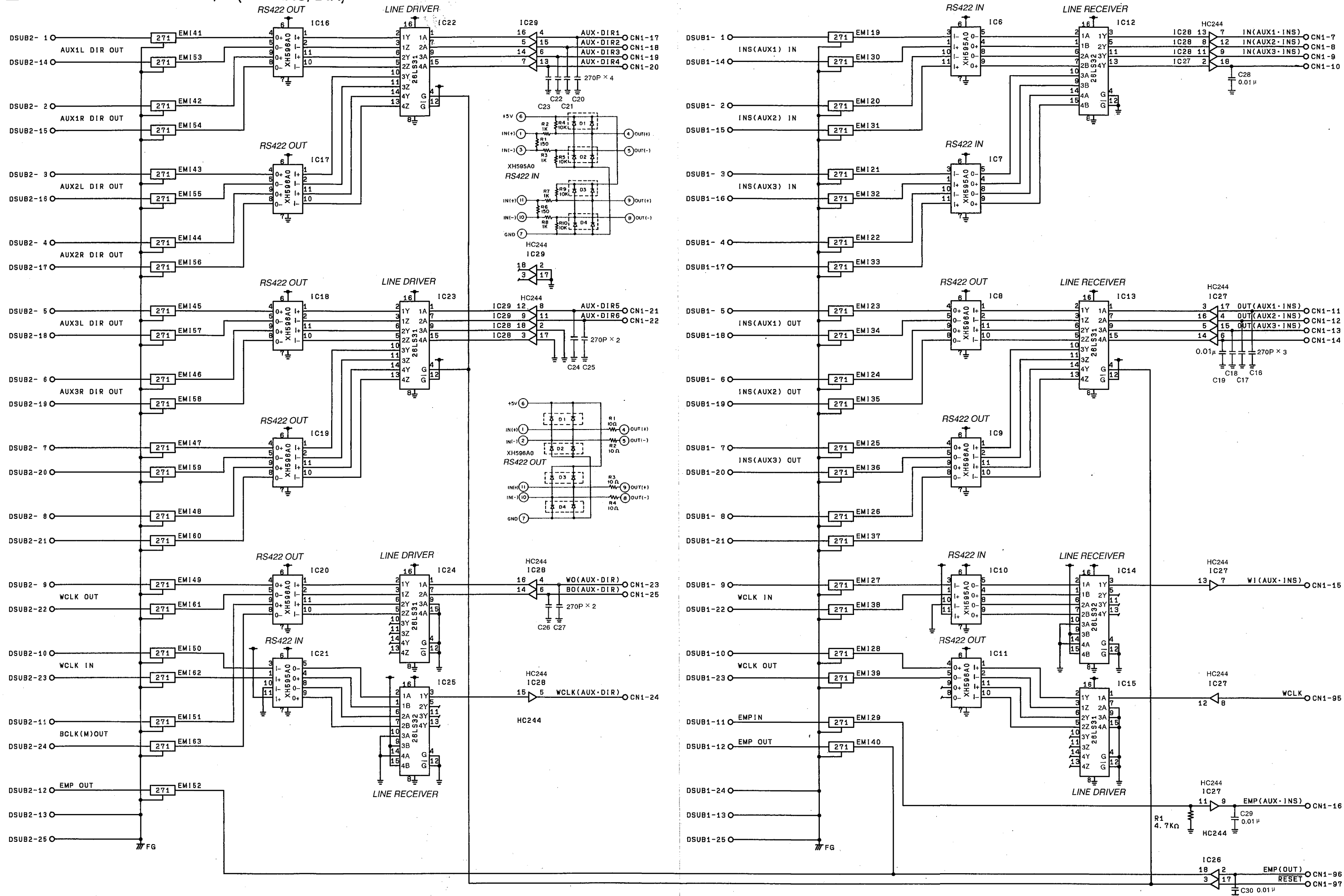


■ CRF CIRCUIT DIAGRAM 1/2 (AUX RETURN)

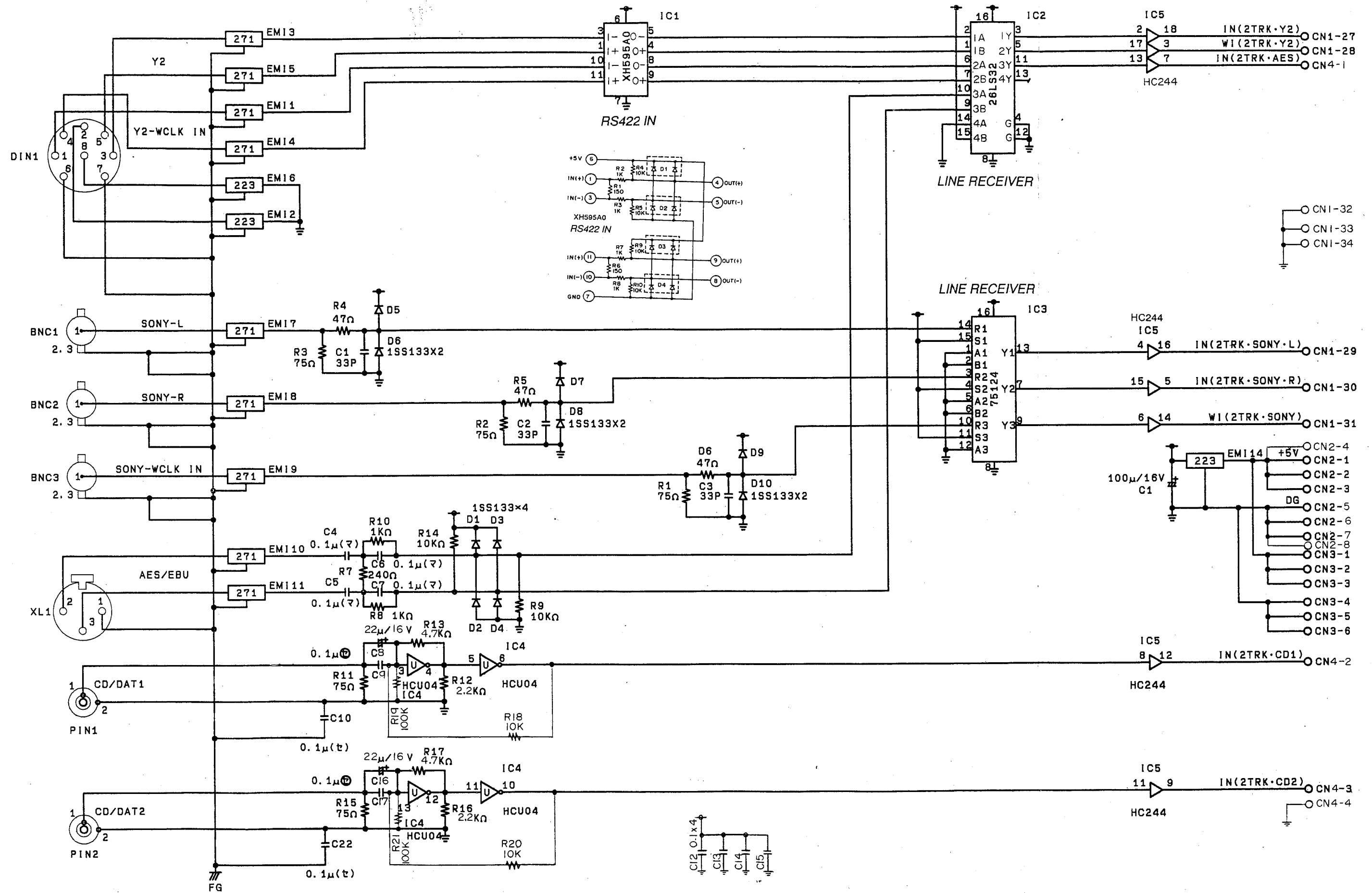


• Bypass capacitors; C2-C15

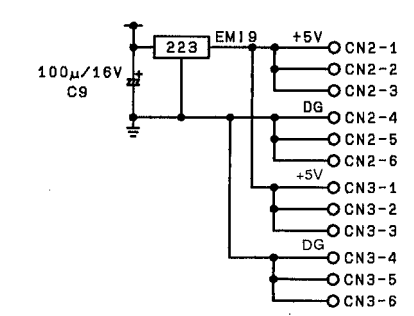
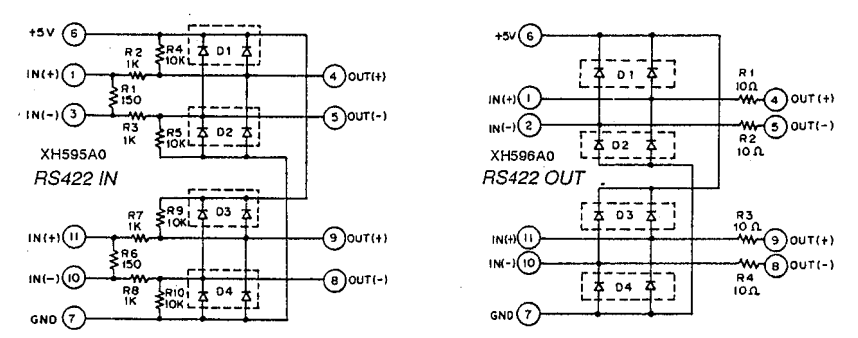
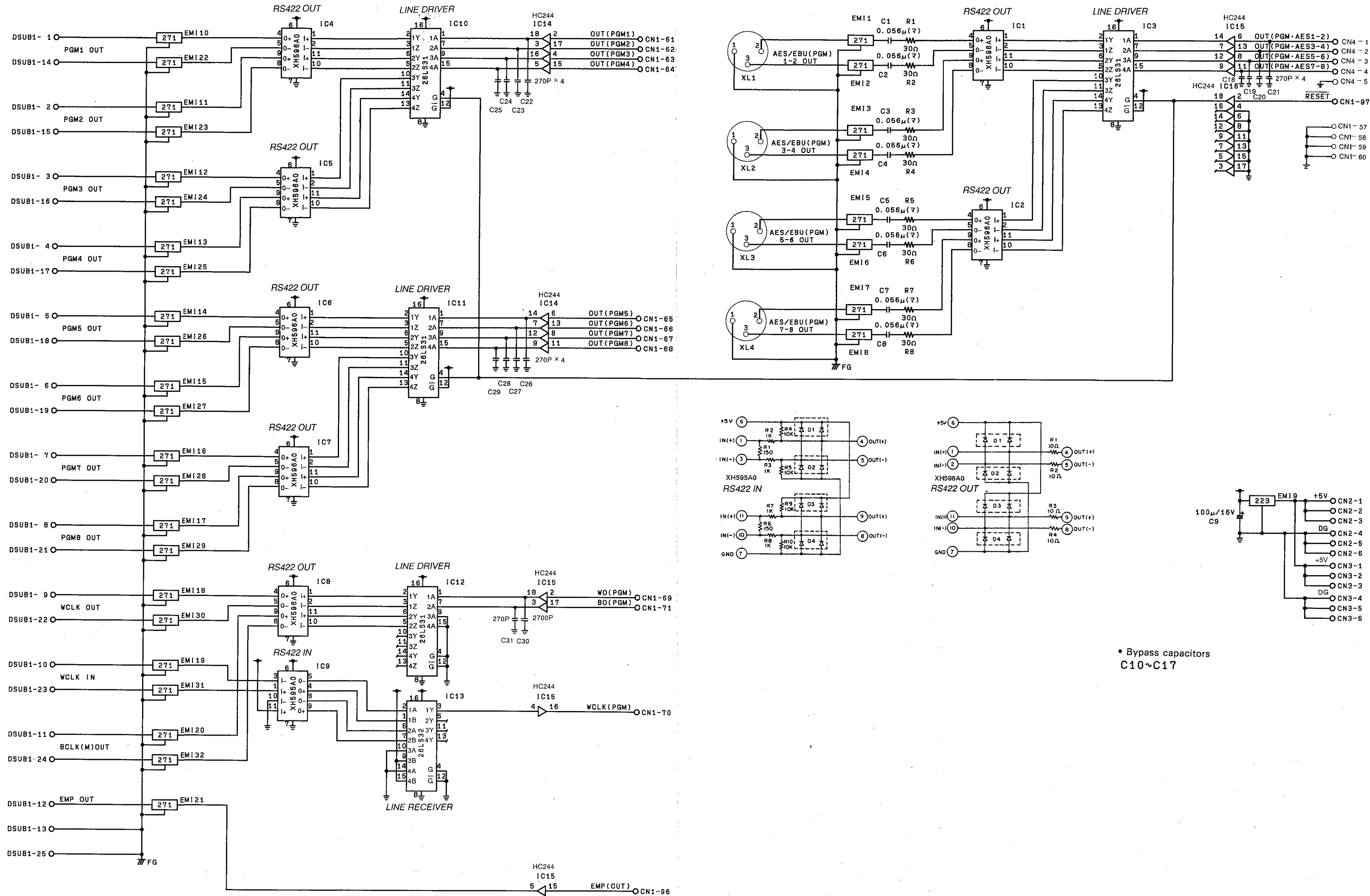
CRF CIRCUIT DIAGRAM 2/2 (AUX INS/DIR)



CRG CIRCUIT DIAGRAM (2TRK IN)

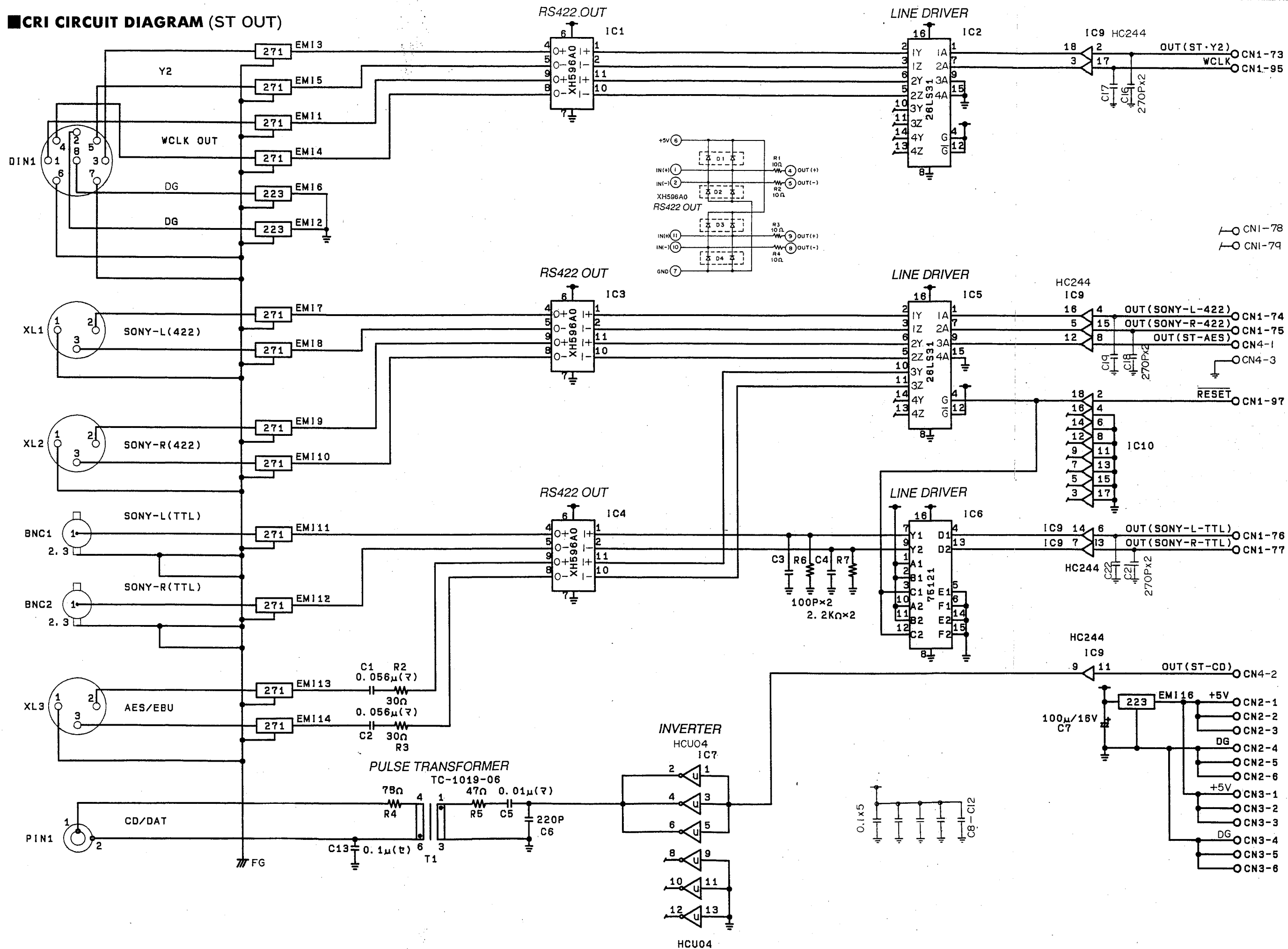


CRH CIRCUIT DIAGRAM (BUSS OUT)

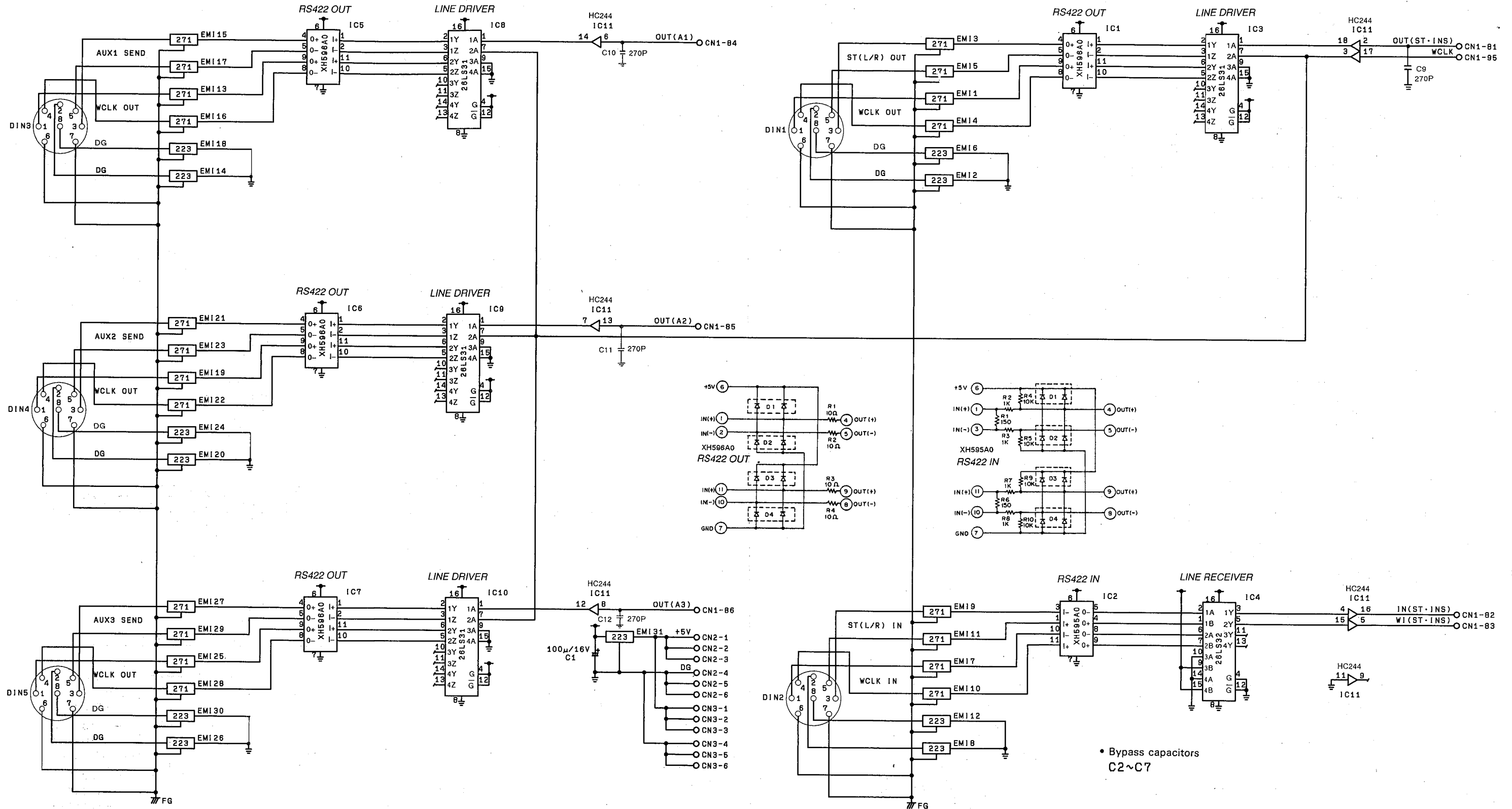


• Bypass capacitors
C10~C17

■ CRI CIRCUIT DIAGRAM (ST OUT)

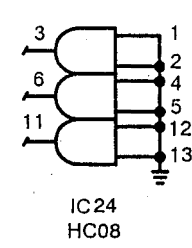
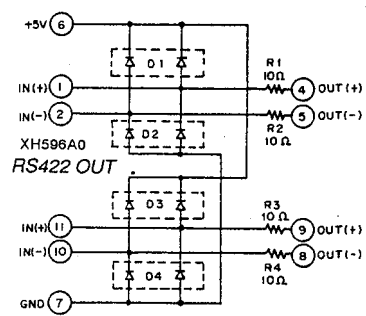
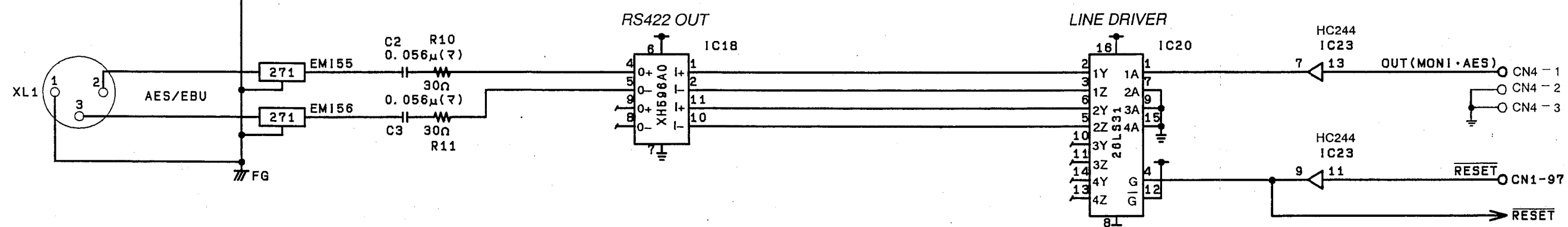
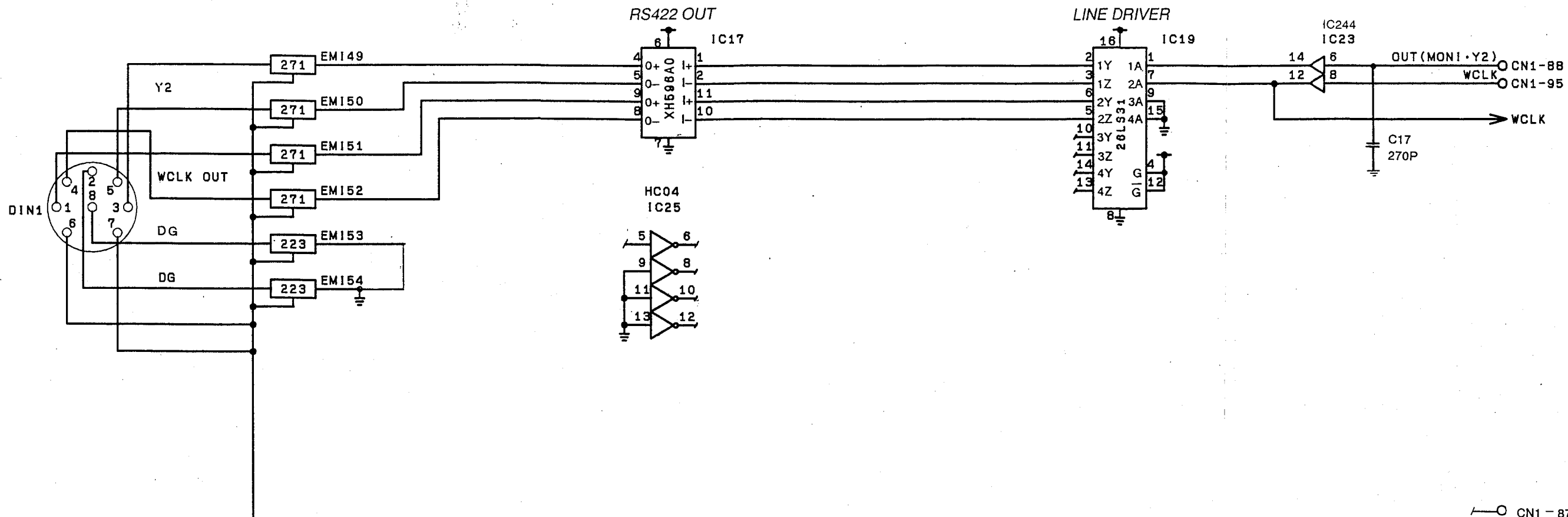


CRJ CIRCUIT DIAGRAM (ST INS/AUX SEND)

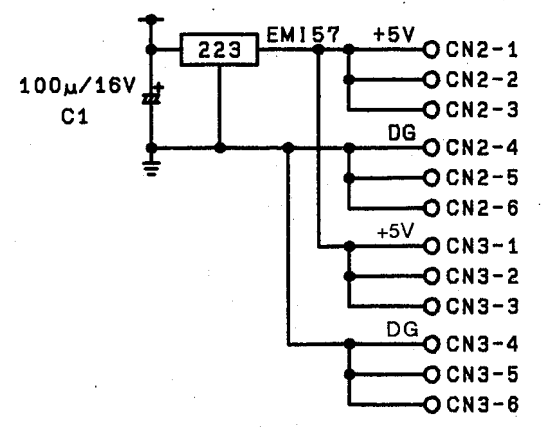


• Bypass capacitors C2~C7

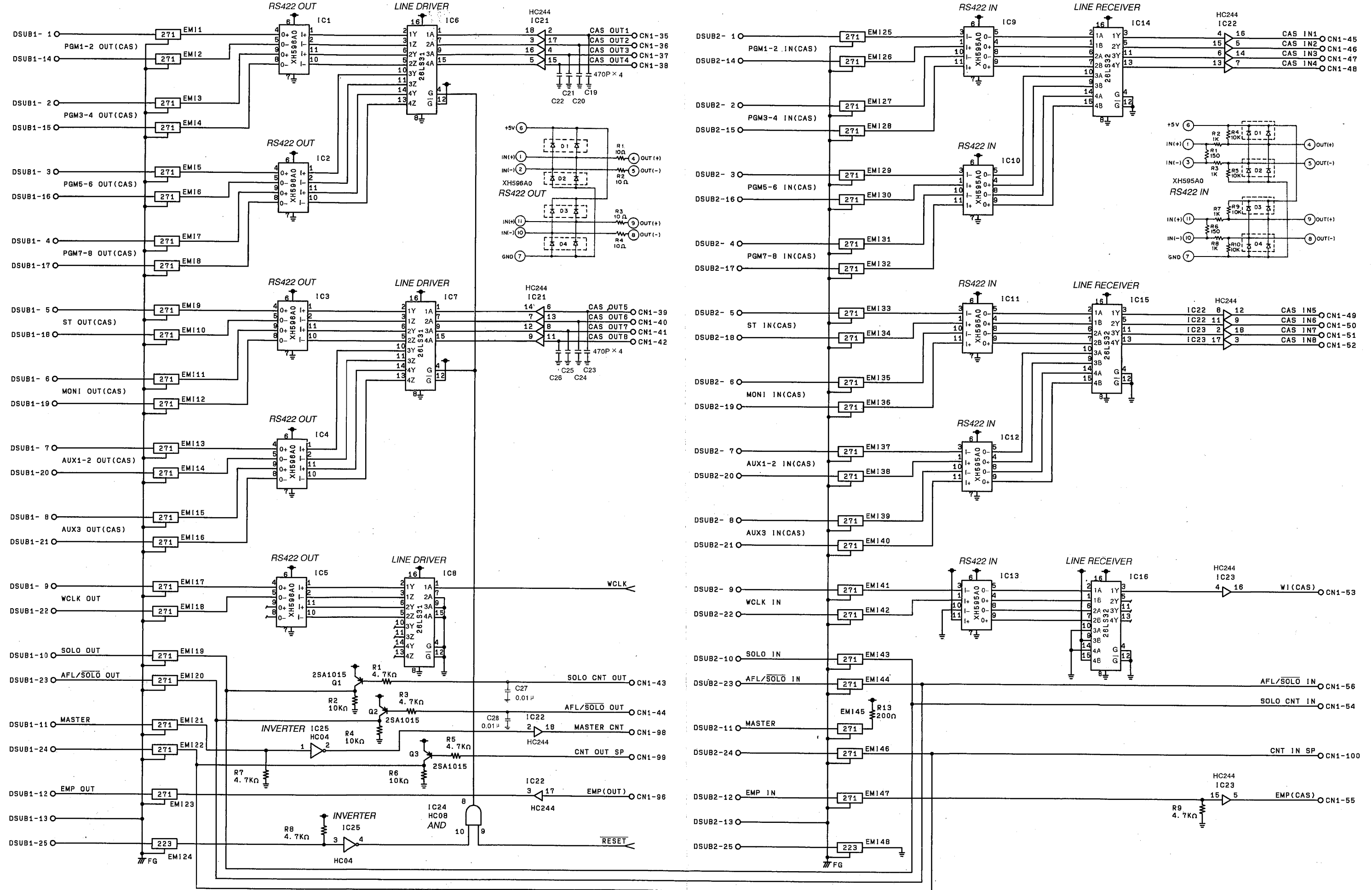
CRK CIRCUIT DIAGRAM 1/2 (MONITOR OUT)



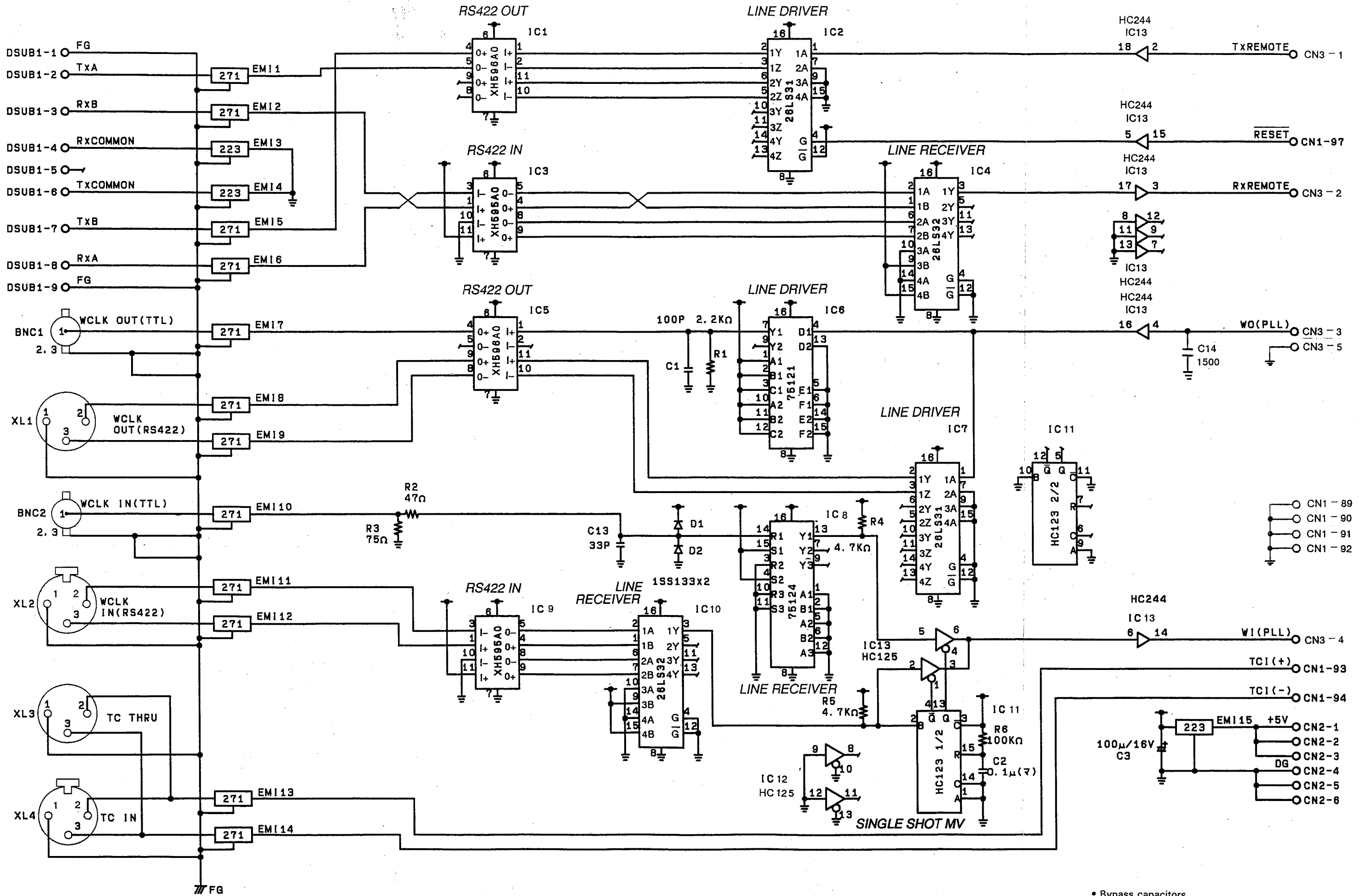
• Bypass capacitors
C4~C16



CRK CIRCUIT DIAGRAM 2/2 (CASCADE IN/OUT)

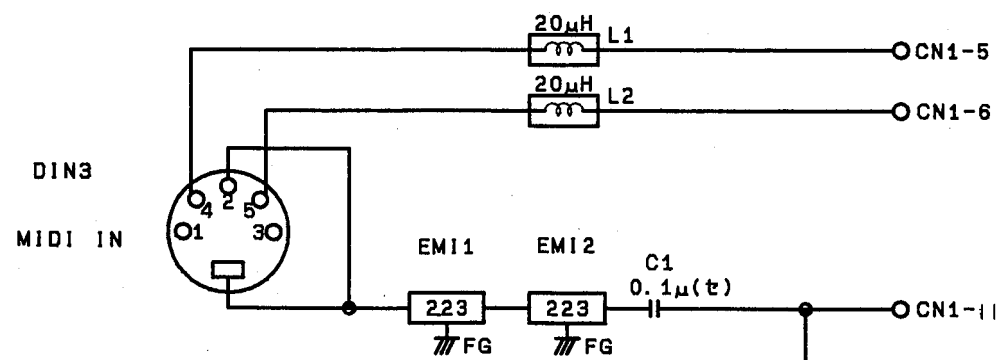
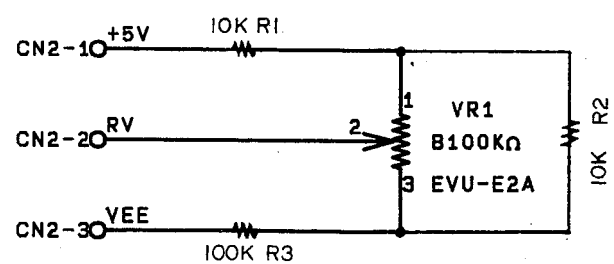
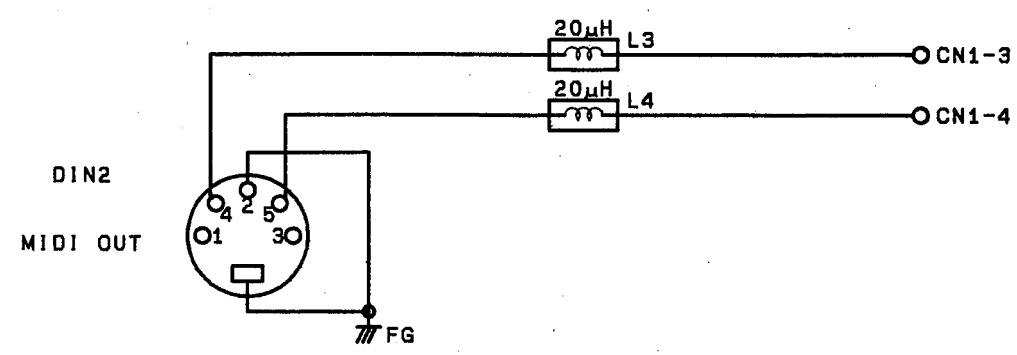
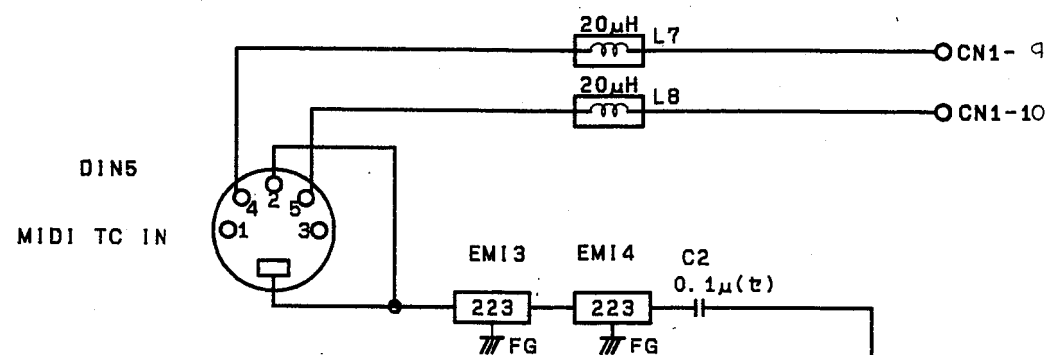
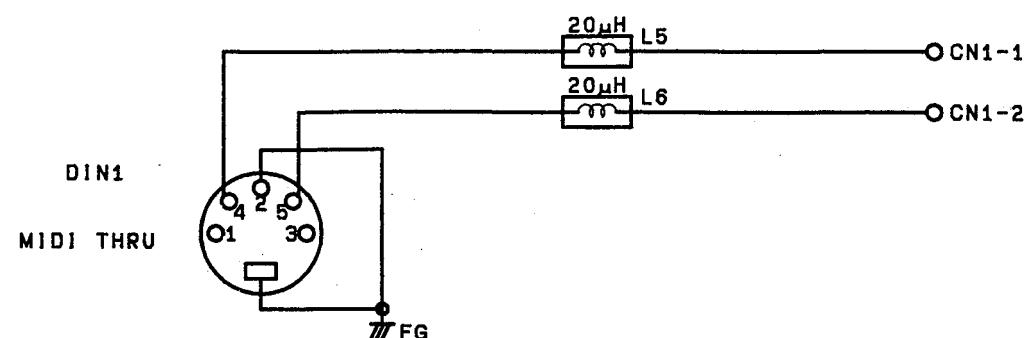
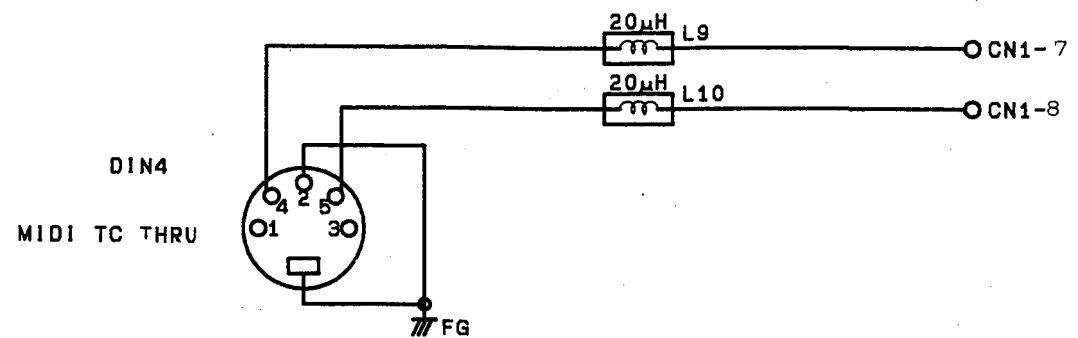


CRL CIRCUIT DIAGRAM (REMOTE/WCLK/TC)



• Bypass capacitors
C4~C12

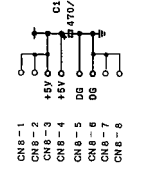
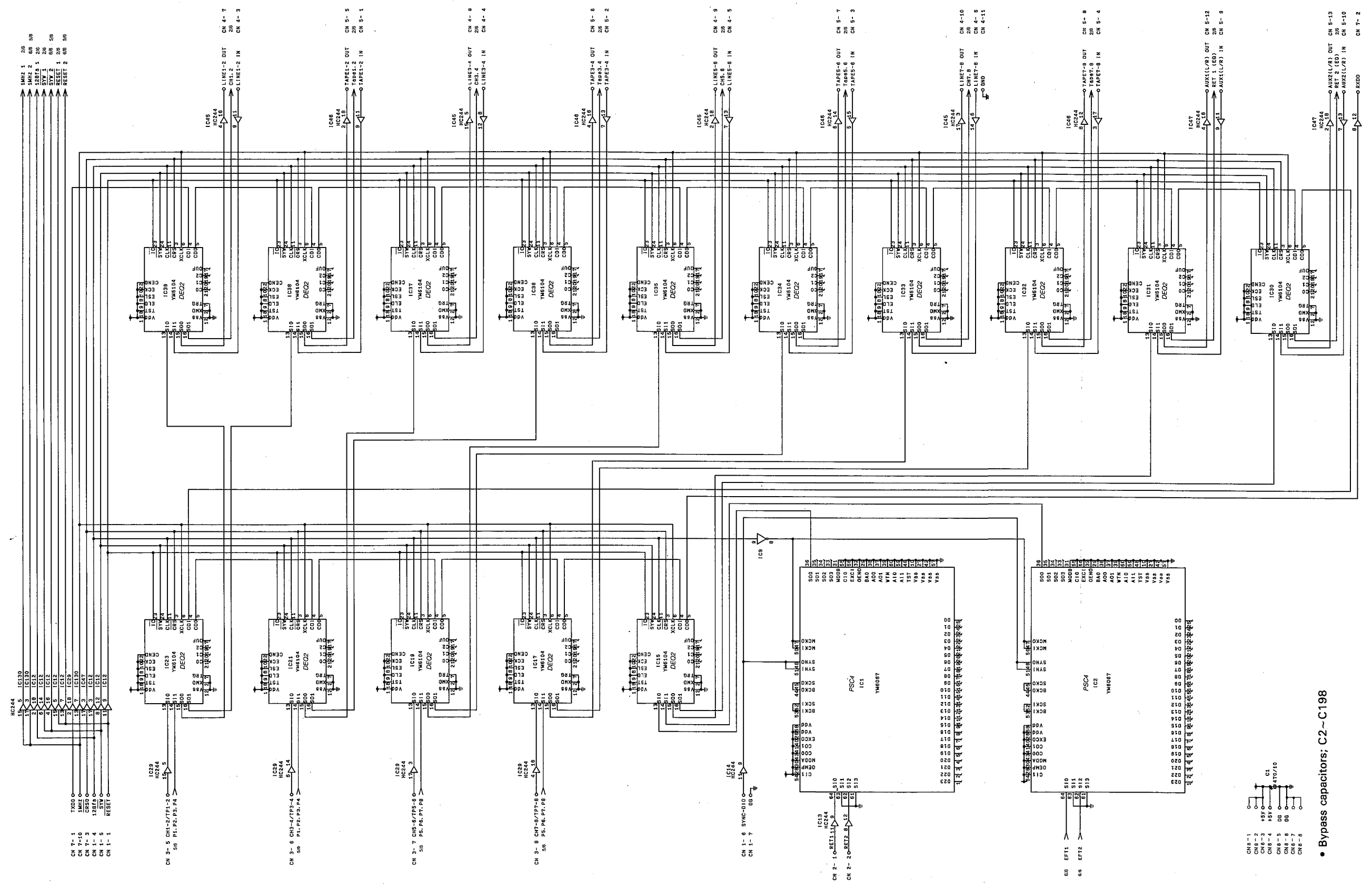
CRM CIRCUIT DIAGRAM (MIDI/MIDI TC)



DSP CIRCUIT DIAGRAM 1/6

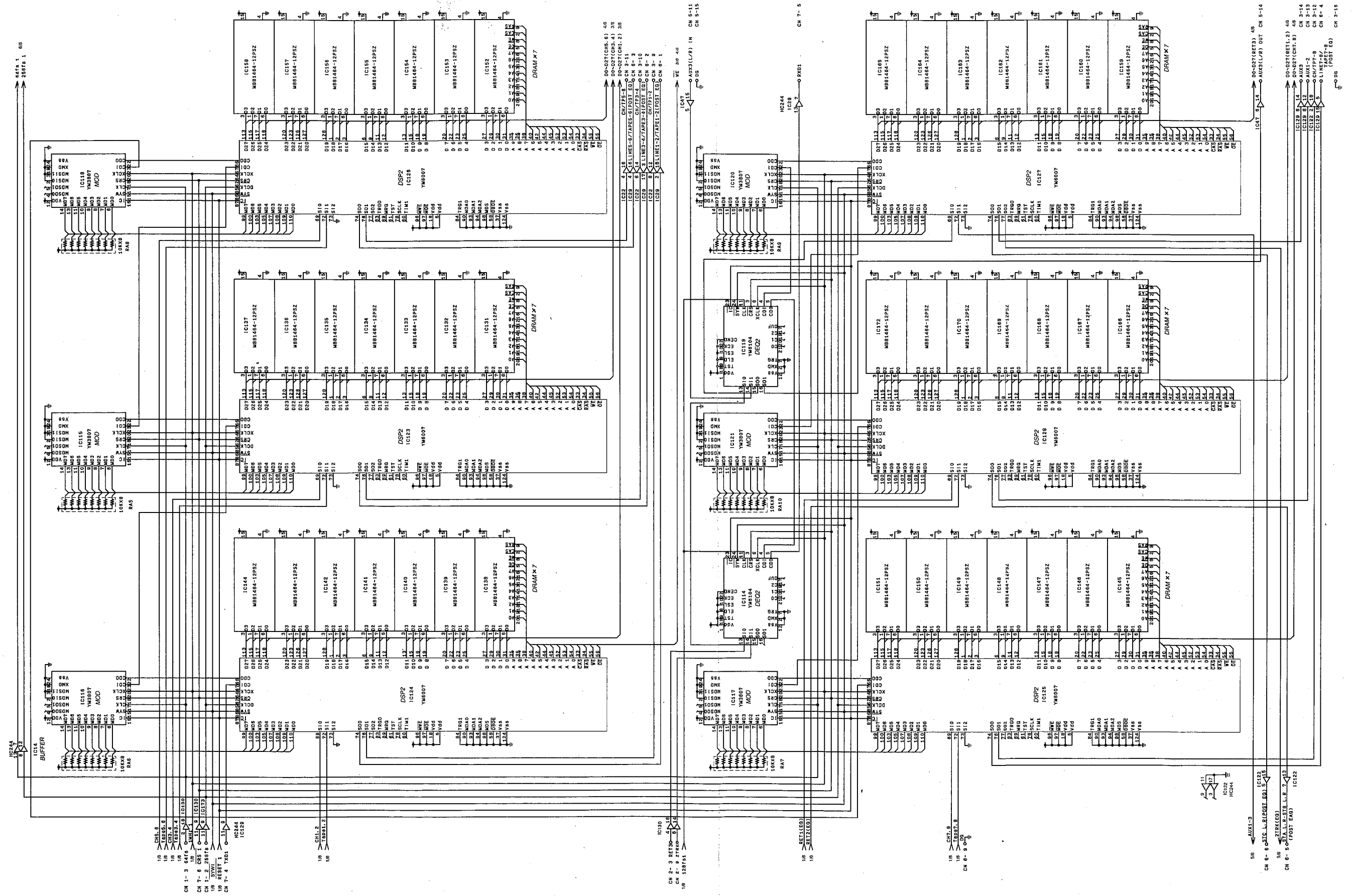
A B C D E F G H

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• Bypass capacitors; C2~C198

DSP CIRCUIT DIAGRAM 2/6



DSP CIRCUIT DIAGRAM 3/6

A B C D E F G H

1

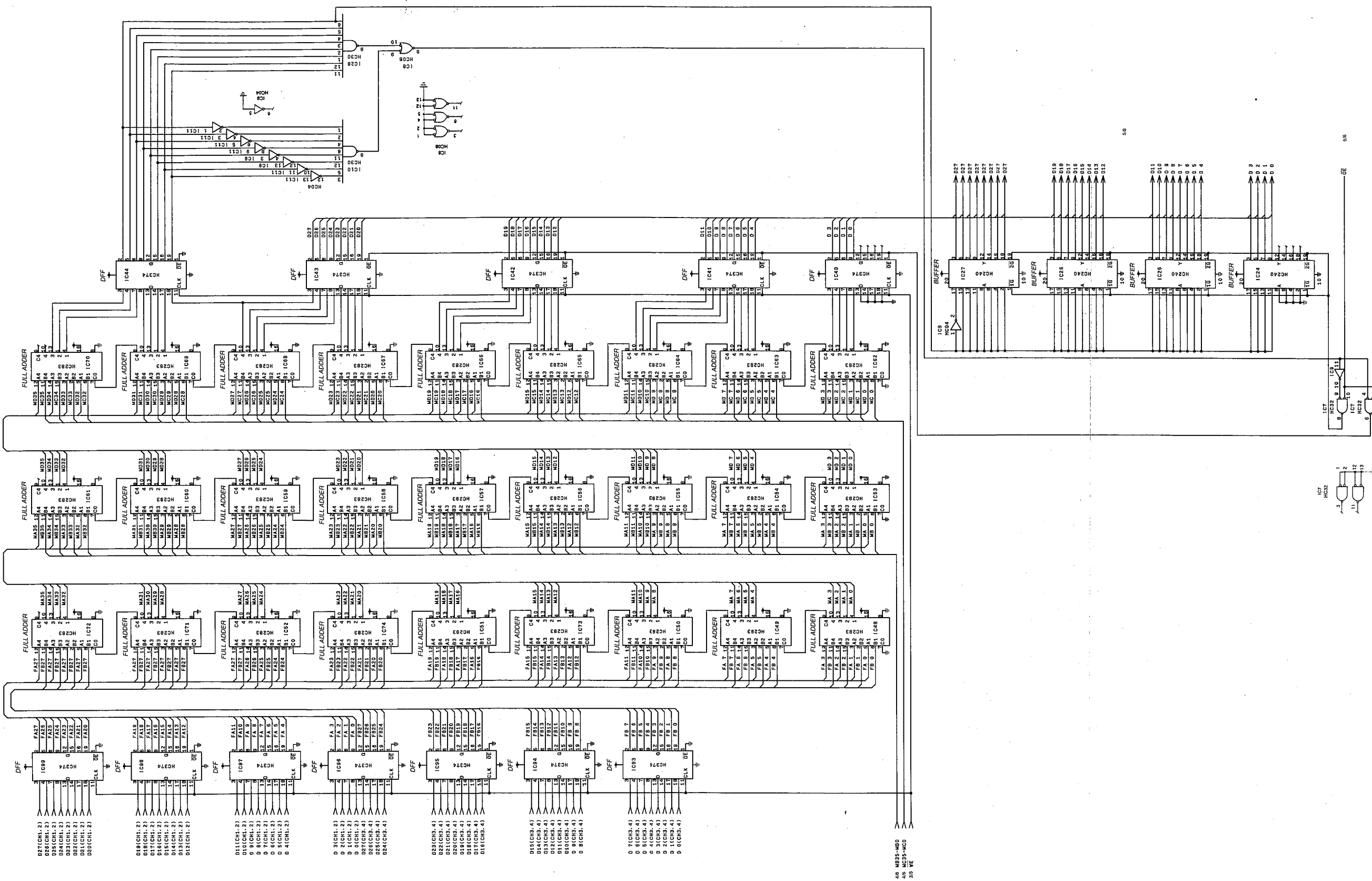
2

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5

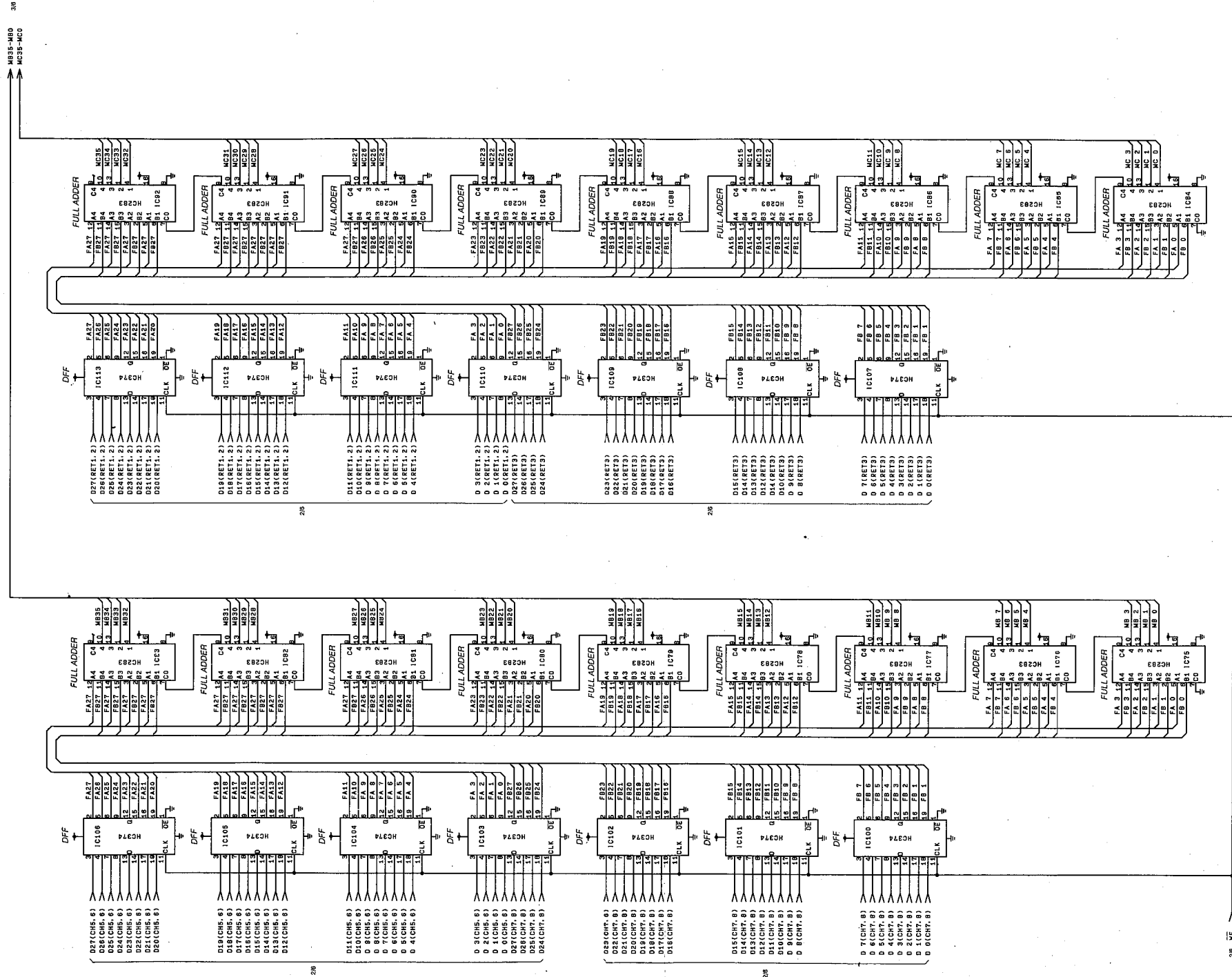
6



48 MB35-M80
56 MC375-MC0
58 74

DSP CIRCUIT DIAGRAM 4/6

A B C D E F G H



1

2

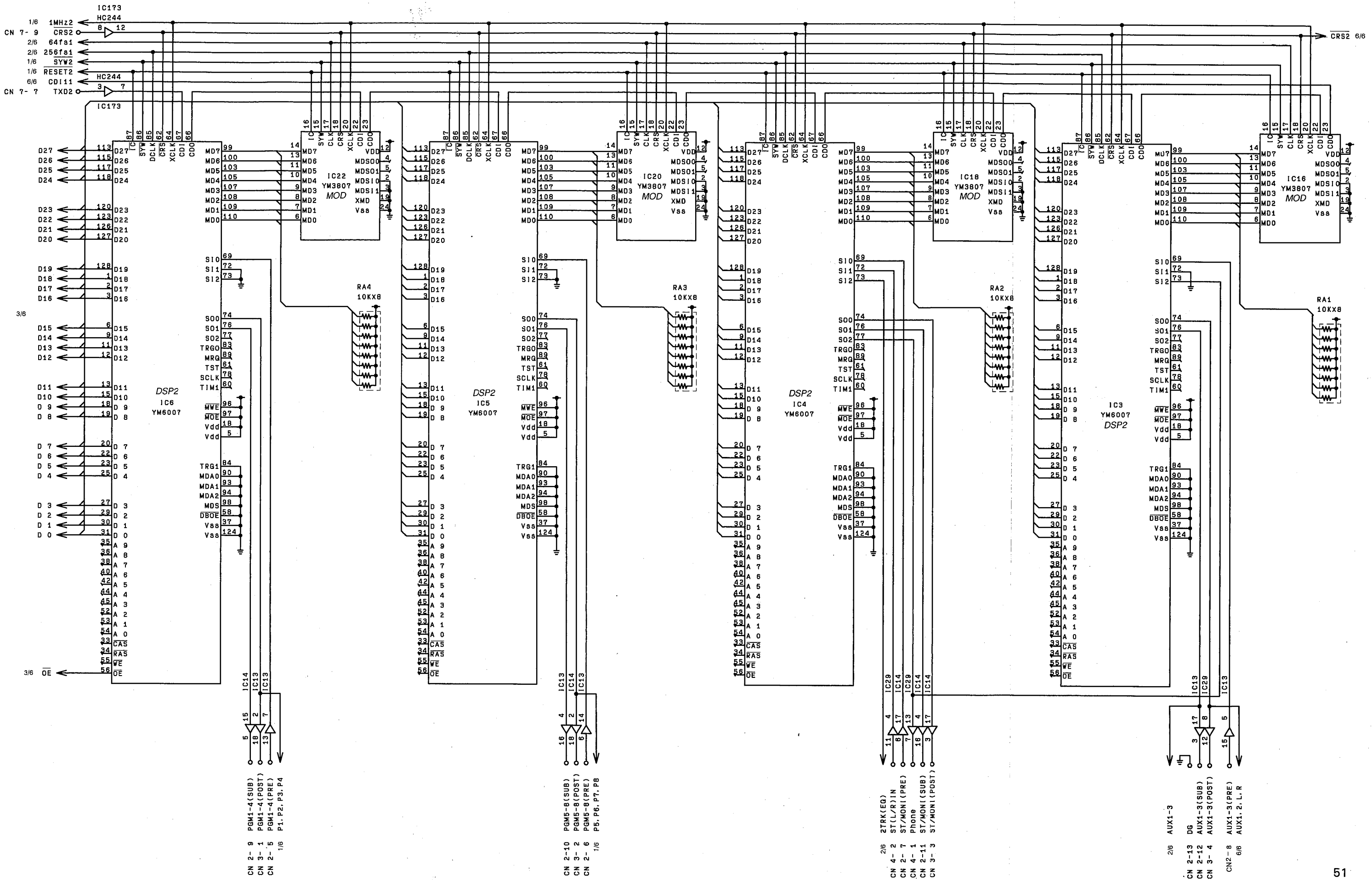
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4

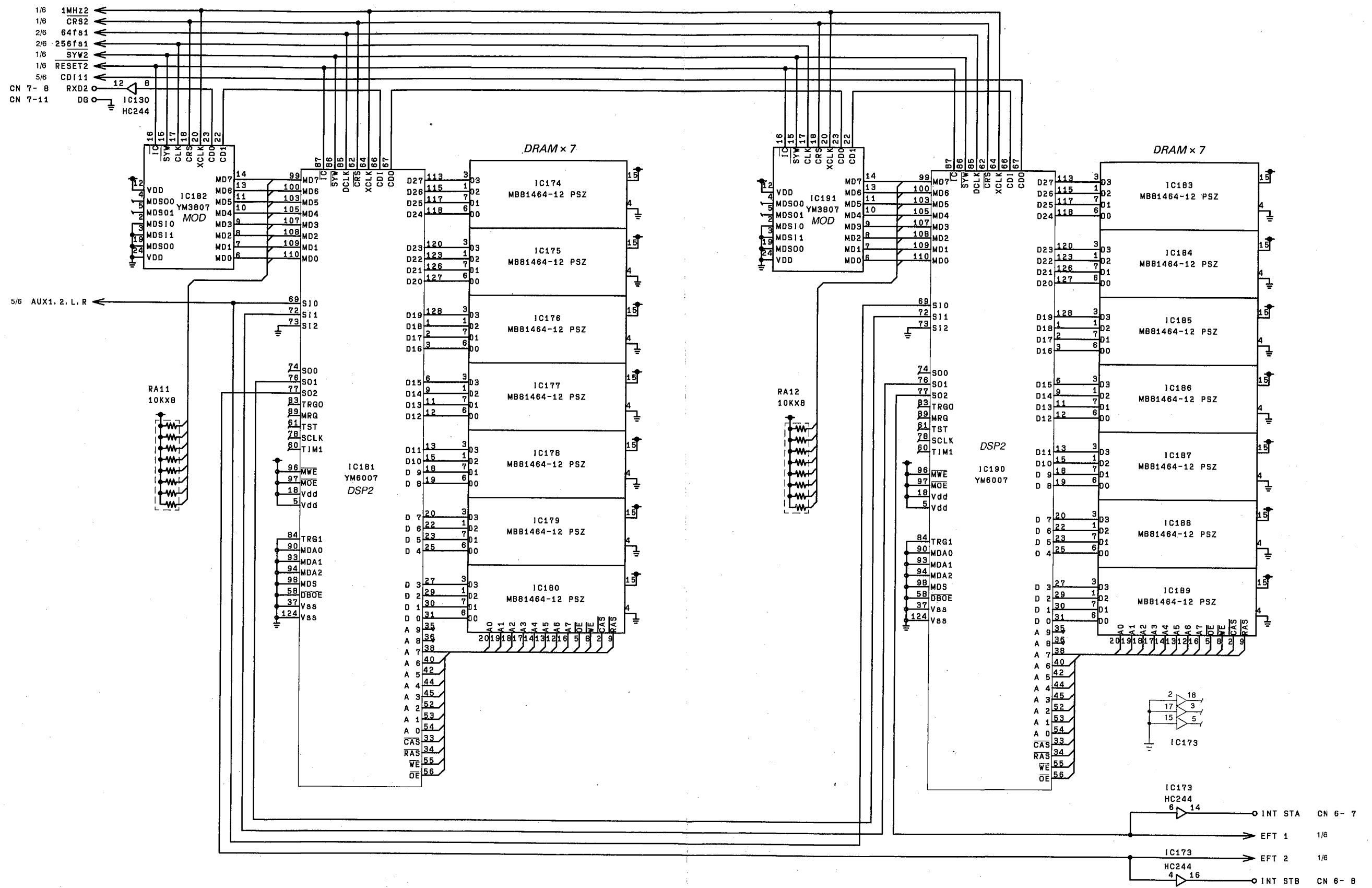
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6

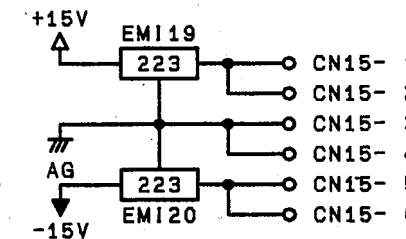
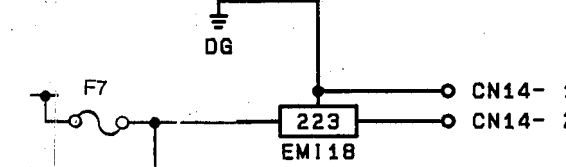
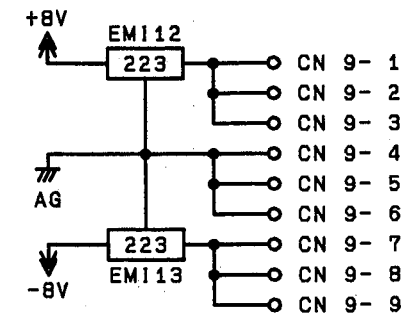
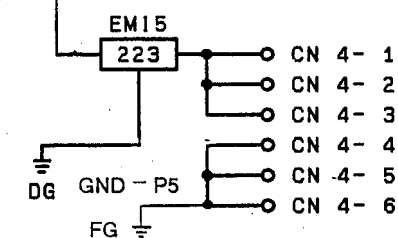
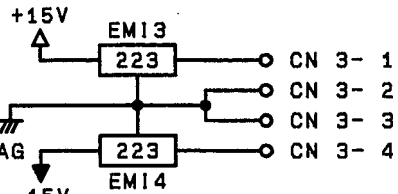
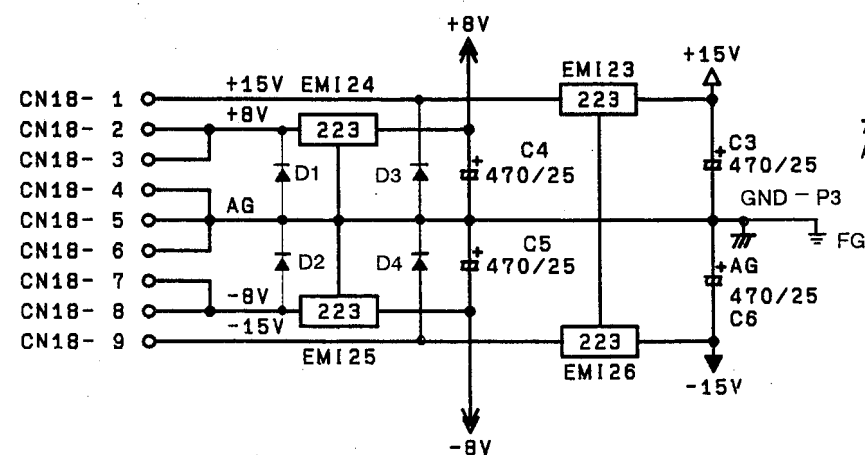
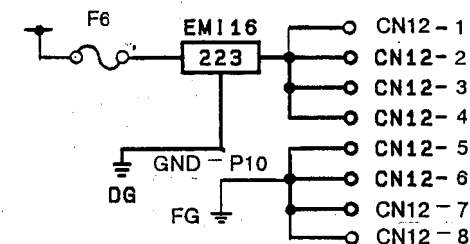
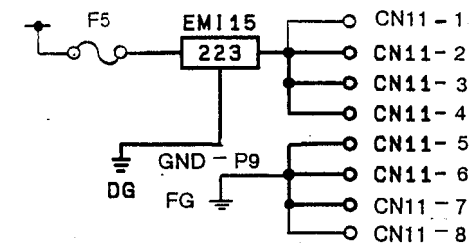
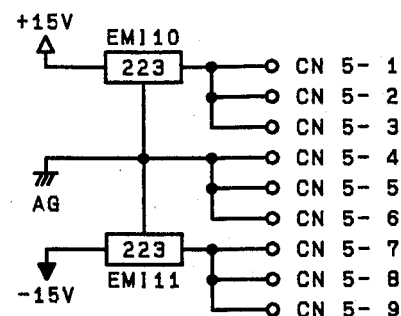
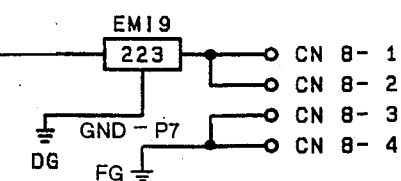
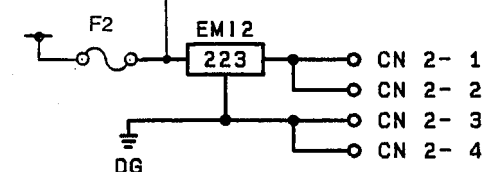
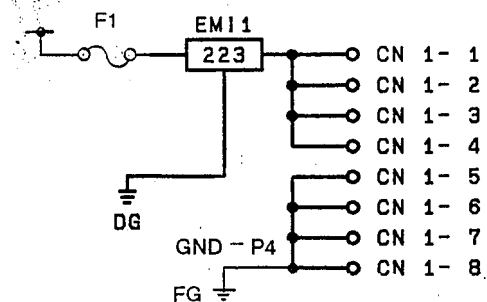
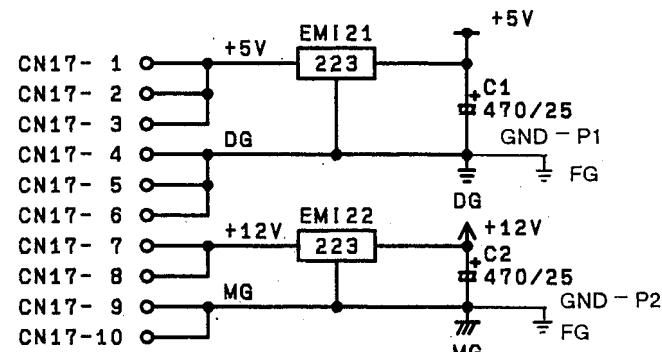
DSP CIRCUIT DIAGRAM 5/6



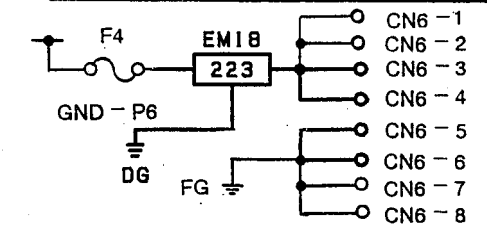
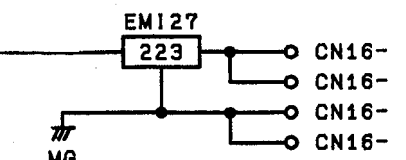
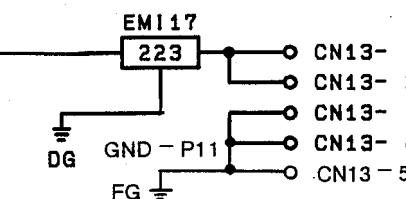
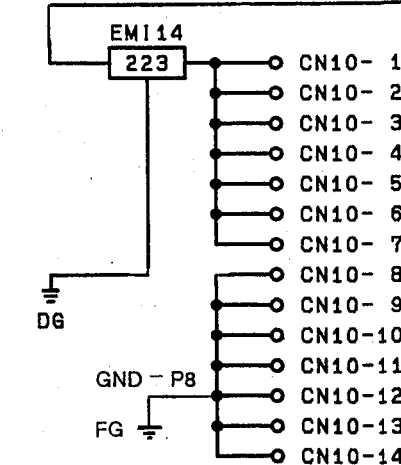
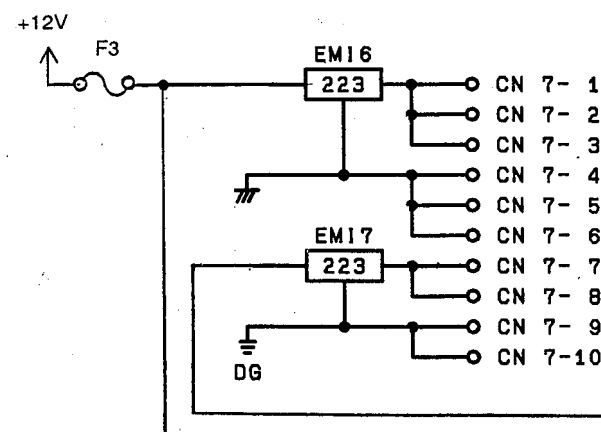
DSP CIRCUIT DIAGRAM 6/6



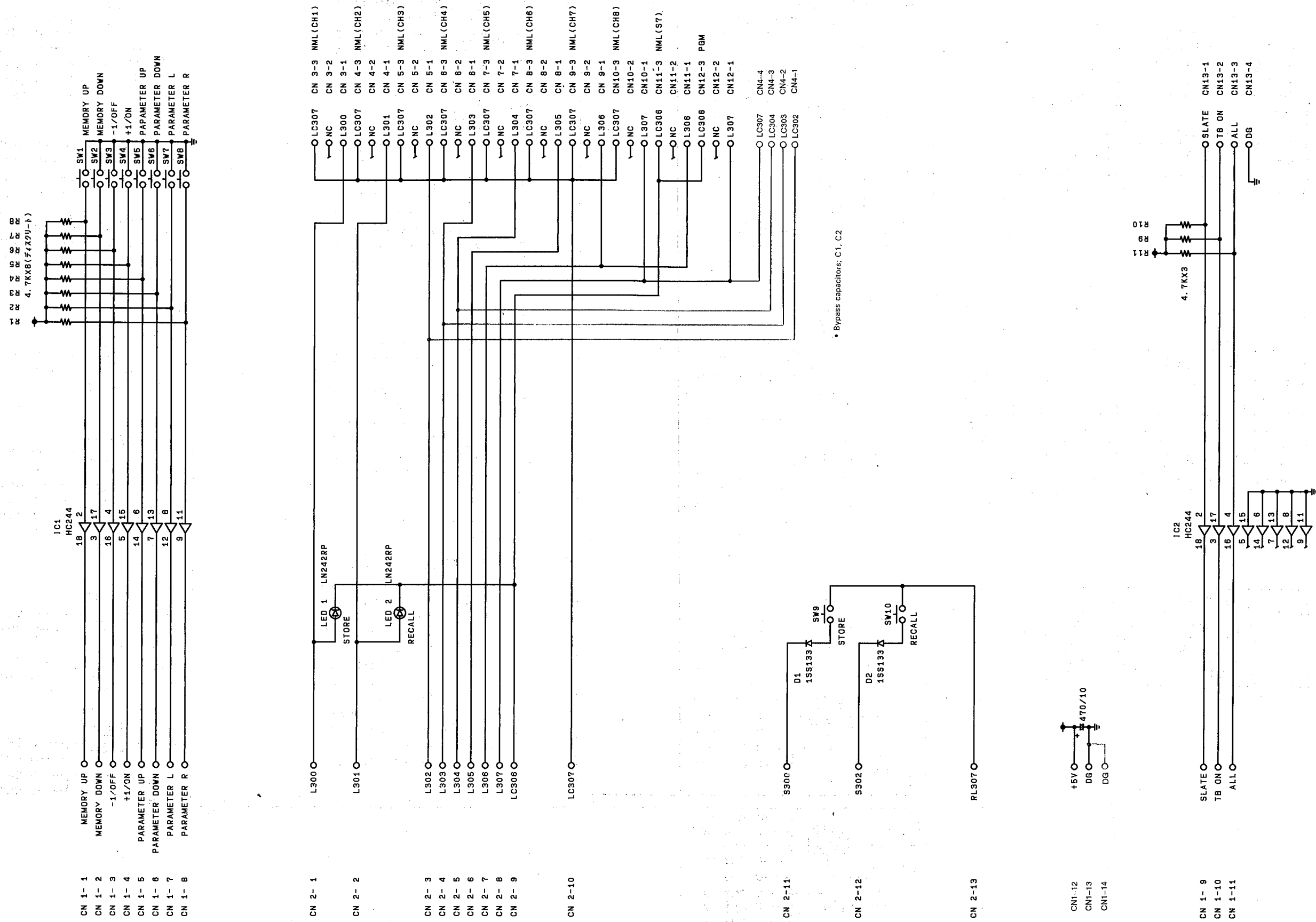
DTB CIRCUIT DIAGRAM



	F1-F3, F5-F7	F4
J	4A 250V	5A 250V
U.C	3.15A 250V	5A 250V
H.B	T3.15A 250V	T5A 250V



FPC CIRCUIT DIAGRAM



FPE CIRCUIT DIAGRAM

1

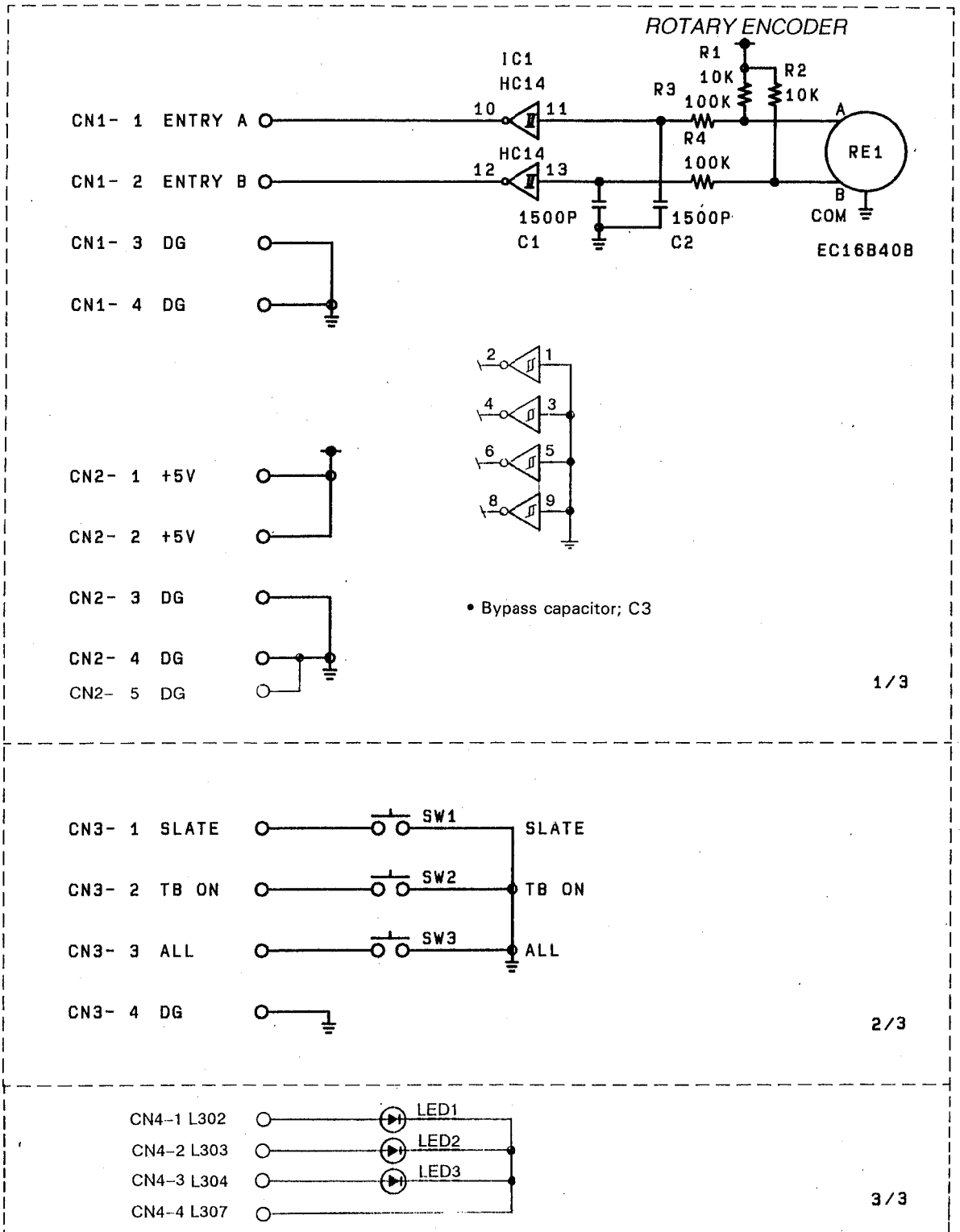
2

3

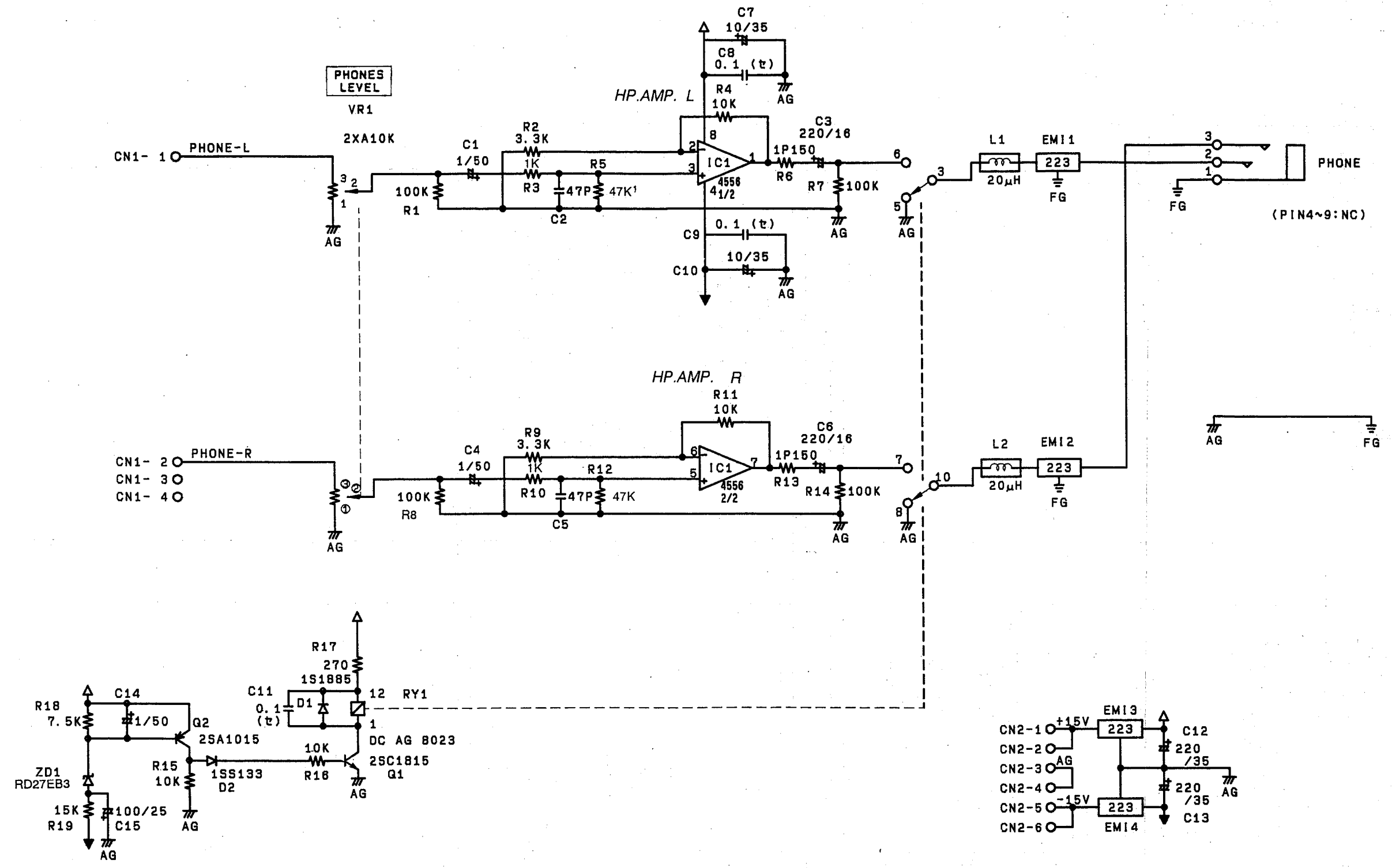
4

5

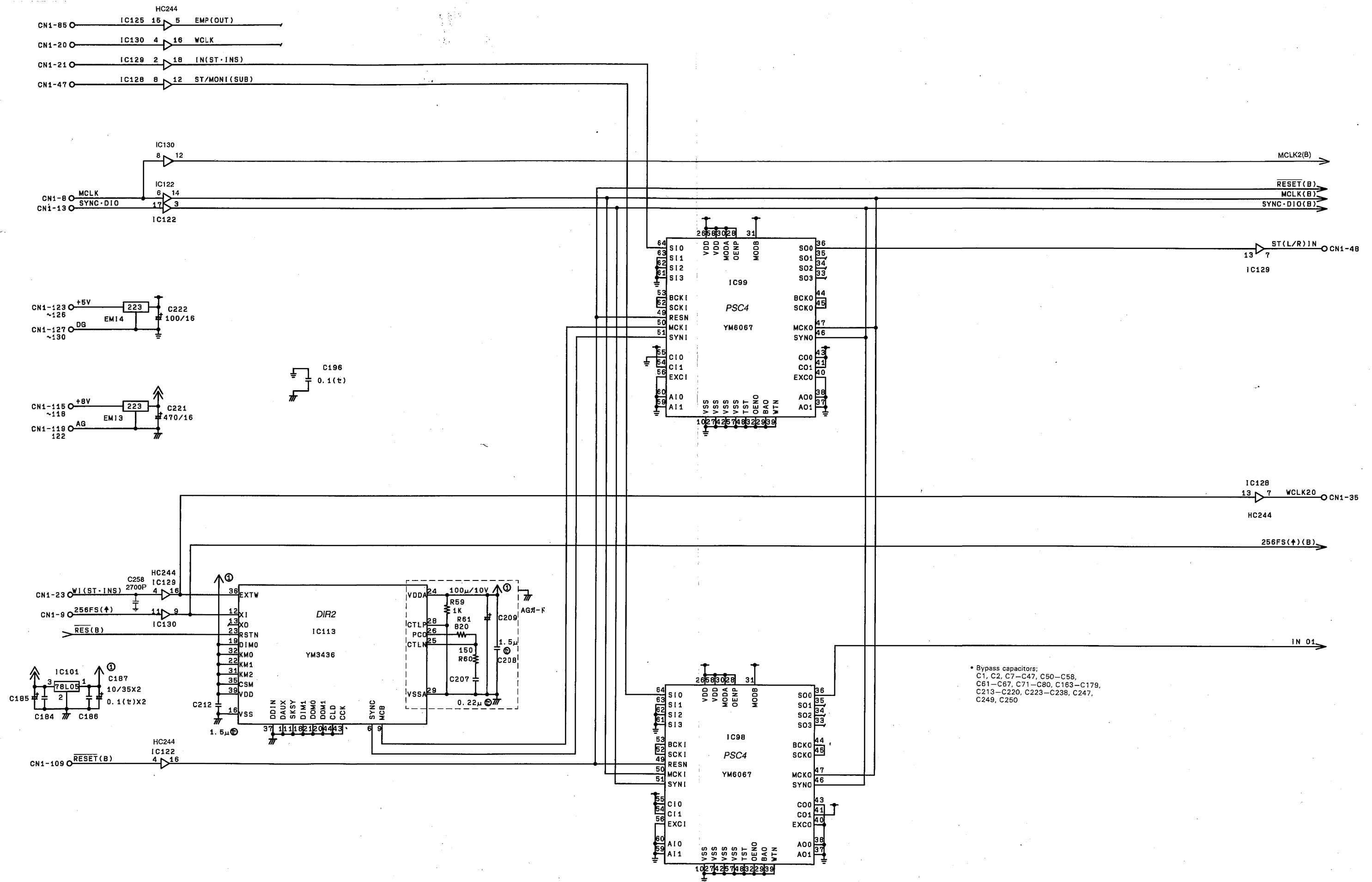
6



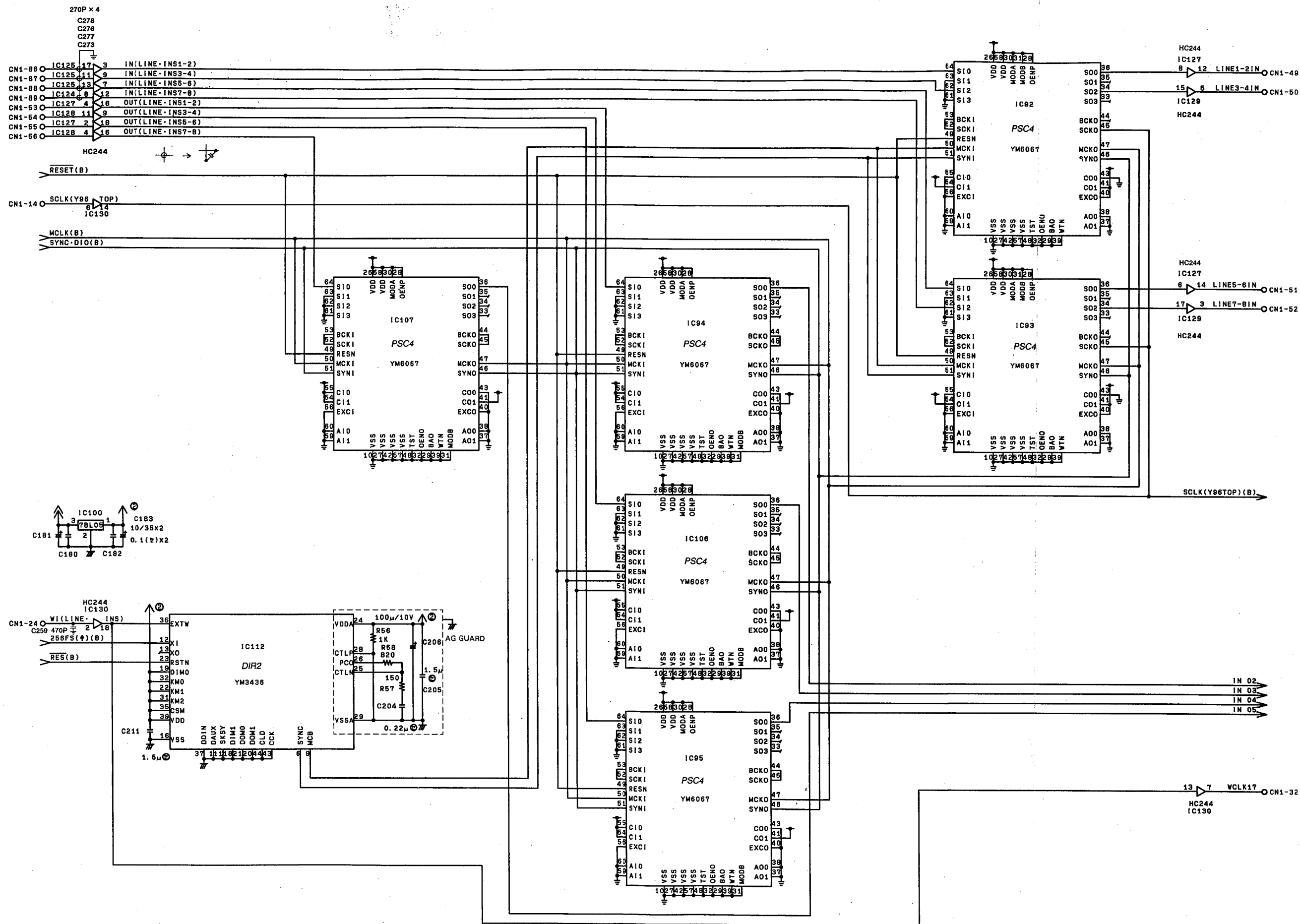
HP CIRCUIT DIAGRAM



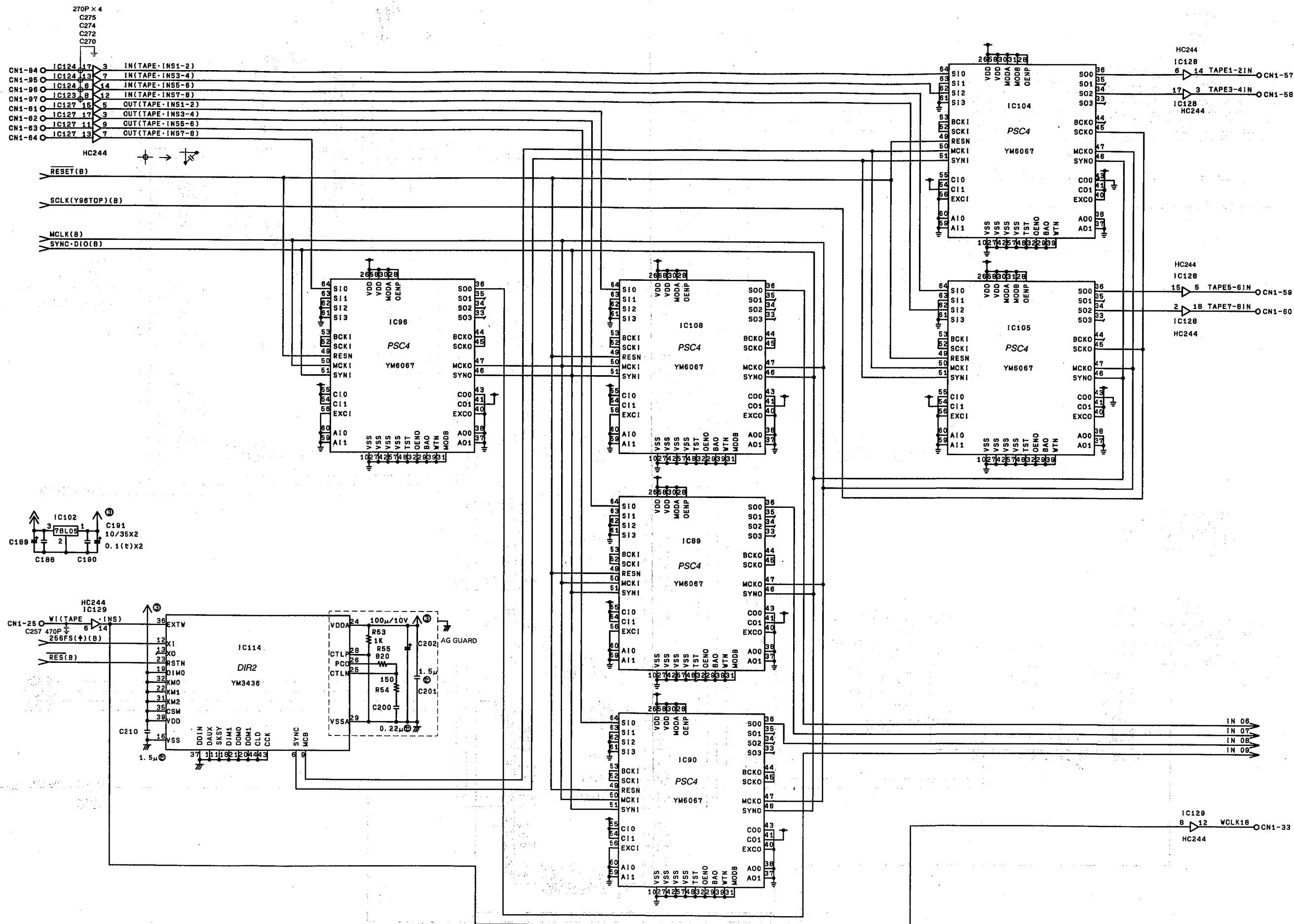
IN 1/2 CIRCUIT DIAGRAM 1/5 (STEREO INSERT)



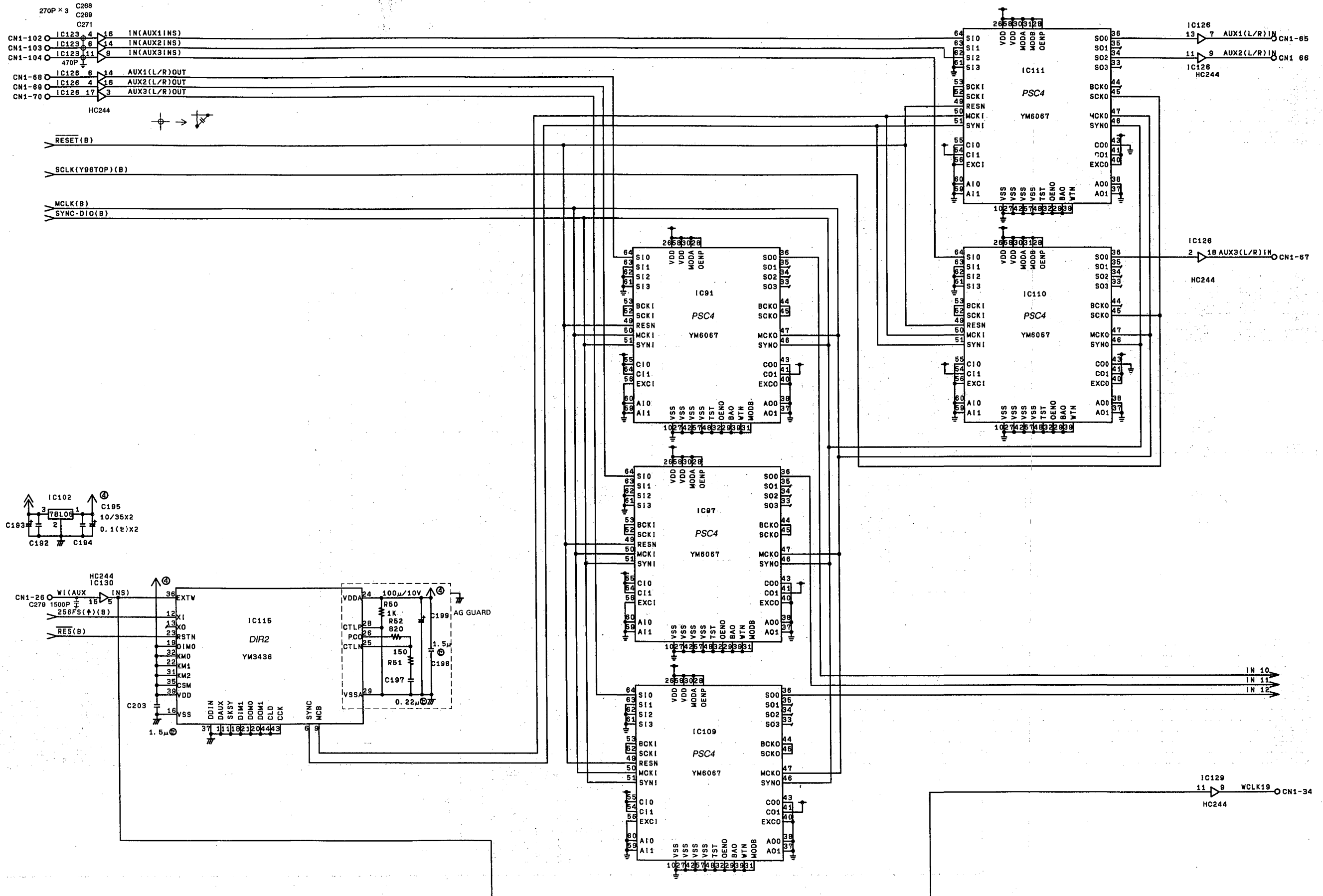
IN 1/2 CIRCUIT DIAGRAM 2/5 (INSERT(LINE))



IN 1/2 CIRCUIT DIAGRAM 3/5 (INSERT(TAPE))

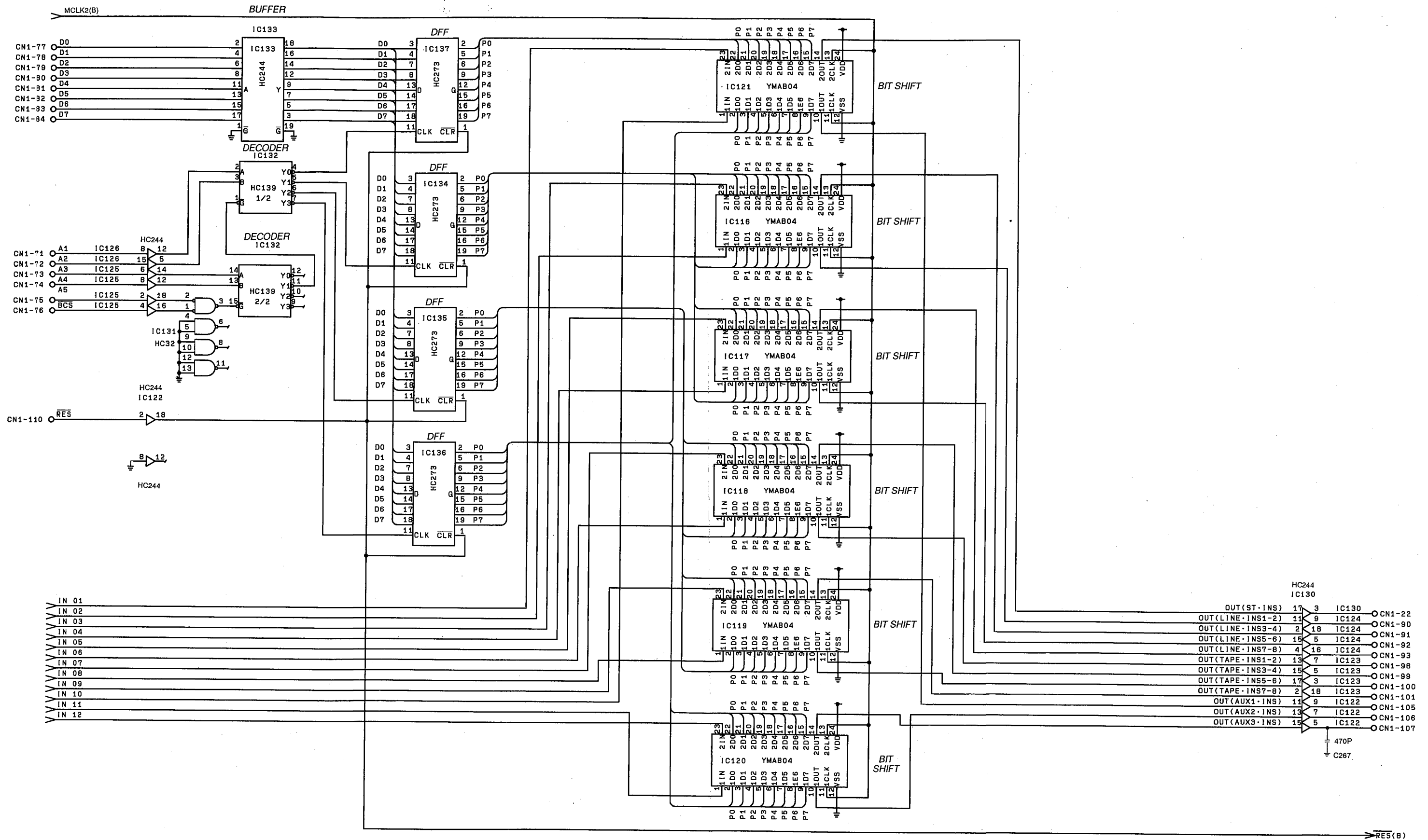


IN 1/2 CIRCUIT DIAGRAM 4/5 (INSERT(AUX))

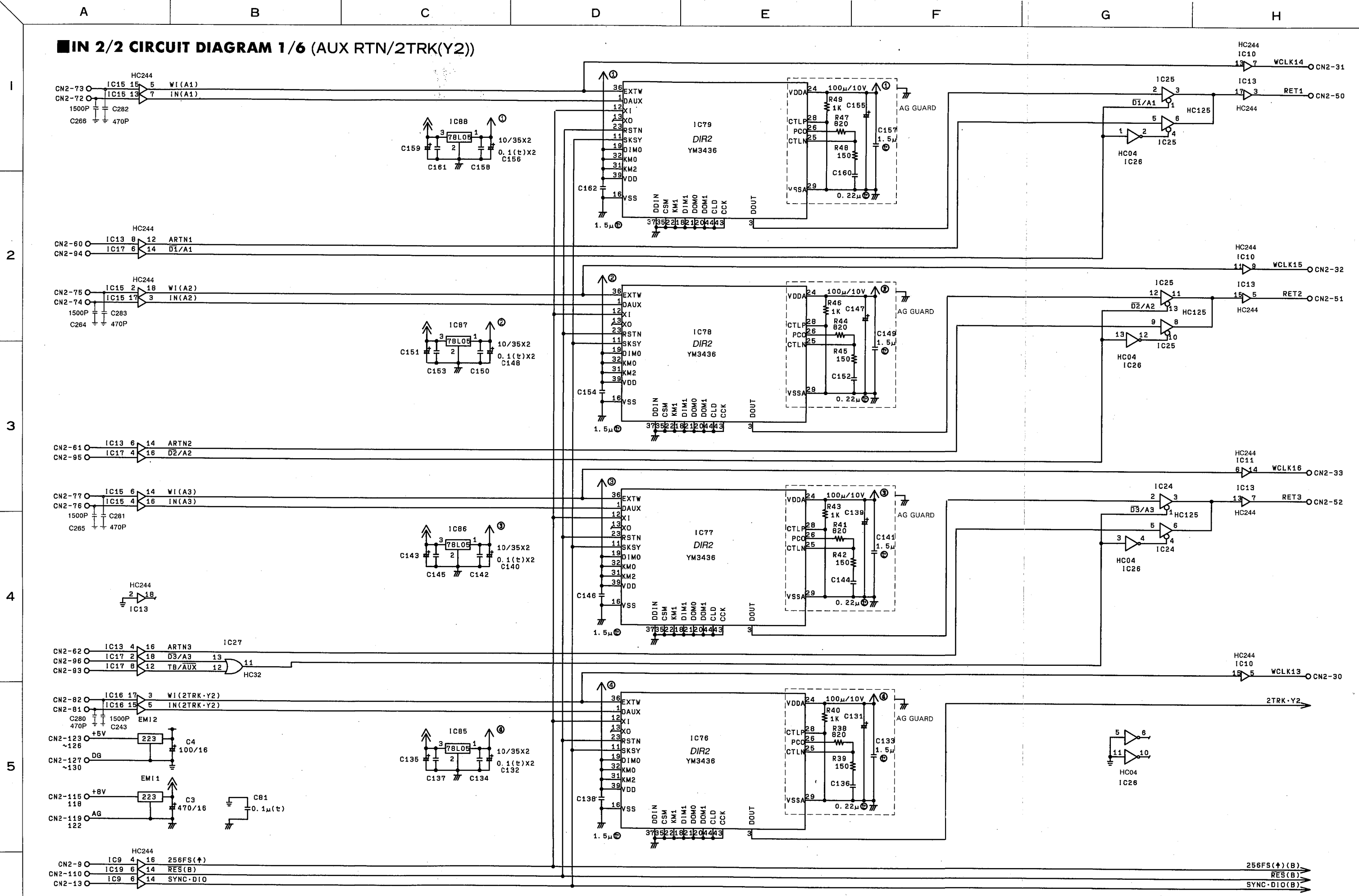


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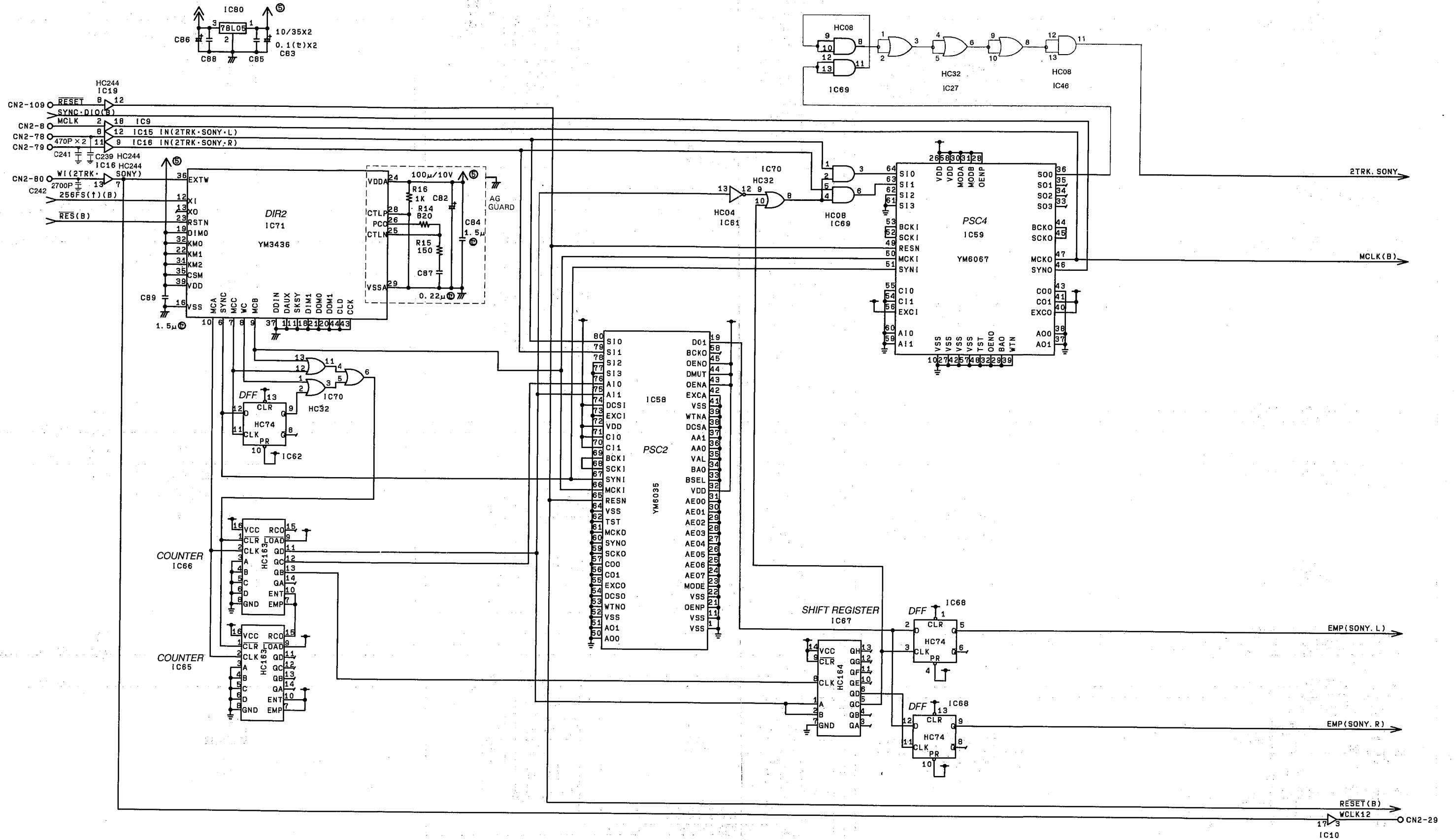
IN 1/2 CIRCUIT DIAGRAM 5/5 (BIT SHIFT)



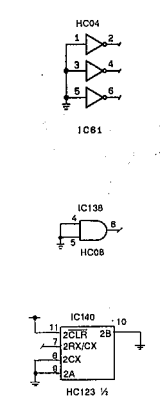
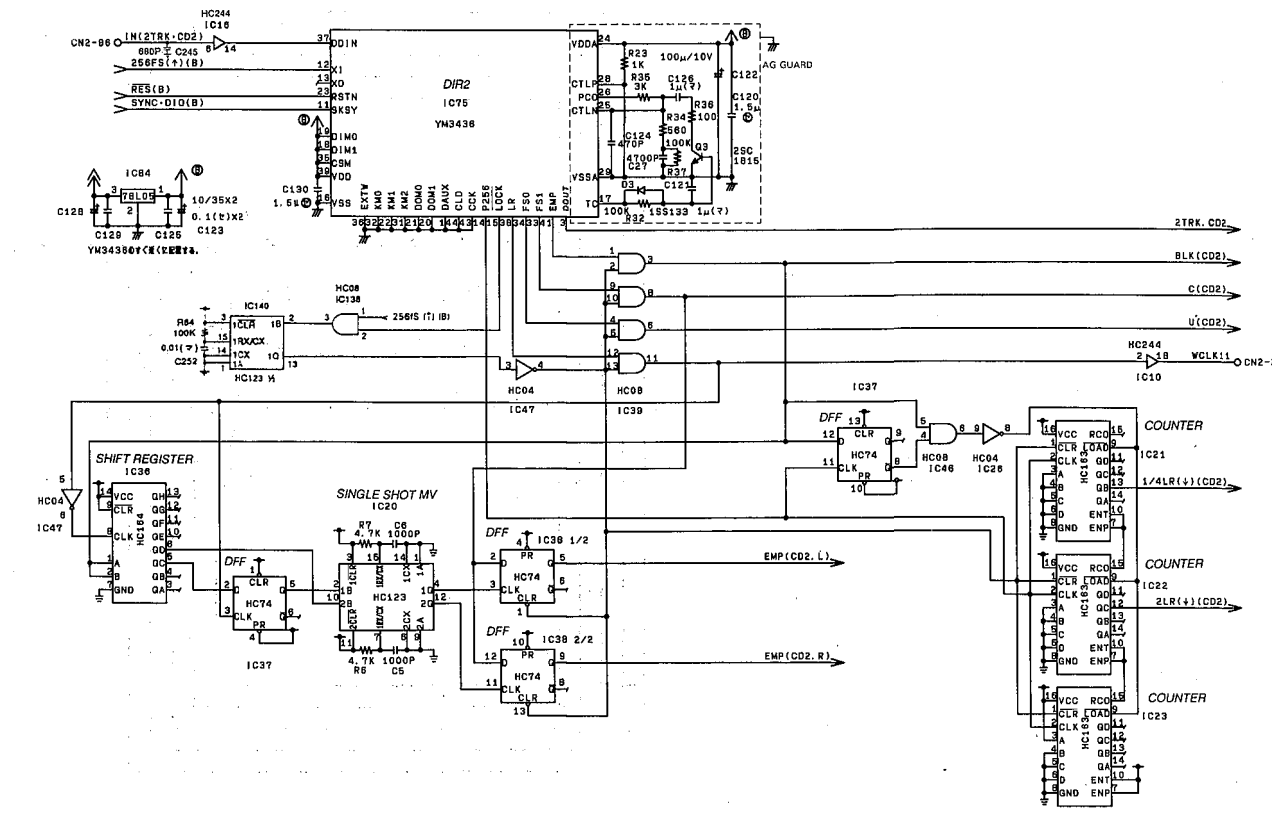
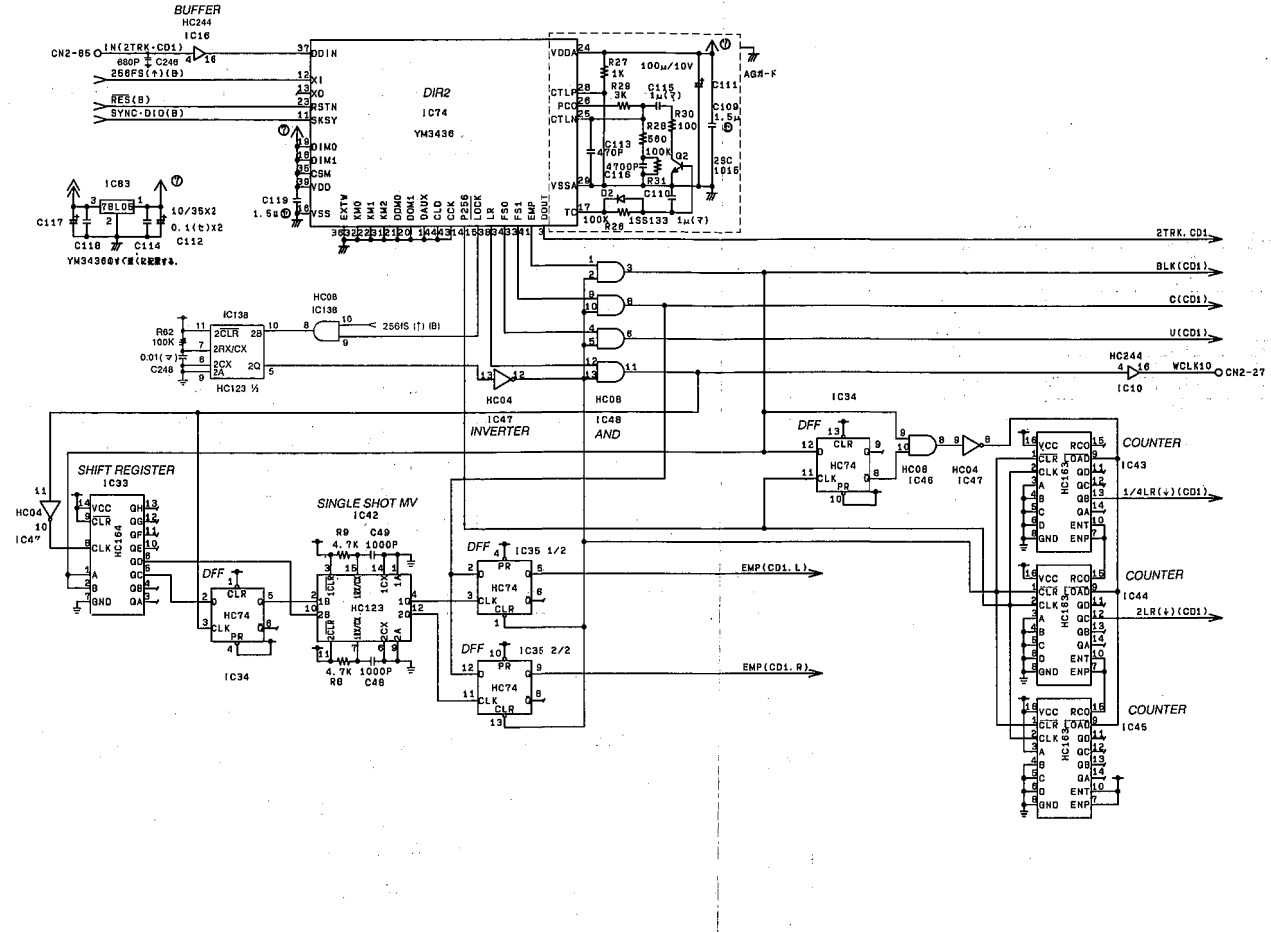
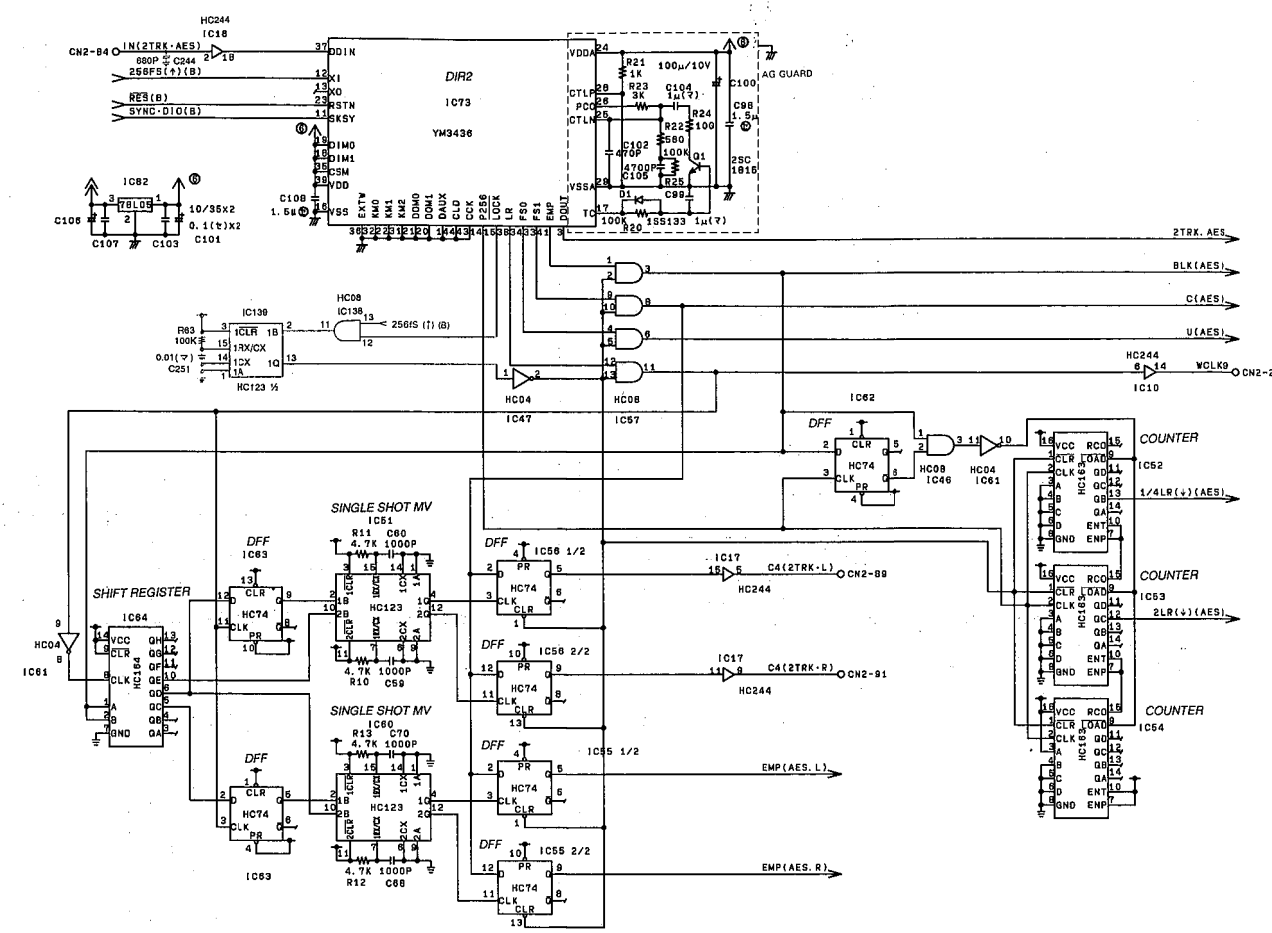
IN 2/2 CIRCUIT DIAGRAM 1/6 (AUX RTN/2TRK(Y2))



IN 2/2 CIRCUIT DIAGRAM 2/6 (2TRK(SONY))

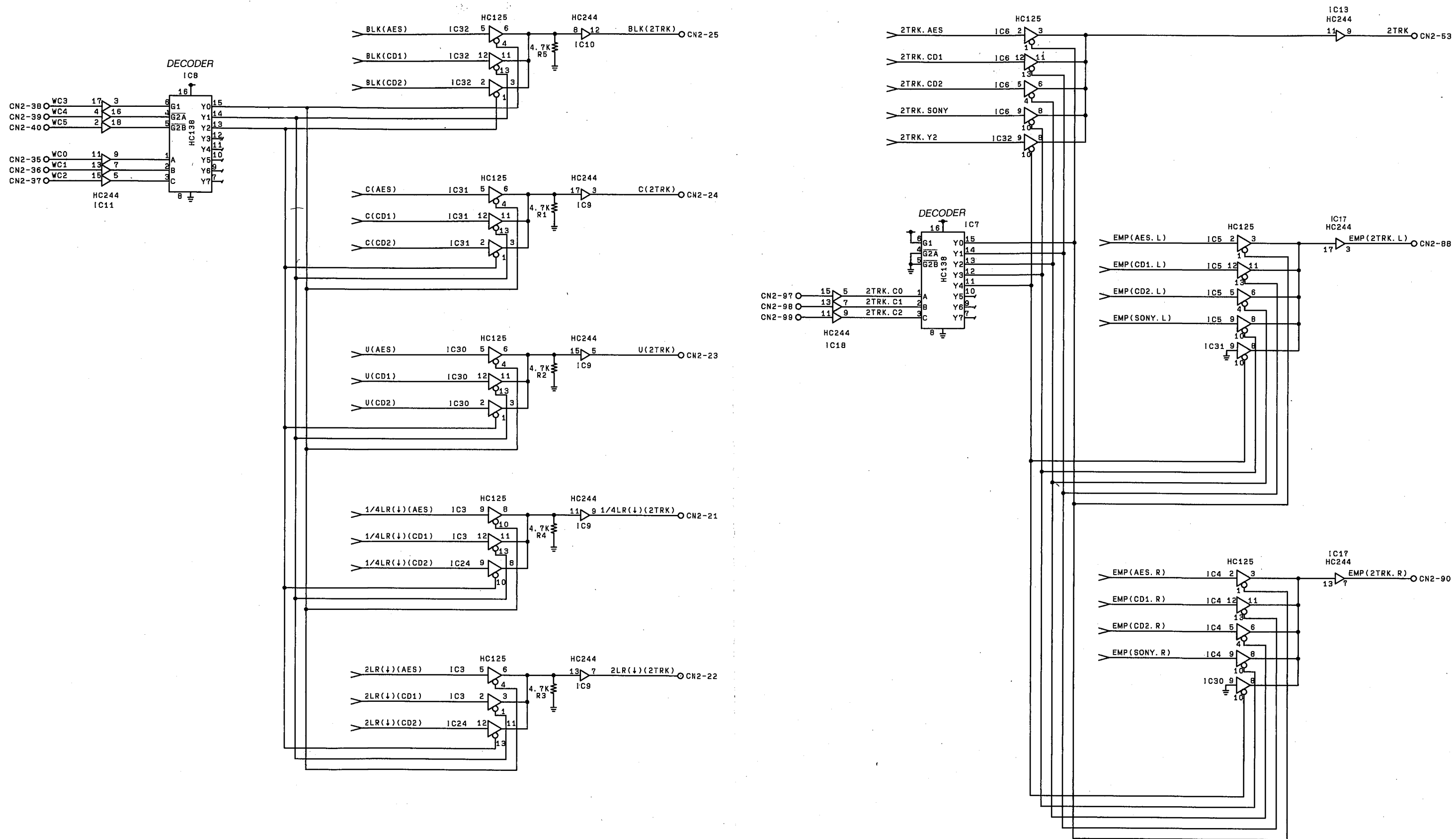


IN 2/2 CIRCUIT DIAGRAM 3/6 (2TRK(AES))

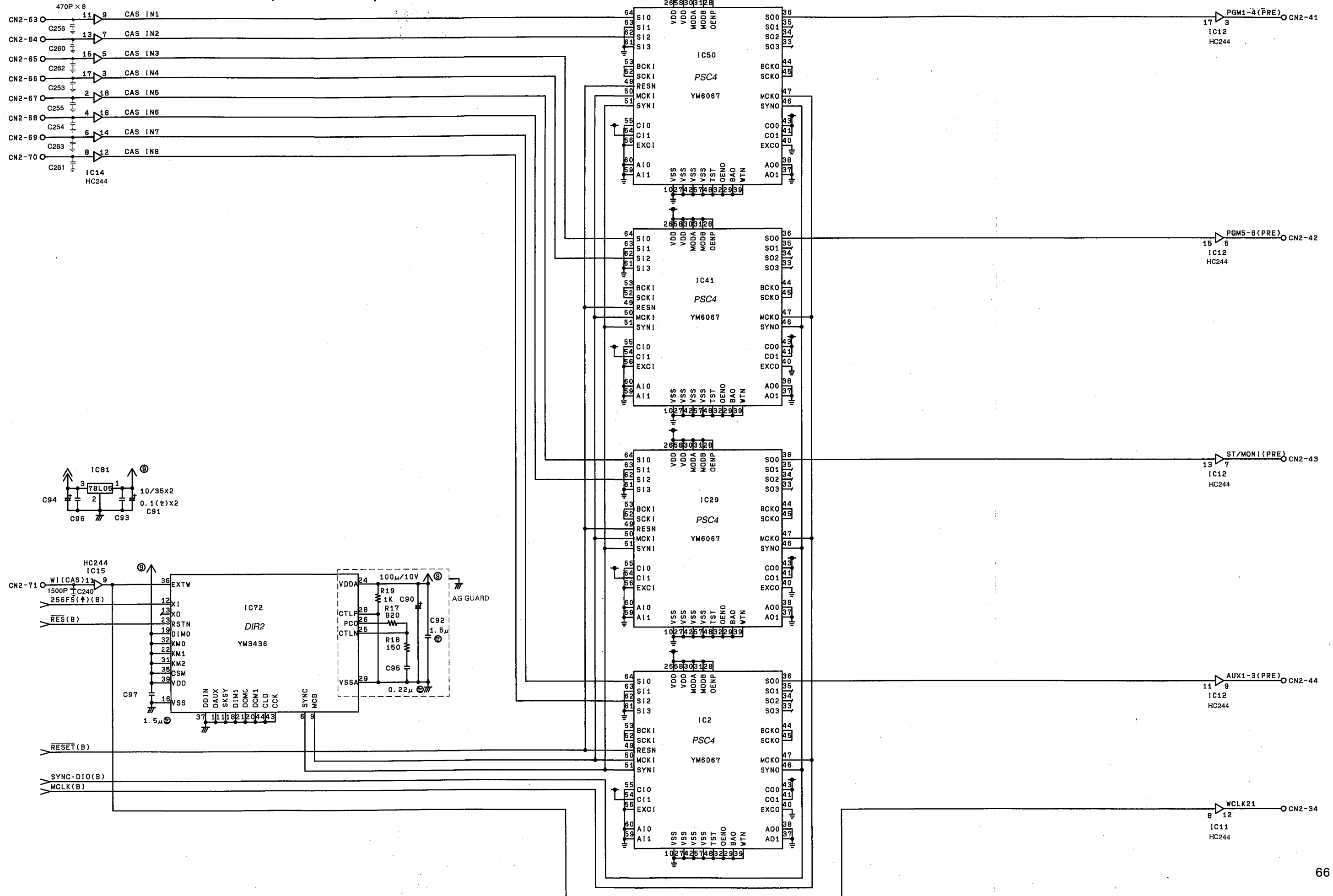


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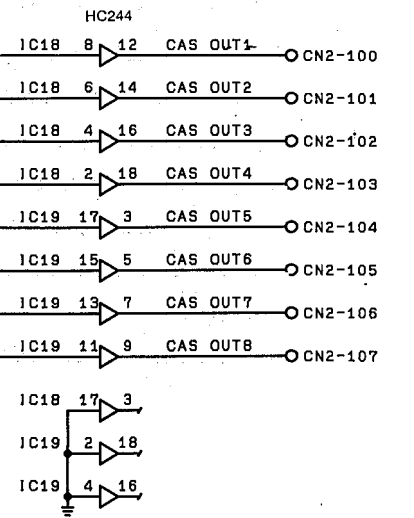
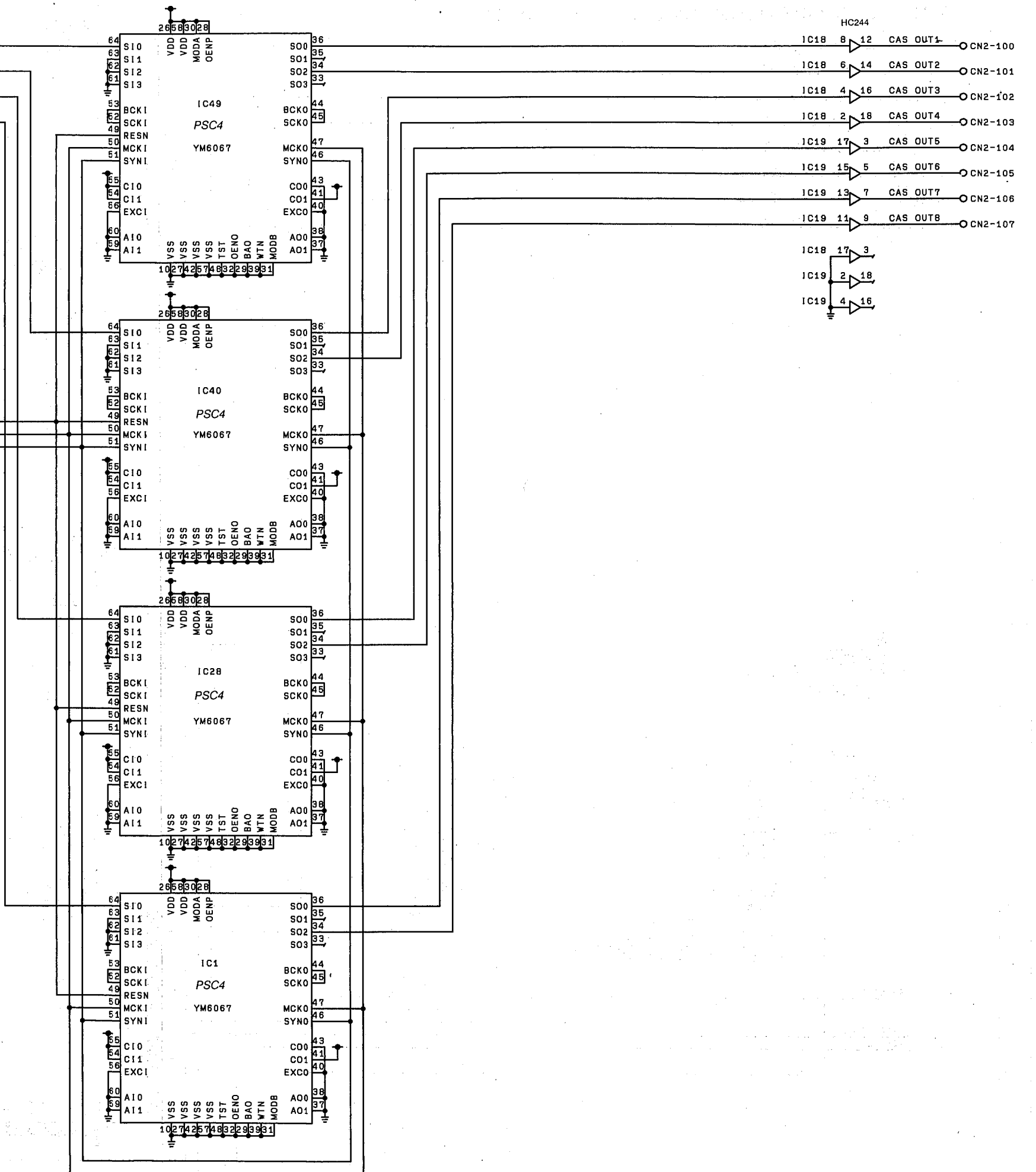
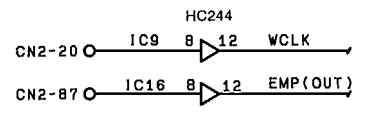
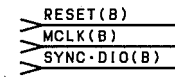
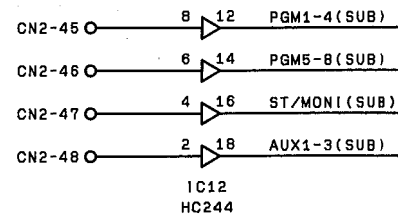
IN 2/2 CIRCUIT DIAGRAM 4/6 (2TRK(SEL))



IN 2/2 CIRCUIT DIAGRAM 5/6 (CASCADE IN)



IN 2/2 CIRCUIT DIAGRAM 6/6 (CASCADE OUT)



MBD CIRCUIT DIAGRAM 1/3

A B C D E F G H

1

2

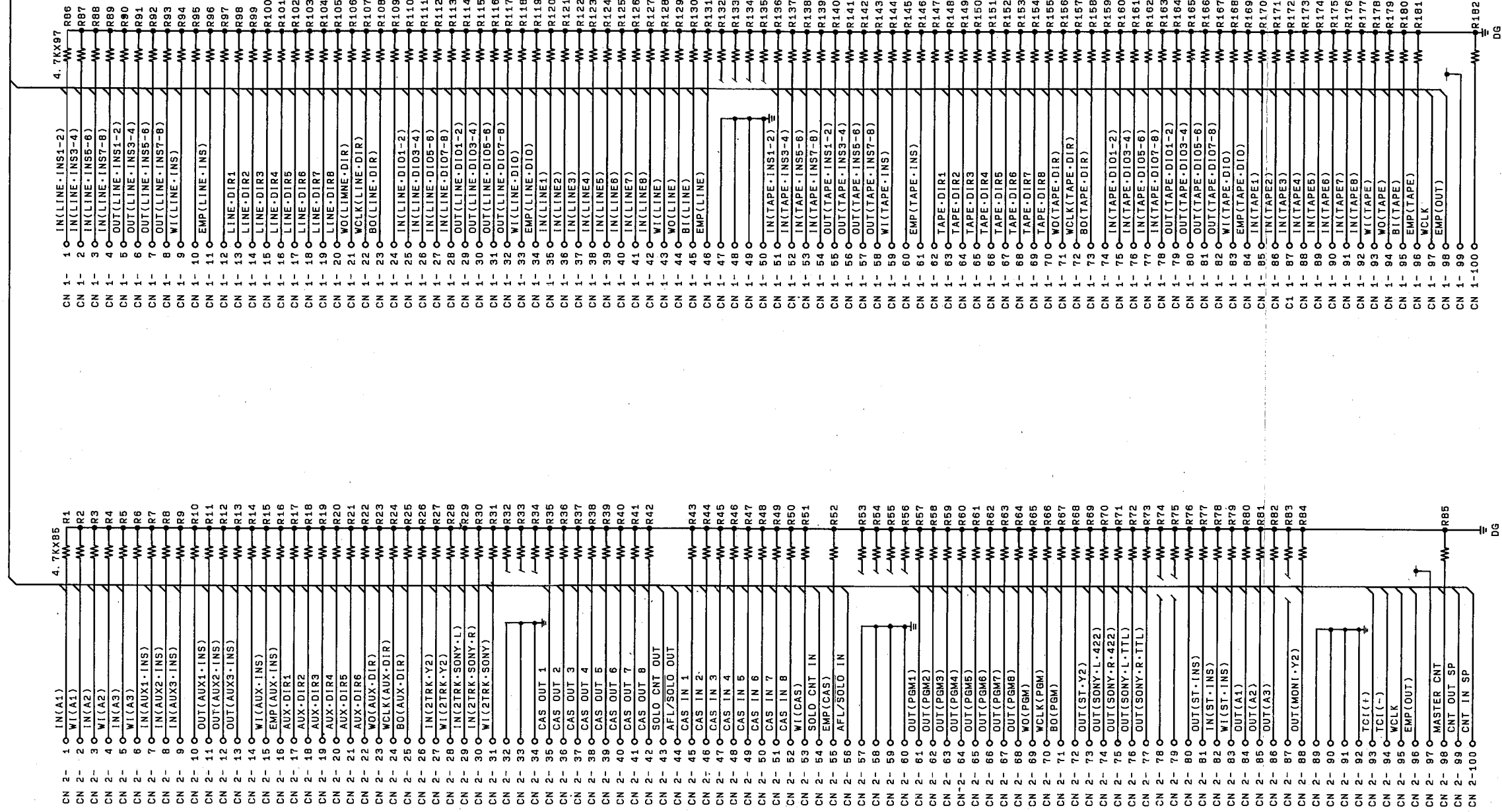
3

4

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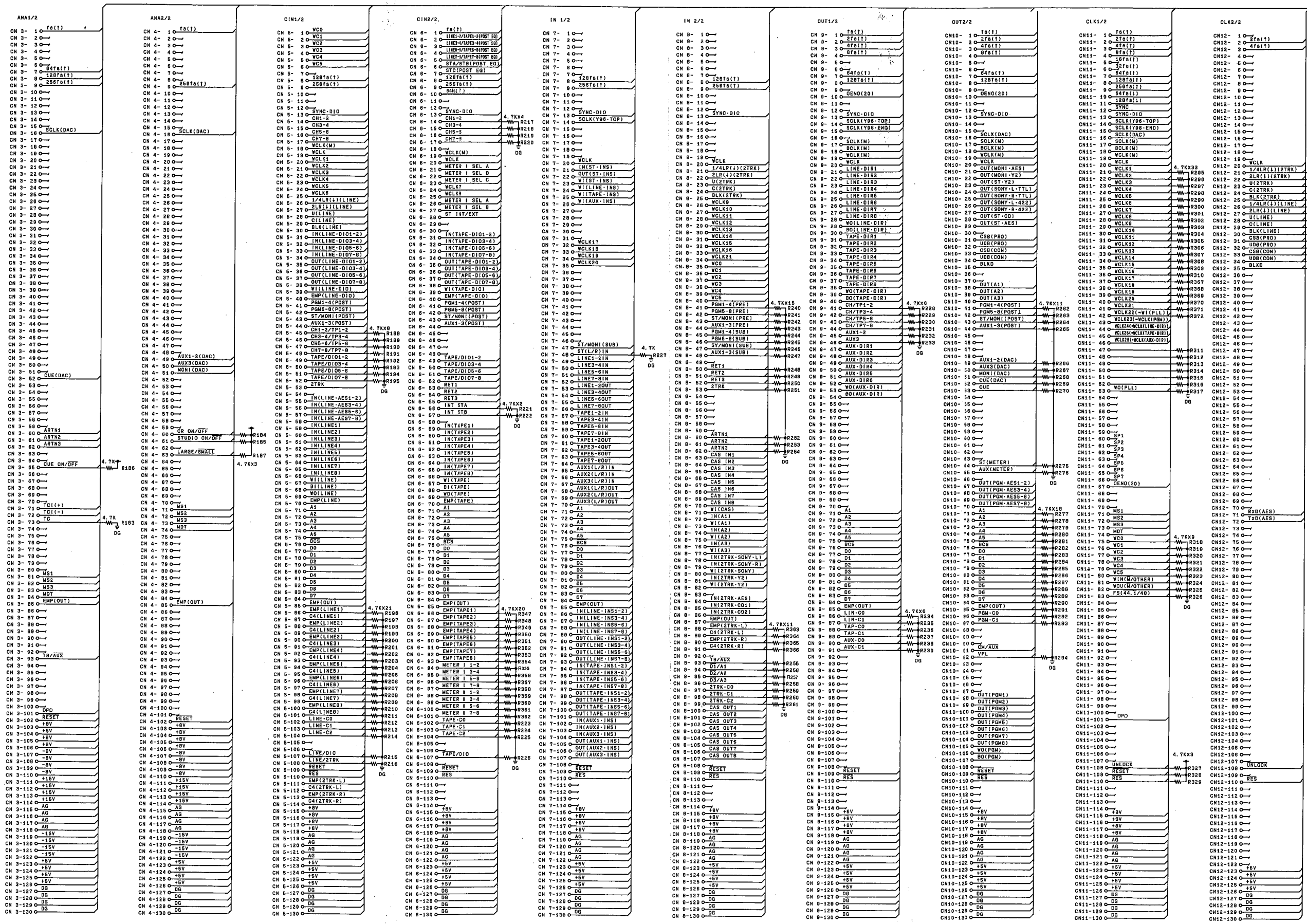
6

2/3, 3/3



MBD CIRCUIT DIAGRAM 2/3

A B C D E F G H



2

3

4

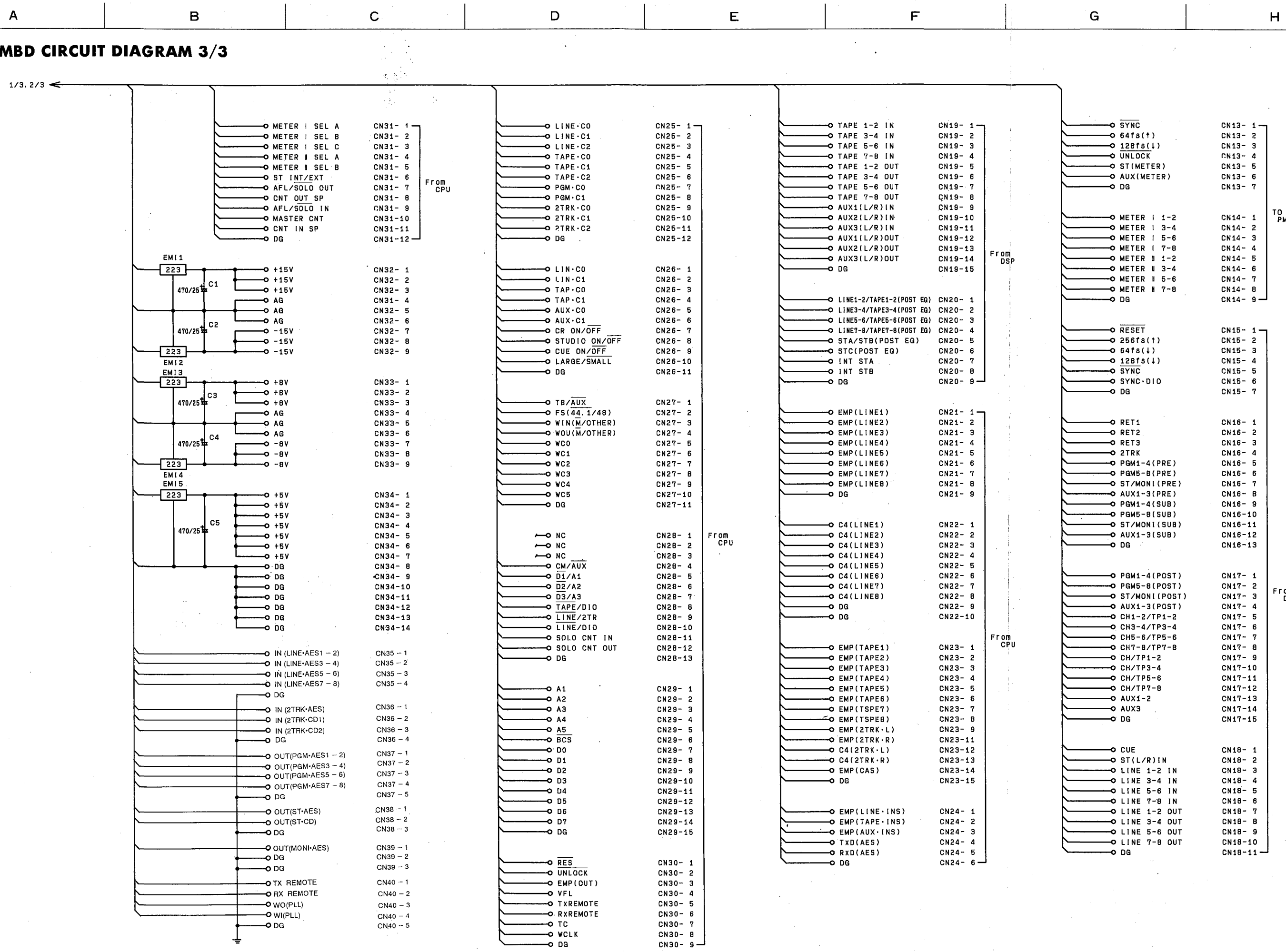
5

6

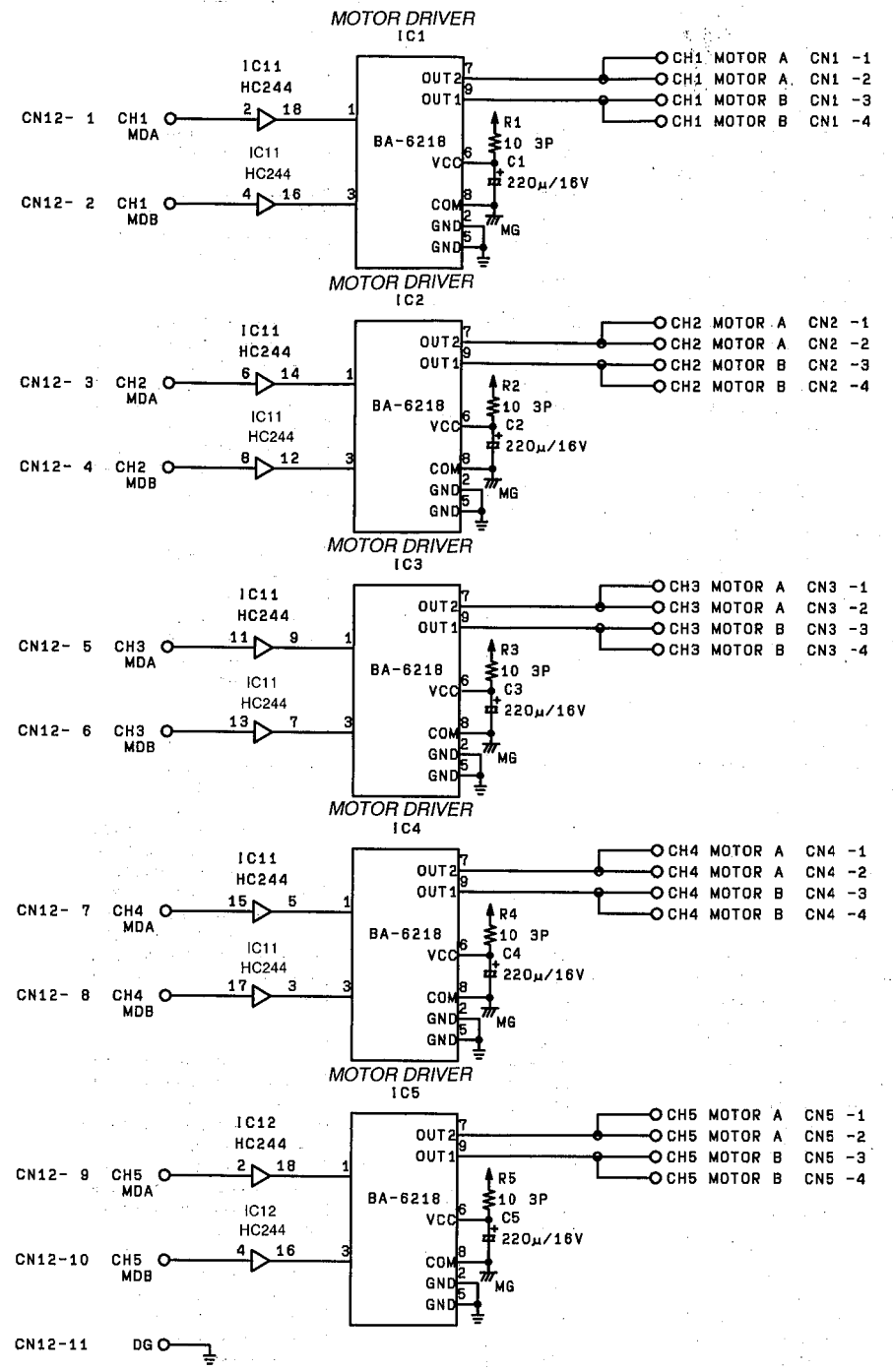
MBD CIRCUIT DIAGRAM 3/3

1/3, 2/3 ←

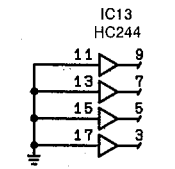
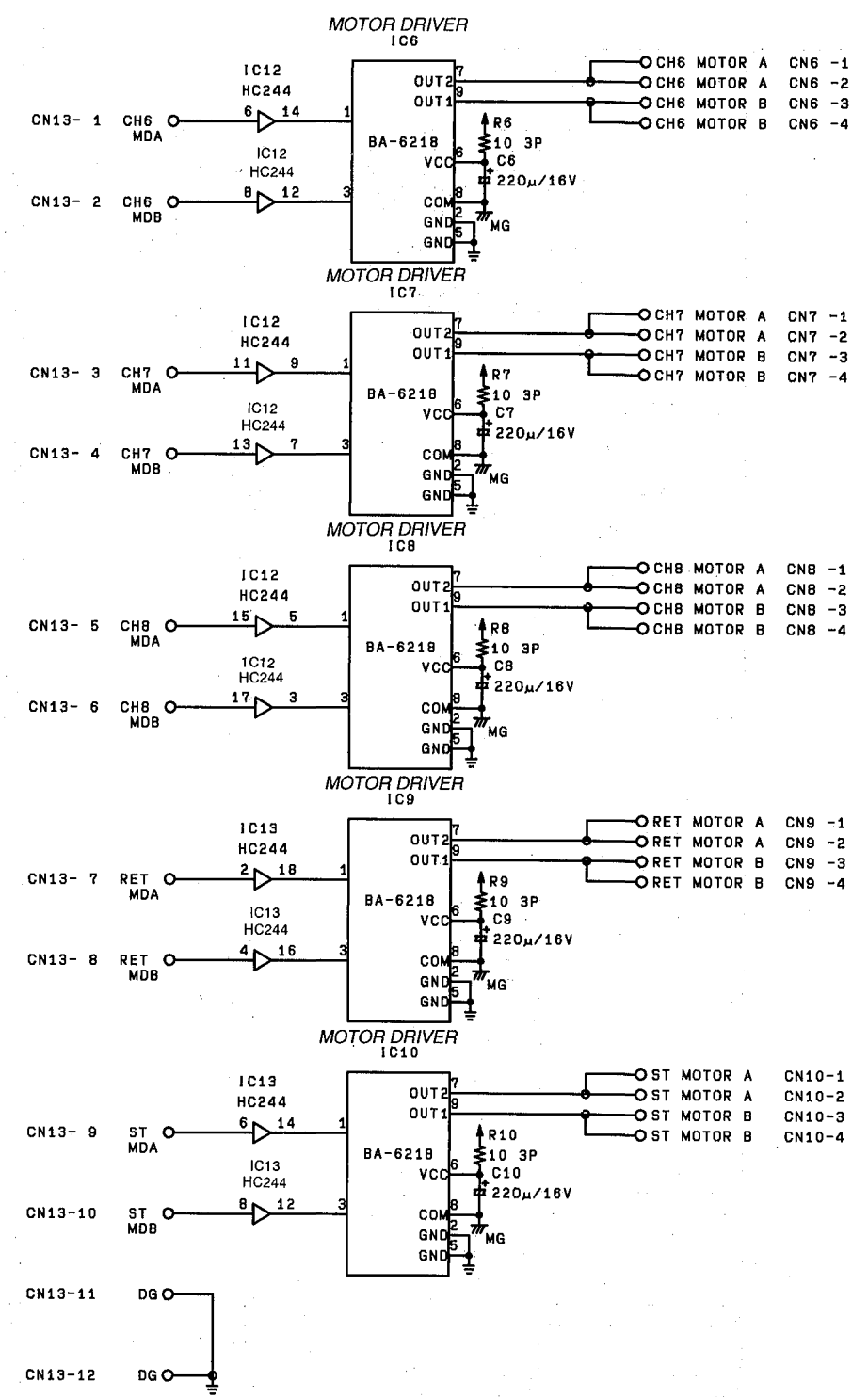
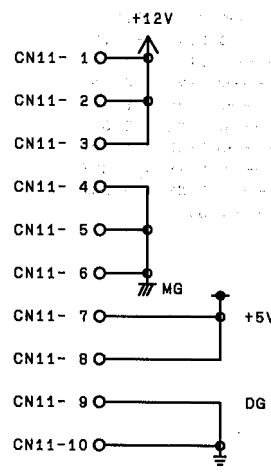
1
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MDR CIRCUIT DIAGRAM



* Bypass capacitors: C11, C12, C13



A

B

C

D

NML CIRCUIT DIAGRAM

1

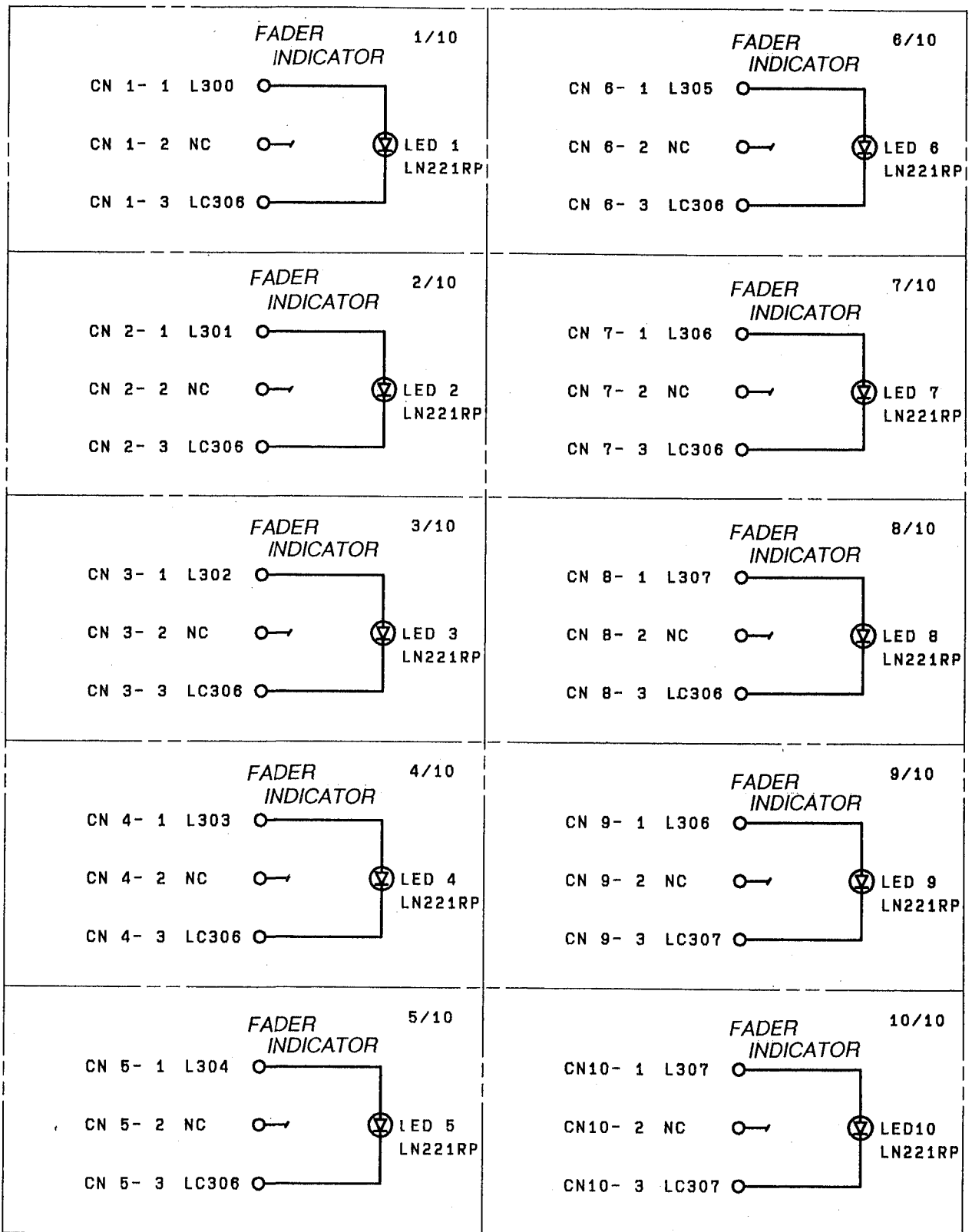
2

3

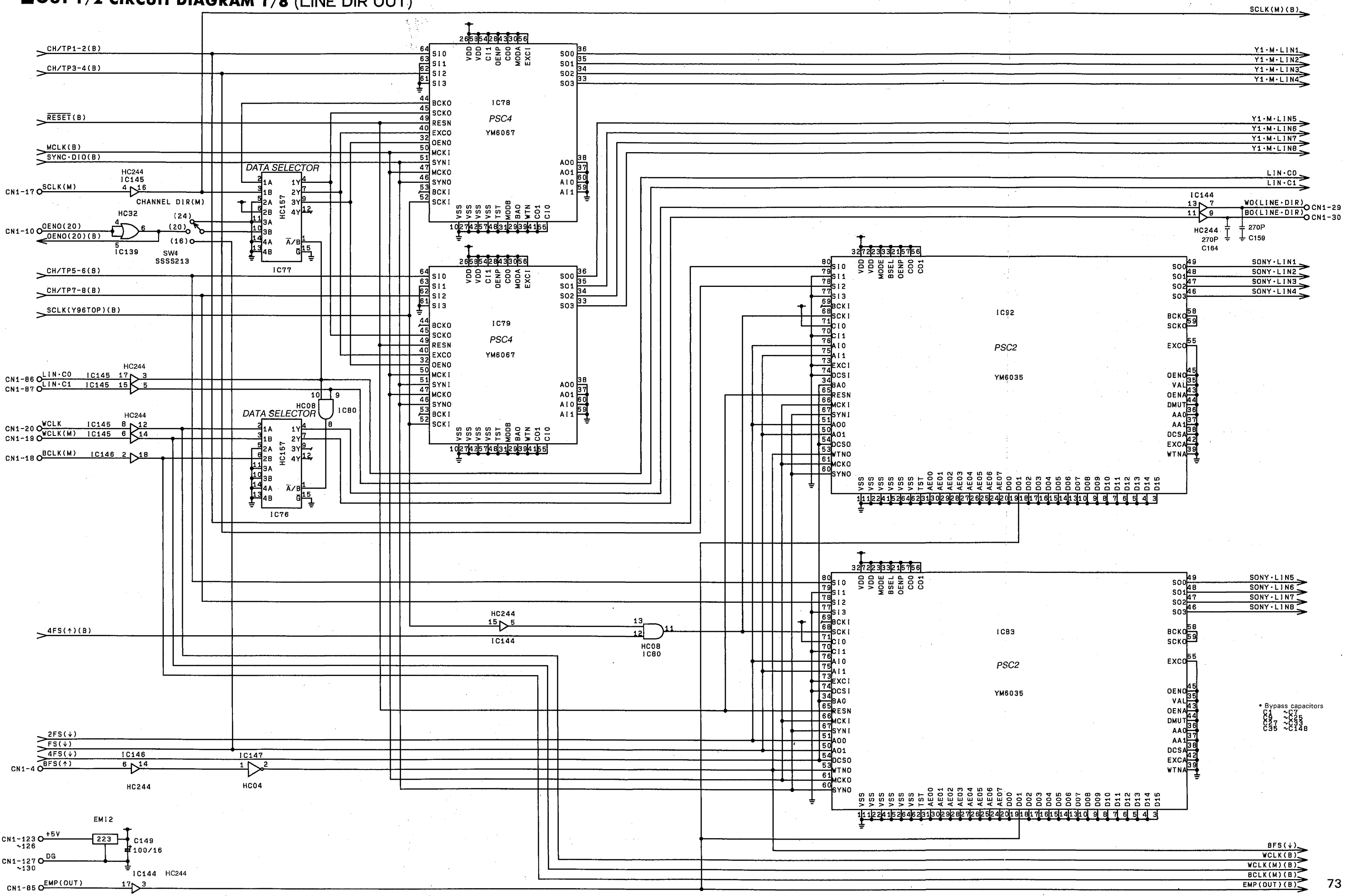
4

5

6

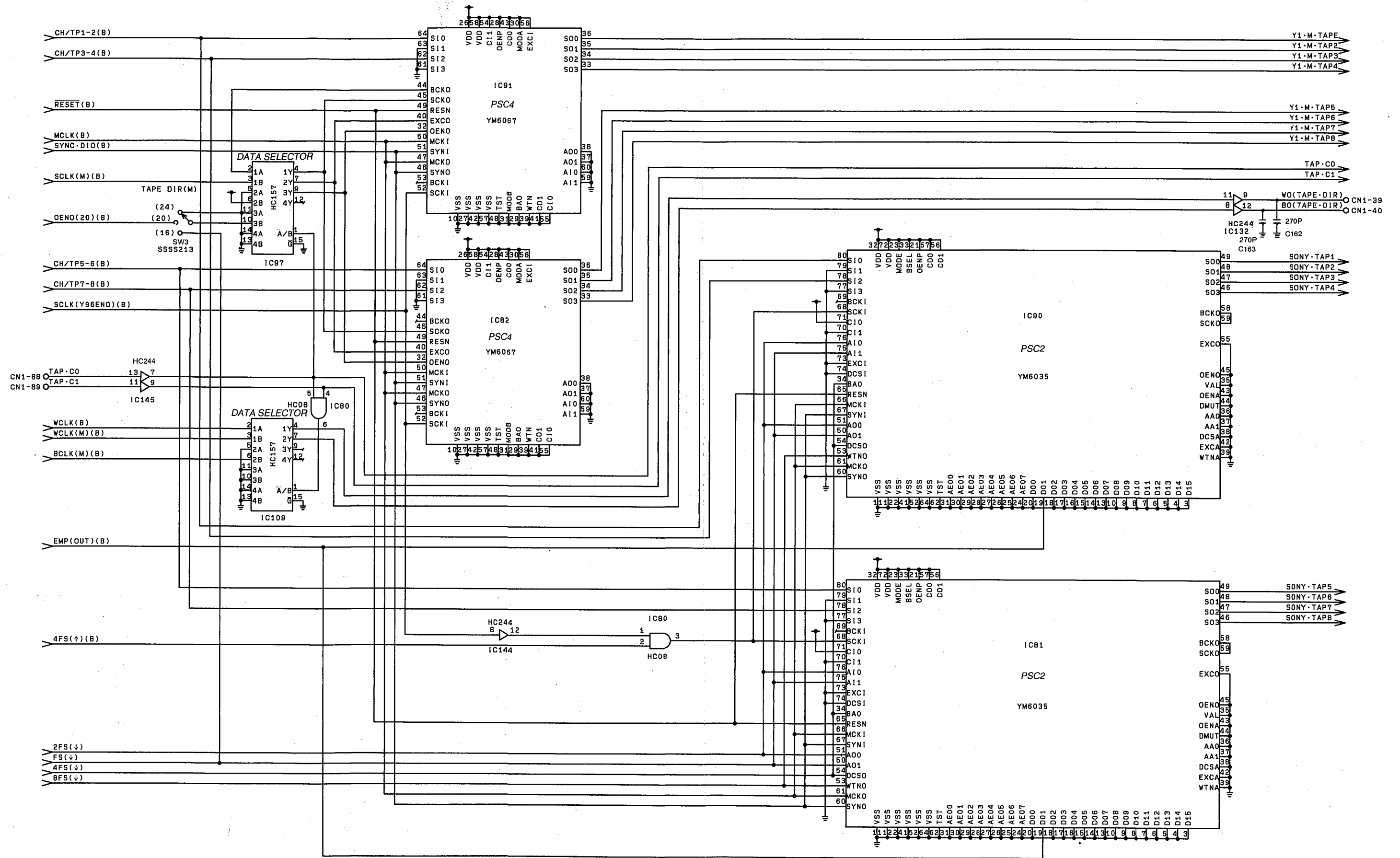


OUT 1/2 CIRCUIT DIAGRAM 1/8 (LINE DIR OUT)

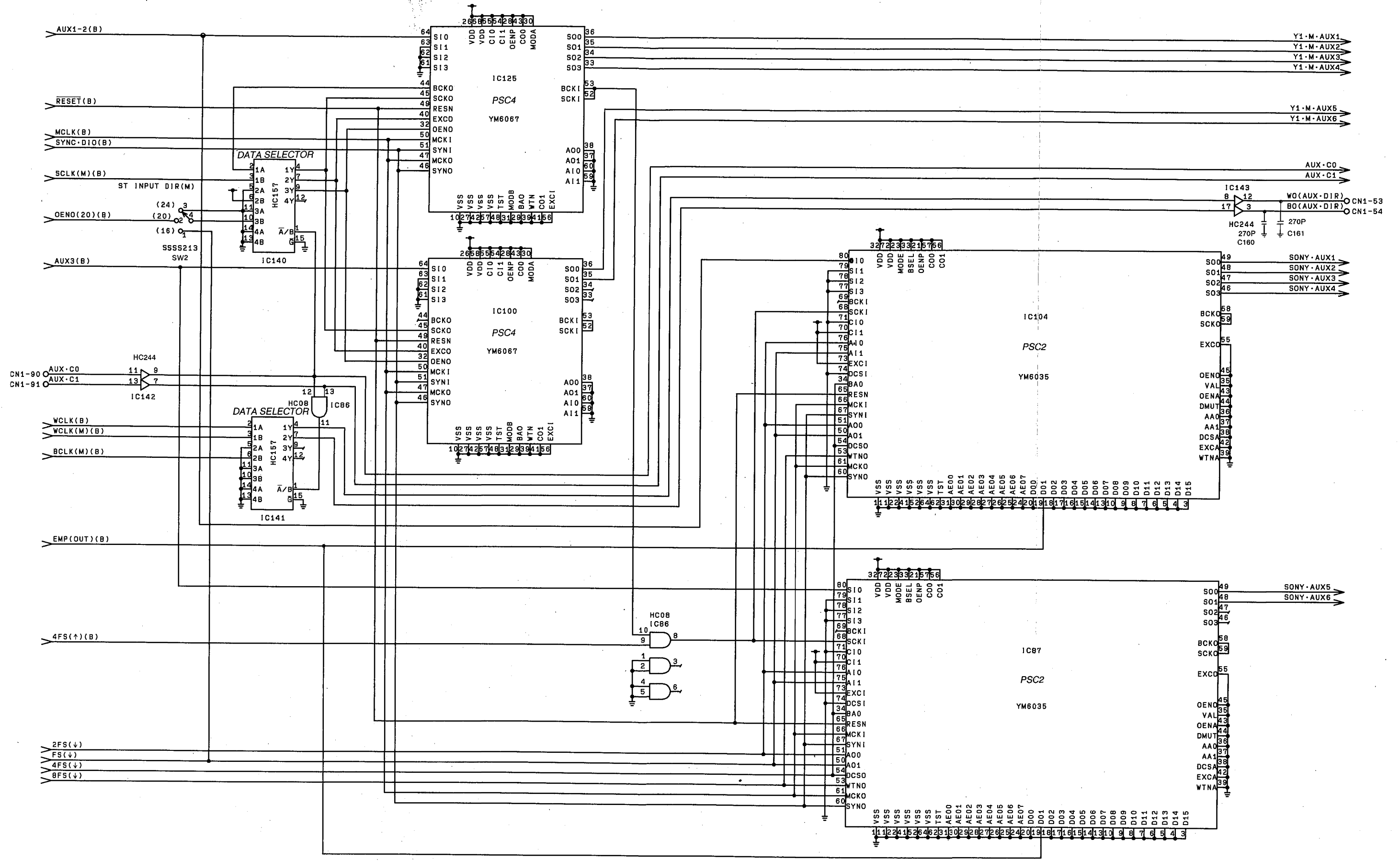


* Bypass capacitors
 C1 ~C7 ~2R7
 C27 ~C35 ~5R5
 C35 ~C14B

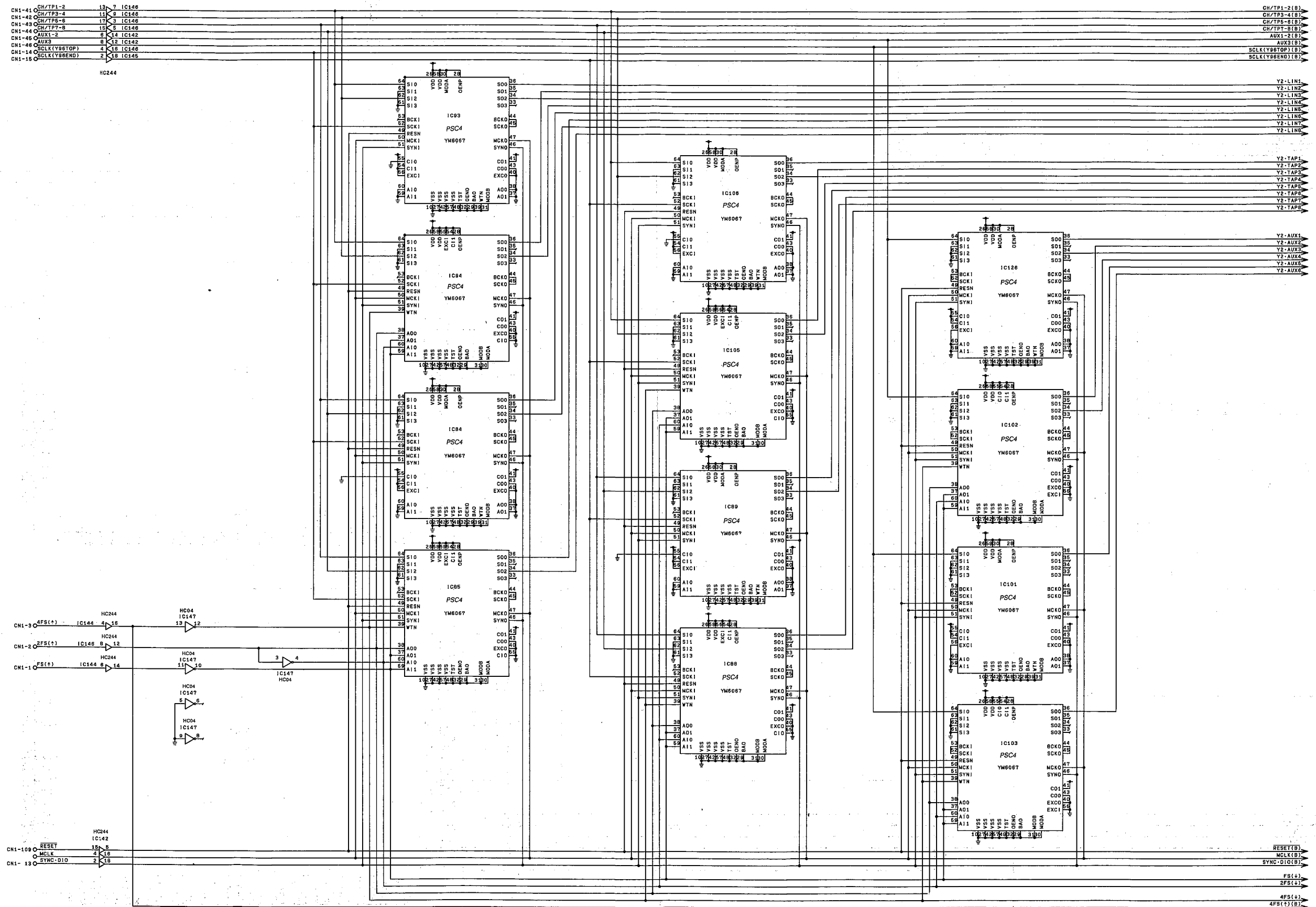
OUT 1/2 CIRCUIT DIAGRAM 2/8 (TAPE DIR OUT)



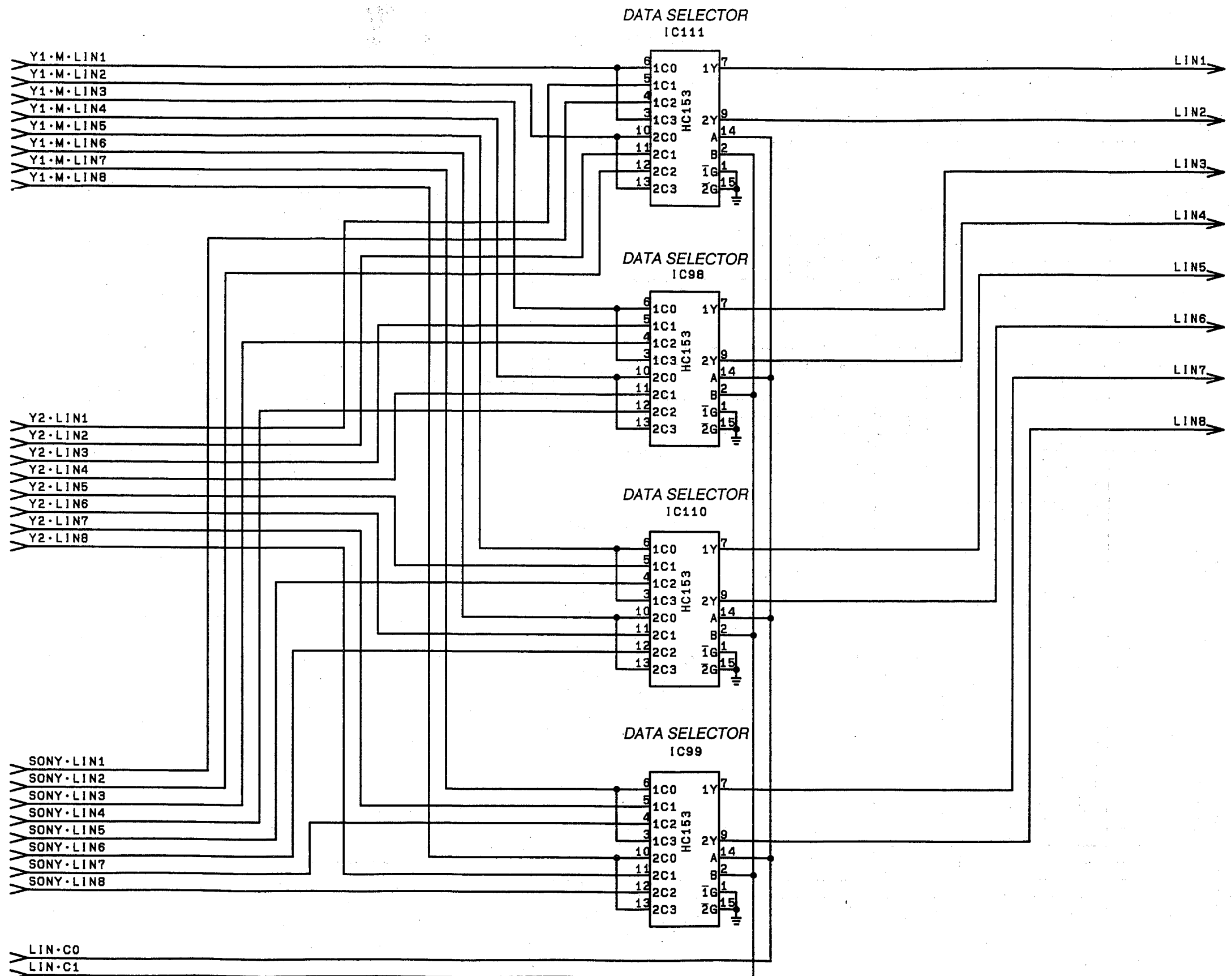
OUT 1/2 CIRCUIT DIAGRAM 3/8 (AUX DIR OUT)



OUT 1/2 CIRCUIT DIAGRAM 4/8 (DIRECT OUT)

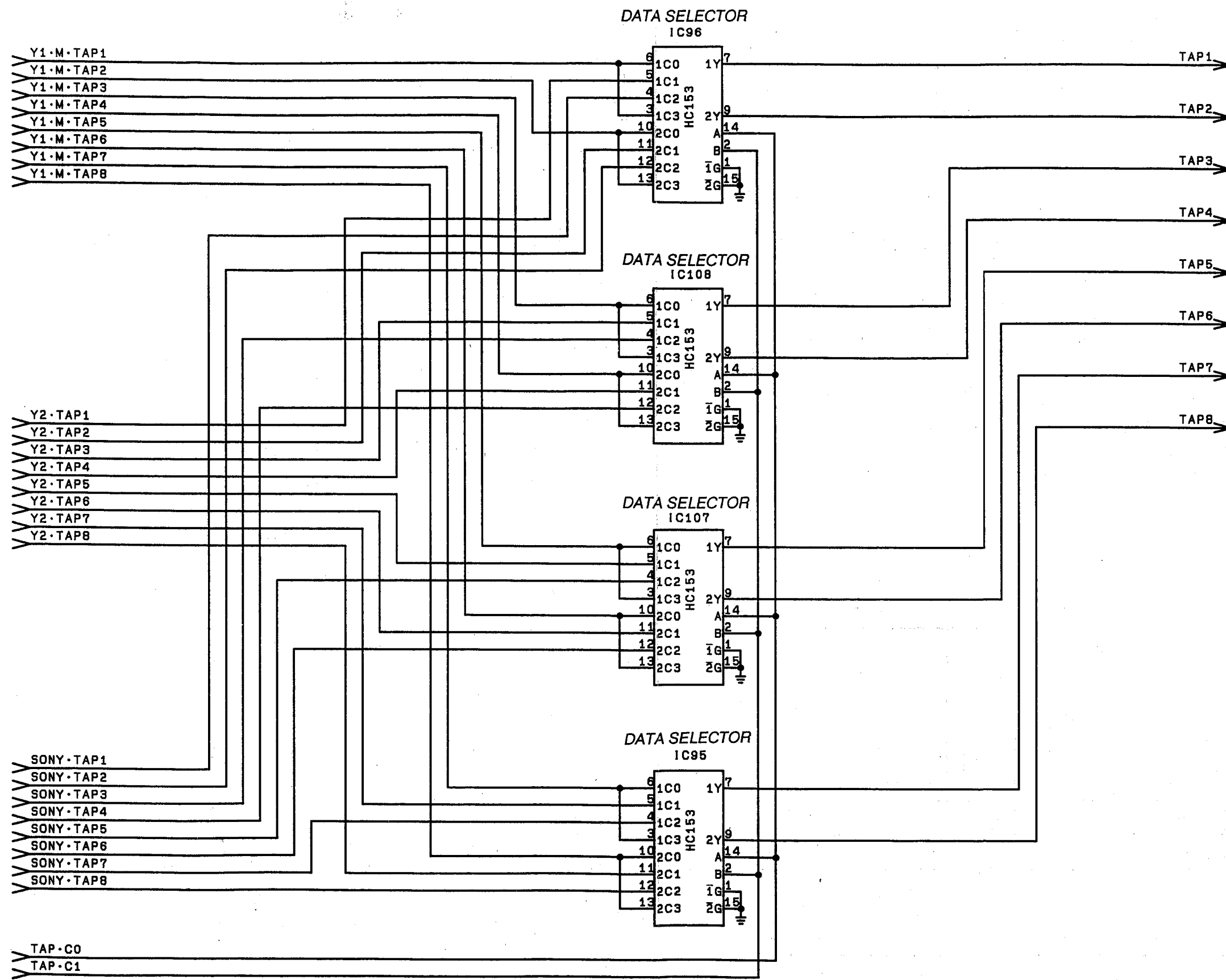


OUT 1/2 CIRCUIT DIAGRAM 5/8 (LINE DIR OUT SEL)

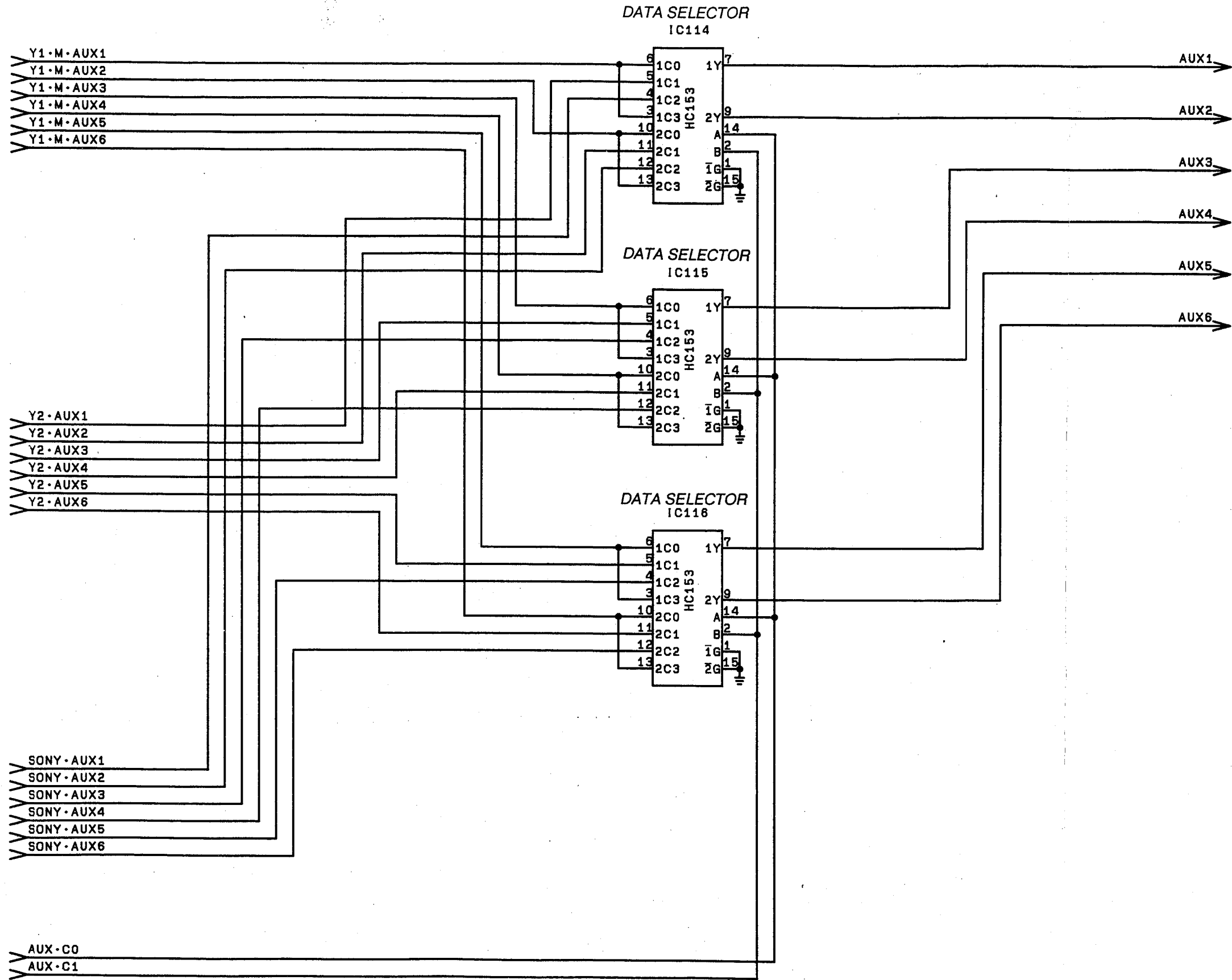


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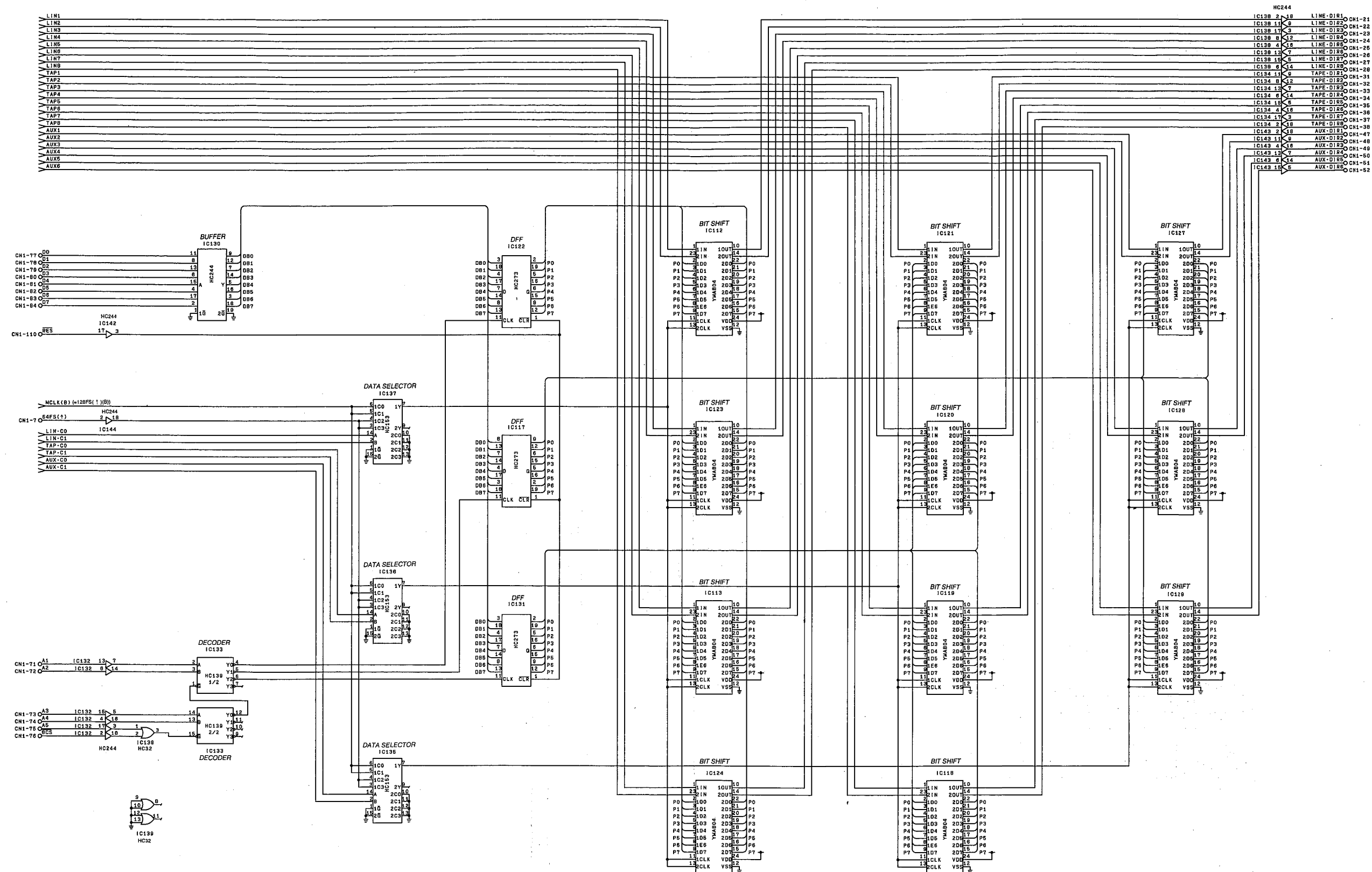
OUT 1/2 CIRCUIT DIAGRAM 6/8 (TAPE DIR OUT SEL)



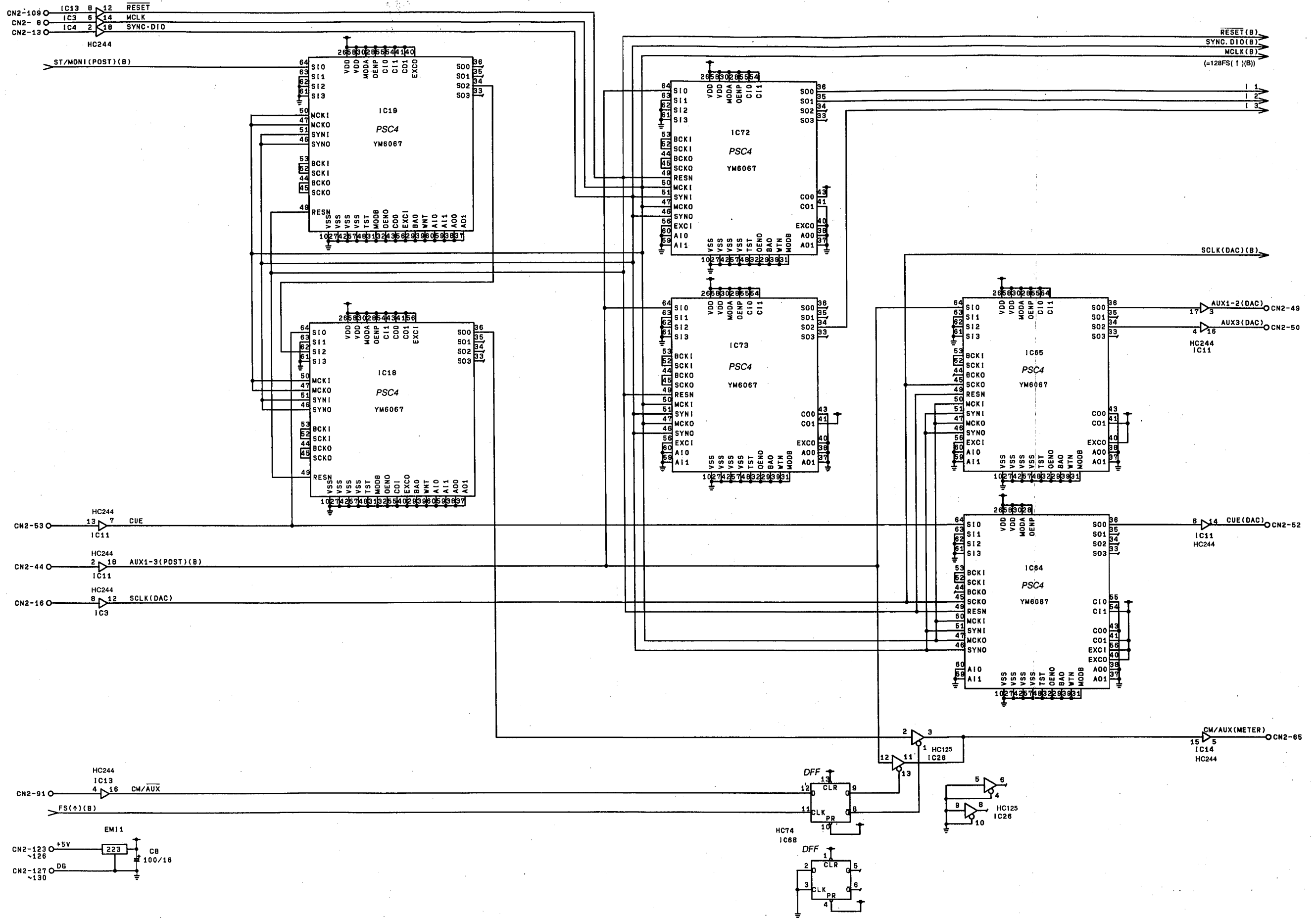
OUT 1/2 CIRCUIT DIAGRAM 7/8 (AUX DIR OUT SEL)



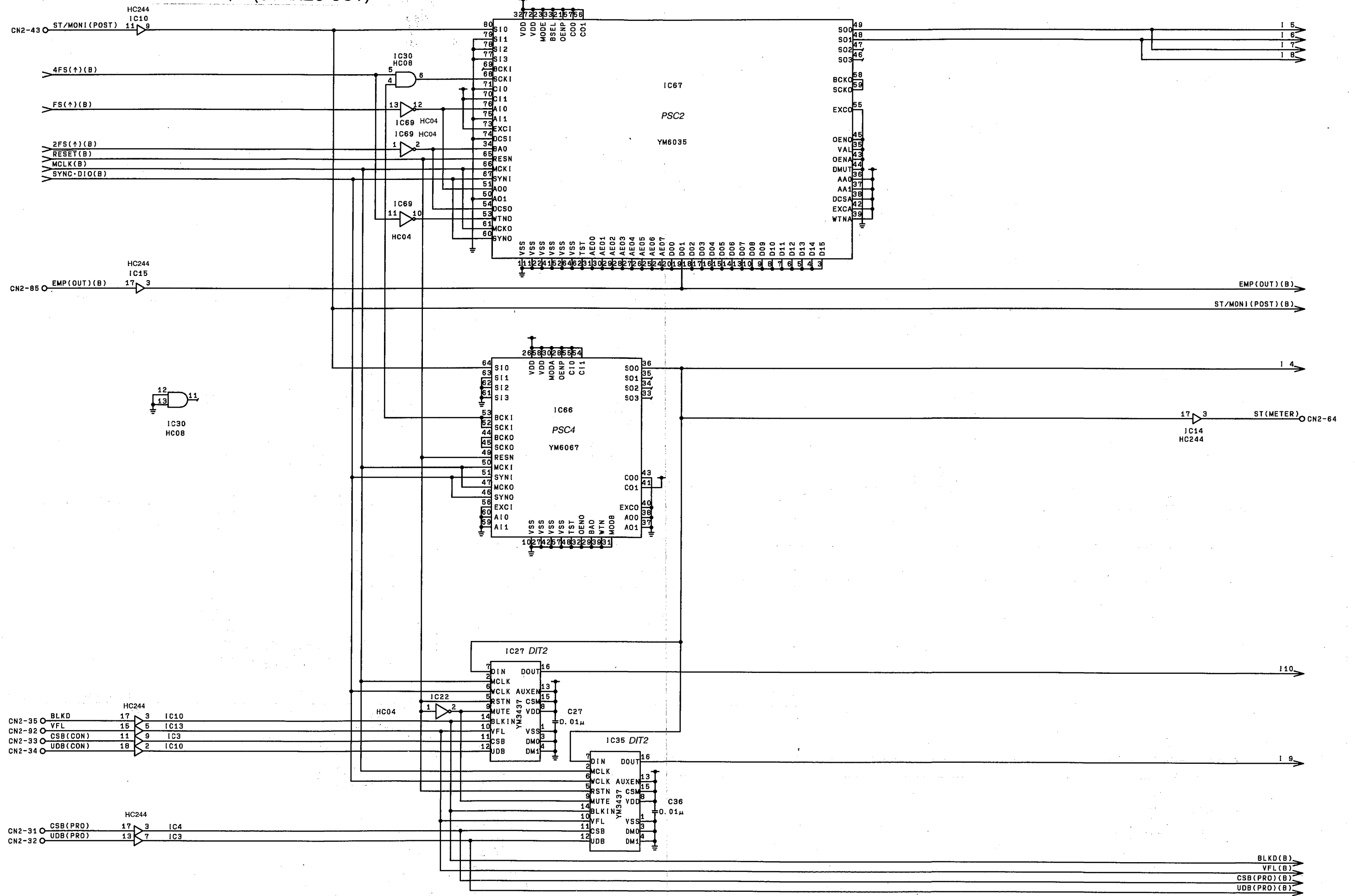
OUT 1/2 CIRCUIT DIAGRAM 8/8 (DIR OUT BS)



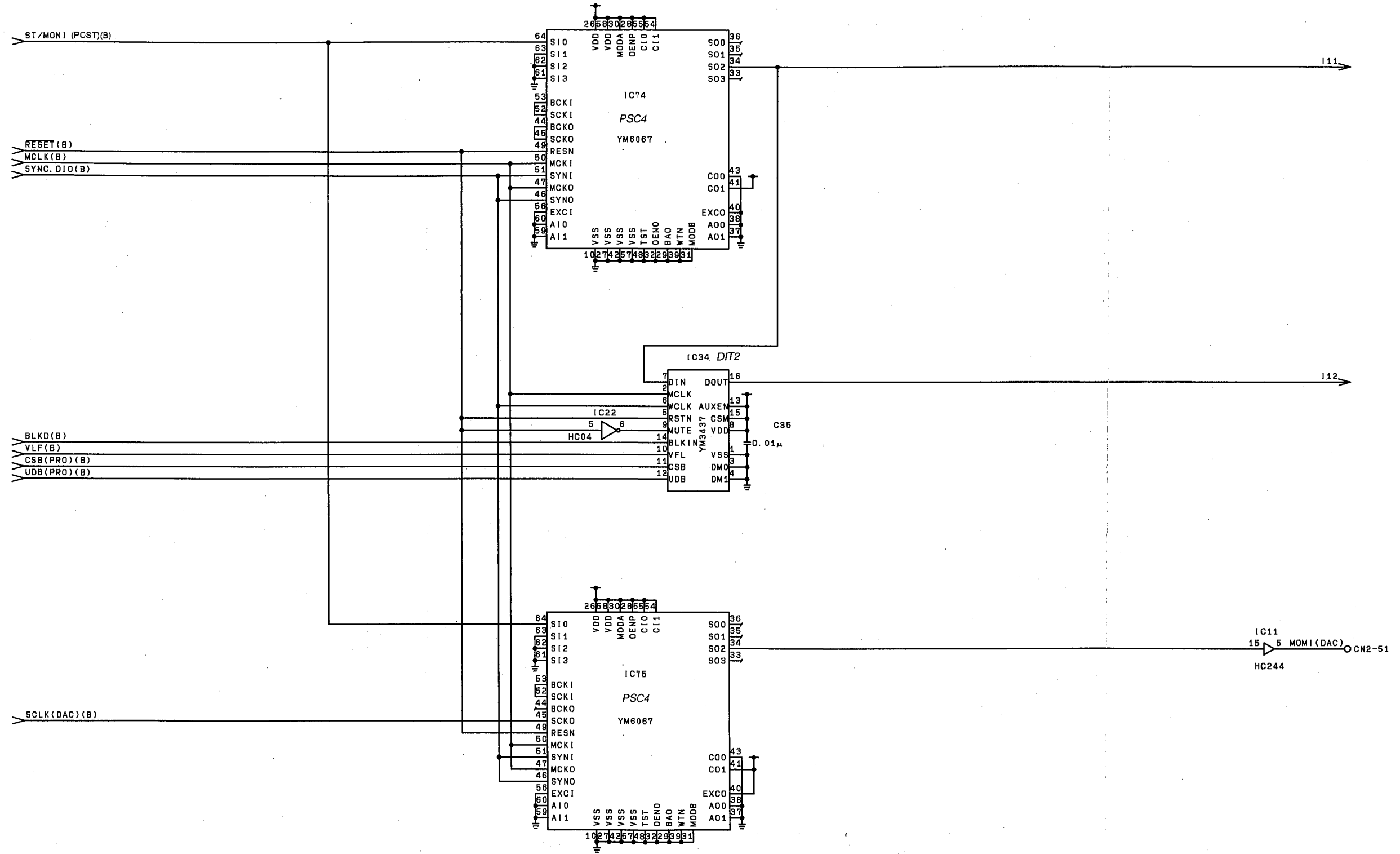
OUT 2/2 CIRCUIT DIAGRAM 1/7 (AUX SEND, HEADPHONE)



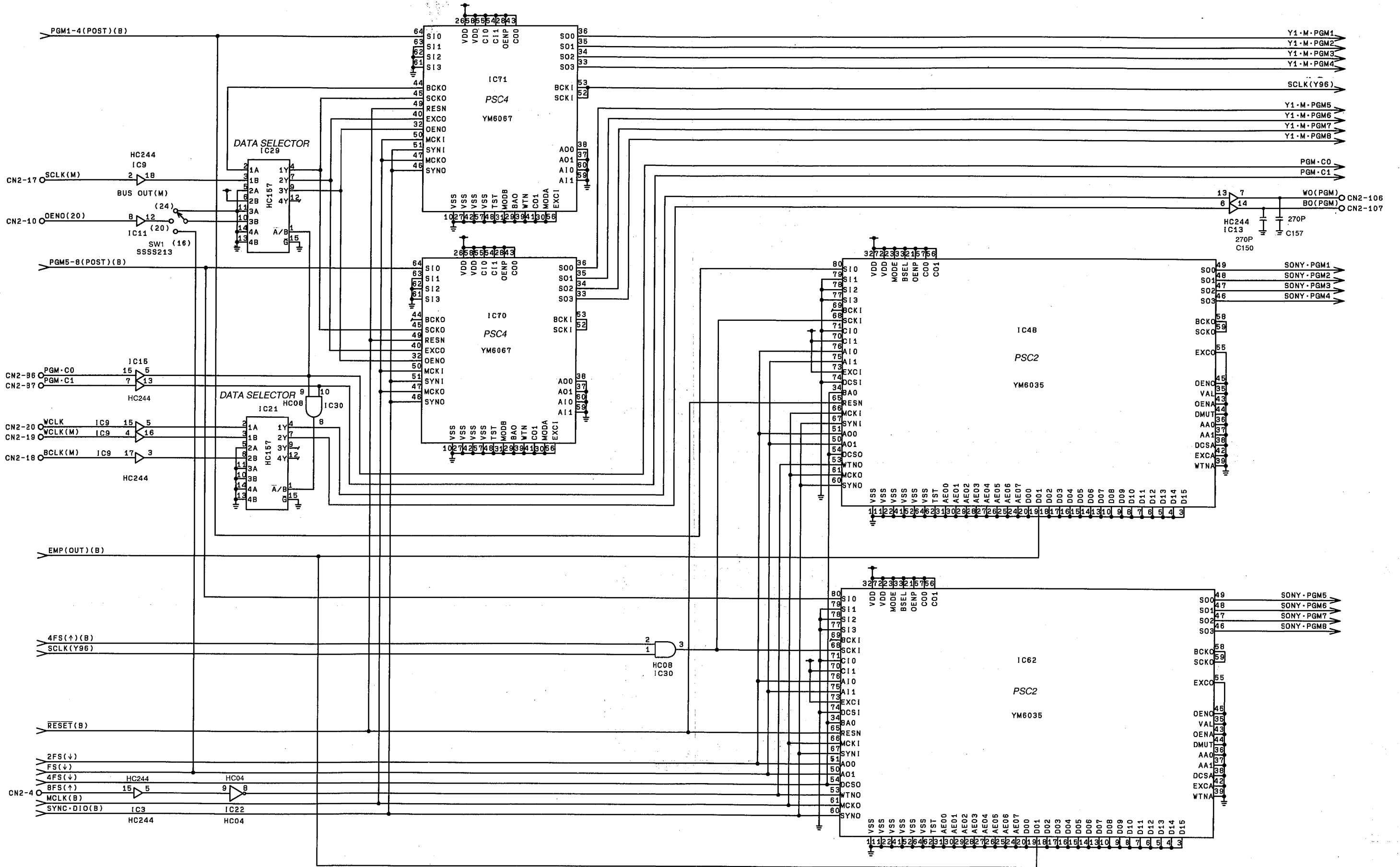
OUT 2/2 CIRCUIT DIAGRAM 2/7 (STEREO OUT)



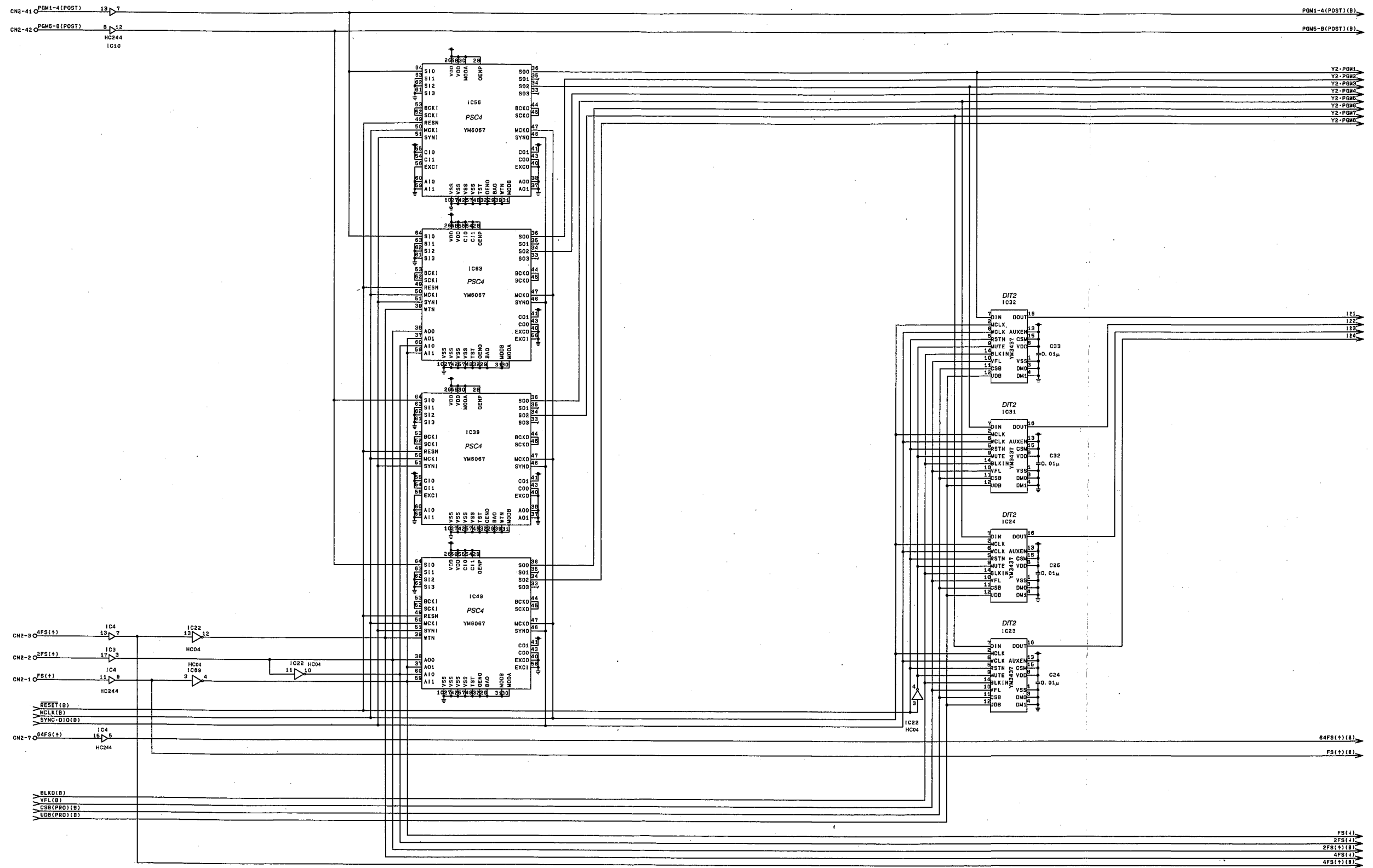
OUT 2/2 CIRCUIT DIAGRAM 3/7 (MONITOR OUT)



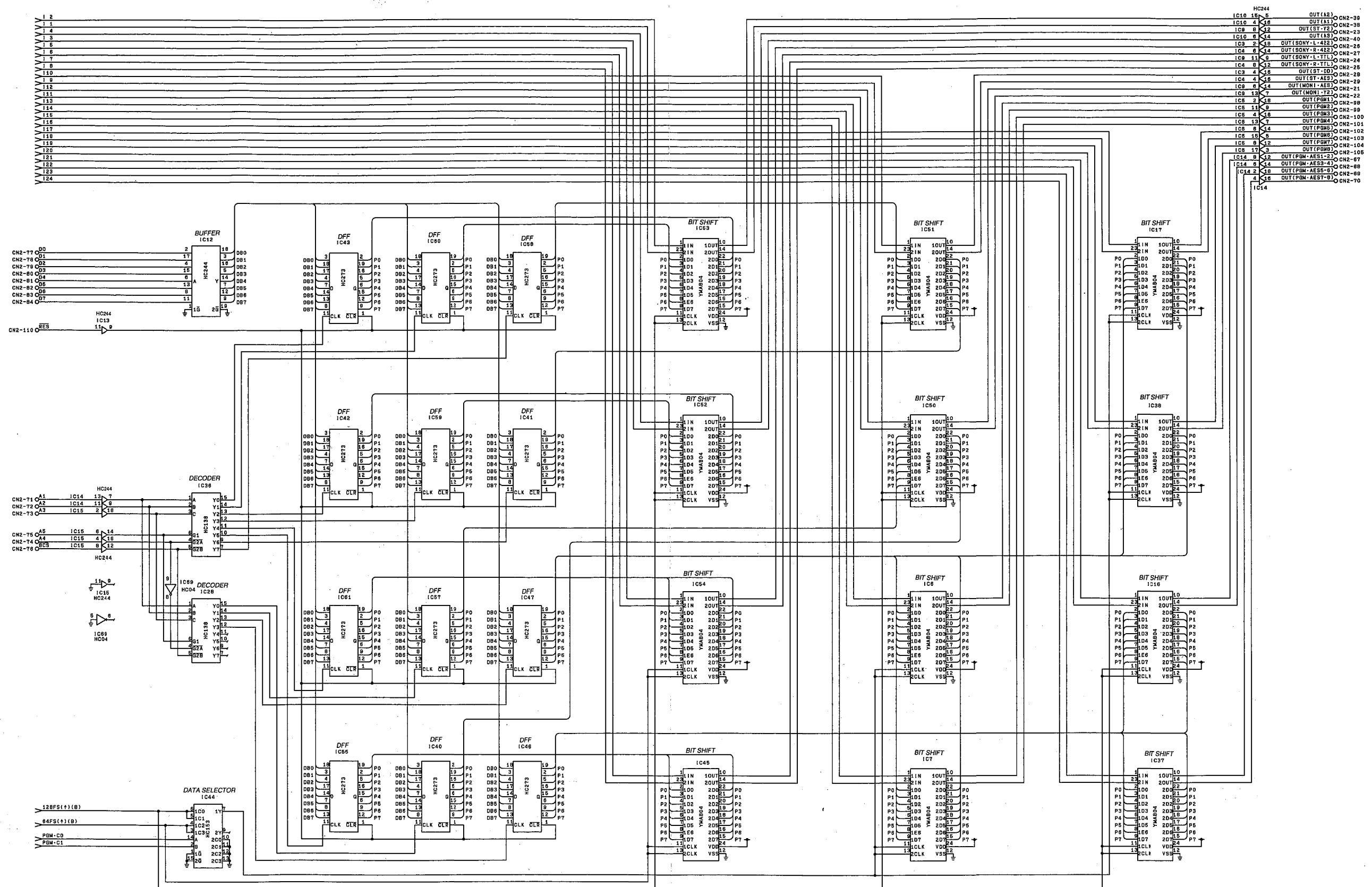
OUT 2/2 CIRCUIT DIAGRAM 4/7 (PGM OUT (Y1, M, SONY))



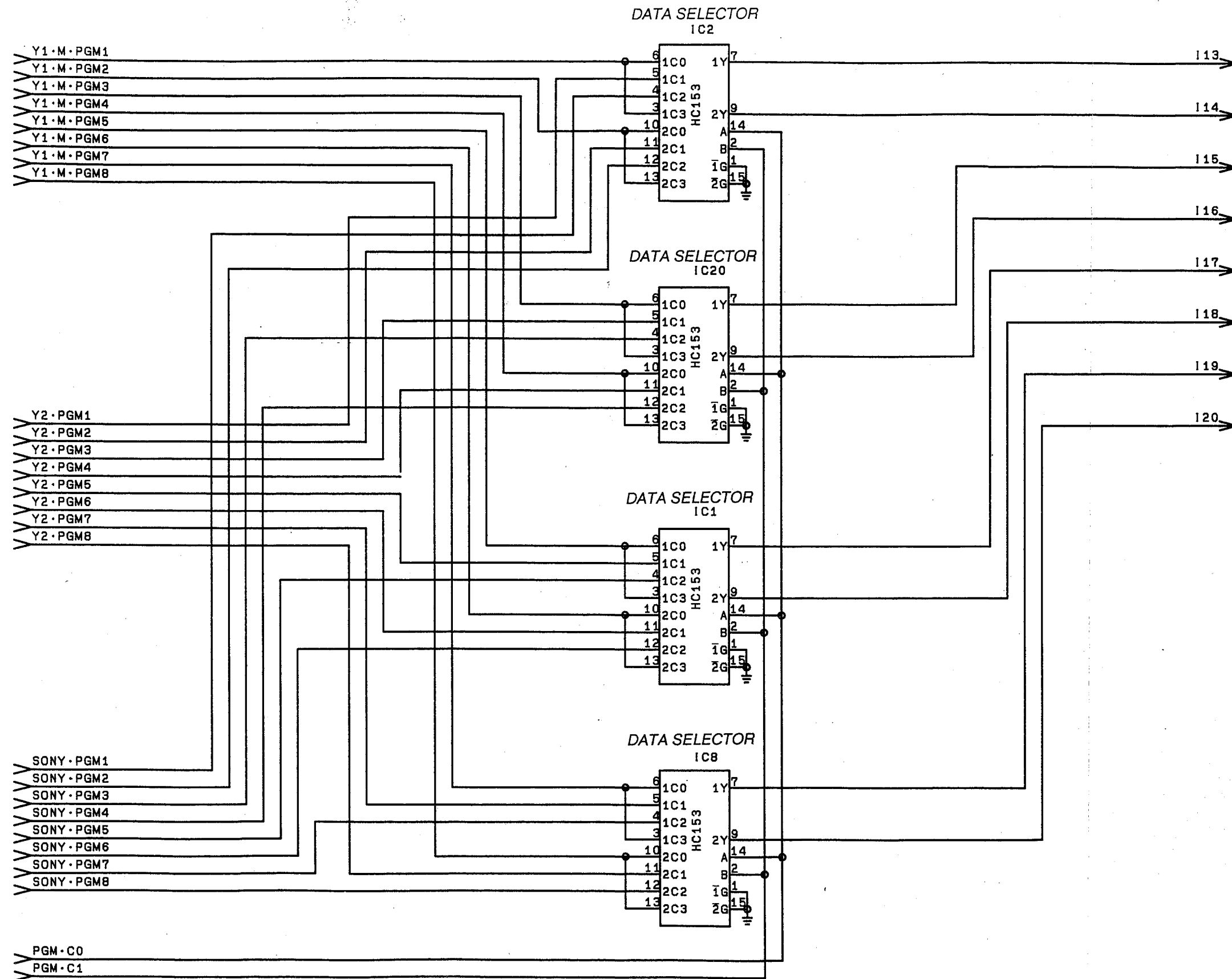
OUT 2/2 CIRCUIT DIAGRAM 5/7 (PGM OUT (Y2, AES))



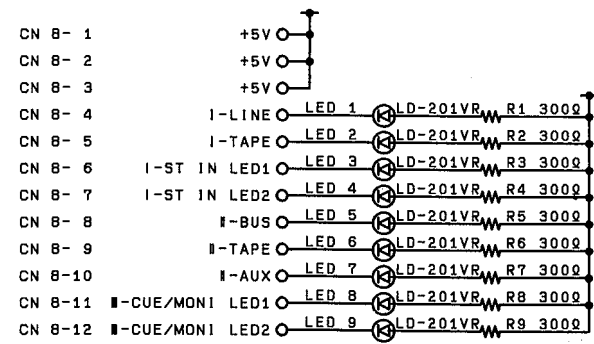
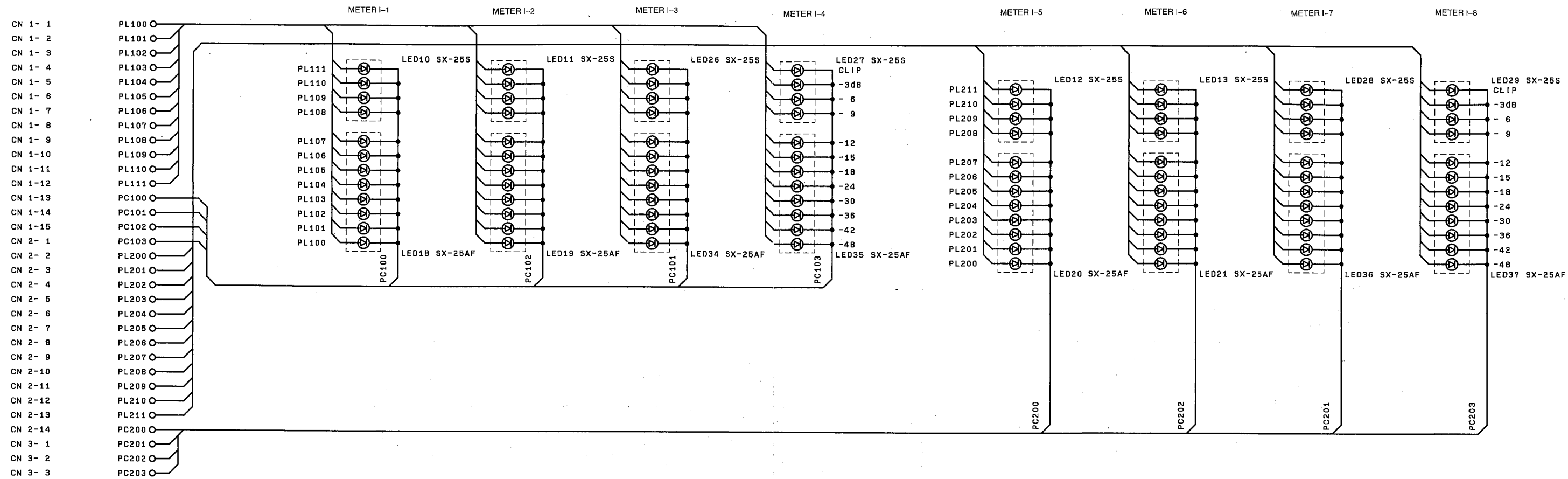
OUT 2/2 CIRCUIT DIAGRAM 6/7 (BIT SHIFT)



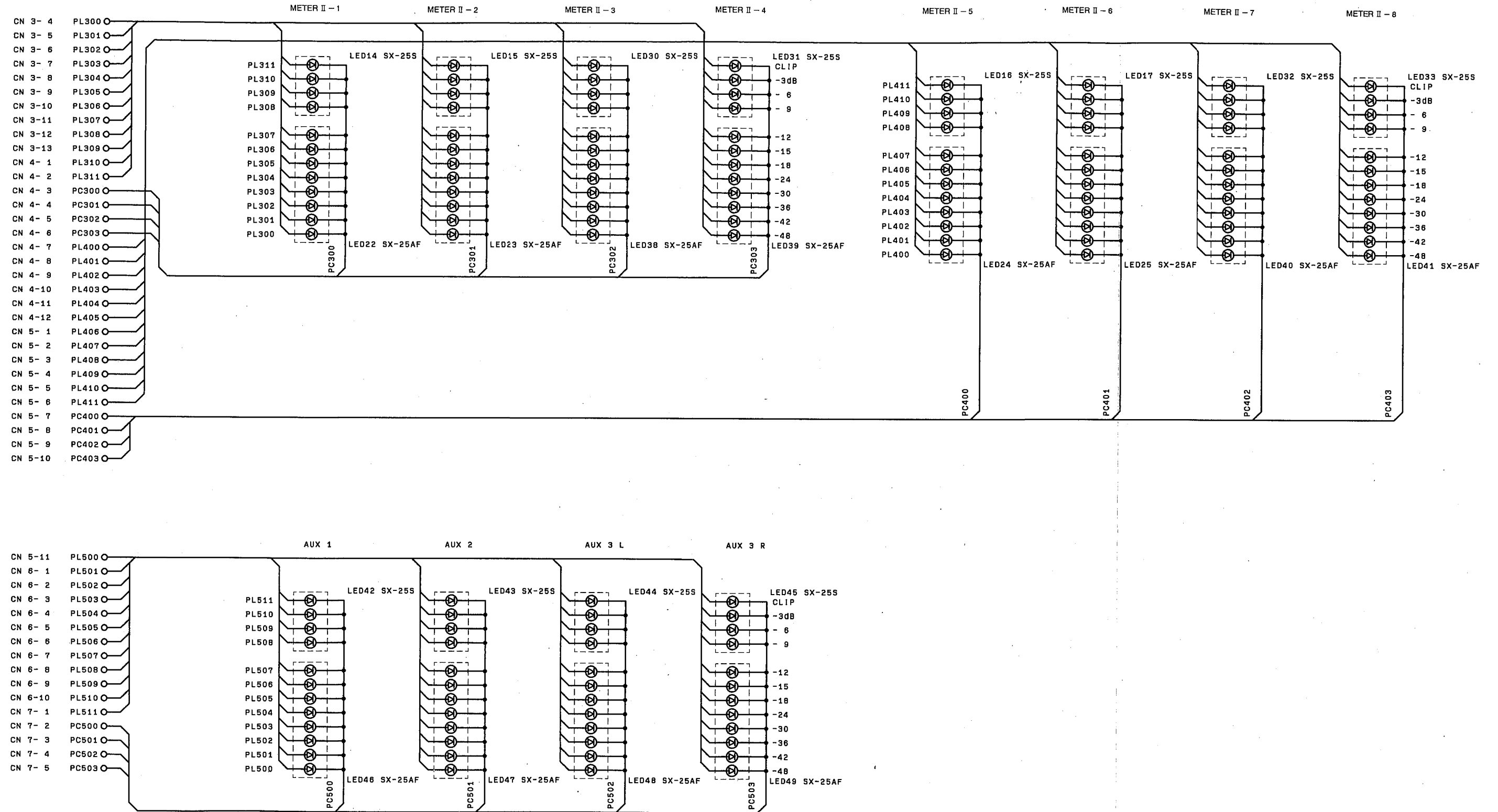
OUT 2/2 CIRCUIT DIAGRAM 7/7 (PGM OUT SEL)



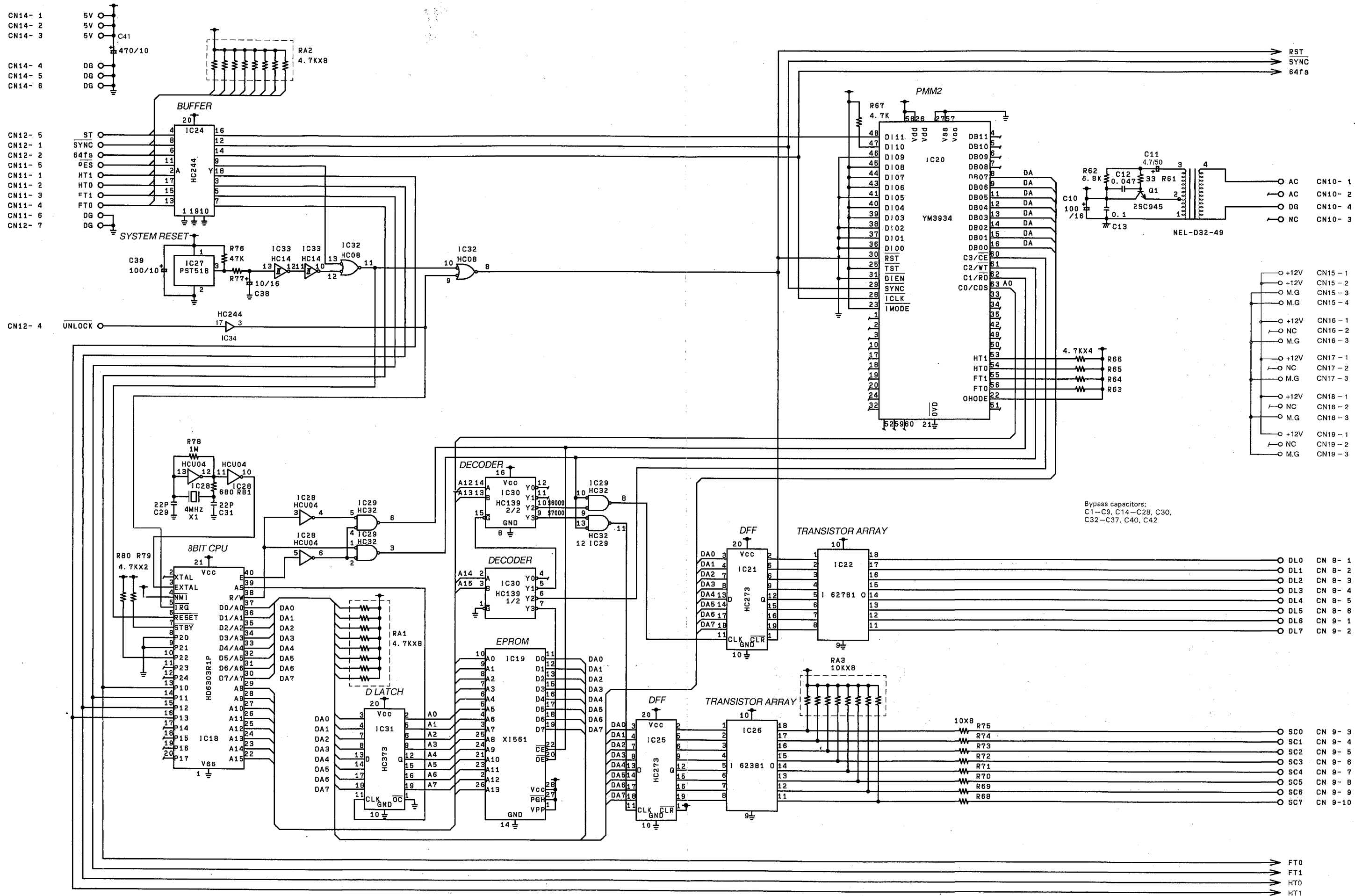
PM CIRCUIT DIAGRAM 1/2



PM CIRCUIT DIAGRAM 2/2



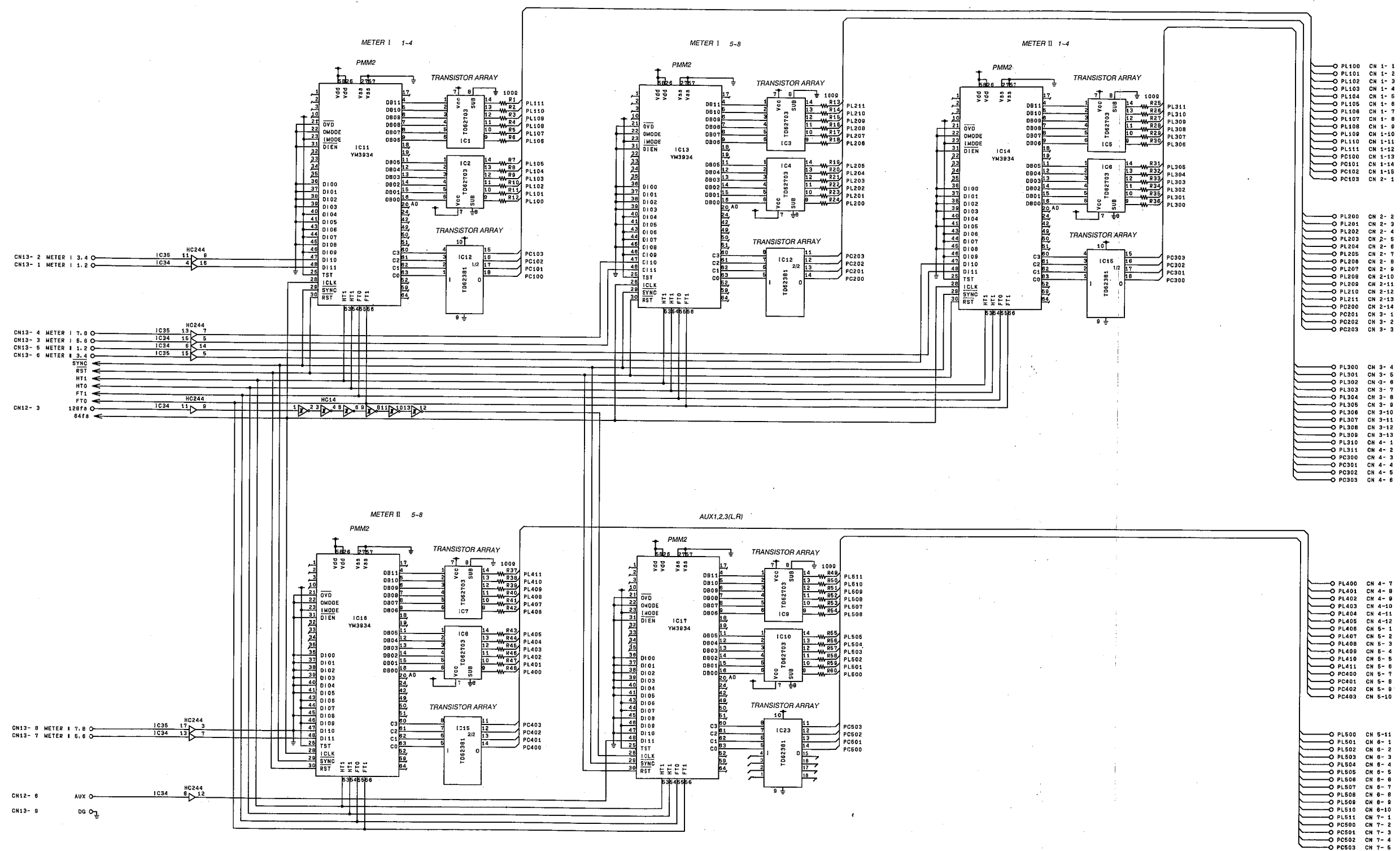
■ PMD CIRCUIT DIAGRAM 1/2



Bypass capacitors;
C1-C9, C14-C28, C30,
C32-C37, C40, C42

1
2
3
4
5
6

PMD CIRCUIT DIAGRAM 2/2



A

B

C

D

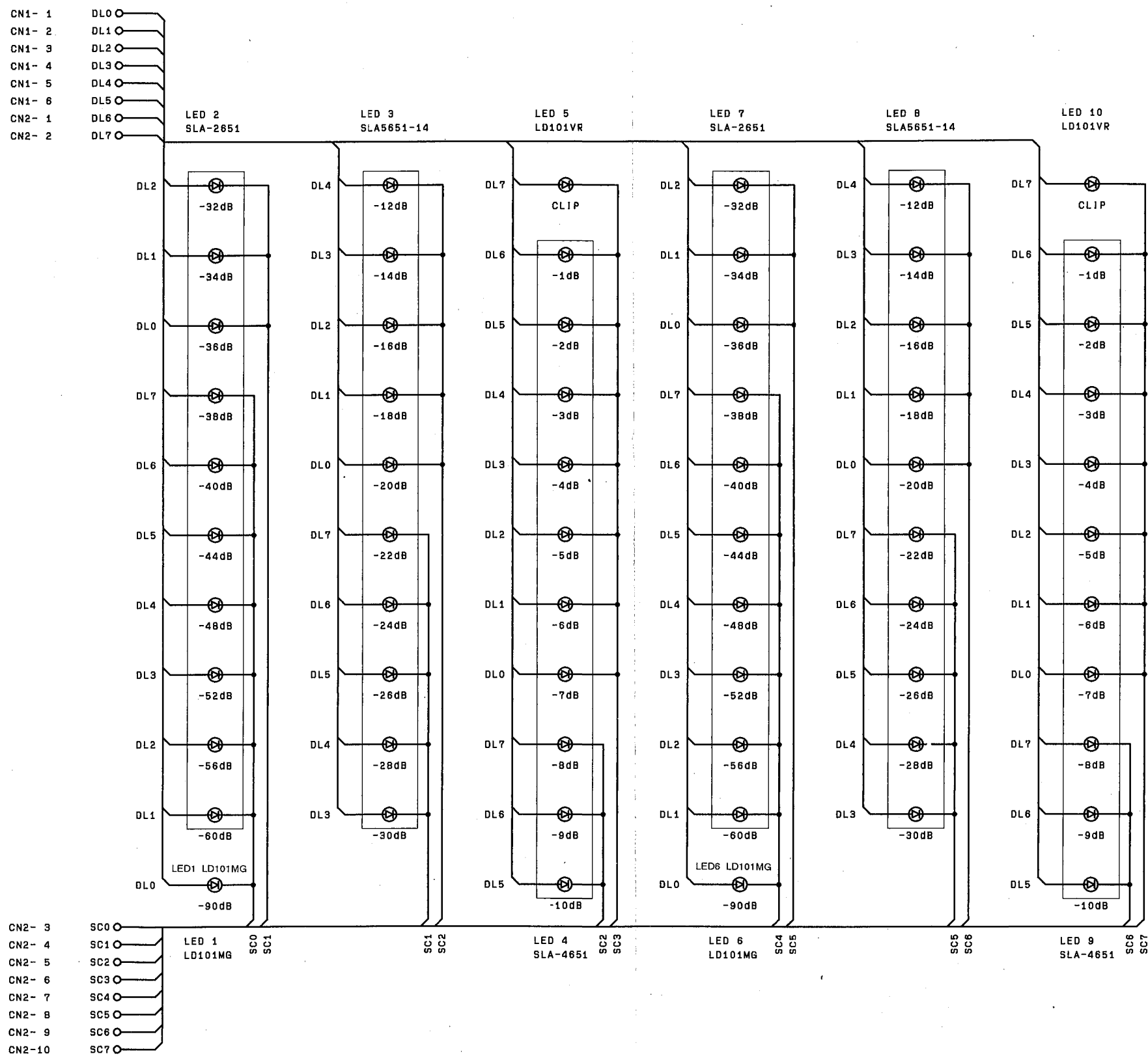
E

F

G

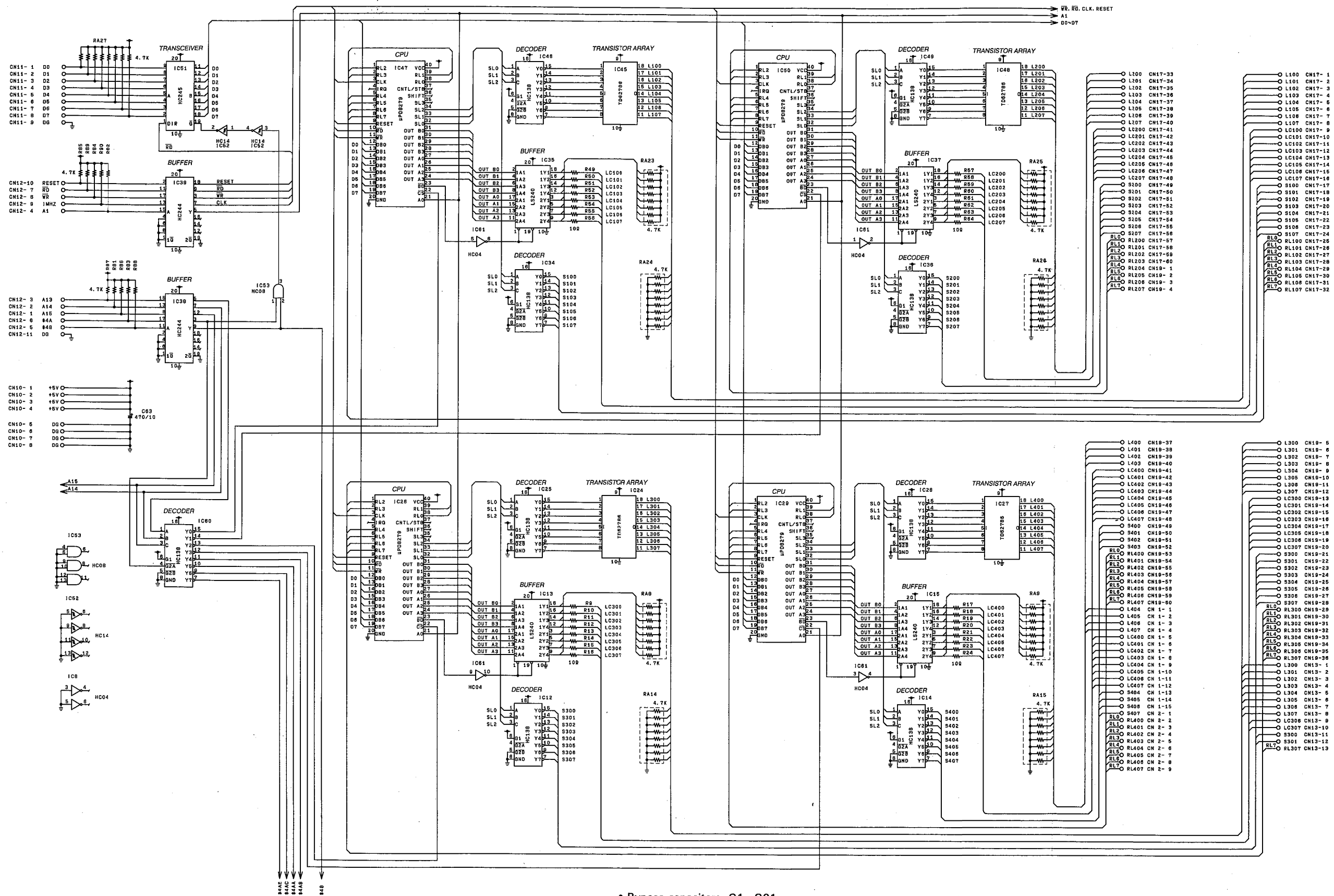
H

PMS CIRCUIT DIAGRAM



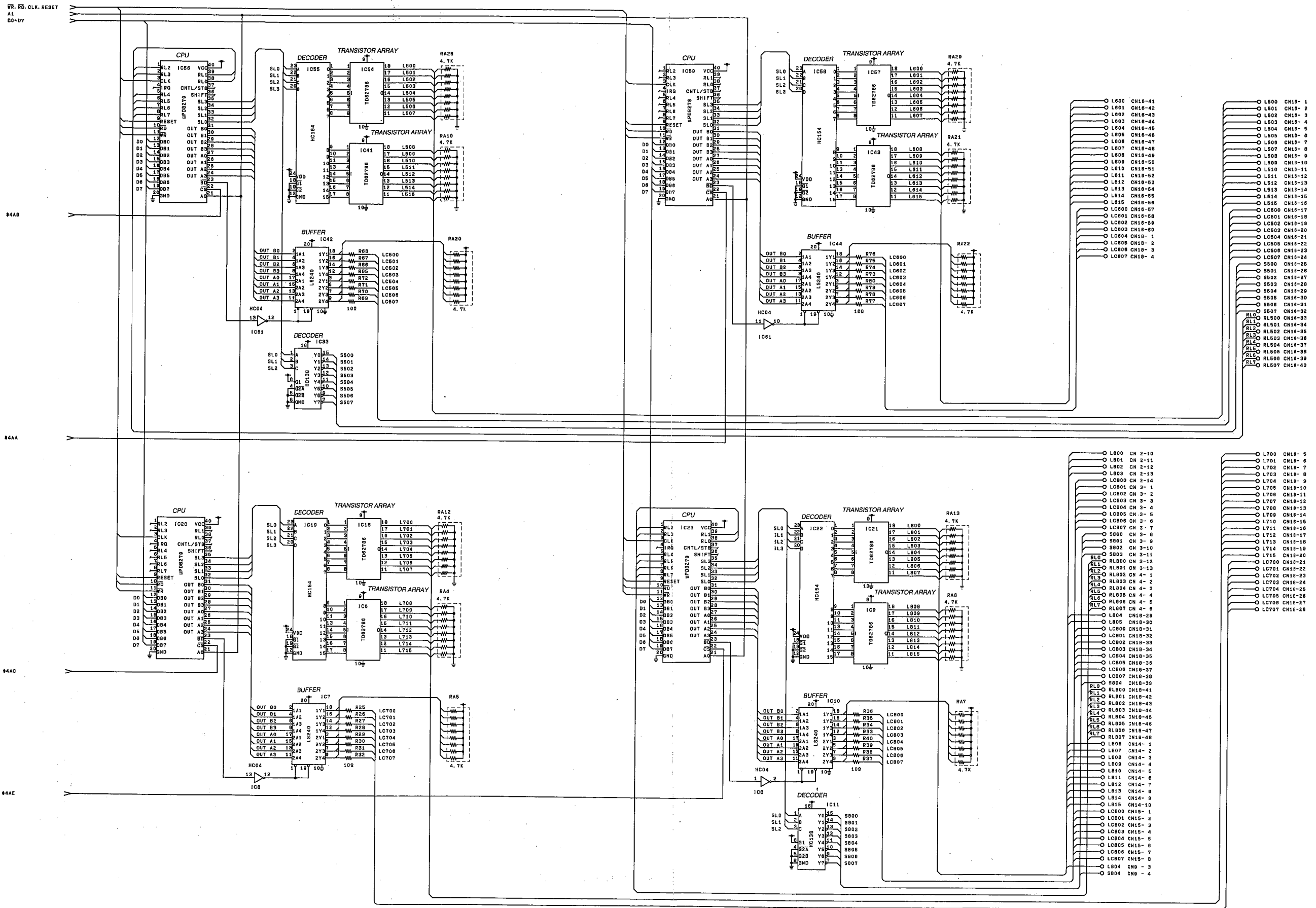
■ PND CIRCUIT DIAGRAM 1/3

A B C D E F G H

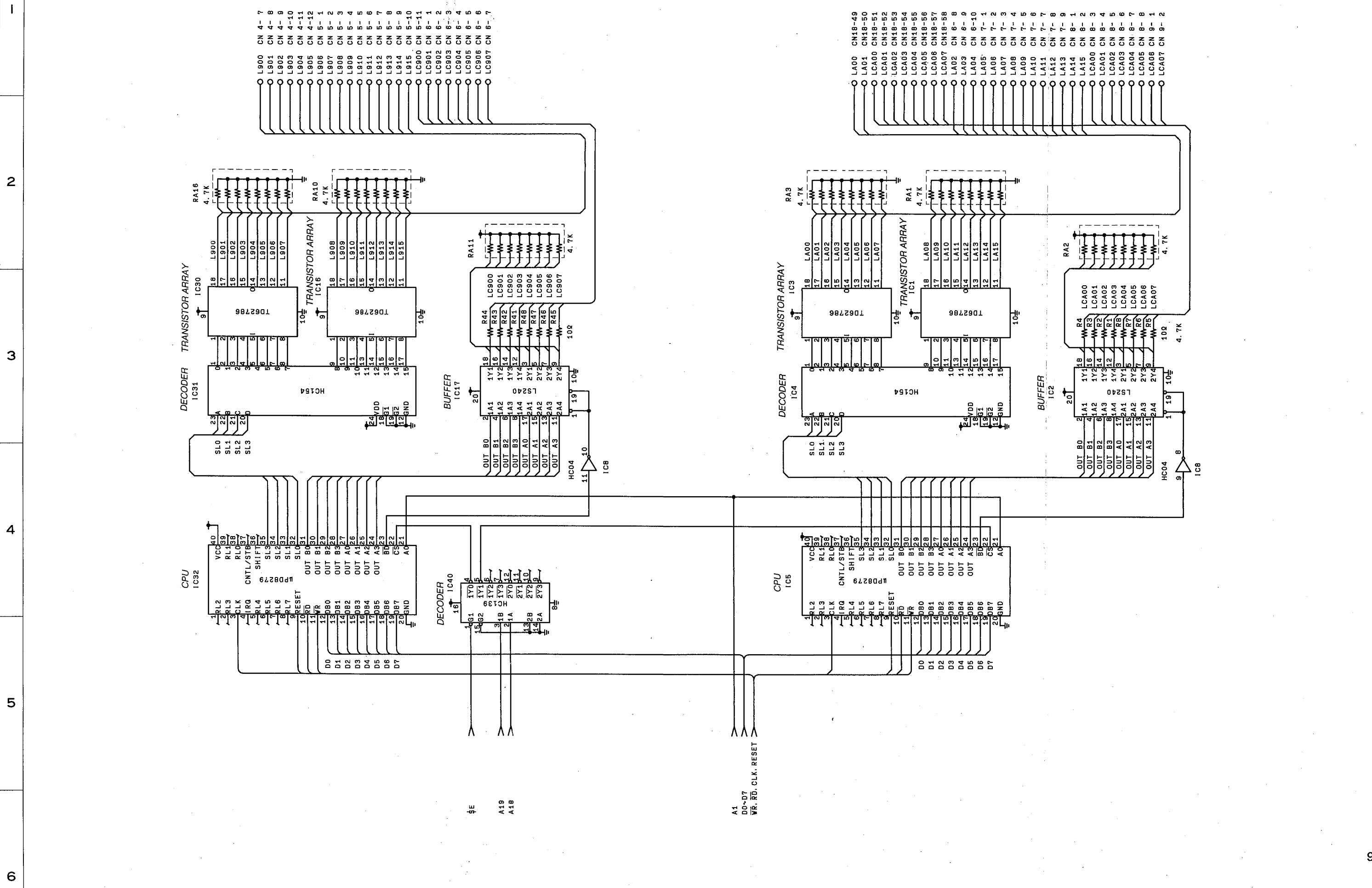


• Bypass capacitors; C1~C61

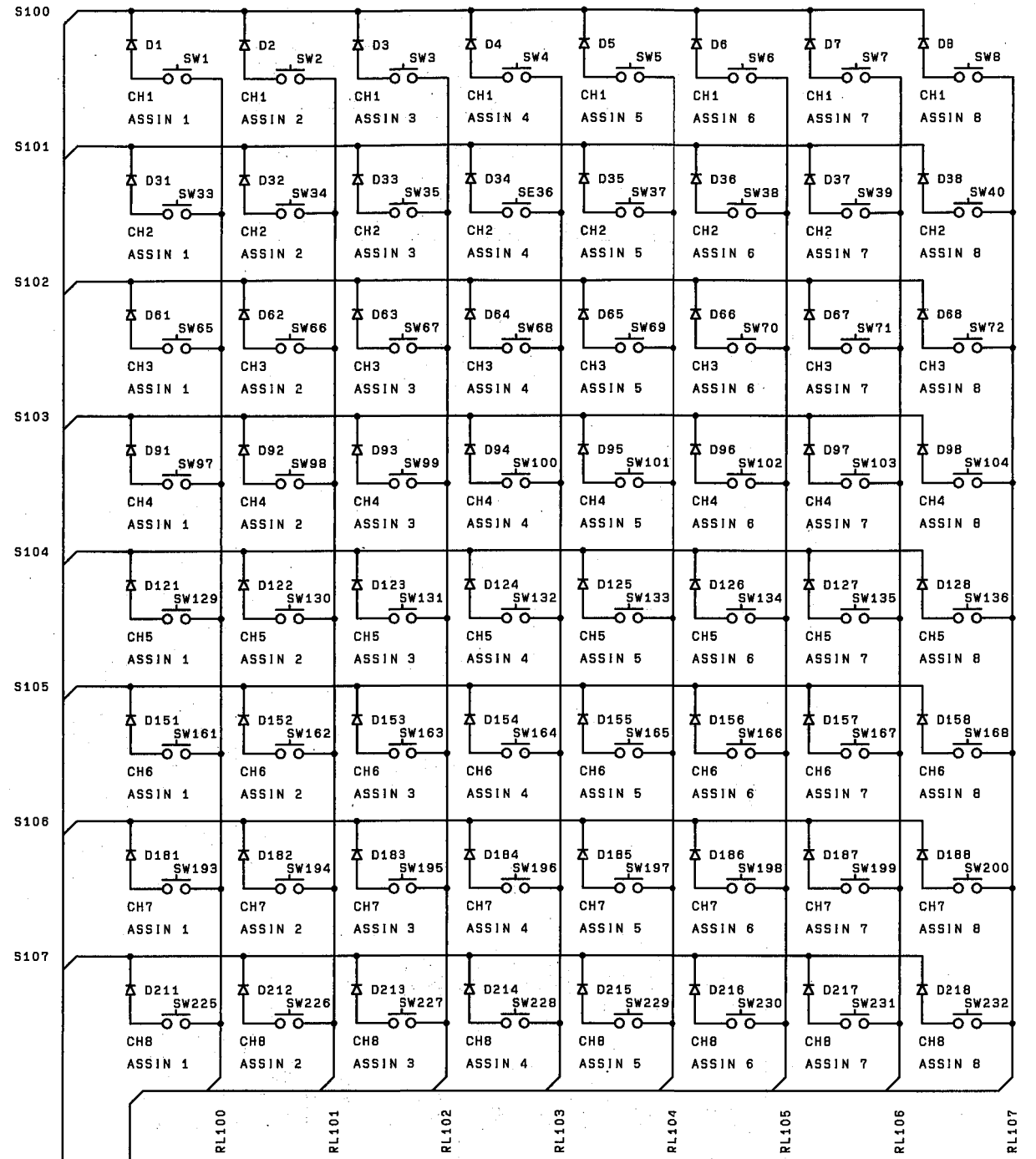
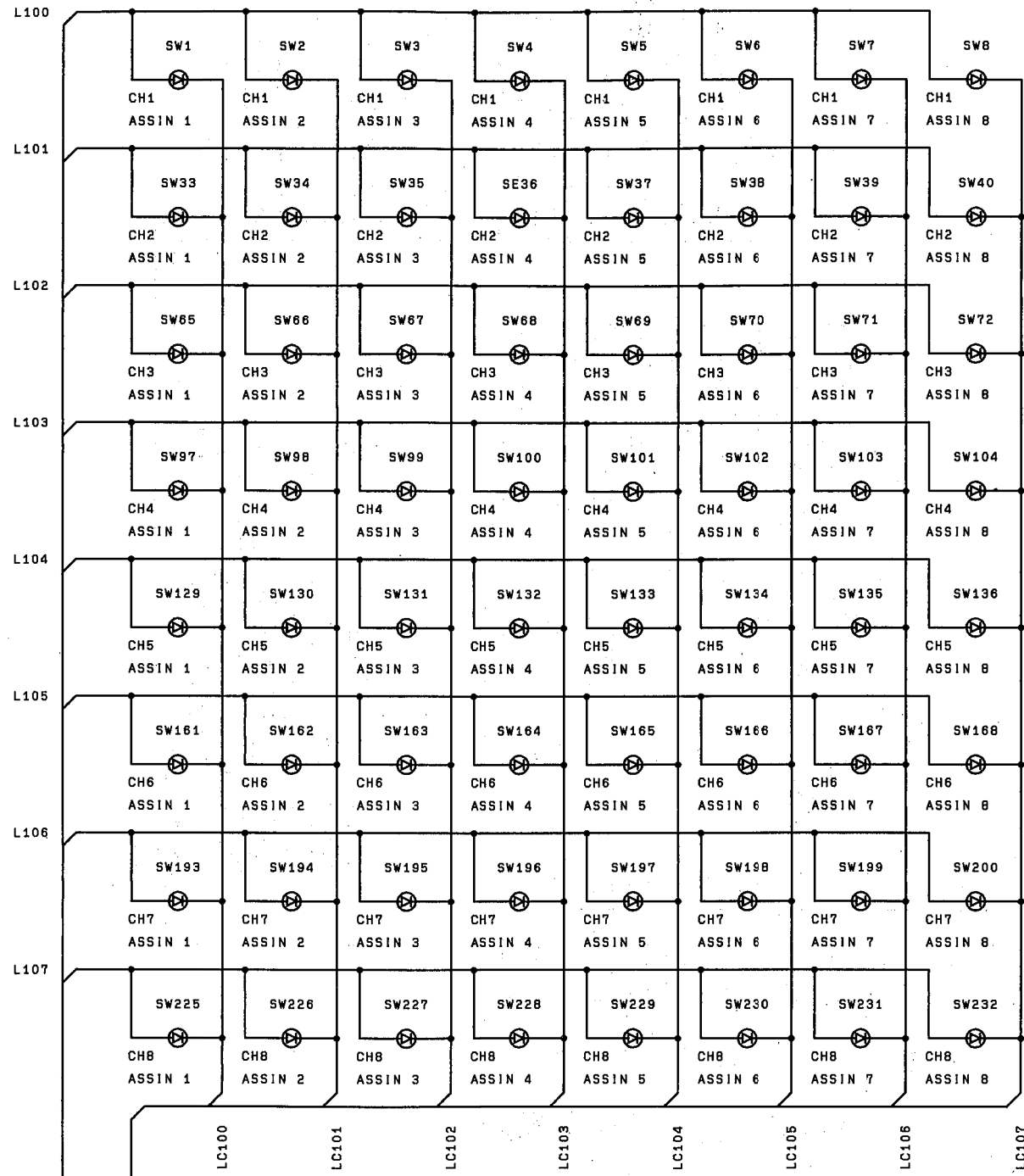
PND CIRCUIT DIAGRAM 2/3



PND CIRCUIT DIAGRAM 3/3



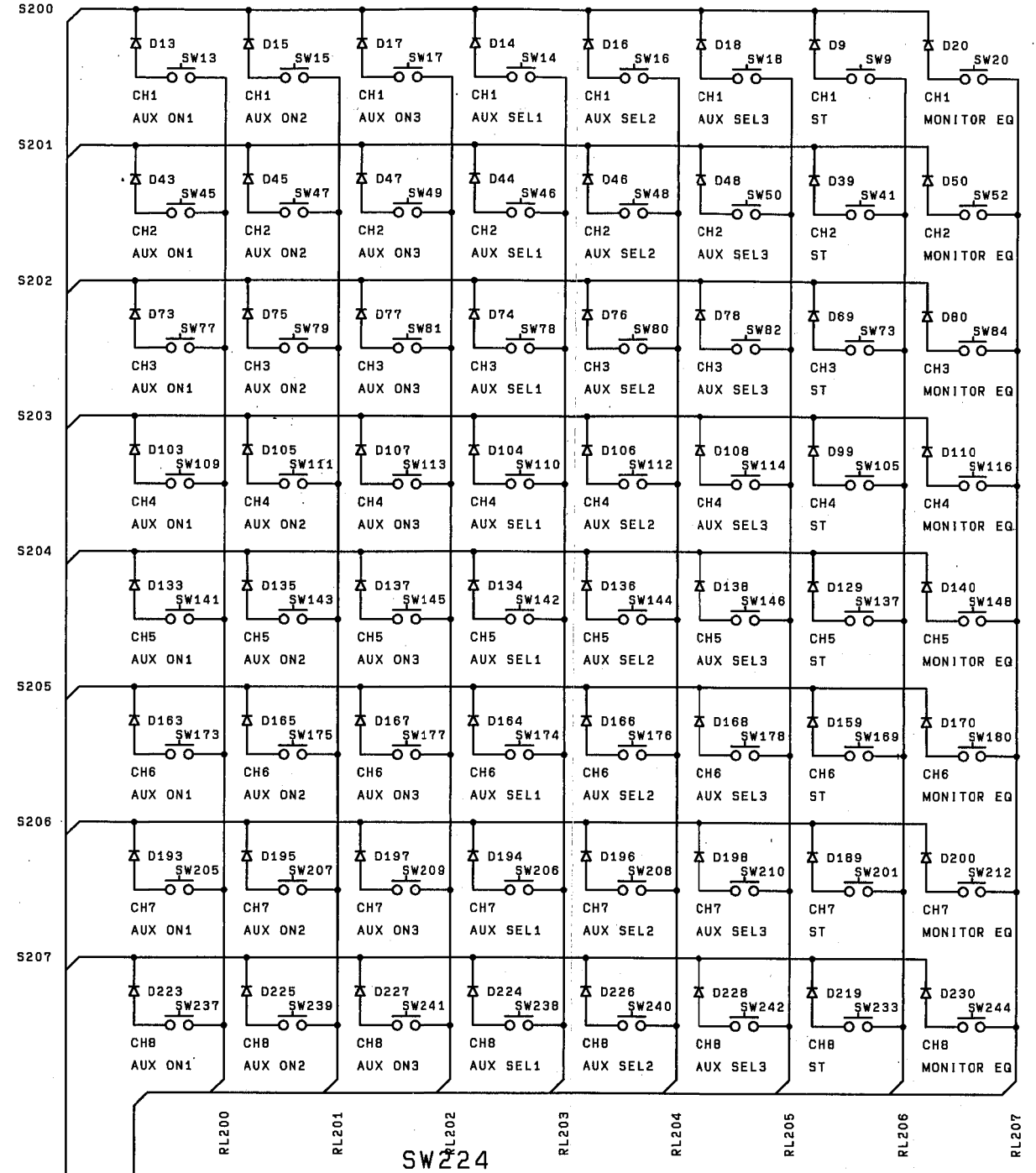
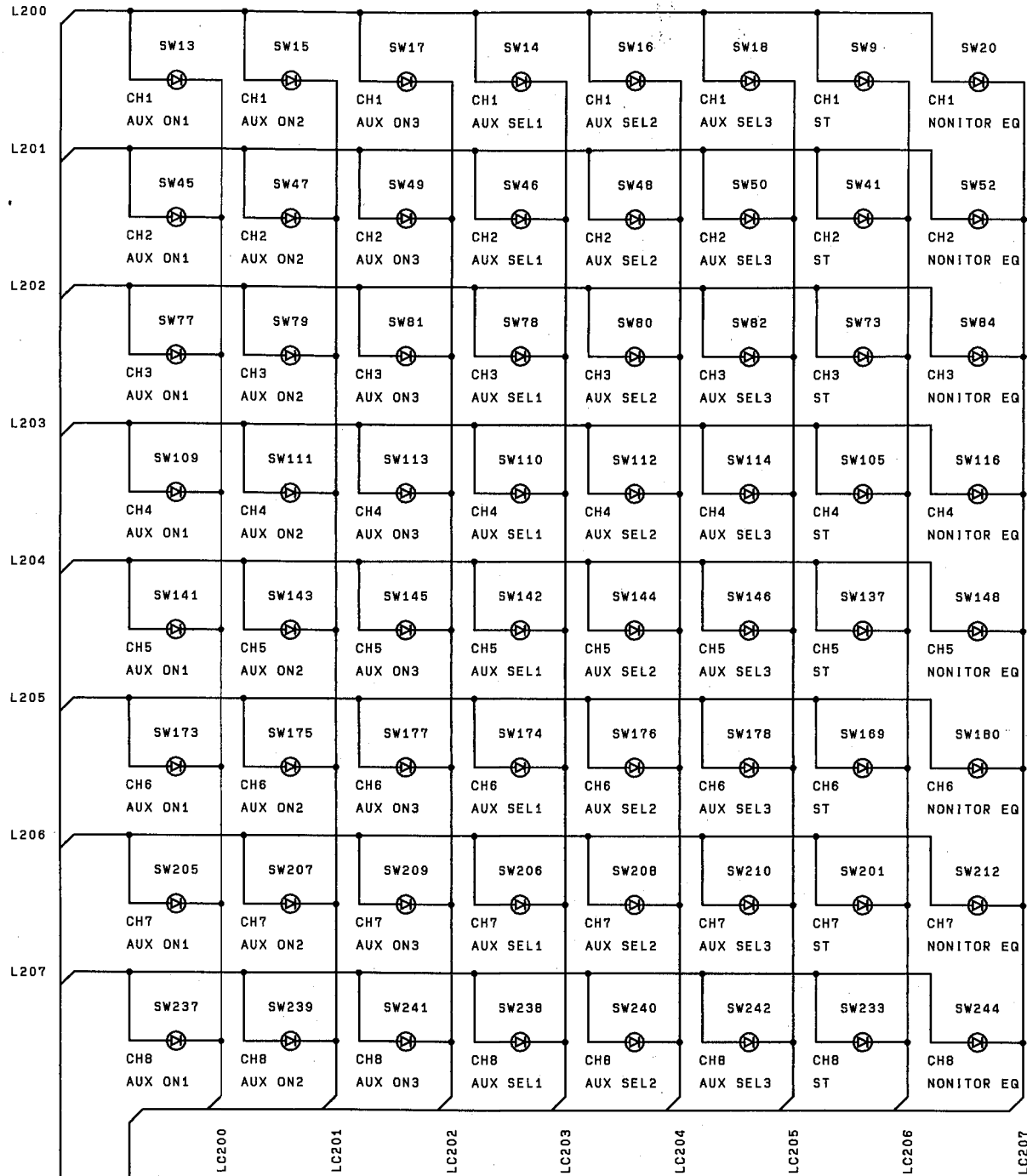
PNL CIRCUIT DIAGRAM 1/8



- L100
- L101
- L102
- L103
- L104
- L105
- L106
- L107
- LC100
- LC101
- LC102
- LC103
- LC104
- LC105
- LC106
- LC107
- S100
- S101
- S102
- S103
- S104
- S105
- S106
- S107
- RL100
- RL101
- RL102
- RL103
- RL104
- RL105
- RL106
- RL107

- CN 1-1
- CN 1-2
- CN 1-3
- CN 1-4
- CN 1-5
- CN 1-6
- CN 1-7
- CN 1-8
- CN 1-9
- CN 1-10
- CN 1-11
- CN 1-12
- CN 1-13
- CN 1-14
- CN 1-15
- CN 1-16
- CN 1-17
- CN 1-18
- CN 1-19
- CN 1-20
- CN 1-21
- CN 1-22
- CN 1-23
- CN 1-24
- CN 1-25
- CN 1-26
- CN 1-27
- CN 1-28
- CN 1-29
- CN 1-30
- CN 1-31
- CN 1-32

PNL CIRCUIT DIAGRAM 2/8



- L200 ○
- L201 ○
- L202 ○
- L203 ○
- L204 ○
- L205 ○
- L206 ○
- L207 ○
- LC200 ○
- LC201 ○
- LC202 ○
- LC203 ○
- LC204 ○
- LC205 ○
- LC206 ○
- LC207 ○
- S200 ○
- S201 ○
- S202 ○
- S203 ○
- S204 ○
- S205 ○
- S206 ○
- S207 ○
- RL200 ○
- RL201 ○
- RL202 ○
- RL203 ○
- RL204 ○
- RL205 ○
- RL206 ○
- RL207 ○
- CN 1-33 ○
- CN 1-34 ○
- CN 1-35 ○
- CN 1-36 ○
- CN 1-37 ○
- CN 1-38 ○
- CN 1-39 ○
- CN 1-40 ○
- CN 1-41 ○
- CN 1-42 ○
- CN 1-43 ○
- CN 1-44 ○
- CN 1-45 ○
- CN 1-46 ○
- CN 1-47 ○
- CN 1-48 ○
- CN 1-48 ○
- CN 1-50 ○
- CN 1-51 ○
- CN 1-52 ○
- CN 1-53 ○
- CN 1-54 ○
- CN 1-55 ○
- CN 1-56 ○
- CN 1-57 ○
- CN 1-58 ○
- CN 1-59 ○
- CN 1-60 ○
- CN 2-1 ○
- CN 2-2 ○
- CN 2-3 ○
- CN 2-4 ○

A

B

C

D

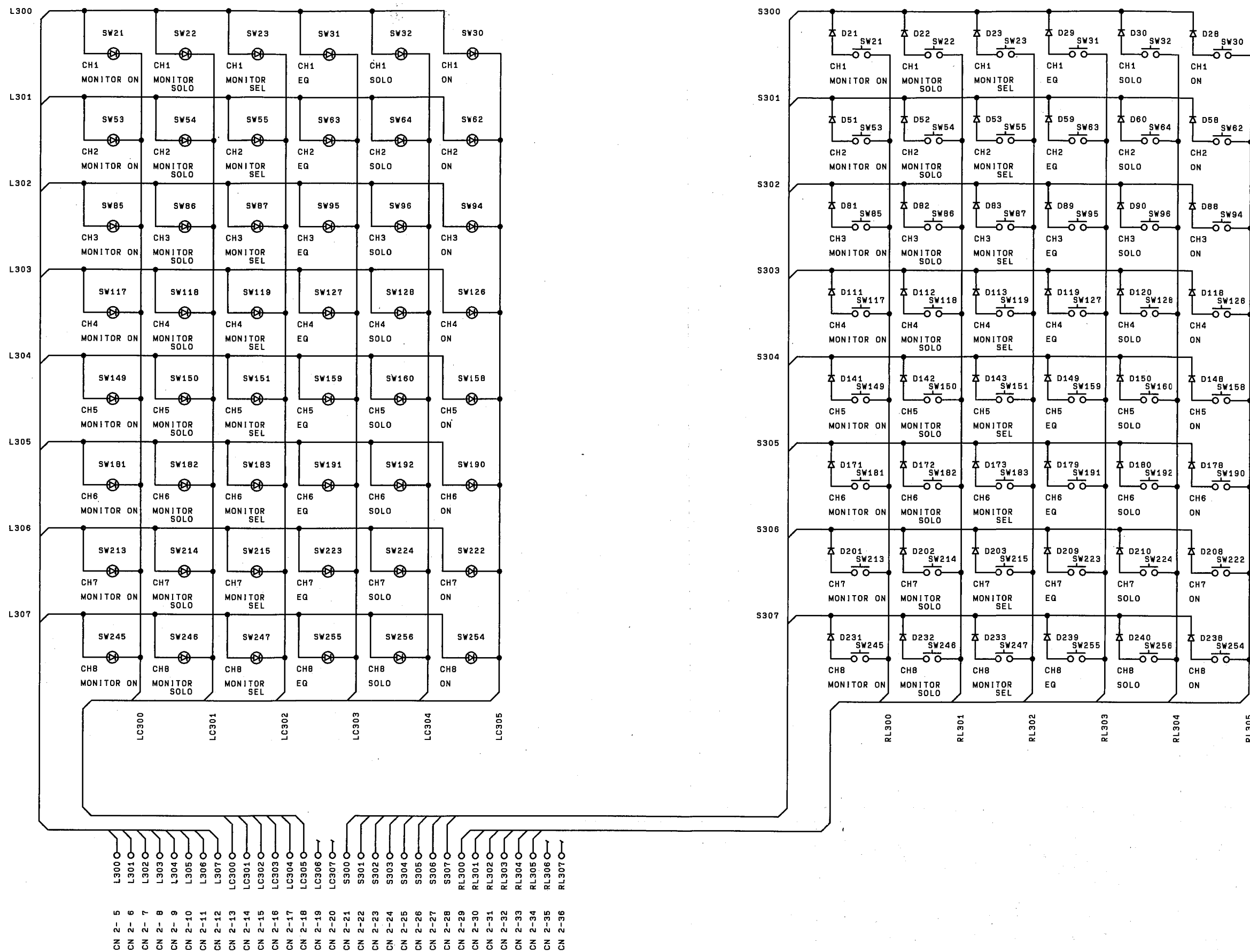
E

F

G

H

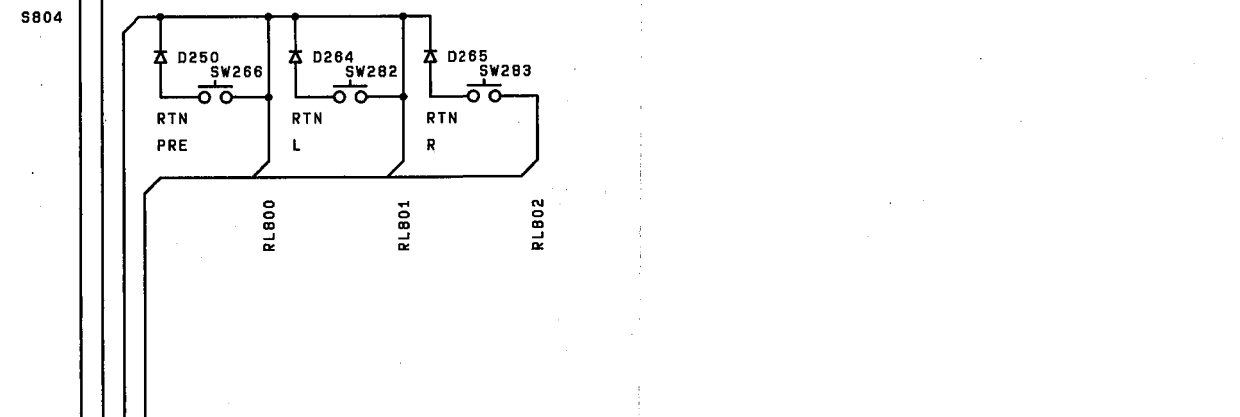
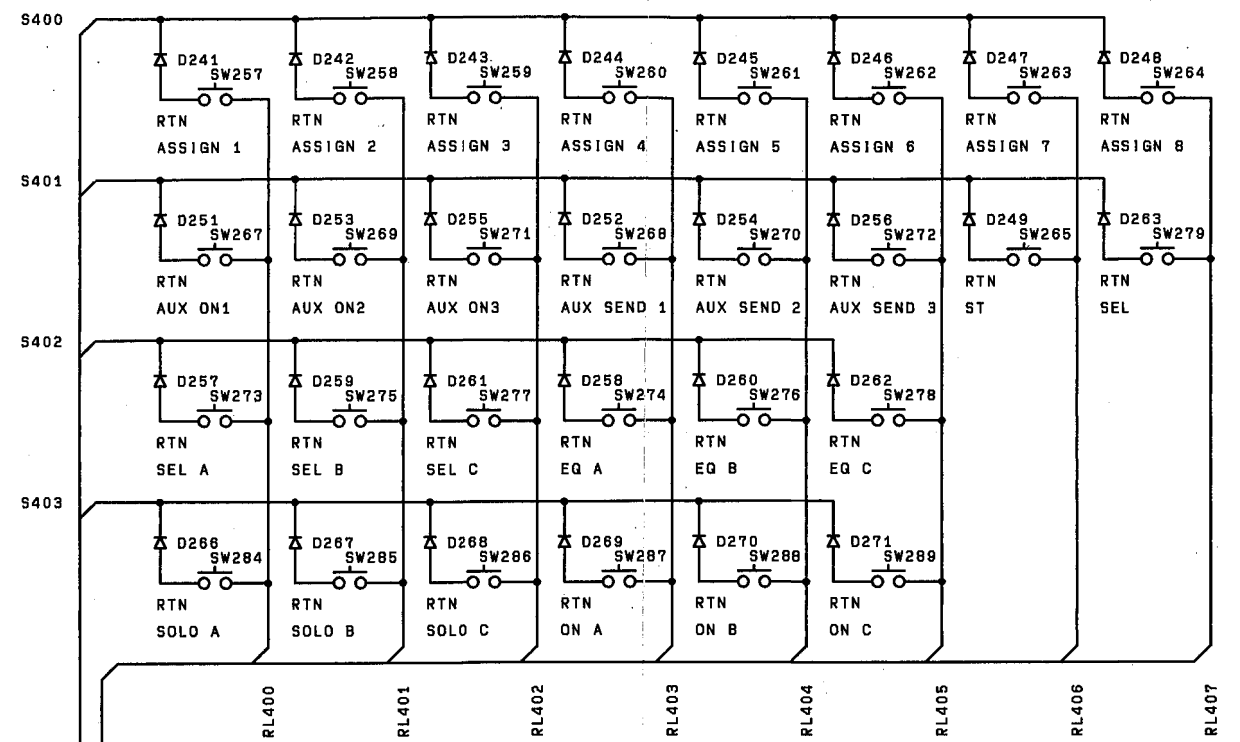
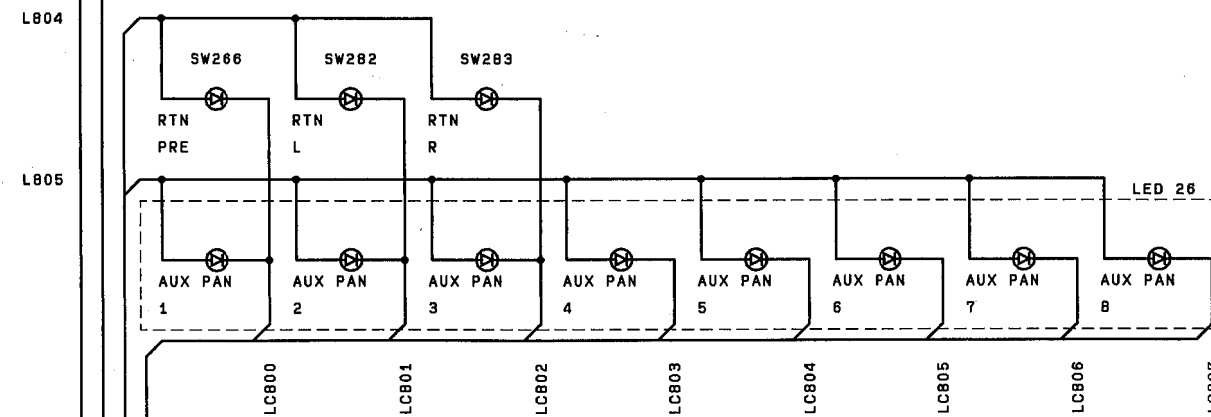
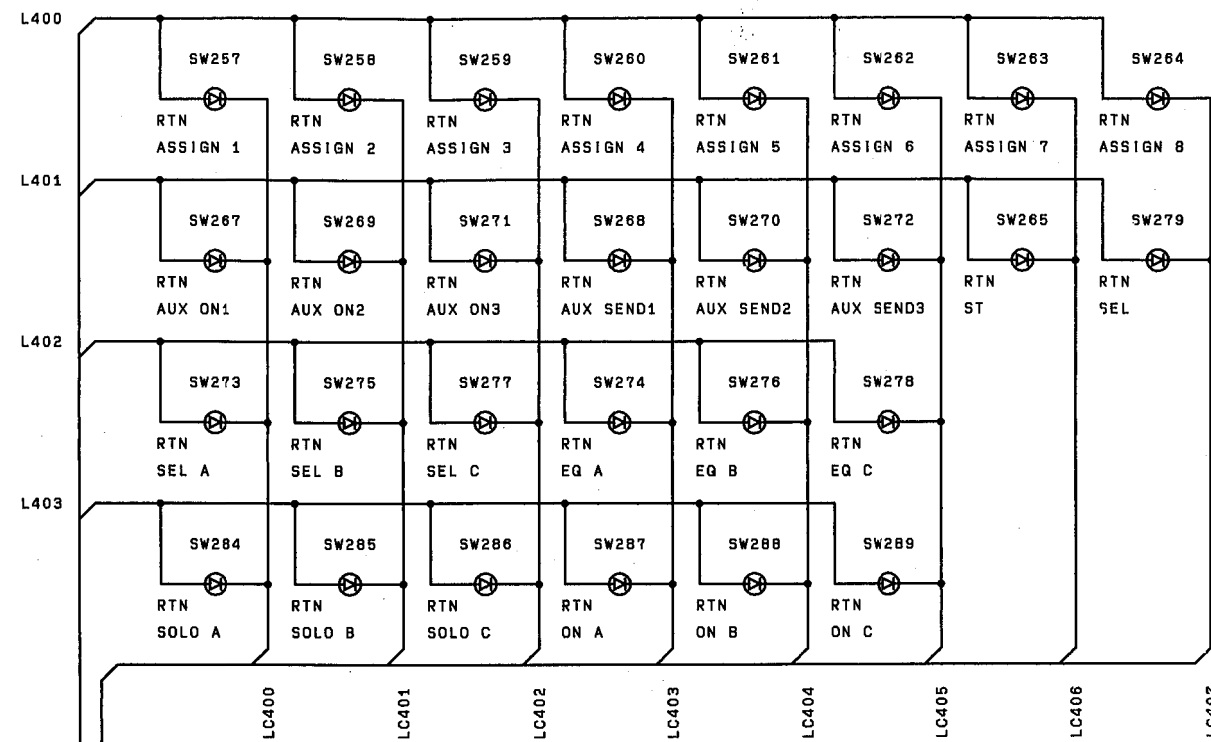
PNL CIRCUIT DIAGRAM 3/8



- L300 ○
- L301 ○
- L302 ○
- L303 ○
- L304 ○
- L305 ○
- L306 ○
- L307 ○
- LC300 ○
- LC301 ○
- LC302 ○
- LC303 ○
- LC304 ○
- LC305 ○
- LC306 ○
- LC307 ○
- S300 ○
- S301 ○
- S302 ○
- S303 ○
- S304 ○
- S305 ○
- S306 ○
- S307 ○
- RL300 ○
- RL301 ○
- RL302 ○
- RL303 ○
- RL304 ○
- RL305 ○
- RL306 ○
- RL307 ○

- CN 2-5
- CN 2-6
- CN 2-7
- CN 2-8
- CN 2-9
- CN 2-10
- CN 2-11
- CN 2-12
- CN 2-13
- CN 2-14
- CN 2-15
- CN 2-16
- CN 2-17
- CN 2-18
- CN 2-19
- CN 2-20
- CN 2-21
- CN 2-22
- CN 2-23
- CN 2-24
- CN 2-25
- CN 2-26
- CN 2-27
- CN 2-28
- CN 2-29
- CN 2-30
- CN 2-31
- CN 2-32
- CN 2-33
- CN 2-34
- CN 2-35
- CN 2-36

PNL CIRCUIT DIAGRAM 4/8



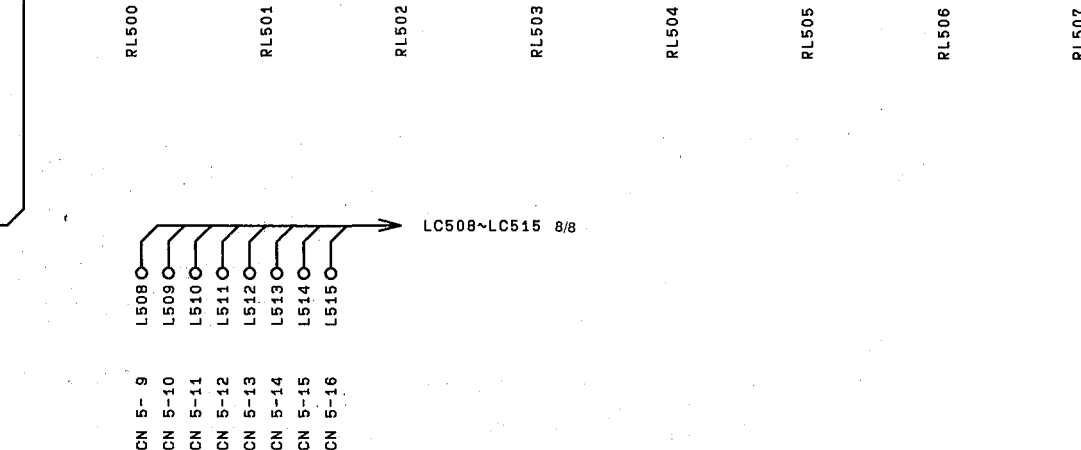
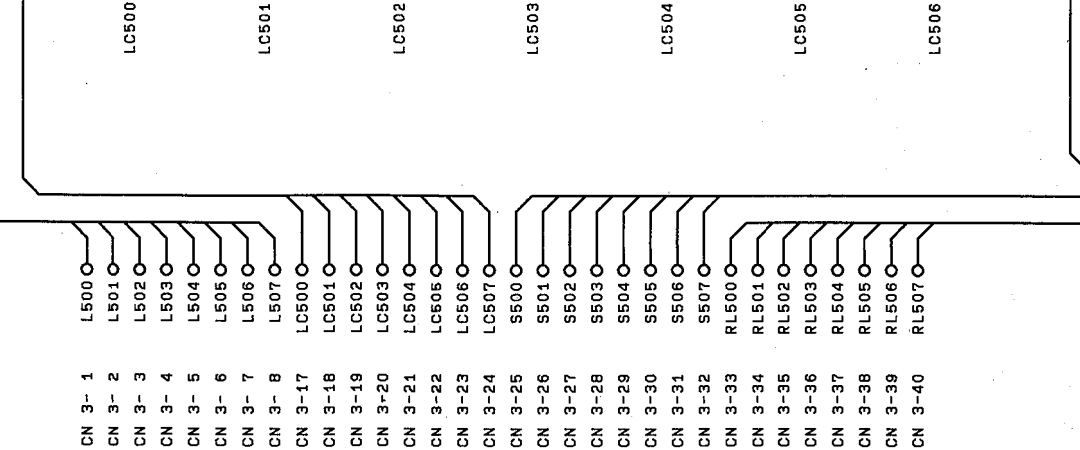
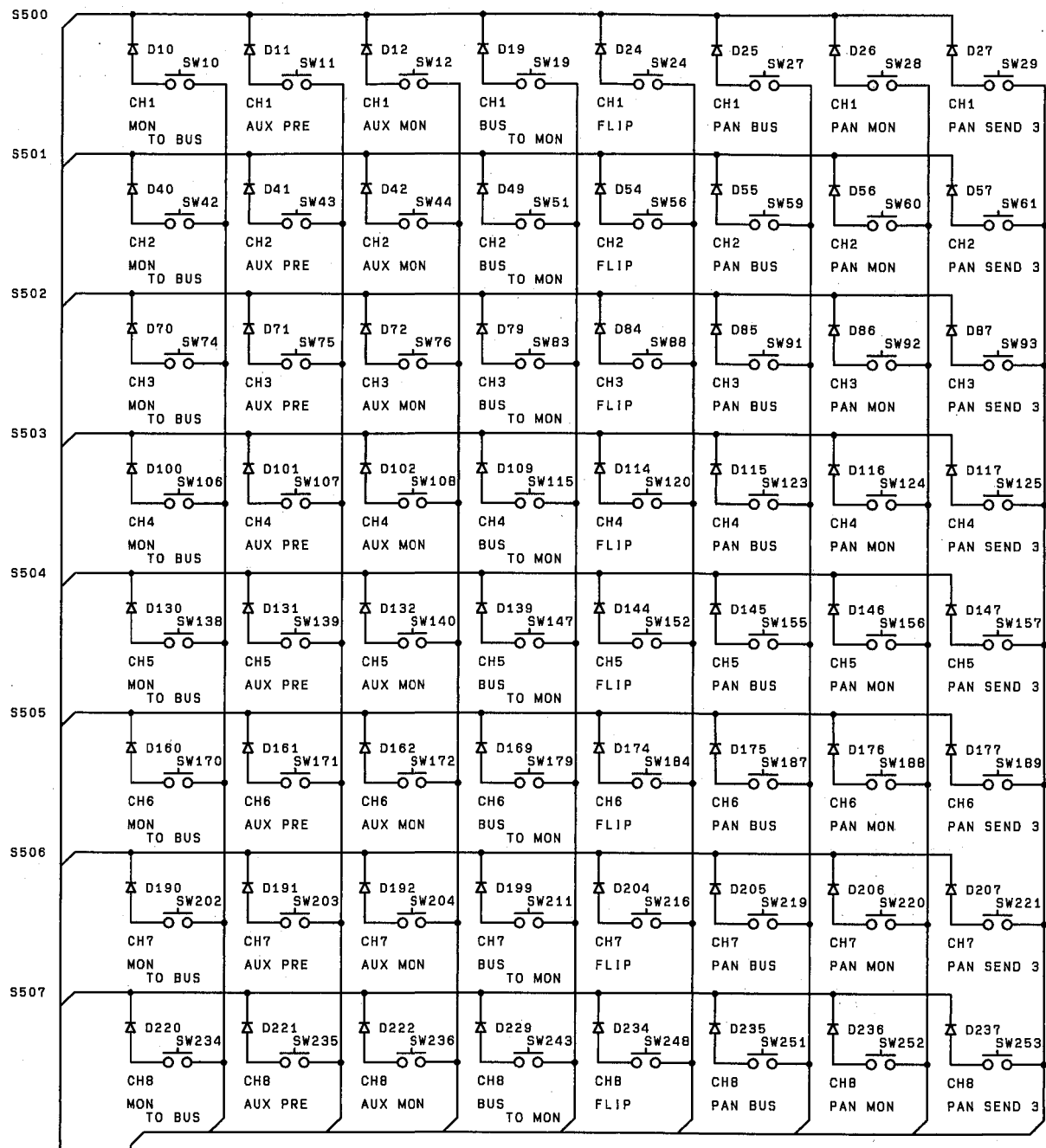
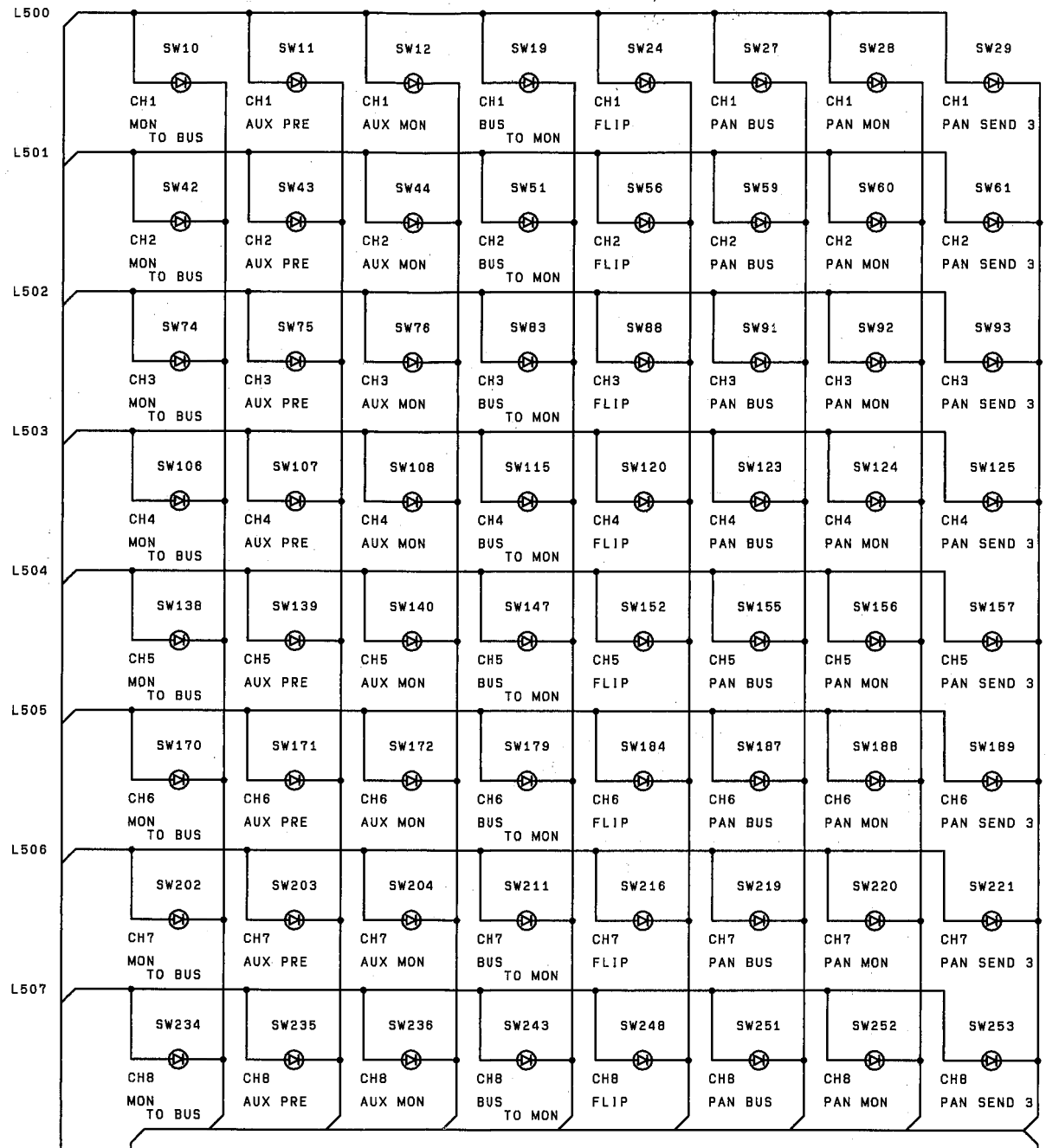
- L400
- L401
- L402
- L403
- LC400
- LC401
- LC402
- LC403
- LC404
- LC405
- LC406
- LC407
- L804
- L805
- LC800
- LC801
- LC802
- LC803
- LC804
- LC805
- LC806
- LC807
- S400
- S401
- S402
- S403
- RL400
- RL401
- RL402
- RL403
- RL404
- RL405
- RL406
- RL407
- S804
- S805
- RL800
- RL801
- RL802
- RL803
- RL804
- RL805
- RL806
- RL807

- CN 2-37
- CN 2-38
- CN 2-39
- CN 2-40
- CN 2-41
- CN 2-42
- CN 2-43
- CN 2-44
- CN 2-45
- CN 2-46
- CN 2-47
- CN 2-48
- CN 4-29
- CN 4-30
- CN 4-31
- CN 4-32
- CN 4-33
- CN 4-34
- CN 4-35
- CN 4-36
- CN 4-37
- CN 4-38
- CN 2-49
- CN 2-50
- CN 2-51
- CN 2-52
- CN 2-53
- CN 2-54
- CN 2-55
- CN 2-56
- CN 2-57
- CN 2-58
- CN 2-59
- CN 2-60
- CN 4-39
- CN 4-40
- CN 4-41
- CN 4-42
- CN 4-43
- CN 4-44
- CN 4-45
- CN 4-46
- CN 4-47
- CN 4-48

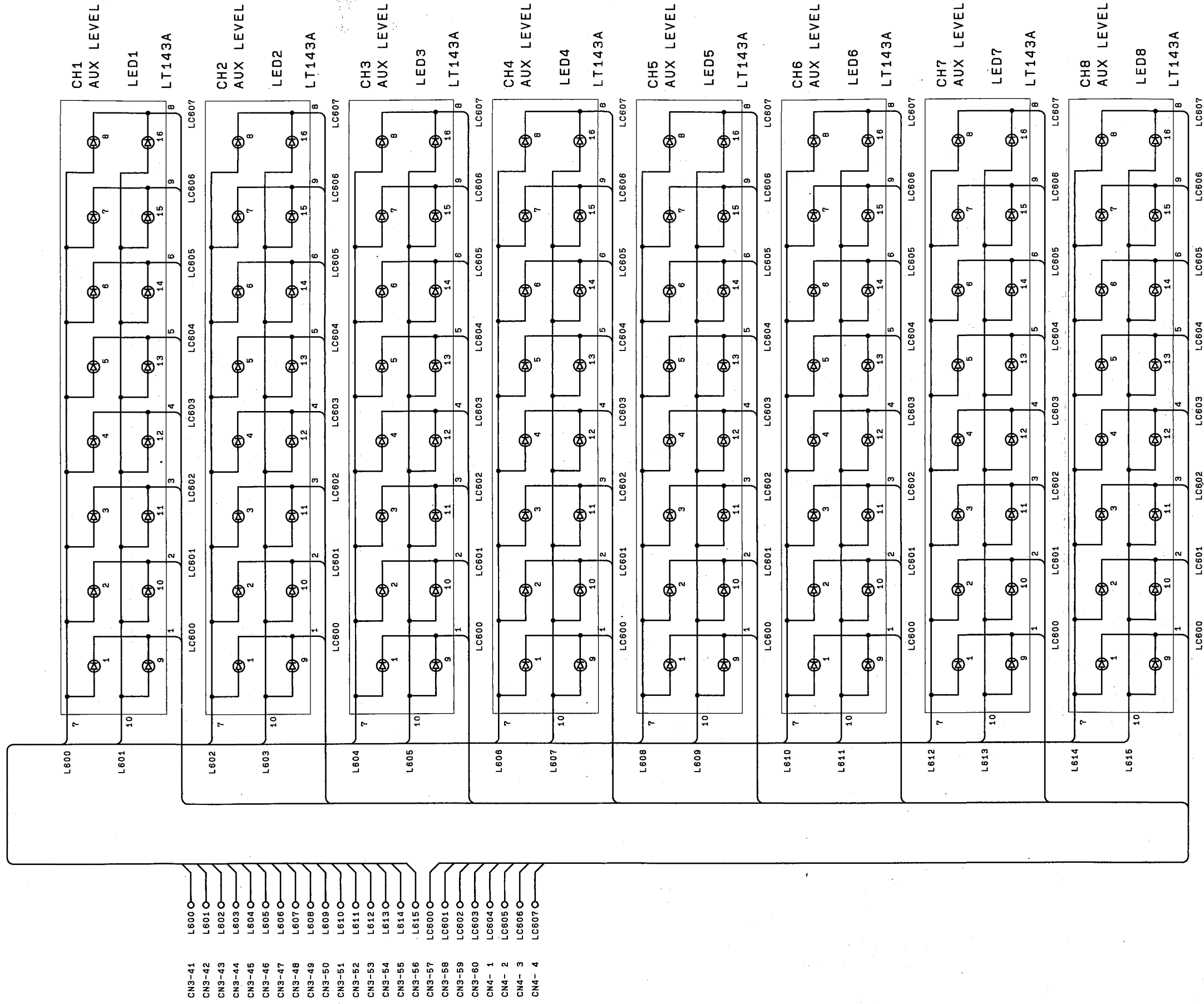
PNL CIRCUIT DIAGRAM 5/8

A B C D E F G H

1
2
3
4
5
6

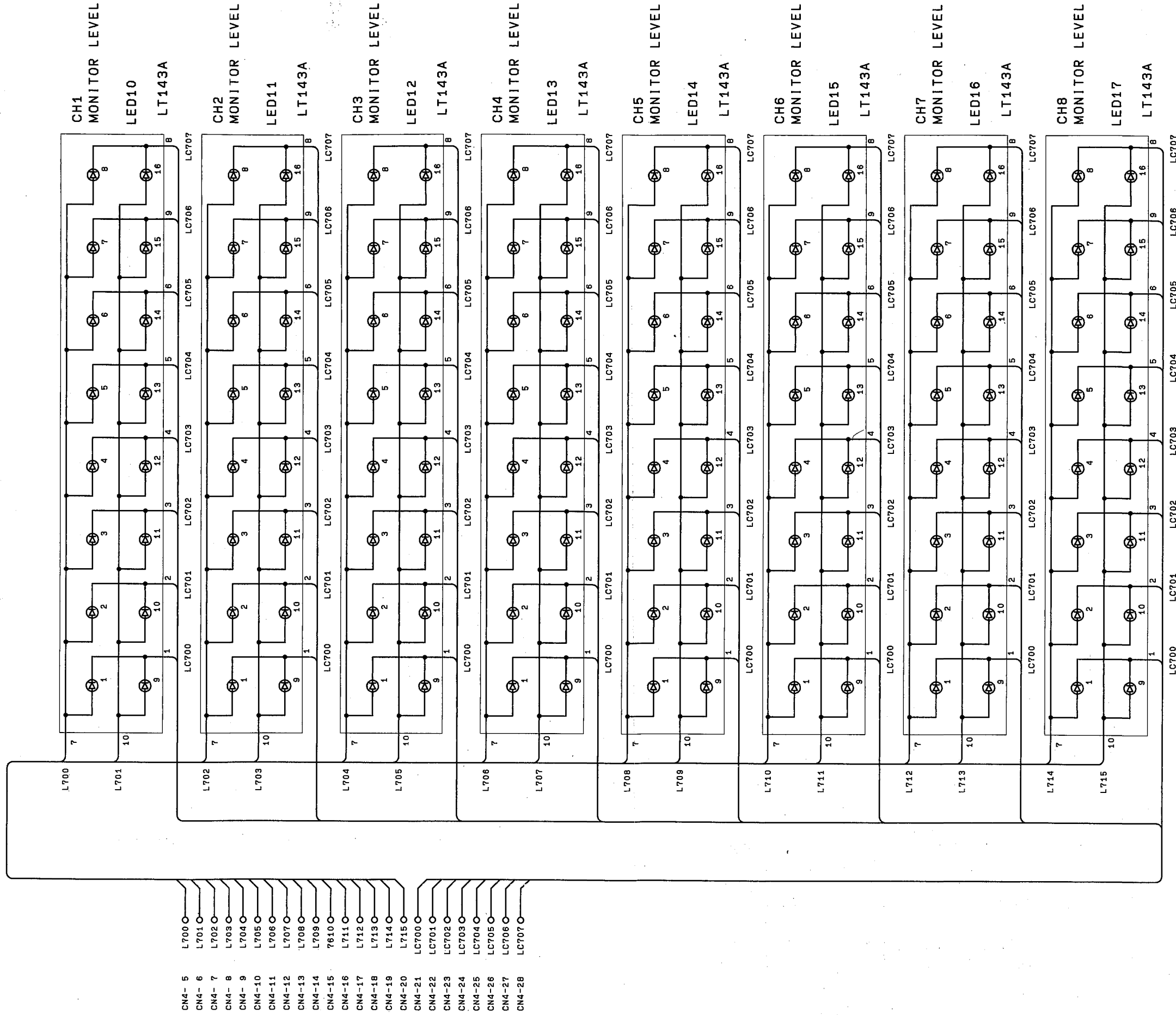


PNL CIRCUIT DIAGRAM 6/8



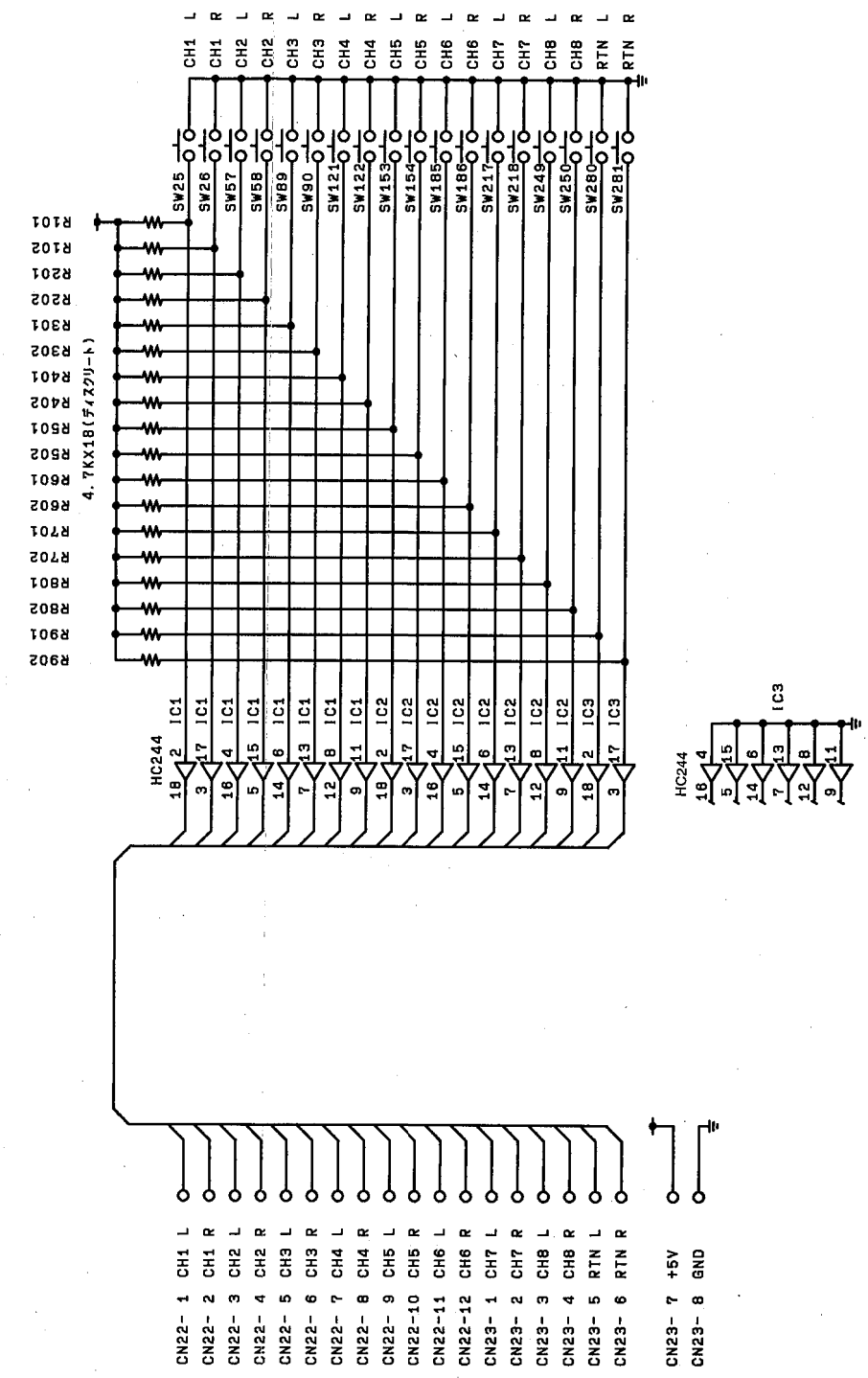
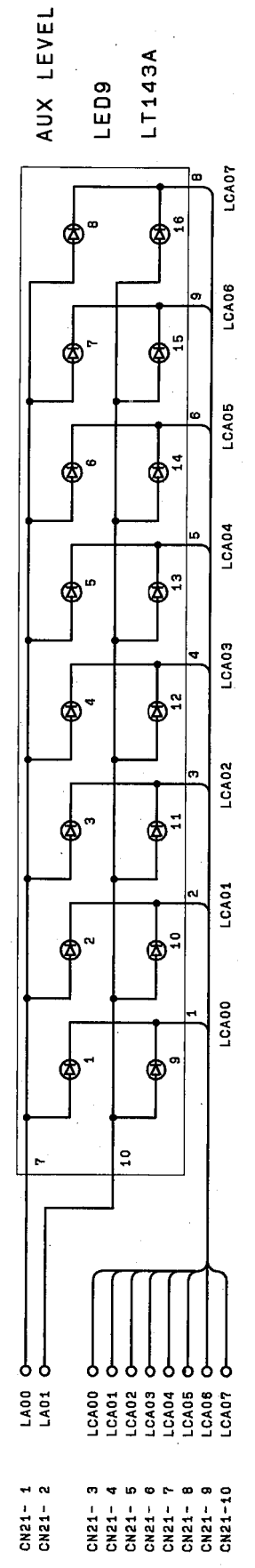
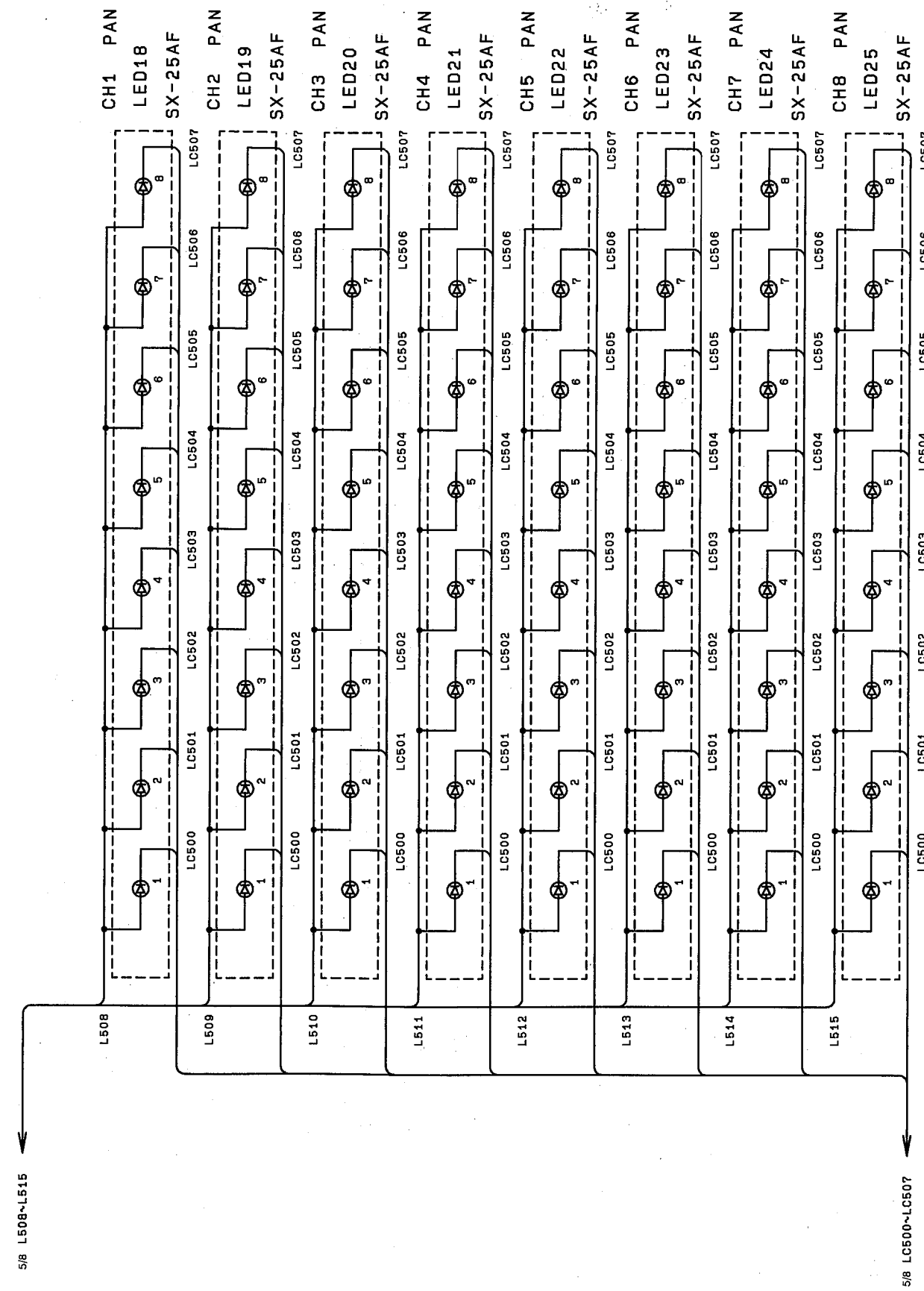
- CN3-41
- CN3-42
- CN3-43
- CN3-44
- CN3-45
- CN3-46
- CN3-47
- CN3-48
- CN3-49
- CN3-50
- CN3-51
- CN3-52
- CN3-53
- CN3-54
- CN3-55
- CN3-56
- CN3-57
- CN3-58
- CN3-59
- CN3-60
- CN4-1
- CN4-2
- CN4-3
- CN4-4

PNL CIRCUIT DIAGRAM 7/8

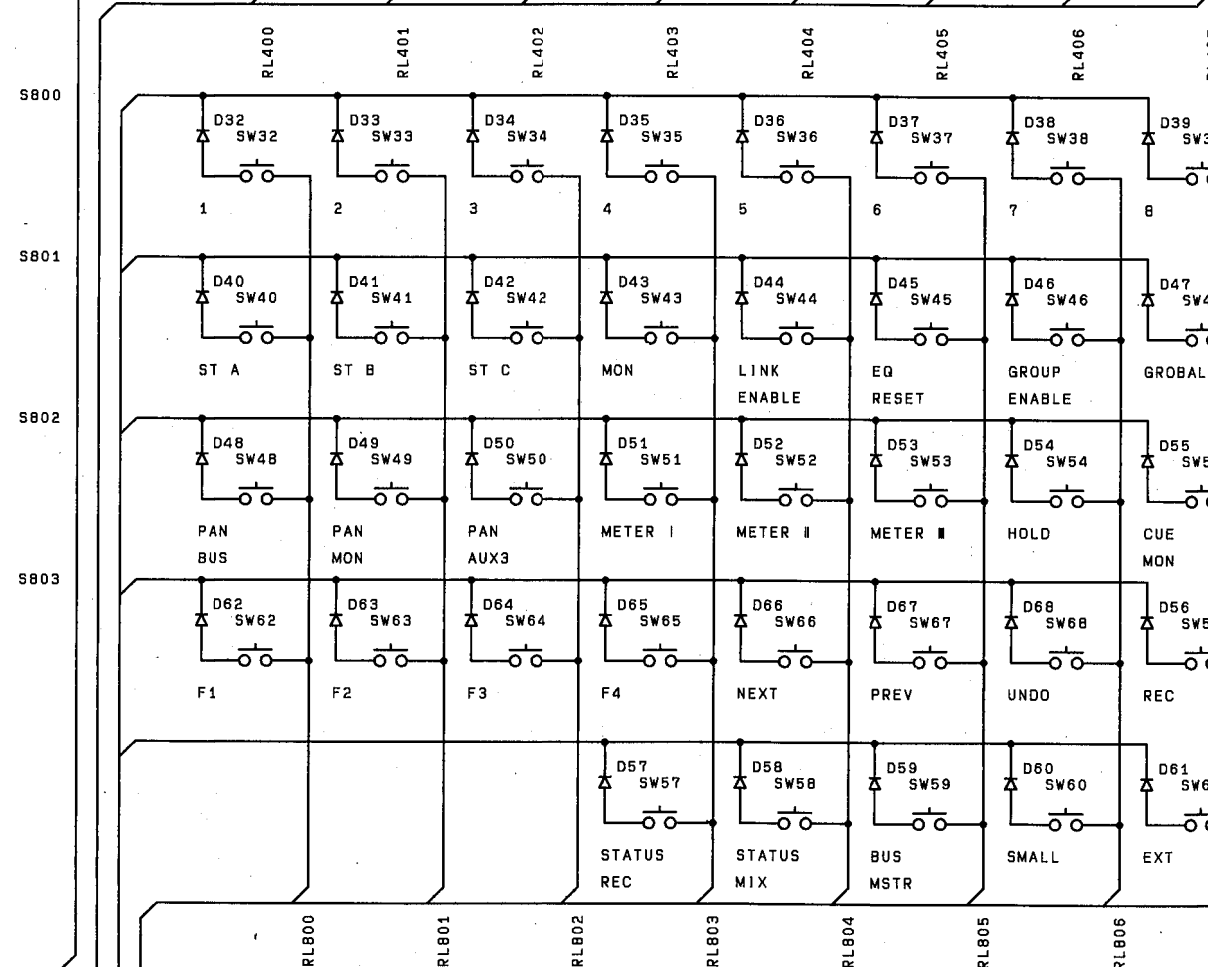
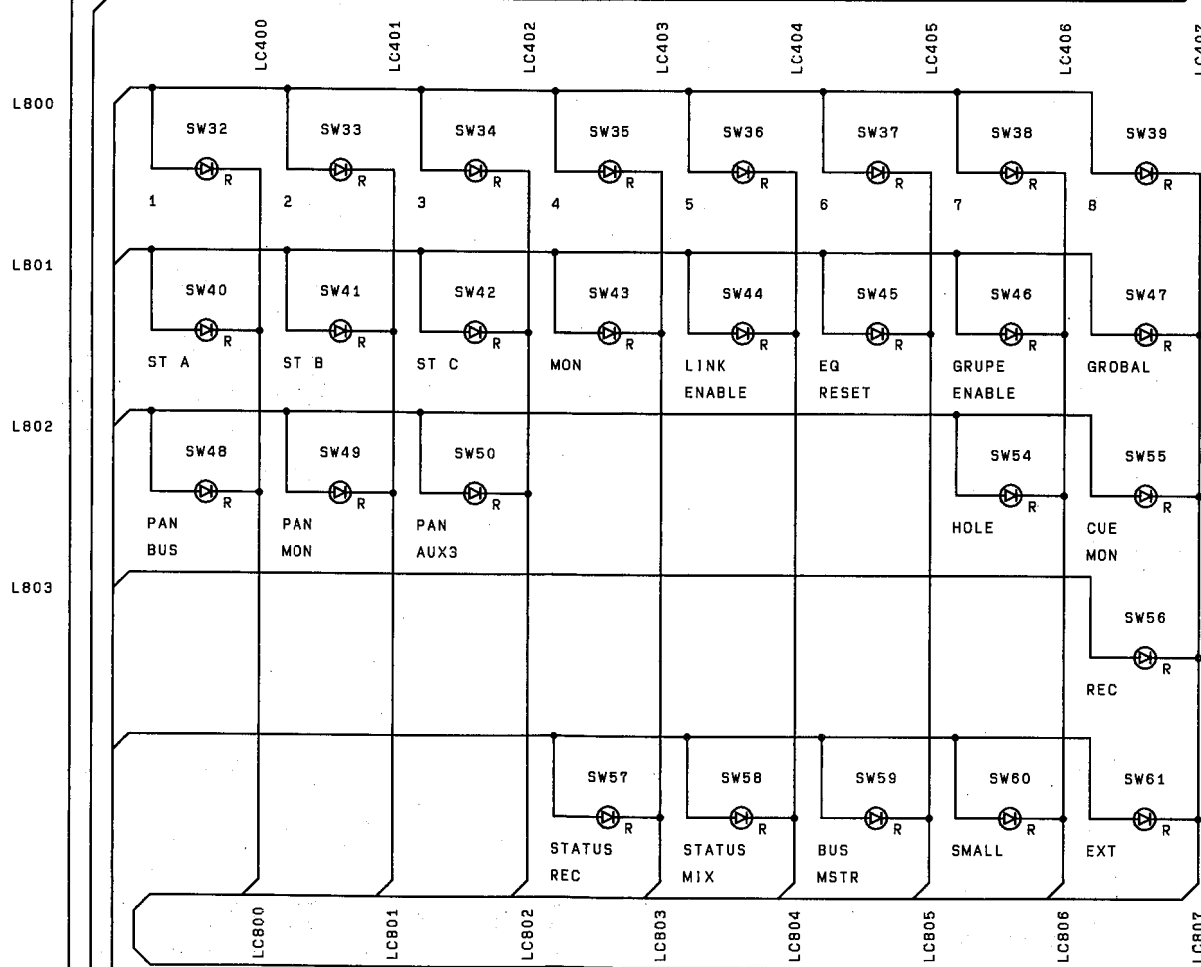
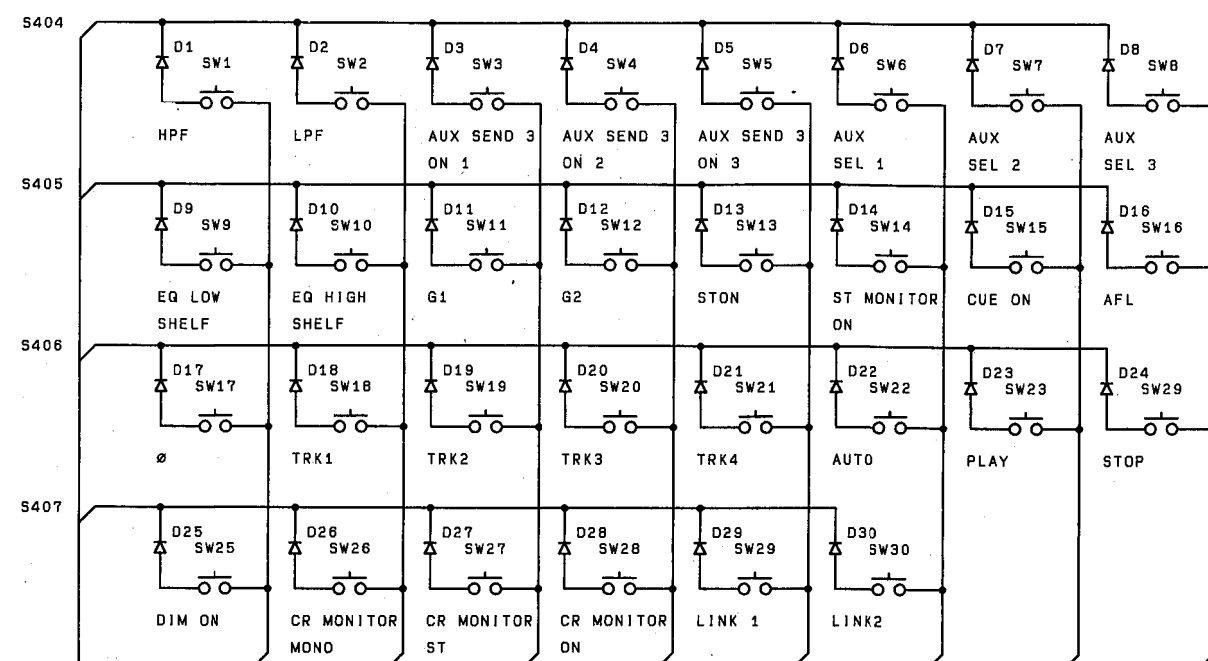
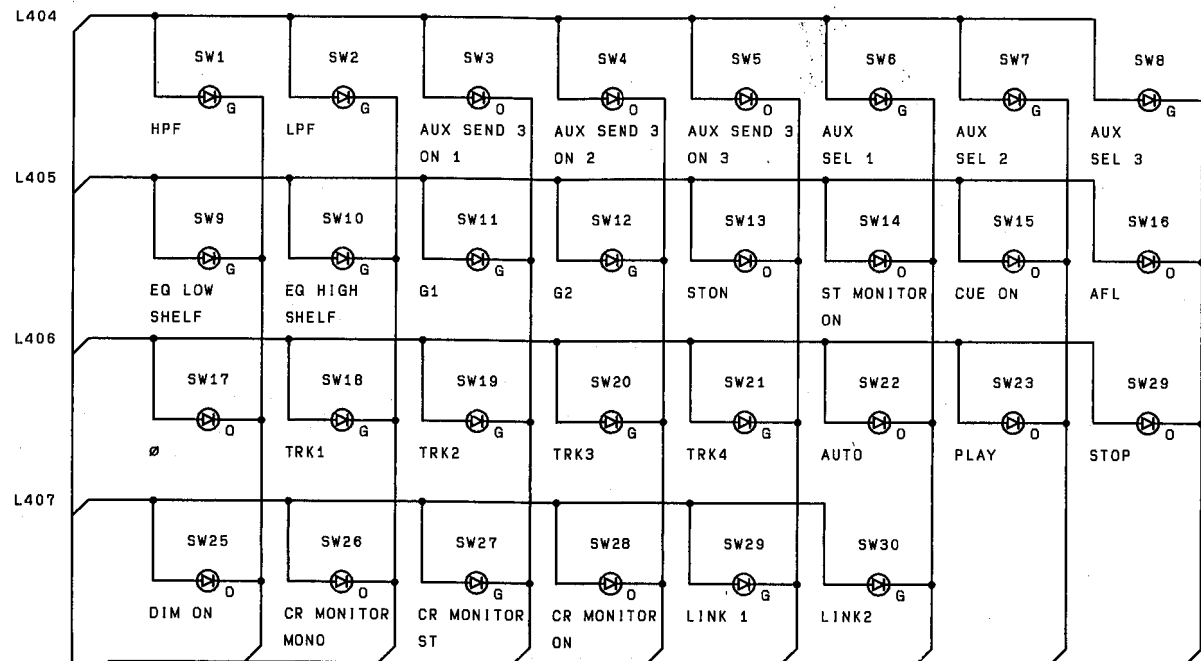


- CN4-5
- CN4-6
- CN4-7
- CN4-8
- CN4-9
- CN4-10
- CN4-11
- CN4-12
- CN4-13
- CN4-14
- CN4-15
- CN4-16
- CN4-17
- CN4-18
- CN4-19
- CN4-20
- CN4-21
- CN4-22
- CN4-23
- CN4-24
- CN4-25
- CN4-26
- CN4-27
- CN4-28

PNL CIRCUIT DIAGRAM 8/8



PNR CIRCUIT DIAGRAM 1/3

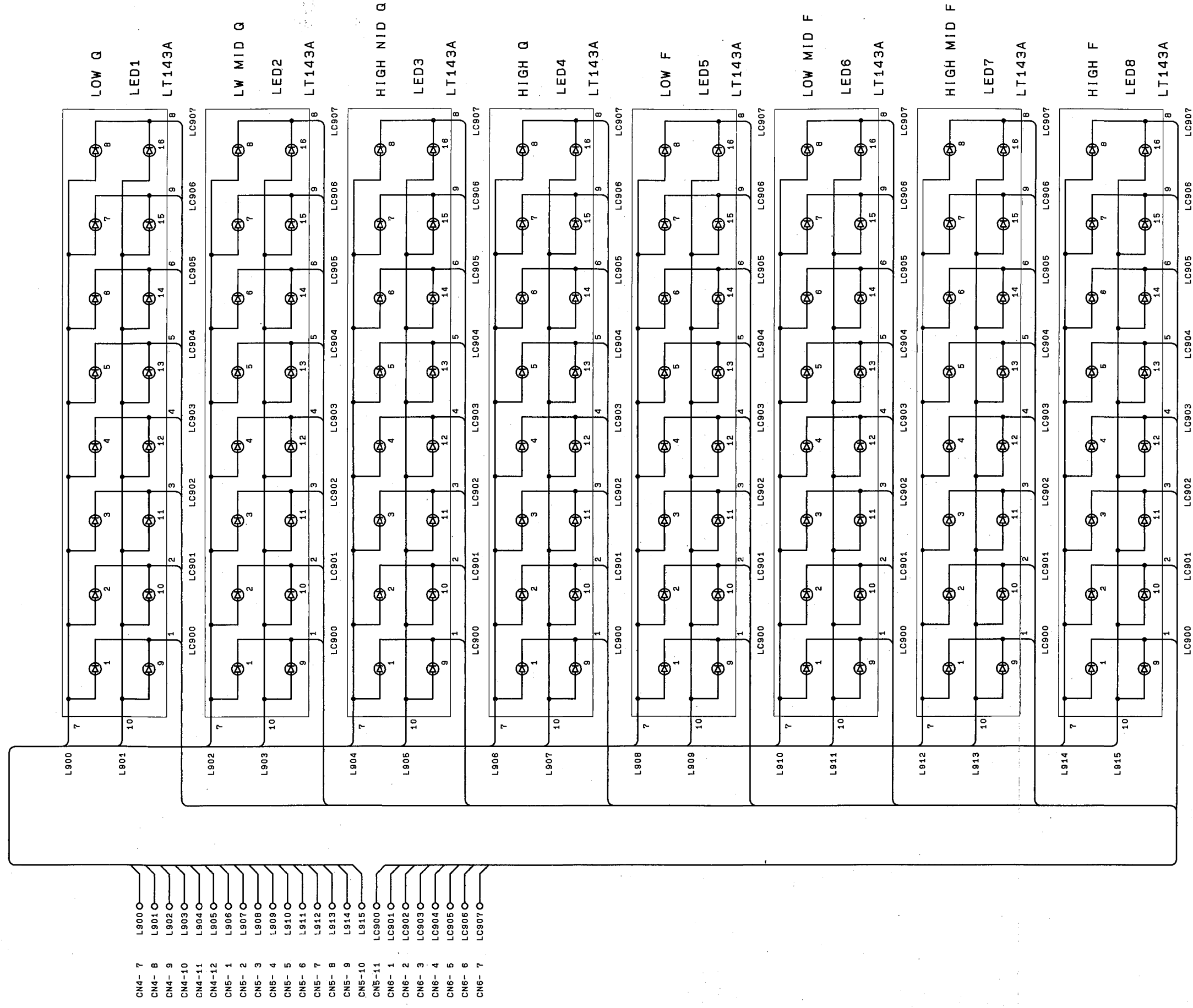


- L404
- L405
- L406
- L407
- LC400
- LC401
- LC402
- LC403
- LC404
- LC405
- LC406
- LC407
- L800
- L801
- L802
- L803
- LC800
- LC801
- LC802
- LC803
- LC804
- LC805
- LC806
- LC807
- S404
- S405
- S406
- S407
- RL400
- RL401
- RL402
- RL403
- RL404
- RL405
- RL406
- RL407
- S800
- S801
- S802
- S803
- RL800
- RL801
- RL802
- RL803
- RL804
- RL805
- RL806
- RL807
- CN1-1
- CN1-2
- CN1-3
- CN1-4
- CN1-5
- CN1-6
- CN1-7
- CN1-8
- CN1-9
- CN1-10
- CN1-11
- CN1-12
- CN2-10
- CN2-11
- CN2-12
- CN2-13
- CN2-14
- CN3-1
- CN3-2
- CN3-3
- CN3-4
- CN3-5
- CN3-6
- CN3-7
- CN3-8
- CN3-9
- CN3-10
- CN3-11
- CN3-12
- CN3-13
- CN4-1
- CN4-2
- CN4-3
- CN4-4
- CN4-5
- CN4-6

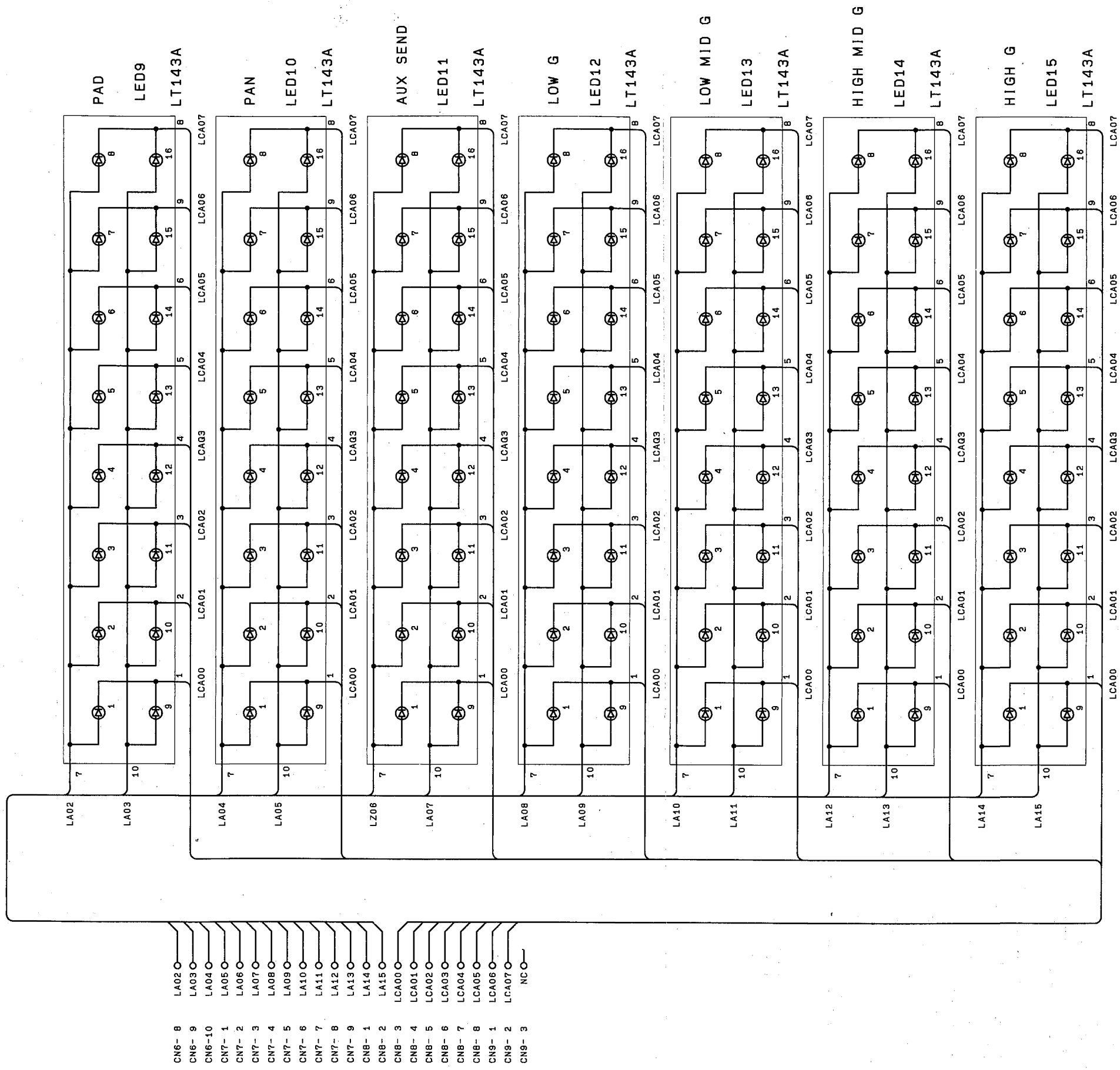
PNR CIRCUIT DIAGRAM 2/3

1
2
3
4
5
6

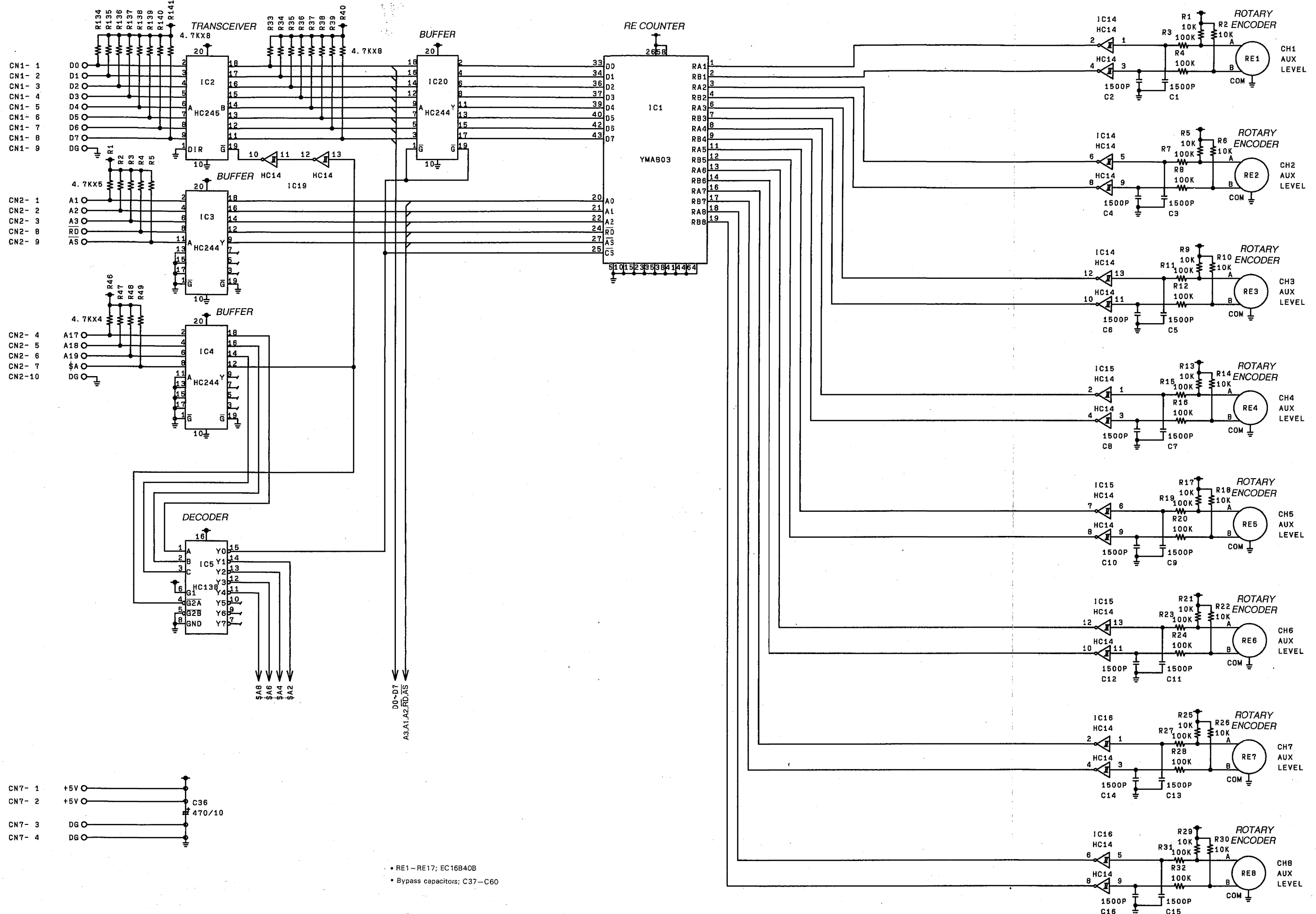
A B C D E F T G H



PNR CIRCUIT DIAGRAM 3/3

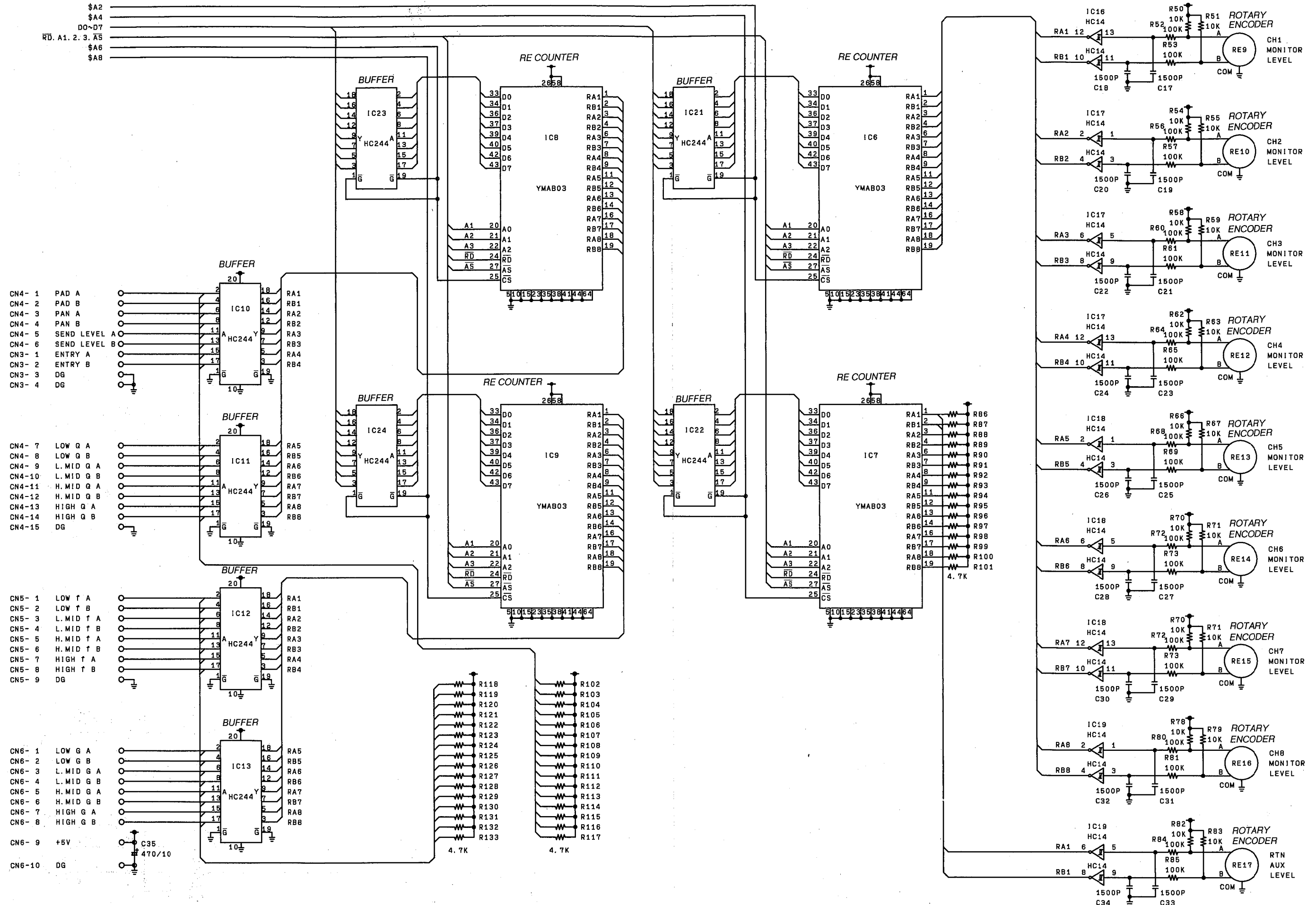


REL CIRCUIT DIAGRAM 1/2



• RE1 - RE17; EC16B40B
 • Bypass capacitors; C37 - C60

REL CIRCUIT DIAGRAM 2/2



- CN4- 1 PAD A
- CN4- 2 PAD B
- CN4- 3 PAN A
- CN4- 4 PAN B
- CN4- 5 SEND LEVEL A
- CN4- 6 SEND LEVEL B
- CN3- 1 ENTRY A
- CN3- 2 ENTRY B
- CN3- 3 DG
- CN3- 4 DG

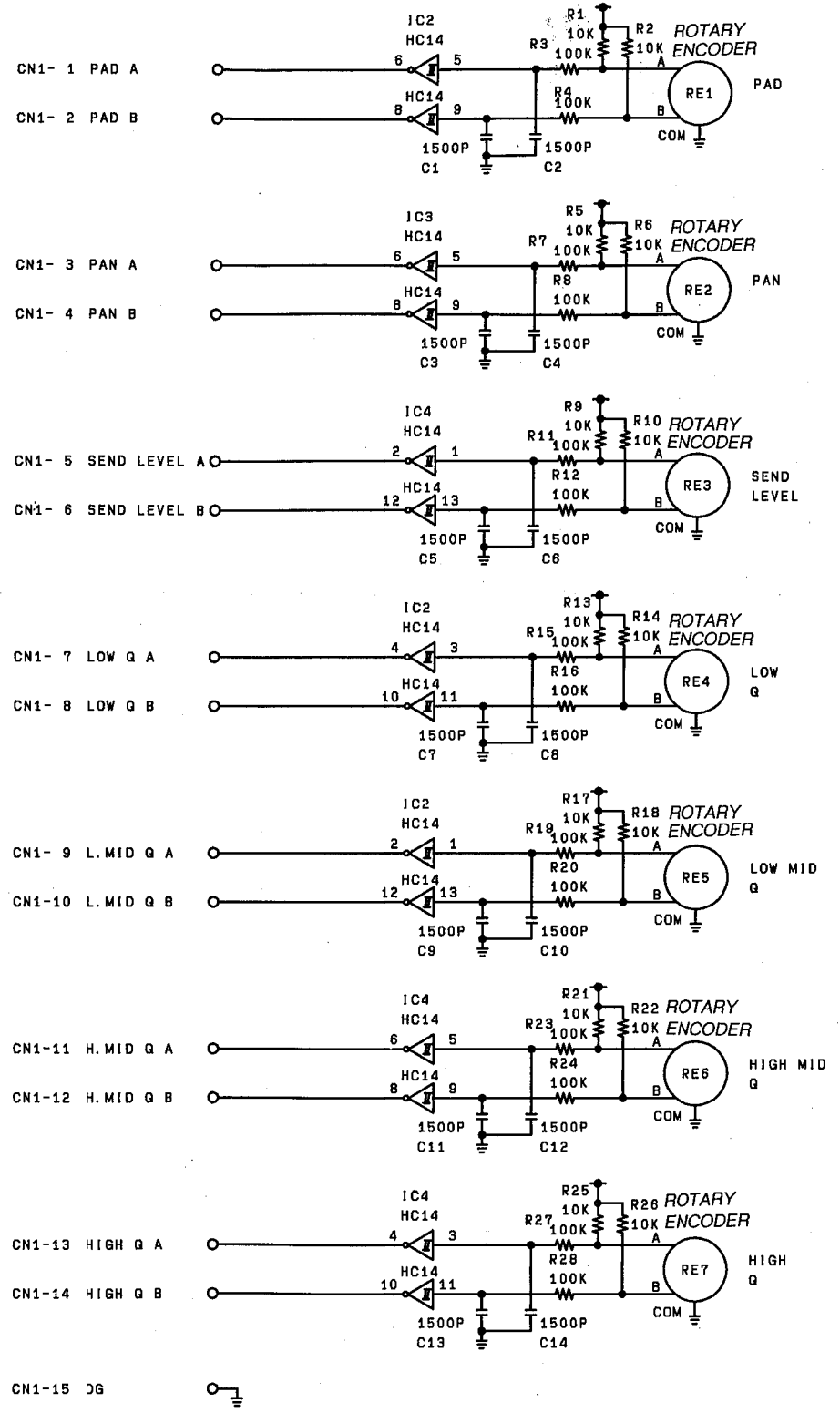
- CN4- 7 LOW Q A
- CN4- 8 LOW Q B
- CN4- 9 L. MID Q A
- CN4-10 L. MID Q B
- CN4-11 H. MID Q A
- CN4-12 H. MID Q B
- CN4-13 HIGH Q A
- CN4-14 HIGH Q B
- CN4-15 DG

- CN5- 1 LOW f A
- CN5- 2 LOW f B
- CN5- 3 L. MID f A
- CN5- 4 L. MID f B
- CN5- 5 H. MID f A
- CN5- 6 H. MID f B
- CN5- 7 HIGH f A
- CN5- 8 HIGH f B
- CN5- 9 DG

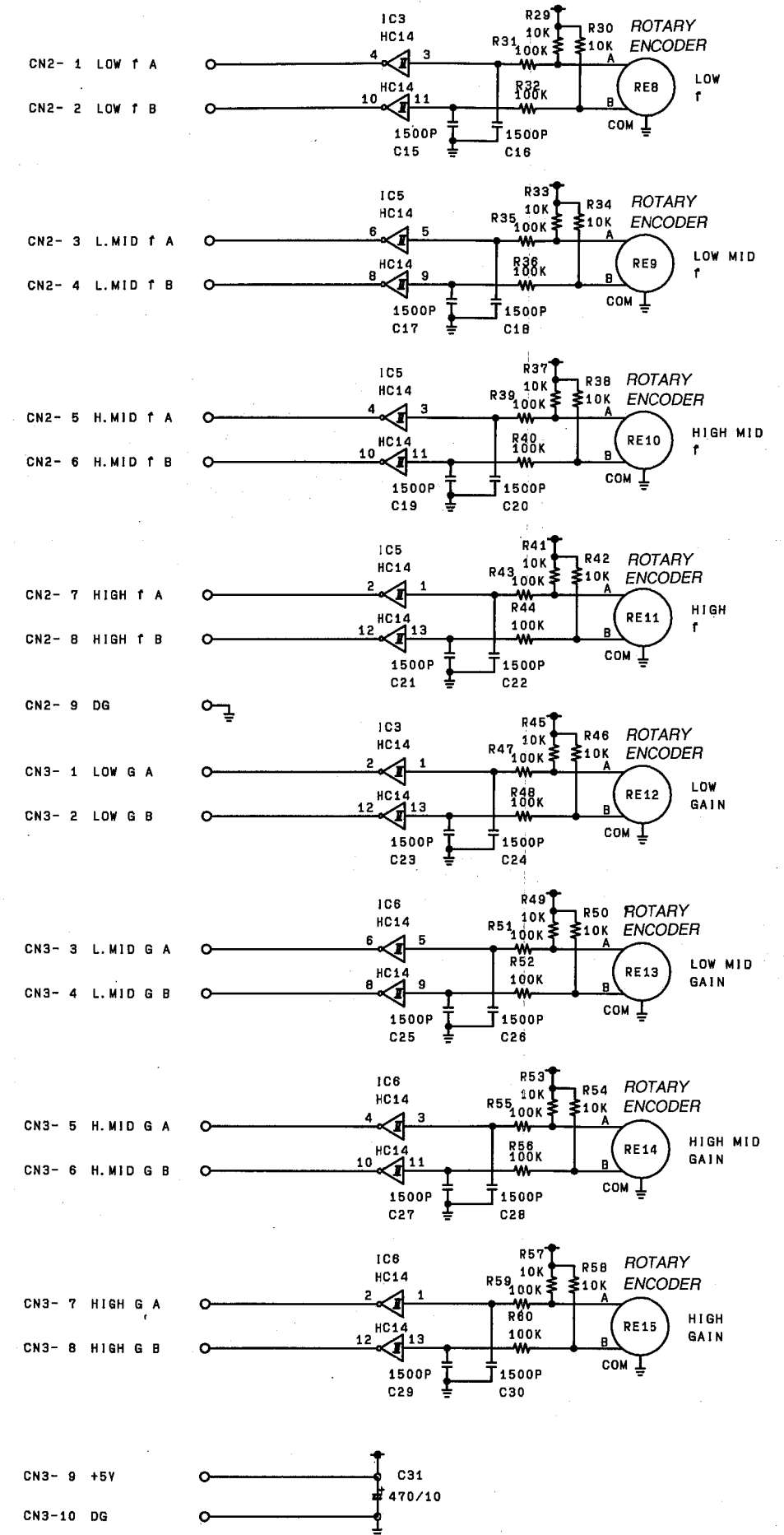
- CN6- 1 LOW G A
- CN6- 2 LOW G B
- CN6- 3 L. MID G A
- CN6- 4 L. MID G B
- CN6- 5 H. MID G A
- CN6- 6 H. MID G B
- CN6- 7 HIGH G A
- CN6- 8 HIGH G B

- CN6- 9 +5V
- CN6-10 DG

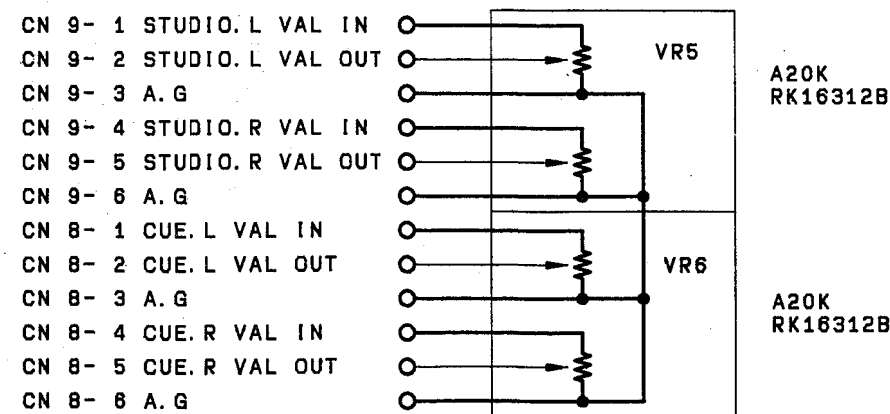
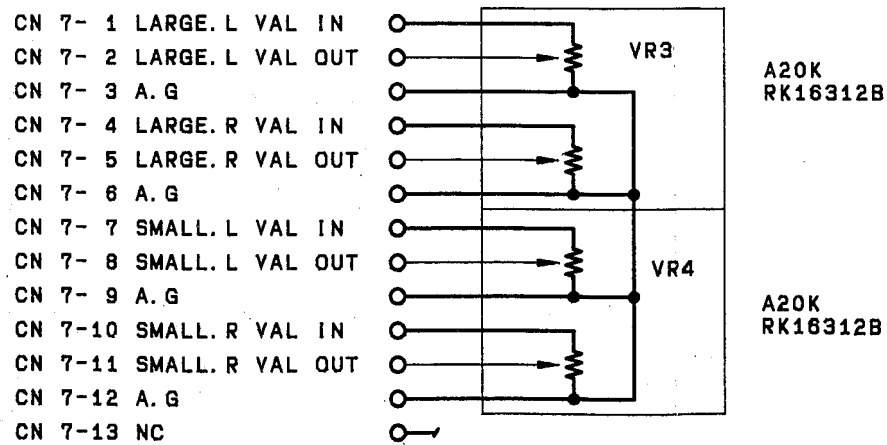
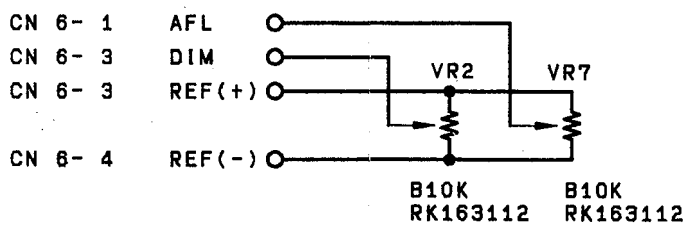
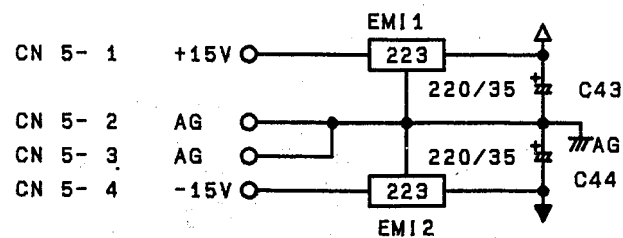
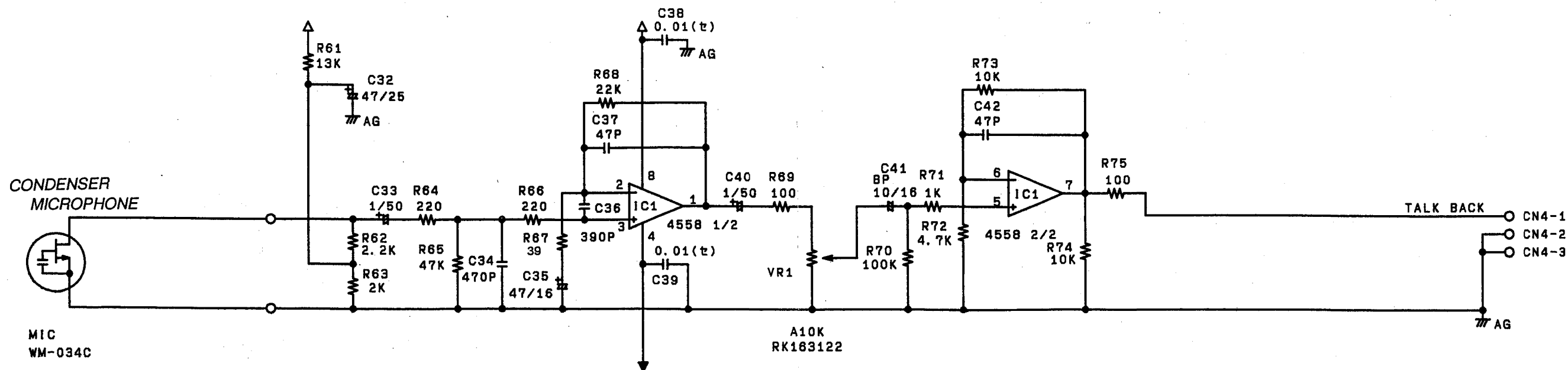
RER CIRCUIT DIAGRAM 1/2



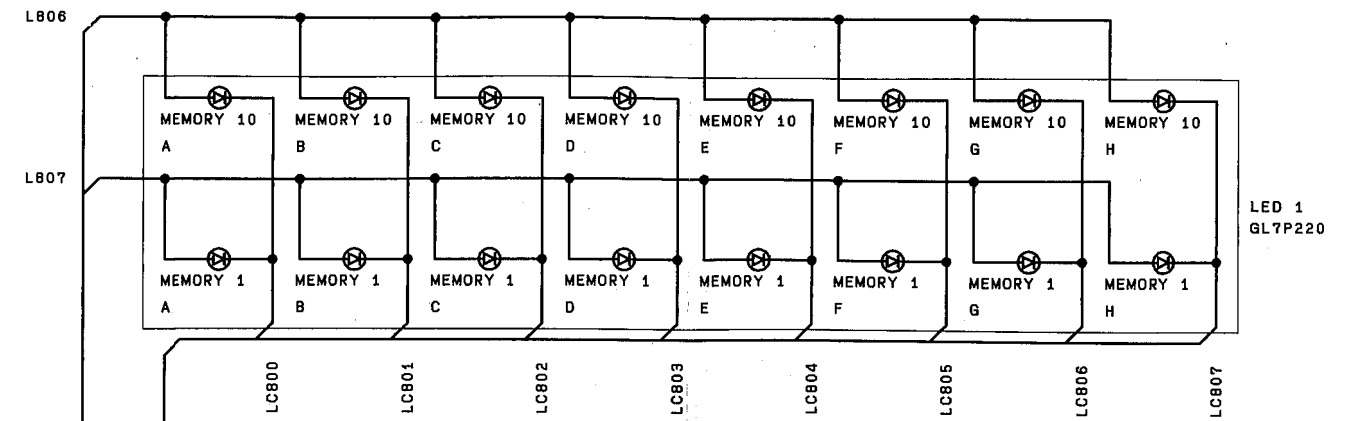
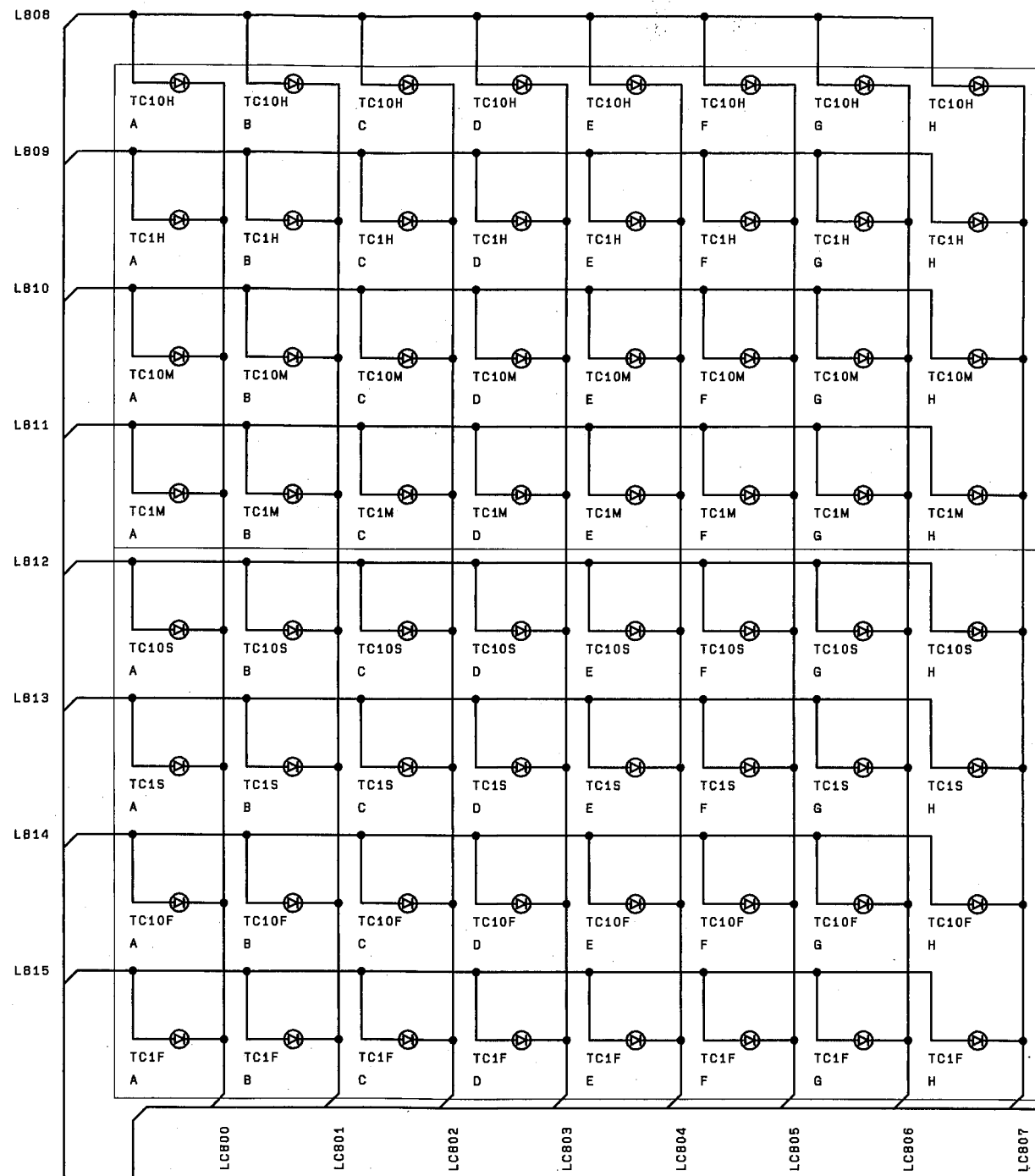
• Bypass capacitors: C45-C49



■ RER CIRCUIT DIAGRAM 2/2



SEG CIRCUIT DIAGRAM



LED 2
GL3P422

LED 3
GL3P422

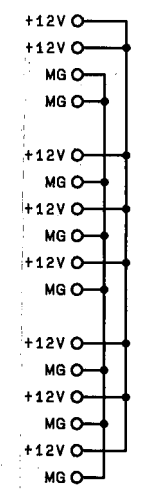
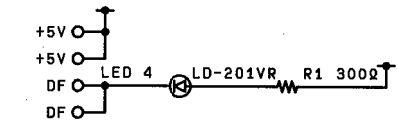
LED 1
GL7P220

- CN 3- 1
- CN 3- 2
- CN 3- 3
- CN 3- 4

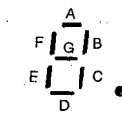
- CN 4- 1
- CN 4- 2
- CN 4- 3
- CN 4- 4

- CN 5- 1
- CN 5- 2
- CN 5- 3
- CN 5- 4
- CN 5- 5
- CN 5- 6

- CN 6- 1
- CN 6- 2
- CN 6- 3
- CN 6- 4
- CN 6- 5
- CN 6- 6



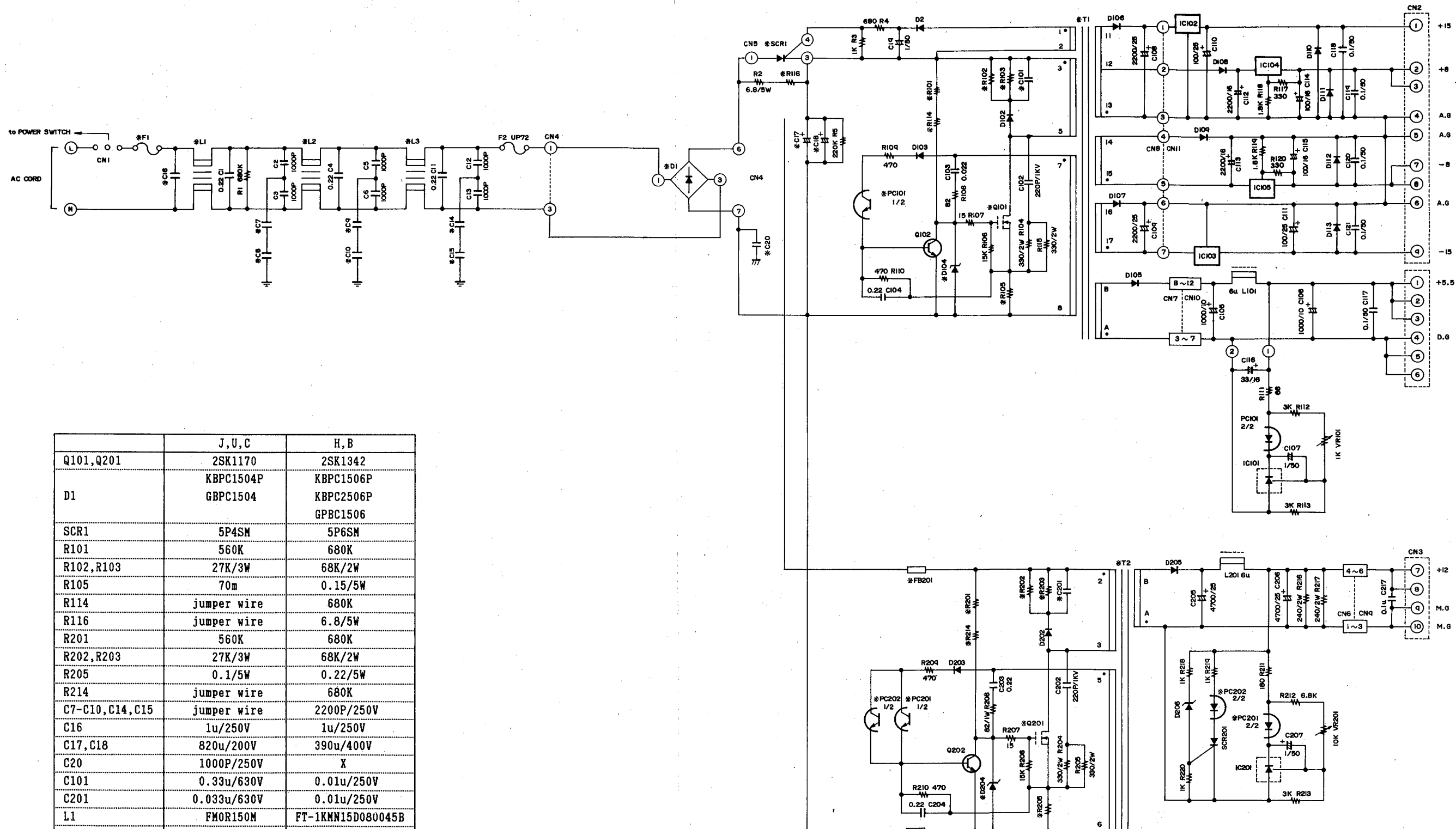
• 7-segment LED



- L806 ○
- L807 ○
- L808 ○
- L809 ○
- L810 ○
- L811 ○
- L812 ○
- L813 ○
- L814 ○
- L815 ○
- LC800 ○
- LC801 ○
- LC802 ○
- LC803 ○
- LC804 ○
- LC805 ○
- LC806 ○
- LC807 ○

- CN1- 1
- CN1- 2
- CN1- 3
- CN1- 4
- CN1- 5
- CN1- 6
- CN1- 7
- CN1- 8
- CN1- 9
- CN1-10
- CN2- 1
- CN2- 2
- CN2- 3
- CN2- 4
- CN2- 5
- CN2- 6
- CN2- 7
- CN2- 8

POWER SUPPLY UNIT



	J, U, C	H, B
Q101, Q201	2SK1170	2SK1342
D1	KBPC1504P	KBPC1506P
	GBPC1504	KBPC2506P
	GPBC1506	
SCR1	5P4SM	5P6SM
R101	560K	680K
R102, R103	27K/3W	68K/2W
R105	70m	0.15/5W
R114	jumper wire	680K
R116	jumper wire	6.8/5W
R201	560K	680K
R202, R203	27K/3W	68K/2W
R205	0.1/5W	0.22/5W
R214	jumper wire	680K
C7-C10, C14, C15	jumper wire	2200P/250V
C16	1u/250V	1u/250V
C17, C18	820u/200V	390u/400V
C20	1000P/250V	X
C101	0.33u/630V	0.01u/250V
C201	0.033u/630V	0.01u/250V
L1	FMOR150M	FT-1KN15D080045B
L2	ETQ39K2A-1	ETQ3K12A
L3	CL500300GB	CL300500FBK
FB201, FB202	LFW7B-M3R2A0	jumper wire
T1	TUM031F	TUM033F
T2	TUM030E	TUM032D
F1	6.3A/125V	T3.15A/250V

DIGITAL MIXING CONSOLE

DMC-1000

PARTS LIST

■CONTENTS (目次)

ELECTRICAL PARTS (電気部品)	1
OVERALL ASSEMBLY (総組立)	11
FRONT PANEL ASSEMBLY (フロントパネルAss'y)	13
PANEL ASSEMBLY (パネルAss'y)	16
BOTTOM ASSEMBLY (ボトムAss'y)	22
POWER SUPPLY ASSEMBLY (電源Ass'y)	26
ACCESORIES (付属品)	27

Notes DESTINATION ABBREVIATIONS

J : Japanese model	A : Australian model
U : U.S. model	E : European model
C : Canadian model	D : German model
X : General model	B : British model
M : South African model	I : Indonesian model
H : North European model	

ELECTRICAL PARTS (電気部品)

Ref. No.	Part No.	Description	部品名	Remarks	ランク
	VK707500	Circuit Board	ANA1/2	ANA 1/2シート	78
	VK707600	Circuit Board	ANA2/2	ANA 1/2シート	78
	VK155000	Circuit Board	CA	CAシート	10
	VK708100	Circuit Board	CIN1/2	CIN 1/2シート	65
	VK708200	Circuit Board	CIN2/2	CIN 2/2シート	65
	VK708300	Circuit Board	CLK1/2	CLK 1/2シート	50
	VK708400	Circuit Board	CLK2/2	CLK 2/2シート	51
	VK151200	Circuit Board	CPU	CPUシート	
	VK152400	Circuit Board	CRA	CRAシート	22
	VK152100	Circuit Board	CRC	CRCシート	44
	VK152200	Circuit Board	CRD	CRDシート	26
	VK152600	Circuit Board	CRE	CREシート	45
	VK152300	Circuit Board	CRF	CRFシート	36
	VK152500	Circuit Board	CRG	CRGシート	25
	VK152700	Circuit Board	CRH	CRHシート	31
	VK152800	Circuit Board	CRI	CRIシート	27
	VK152900	Circuit Board	CRJ	CRJシート	27
	VK153300	Circuit Board	CRK	CRKシート	34
	VK153600	Circuit Board	CRL	CRLシート	30
	VK153500	Circuit Board	CRM	CRMシート	20
	VK151300	Circuit Board	DSP	DSPシート	91
	VL886700	Circuit Board	DTB	DTBシート	J U.C H.B 26
	VL886900	Circuit Board	DTB	DTBシート	27
	VL887100	Circuit Board	DTB	DTBシート	26
	VK154400	Circuit Board	FPC	FPCシート	17
	NX810190	Circuit Board	FPE1/3	FPE 1/3シート	
	NX810200	Circuit Board	FPE2/3	FPE 2/3シート	
	NX810210	Circuit Board	FPE3/3	FPE 3/3シート	
	VK153700	Circuit Board	HP	HPシート	15
	VK707700	Circuit Board	IN1/2	IN 1/2シート	66
	VK707800	Circuit Board	IN2/2	IN 2/2シート	69
	VK153800	Circuit Board	MBD	MBDシート	54
	VK244600	Circuit Board	MDR	MDRシート	20
	NX810180	Circuit Board	NML	NMLシート	
	VK707900	Circuit Board	OUT1/2	OUT 1/2シート	74
	VK708000	Circuit Board	OUT2/2	OUT 2/2シート	74
	VK154000	Circuit Board	PM	PMシート	41
	VK151400	Circuit Board	PMD	PMDシート	51
	VK154200	Circuit Board	PMS	PMSシート	17
	VK151500	Circuit Board	PND	PNDシート	55
	VK154800	Circuit Board	PNL	PNLシート	79
	VK154700	Circuit Board	PNR	PNRシート	60
	VK154800	Circuit Board	REL	RELシート	59
	VK154900	Circuit Board	RER	RERシート	53
	VK154100	Circuit Board	SEG	SEGシート	16
	VK707500	Circuit Board	ANA1/2	ANA 1/2シート	78
	VK707600	Circuit Board	ANA2/2	ANA 2/2シート	78
	IG052500	IC	TL082CP	IC	OP AMP. 04
	IG078700	IC	NE5534P	IC	OP AMP. 05
	IG102500	IC	NE5532P	IC	OP AMP. 06
	XA013001	IC	M5238P	IC	OP AMP. 04
	IG157200	IC	AN78L05	IC	+5V REGULATOR 03
	XF611A00	IC	AN79L05	IC	-5V REGULATOR 03
	IG033400	IC	μ PC311C	IC	COMPARATOR 05
	XC555001	IC	NJU211D	IC	ANALOG SWITCH 07
	IR000450	IC	SN74HC04N	IC	INVERTER 03
	IR000850	IC	SN74HC08N	IC	AND PCB=XH840C0 03
	IR003250	IC	SN74HC32N	IC	OR PCB=XH840C0 03
	IR024450	IC	SN74HC244	IC	BUS-BUFFER 07
	XH751A00	IC	SH5803APT	IC	DIGITAL FILTER 16
	XH987A00	IC	PCM63P-Y	IC	D/A CONVERTER 17
	XI521A00	IC	AK5328-VP	IC	A/D CONVERTER 25
	IA101580	Transistor	2SA1015 O,Y	トランジスタ	01
	IC181580	Transistor	2SC1815 Y,GR	トランジスタ	01
	IC287820	Transistor	2SC2878 A,B	トランジスタ	01
	VD488500	Digital Transistor	DTC143XS	デジタルトランジスタ	03
	IH000240	Diode	1S1885	ダイオード	01
	V8481900	Diode	11ES4	ダイオード	01
	IF003450	Diode	1SS133	ダイオード	01
	IF005680	Zener Diode	RD27E83 27V	ツェナーダイオード	01
	IX608000	Zener Diode	MTZ4.7B	ツェナーダイオード	PCB=XH840B0 02
	VC819600	Metal Film Resistor	75.0Ω 1/6 F	金属皮膜抵抗	01
	VC820900	Metal Film Resistor	220.0Ω 1/6 F	金属皮膜抵抗	01
	VC821600	Metal Film Resistor	430.0Ω 1/6 F	金属皮膜抵抗	01
	VC821800	Metal Film Resistor	510.0Ω 1/6 F	金属皮膜抵抗	01
	VC822500	Metal Film Resistor	1.0KΩ 1/6 F	金属皮膜抵抗	01
	V8065900	Metal Film Resistor	1.5KΩ 1/4 F	金属皮膜抵抗	01
	VC824000	Metal Film Resistor	4.3KΩ 1/6 F	金属皮膜抵抗	PCB=XH840B0 01

Ref. No.	Part No.	Description	部品名	Remarks	ランク	
	VA074200	Metal Film Resistor	5.1KΩ 1/4 F	金属皮膜抵抗	PCB=XH840C0	01
	VC824700	Metal Film Resistor	8.2KΩ 1/6 F	金属皮膜抵抗	PCB=XH840B0	01
	VC824900	Metal Film Resistor	10.0KΩ 1/6 F	金属皮膜抵抗		01
	VC825100	Metal Film Resistor	12.0KΩ 1/6 F	金属皮膜抵抗		01
	VC825200	Metal Film Resistor	13.0KΩ 1/6 F	金属皮膜抵抗	PCB=XH840B0	01
	VC825700	Metal Film Resistor	22.0KΩ 1/6 F	金属皮膜抵抗	PCB=XH840B0	01
	VB068200	Metal Film Resistor	24.0KΩ 1/4 F	金属皮膜抵抗	PCB=XH840C0	01
	VC826300	Metal Film Resistor	39.0KΩ 1/6 F	金属皮膜抵抗		01
	VC826400	Metal Film Resistor	43.0KΩ 1/6 F	金属皮膜抵抗		01
	VC826900	Metal Film Resistor	68.0KΩ 1/6 F	金属皮膜抵抗		01
	HT560030	Trimmer Potentiometer	B500 3P 3321H	半固定ボリューム	PCB=XH840C0	05
	VD753100	Trimmer Potentiometer	B5.0K 3P EVN	半固定ボリューム	PCB=XH840C0	01
	VA024800	Trimmer Potentiometer	B10K EVN-D4A	半固定ボリューム	PCB=XH840B0	02
	VA788500	Trimmer Potentiometer	B220K 3P RHE	半固定ボリューム		01
	UJ858330	Electrolytic Cap.	330μ 35V	ケミコン		01
	VD843800	Ceramic Cap.	10000P 18V H	円筒セラ (Y)		01
	VC694800	Semiconductive Cera. Cap.	0.1μ 25V Z	半導体セラコン		01
	VF611200	Monolithic Cera. Cap.	0.1μ 50V K	積層セラコン		02
	VD534400	Monolithic Cera. Cap.	1.5μ 25V Z	積層セラコン	PCB=XH840B0	01
	VJ663000	Monolithic Mylar Cap.	0.022μ 50V J	積層マイラコン		01
	VJ663100	Monolithic Mylar Cap.	0.22μ 50V J	積層マイラコン		01
	FZ006920	EMI Filter	LS MT B271KB	横断フィルター EMI	270P	01
	FZ006970	EMI Filter	LS MT Y223NB	LCフィルター EMI	22000P	02
	VD613500	Relay	DC AG 8023	リレー		06
	GE300610	Ferrite Bead	BL02RN1-R62T4	フェライトビーズ		01
	VC719300	Terminal Plate	P-424	ターミナル金具	1pc.	01
	VK155000	Circuit Board	CA	CAシート		10
	VF821100	Connector, IC Card	IC3A-38PS-1.27D	ICカード用コネクタ	38P MEMORY CARD	06
	VK708100	Circuit Board	CIN1/2	CIN1/2シート		85
	VK708200	Circuit Board	CIN2/2	CIN2/2シート		85
	IG157200	IC	AN78L05	IC	+5V REGULATOR	03
	IR000450	IC	SN74HC04N	IC	INVERTER	03
	IR000850	IC	SN74HC08N	IC	AND	03
	IR003250	IC	SN74HC32N	IC	OR	03
	IR007450	IC	SN74HC74N	IC	D-FF	04
	IR012300	IC	TC74HC123AP	IC	MONO-FF	04
	IR012550	IC	SN74HC125N	IC	3S-BUFFER	03
	IR013850	IC	SN74HC138N	IC	DECODER 3-8	05
	IR013950	IC	SN74HC139N	IC	DECODER 2-4	05
	IR015150	IC	SN74HC151N	IC	MULTIPLEXER	02
	IR015350	IC	SN74HC153N	IC	4-1 SELECTOR	03
	IR015750	IC	SN74HC157N	IC	DATA-SELECTOR	02
	IR016350	IC	SN74HC183N	IC	COUNTER	03
	IR016450	IC	SN74HC164N	IC	SHIFT REGISTER	05
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	IR027350	IC	SN74HC273N	IC	D-FF OCTAL	05
	IR037450	IC	SN74HC374N	IC	D-FF	06
	XE800A00	IC	YM8035	IC	PSC2	11
	XE862B00	IC	YM3422B	IC	ESI	05
	XG948C00	IC	YM3438BG	IC	DIR2	
	XH494A00	IC	YM6067	IC	PSC4	10
	XH888A00	IC	YMB04	IC	BIT SHIFT	11
	IC181580	Transistor	2SC1815 Y,GR	トランジスタ		01
	IF003450	Diode	1SS133	ダイオード		01
	UJ838470	Electrolytic Cap.	470μ 16V	ケミコン		01
	FZ004100	Semiconductive Cera. Cap.	0.1μ 16V H	半導体セラコン		01
	VJ786300	Monolithic Cera. Cap.	0.22μ 50V Z	積層セラコン		01
	VD534400	Monolithic Cera. Cap.	1.5μ 25V Z	積層セラコン		01
	--	Chip Cera. Cap.	F 0.01μ 50V Z	チップ積層セラコン		
	FZ006970	EMI Filter	LS HT Y223NB	LCフィルター EMI	22000P	02
	KA401270	Slide Switch	SSS212	スライドスイッチ	2pcs	03
	VK500200	Slide Switch	SSSS213	スライドスイッチ	2pcs	01
	VK708300	Circuit Board	CLK1/2	CLK1/2シート		50
	VK708400	Circuit Board	CLK2/2	CLK2/2シート		51
	IG157200	IC	AN78L05	IC	+5V REGULATOR	03
	IG116200	IC	PST518B-2	IC	SYSTEM RESET	04
	IG057900	IC	MC4044	IC	F.DETECT	08
	IG136400	IC	SN74LS624N	IC	VCO	07
	IG142250	IC	SN74HC04N	IC	INVERTER	01
	IR000050	IC	SN74HC00N	IC	NAND	03
	IR000450	IC	SN74HC04N	IC	INVERTER	03
	IR000850	IC	SN74HC08N	IC	AND	03
	IR001450	IC	SN74HC14N	IC	INVERTER	05
	IR003250	IC	SN74HC32N	IC	OR	03
	IR007450	IC	SN74HC74N	IC	D-FF	04
	IR008600	IC	TC74HC86P	IC	EX-OR	02

Ref. No.	Part No.	Description	部品名	Remarks	ランク	
	IR012300	IC	TC74HC123AP	I C	MONO-FF	04
	IR012550	IC	SN74HC125N	I C	3S-BUFFER	03
	IR013950	IC	SN74HC139N	I C	DECODER 2-4	05
	IR015400	IC	TC74HC154AP	I C	DECODER 4-16	04
	IR015750	IC	SN74HC157N	I C	DATA-SELECTOR	02
	IR016350	IC	SN74HC163N	I C	COUNTER	03
	IR016450	IC	SN74HC164N	I C	SHIFT REGISTER	05
	IR016550	IC	SN74HC165N	I C	SHIFT REGISTER	04
	IR024450	IC	SN74HC244	I C	BUS-BUFFER	07
	IR027350	IC	SN74HC273N	I C	D-FF OCTAL	05
	IR037350	IC	SN74HC373N	I C	D-LATCH	05
	IR407200	IC	TC74HC4072AP	I C	OR	02
	IG105200	IC	HD63B03RP	I C	CPU 8bit	16
	XF876A00	IC	LH5164D-10L	I C	SRAM 64K	08
	XI562B00	IC	MB7118NH	I C	EP ROM (T1)	
	XI565B00	IC	MB7118NH	I C	EP ROM (T2)	
	XI566B00	IC	MB7118NH	I C	EP ROM (T3)	
	XI567B00	IC	MB7118NH	I C	EP ROM (T4)	
	XI569B00	IC	D27C010	I C	EP ROM (AES/EBU)	
	XG948C00	IC	YM3436BG	I C	DIR2	
	IC181580	Transistor	2SC1815 Y,GR.	トランジスタ		01
	IF003450	Diode	1SS133	ダイオード		01
	UJ838470	Electrolytic Cap.	470 μ 16V	ケミコン		01
	FZ004100	Semiconductive Cera. Cap.	0.1 μ 16V M	半導体セラコン		01
	FZ005780	Monolithic Cera. Cap.	0.22 μ 50V Z	積層セラコン		01
	VD534400	Monolithic Cera. Cap.	1.5 μ 25V Z	積層セラコン		01
	VB835000	Coil	20 μ FL5R200QNT	コイル		01
	FZ006970	EHI Filter	LS MT Y223NB	LCフィルター EMI	22000P	02
	VH227800	EHI Filter	NFV610-655T2A	LCフィルター EMI	50MHz	03
	QU008500	Ceramic Resonator	CSA8.00MT	セラミック振動子	8MHz	03
	VI551900	Quartz Crystal Unit	AF5883CK	水晶振動子	11.2896MHz	03
	VI552000	Quartz Crystal Unit	AF2138CG	水晶振動子	12.288MHz	03
	FU450800	Maica Capacitor	8P 500V J	マイカコン		01
	FU351220	Maica Capacitor	22P 500V J	マイカコン		01
	FU351330	Maica Capacitor	33P 500V J	マイカコン		01
	VC719300	Terminal Plate	P-424	ターミナル金具		01
	VK151200	Circuit Board	CPU	CPUシート		
	XB088001	IC	SC17661C	I C	DC-DC CONVERTER	06
	IG116200	IC	PST518B-2	I C	SYSTEM RESET	04
	IG142250	IC	SN74HC004N	I C	INVERTER	01
	IR000050	IC	SN74HC00N	I C	NAND	03
	IR000350	IC	SN74HC03N	I C	NAND	01
	IR000450	IC	SN74HC04N	I C	INVERTER	03
	IR000550	IC	SN74HC05N	I C	INVERTER	02
	IR000850	IC	SN74HC08N	I C	AND	03
	IR001150	IC	SN74HC11N	I C	AND	03
	IR001450	IC	SN74HC14N	I C	INVERTER	05
	IR003050	IC	SN74HC30N	I C	NAND	02
	IR003250	IC	SN74HC32N	I C	OR	03
	IR007450	IC	SN74HC74N	I C	D-FF	04
	IR008600	IC	TC74HC86P	I C	EX-OR	02
	IR012550	IC	SN74HC125N	I C	3S-BUFFER	03
	IR013850	IC	SN74HC138N	I C	DECODER 3-8	05
	IR013950	IC	SN74HC139N	I C	DECODER 2-4	05
	IR015750	IC	SN74HC157N	I C	DATA-SELECTOR	02
	IR016450	IC	SN74HC164N	I C	SHIFT REGISTER	05
	IR024050	IC	SN74HC240N	I C	BUS-BUFFER	04
	IR024450	IC	SN74HC244	I C	BUS-BUFFER	07
	IR024550	IC	SN74HC245N	I C	TRANSCEIVER	06
	IR027350	IC	SN74HC273N	I C	D-FF OCTAL	05
	IR037350	IC	SN74HC373N	I C	D-LATCH	05
	IR037450	IC	SN74HC374N	I C	D-FF	06
	IR039350	IC	SN74HC393N	I C	COUNTER	04
	IG090400	IC	MSM58321RS	I C	RTC	09
	IG105200	IC	HD63B03RP	I C	CPU 8bit	16
	IG129200	IC	HD46508A-1	I C	DATA IN	12
	XB361001	IC	μ PD71055C	I C	PPI	06
	XB623001	IC	WD1772PH-02	I C	FDC	12
	XC310A00	IC	μ PD71054C	I C	PTC	06
	XC806A00	IC	HD68HC000P12	I C	CPU	17
	XH499B00	IC	HD63C01YORS37P	I C	CPU	08
	XF876A00	IC	LH5164D-10L	I C	SRAM 64K	08
	XI559A00	IC	D27C010-120V10	I C	EP ROM (BOOT-0)	18
	XI560A00	IC	TMS27C128-20JL	I C	EP ROM (FADER1)	11
	XI563A00	IC	D27C010-120V10	I C	EP ROM (BOOT-E)	18
	XI564A00	IC	TMS27C128-20JL	I C	EP ROM (FADER2)	11
	XH497A00	IC	YM8604	I C	ACIA	18
	XI560A00	IC	HM628128LP-10	I C	SRAM 1M	22

Ref. No.	Part No.	Description	部品名	Remarks	ランク
	VD473200	Photo Coupler	6N137	フォトカブラ	05
	IA101580	Transistor	2SA1015 O,Y	トランジスタ	01
	IC181580	Transistor	2SC1815 Y,GR	トランジスタ	01
	VD488500	Digital Trnsistor	DTC143XS	デジタルトランジスタ	03
	VJ041400	Transistor Array	TD62381P	トランジスタアレイ	04
	IF003450	Diode	1SS133	ダイオード	01
	VE331200	Resistor Array	RG1.D8X472J	抵抗アレイ	01
	UJ828470	Electrolytic Cap.	470 μ 10V	電解コン	01
	VD843800	Ceramic Cap.	10000P 18V N	円筒セラ (Y)	01
	VI307100	Monolithic Cera. Cap.	0.1 μ 50V Z	積層セラコン	01
	FZ006970	EMI Filter	LS MT Y223NB	L C フィルター E M I	22000P
	VJ041100	Ceramic Resonator	CSB	セラミック共振子	1.2288MHz
	VA070900	Quartz Crystal Unit		水晶共振動子	32.768KHz
	VE804600	Quartz Crystal Unit	AT-51	水晶共振動子	16MHz
	VF939500	Quartz Crystal Unit	EXO-3C	水晶共振動子	24MHz
	VJ040900	Quartz Crystal Unit	AT-49	水晶共振動子	10.752MHz
	VF913300	Lithium Battery	CR2450-HE4	リチウム電池	05
*	VK152400	Circuit Board	CRA	C R A シート	22
	FZ007050	EMI Filter	MT-B271KB	L C フィルター E M I	01
	VI443700	XLB Connector	XLB-3-31PCV-W09	キャノンコネクタ	07
	VI474400	Terminal Plate		ターミナル金具	1pc.
	VI579500	Holder, XLB Connector		キャノン金具	6pcs
*	VK152100	Circuit Board	CRC	C R C シート	44
	XH595A00	IC	897021	I C	RS422 IN
	XH596A00	IC	897022	I C	RS422 OUT
	IR024450	IC	SN74HC244	I C	BUS-BUFFER
	XC570001	IC	AM26LS31PC	I C	LINE DRIVER
	XC571001	IC	AM26LS32PC	I C	LINE RECEIVER
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン	01
	FZ006920	EMI Filter	LS MT B271KB	L C フィルター E M I	270P
	FZ006970	EMI Filter	LS MT Y223NB	L C フィルター E M I	22000P
	VL181700	D-SUB Connector	DBLC-J25SAF 25P	D - S U B コネクタ	INPUT CHANNEL
*	VK152200	Circuit Board	CRD	C R D シート	26
	XH596A00	IC	897022	I C	RS422 OUT
	IR024450	IC	SN74HC244	I C	BUS-BUFFER
	XC571001	IC	AM26LS32PC	I C	LINE RECEIVER
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン	01
	FZ006920	EMI Filter	LS MT B271KB	L C フィルター E M I	270P
	FZ006970	EMI Filter	LS MT Y223NB	L C フィルター E M I	22000P
	VI443700	XLB Connector	XLB-3-31PCV-W09	キャノンコネクタ	AES/EBU 1/2-7/8
	VI474400	Terminal Plate		ターミナル金具	1pc.
	VI579500	Holder, XLB Connector		キャノン金具	4pcs
*	VK152600	Circuit Board	CRE	C R E シート	45
	XH595A00	IC	897021	I C	RS422 IN
	XH596A00	IC	897022	I C	RS422 OUT
	IR024450	IC	SN74HC244	I C	BUS-BUFFER
	XC570001	IC	AM26LS31PC	I C	LINE DRIVER
	XC571001	IC	AM26LS32PC	I C	LINE RECEIVER
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン	01
	FZ006920	EMI Filter	LS MT B271KB	L C フィルター E M I	270P
	FZ006970	EMI Filter	LS MT Y223NB	L C フィルター E M I	22000P
	VL181700	D-SUB Connector	DBLC-J25SAF 25P	D - S U B コネクタ	MONITOR CHANNEL
*	VK152300	Circuit Board	CRF	C R F シート	36
	XH595A00	IC	897021	I C	RS422 IN
	XH596A00	IC	897022	I C	RS422 OUT
	IR024450	IC	SN74HC244	I C	BUS-BUFFER
	XC570001	IC	AM26LS31PC	I C	LINE DRIVER
	XC571001	IC	AM26LS32PC	I C	LINE RECEIVER
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン	01
	FZ006920	EMI Filter	LS MT B271KB	L C フィルター E M I	270P
	FZ006970	EMI Filter	LS MT Y223NB	L C フィルター E M I	22000P
	LB605820	DIN Jack	8P TCS4880-01	D I N ジャック	ST INPUT A-C
	VL181700	D-SUB Connector	DBLC-J25SAF 25P	D - S U B コネクタ	ST INPUT A-C
	VD258900	Holder, DIN Socket		D I N ソケットホルダ	3pcs
*	VK152500	Circuit Board	CRG	C R G シート	25
	XH595A00	IC	897021	I C	RS422 IN
	IG142250	IC	SN74HC04N	I C	INVERTER
	IR024450	IC	SN74HC244	I C	BUS-BUFFER
	XC571001	IC	AM26LS32PC	I C	LINE RECEIVER
	XE737A00	IC	SN75124N	I C	LINE RECEIVER
	IF003450	Diode	1SS133	ダイオード	01
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン	01
	VF611200	Monolithic Cera. Cap.	0.1 μ 50V K	積層セラコン	02

Ref. No.	Part No.	Description	部品名	Remarks	ランク	
	FZ006920	EMI Filter	LS MT B271KB	LC フィルター EMI	270P	01
	FZ006970	EMI Filter	LS MT Y223NB	LC フィルター EMI	22000P	02
	LB605820	DIN Jack	8P TCS4680-01	DIN ジャック	2TR MONITOR IN.	03
	VE752000	Pin Jack	1P YKB11-0500	ピンジャック	CD/DAT1,2	03
	VI552200	BNC Connector	1P YKS11-0011	BNC コネクタ	L.R. SYNC	05
	VI443700	XLB Connector	XLB-3-31PCV-M09	キャノンコネクタ	AES/EBU	07
	VD258900	Holder, DIN Socket		DIN ソケットホルダ	1pc.	02
	VI579500	Holder, XLB Connector		キャノン金具	1pc.	03
*	VK152700	Circuit Board	CRH	CRH シート		31
	XH595A00	IC	897021	IC	RS422 IN	05
	XH596A00	IC	897022	IC	RS422 OUT	05
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	XC570001	IC	AN26LS31PC	IC	LINE DRIVER	05
	XC571001	IC	AN26LS32PC	IC	LINE RECEIVER	05
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	FZ006920	EMI Filter	LS MT B271KB	LC フィルター EMI	270P	01
	FZ006970	EMI Filter	LS MT Y223NB	LC フィルター EMI	22000P	02
	VI579600	XLB Connector	XLB-3-32PCV	キャノンコネクタ	BUS OUT, AES/EBU	06
	VL181700	D-SUB Connector	DBLC-J25SAF 25P	D-SUB コネクタ	BUS OUT 1-8	06
	VI474400	Terminal Plate		ターミナル金具	1pc.	01
	VI579500	Holder, XLB Connector		キャノン金具	4pcs	03
*	VK152800	Circuit Board	CRI	CRI シート		27
	XH596A00	IC	897022	IC	RS422 OUT	05
	IG142250	IC	SN74HCU04N	IC	INVERTER	01
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	XC570001	IC	AN26LS31PC	IC	LINE DRIVER	05
	XE683A00	IC	SN75121	IC	LINE DRIVER	05
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	VS448200	Pulse Transformer	TC-1019-06 7mm	バルストランス	100 μ	04
	FZ006920	EMI Filter	LS MT B271KB	LC フィルター EMI	270P	01
	FZ006970	EMI Filter	LS MT Y223NB	LC フィルター EMI	22000P	02
	LB605820	DIN Jack	8P TCS4680-01	DIN ジャック	STEREO OUT	03
	VE752000	Pin Jack	1P YKB11-0500	ピンジャック	SDIF2, CD/DAT	03
	VI552200	BNC Connector	1P YKS11-0011	BNC コネクタ	SDIF2 L,R	05
	VI579600	XLB Connector	XLB-3-32PCV	キャノンコネクタ	ST OUT AES/EBU	06
	VD258900	Holder, DIN Socket		DIN ソケットホルダ		02
	VI579500	Holder, XLB Connector		キャノン金具		03
*	VK152900	Circuit Board	CRJ	CRJ シート		27
	XH595A00	IC	897021	IC	RS422 IN	05
	XH596A00	IC	897022	IC	RS422 OUT	05
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	XC570001	IC	AN26LS31PC	IC	LINE DRIVER	05
	XC571001	IC	AN26LS32PC	IC	LINE RECEIVER	05
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	FZ006920	EMI Filter	LS MT B271KB	LC フィルター EMI	270P	01
	FZ006970	EMI Filter	LS MT Y223NB	LC フィルター EMI	22000P	02
	LB605820	DIN Jack	8P TCS4680-01	DIN ジャック	ST IN, AUX SEND	03
	VD258900	Holder, DIN Socket		DIN ソケットホルダ	5pcs	02
	VI474400	Terminal Plate		ターミナル金具	1pc.	01
*	VK153300	Circuit Board	CRK	CRK シート		34
	XH595A00	IC	897021	IC	RS422 IN	05
	XH596A00	IC	897022	IC	RS422 OUT	05
	IR000450	IC	SN74HCU04N	IC	INVERTER	03
	IR000850	IC	SN74HC08N	IC	AND	03
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	XC570001	IC	AN26LS31PC	IC	LINE DRIVER	05
	XC571001	IC	AN26LS32PC	IC	LINE RECEIVER	05
	IA101580	Transistor	2SA1015 O.Y	トランジスタ		01
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	FZ006920	EMI Filter	LS MT B271KB	LC フィルター EMI	270P	01
	FZ006970	EMI Filter	LS MT Y223NB	LC フィルター EMI	22000P	02
	LB605820	DIN Jack	8P TCS4680-01	DIN ジャック	C-R MONITOR OUT	03
	VL181700	D-SUB Connector	DBLC-J25SAF 25P	D-SUB コネクタ	25P CASCADE I/O	06
	VI579600	XLB Connector	XLB-3-32PCV	キャノンコネクタ	C-R MONI. AES/EB	06
	VD258900	Holder, DIN Socket		DIN ソケットホルダ	1pc.	02
	VI579500	Holder, XLB Connector		キャノン金具	1pc.	03
*	VK153600	Circuit Board	CRL	CRL シート		30
	XH595A00	IC	897021	IC	RS422 IN	05
	XH596A00	IC	897022	IC	RS422 OUT	05
	IR012300	IC	TC74HC123AP	IC	MONO-FF	04
	IR012550	IC	SN74HC125N	IC	3S-BUFFER	03
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	XC570001	IC	AN26LS31PC	IC	LINE DRIVER	05
	XC571001	IC	AN26LS32PC	IC	LINE RECEIVER	05

Ref. No.	Part No.	Description	部品名	Remarks	ランク	
	XE683A00	IC	SN75121	IC	LINE DRIVER	05
	XE737A00	IC	SN75124H	IC	LINE RECEIVER	05
	IF003450	Diode	1SS133	ダイオード		01
	VC604800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	FZ006920	EMI Filter	LS MT B271KB	LCフィルタ EMI	270P	01
	FZ006970	EMI Filter	LS MT Y223NB	LCフィルタ EMI	22000P	02
	VI552200	BNC Connector	YKS11-0011 1P	BNCコネクタ	WORD CLK IN,OUT	05
	VI443700	XLB Connector	XLB-3-31PCV-M09	キャノンコネクタ	WORD CLK OUT	07
	VI579800	XLB Connector	XLB-3-32PCV	キャノンコネクタ	WORD CLK IN	08
	VL184200	D-SUB Connector	DELC-J9SAF 9P	D-SUBコネクタ	REMOTE	05
	VI579500	Holder, XLB Connector		キャノン金具	4pcs	03
*	VK153500	Circuit Board	CRH	CRMシート		20
	VK207800	Variable Resistor	B100K EVU-E2A	ロータリボリューム	LCD CONTRAST	02
	VE650000	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	VB971100	Coil	FL5R2000N 20 μ	コイル		01
	FZ005920	EMI Filter	LS MT Y223NB	LCフィルタ EMI	22000P	02
	LB500590	DIN Jack	5P TCS4650-01	DINジャック	MIDI THR-MTC IN	02
	VD258900	Holder, DIN Socket		DINソケットホルダ	2pcs	02
	VI474400	Terminal Plate		ターミナル金具	1pc.	01
*	VK151300	Circuit Board	DSP	DSPシート		91
	IR000450	IC	SN74HC04N	IC	INVERTER	03
	IR000850	IC	SN74HC08N	IC	AND	03
	IR003050	IC	SN74HC30N	IC	NAND	02
	IR003250	IC	SN74HC32N	IC	OR	03
	IR024050	IC	SN74HC240N	IC	BUS-BUFFER	04
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	IR028300	IC	TC74HC283AP	IC	FULL-ADDER	05
	IR037450	IC	SN74HC374N	IC	D-FF	08
	XD285A00	IC	MB81484-12PSZ	IC	DRAW 256K	08
	IT380700	IC	YM3807	IC	MOD	15
	XE788A00	IC	YM6104	IC	DEQ2	11
	XF164A00	IC	YM6007	IC	DSP2	18
	XH494A00	IC	YM6087	IC	PSC4	10
	VE445200	Resistor Array	RGLD8X103J	抵抗アレイ		01
	UJ828470	Electrolytic Cap.	470 μ 10V	ケミコン		01
	--	Chip Cera. Cap.	F 0.01 μ 50V Z	チップ積層セラコン		
*	VL686700	Circuit Board	DTB	DTBシート	J	26
*	VL686900	Circuit Board	DTB	DTBシート	U,C	27
*	VL687100	Circuit Board	DTB	DTBシート	H,B	26
	VB482000	Diode	11ES4	ダイオード		01
	UJ748470	Electrolytic Cap.	470 μ 25V	ケミコン		01
	FZ005920	EMI Filter	LS MT Y223NB	LCフィルタ EMI	22000P	02
	KB000380	Fuse	T 4.00A J 250V	ヒューズ	J (6pcs)	01
	KB000400	Fuse	T 5.00A J 250V	ヒューズ	J (1pc.)	01
	VB245200	Fuse	T 3.15A U 250V	ヒューズ	U,C (6pcs)	07
	KB002590	Fuse	T 5.00A U 250V	ヒューズ	U,C (1pc.)	02
	KB000760	Fuse	T 3.15A S 250V	ヒューズ	H,B (6pcs)	02
	KB000780	Fuse	T 5.00A S 250V	ヒューズ	H,B (1pc.)	02
	LB201530	Fuse Holder	PC-FH1	ヒューズホルダー		01
*	VK154400	Circuit Board	FPC	FPCシート		17
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	IF003450	Diode	1SS133	ダイオード		01
	VA262300	LED	LN242RP RE	LED		01
	VE659000	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	KA907030	Push Switch	SKNHAL	プッシュスイッチ	MEMO.PARA.SCRO.	01
*	NX810190	Circuit Board	FPE1/3	FPE1/3シート		
*	NX810200	Circuit Board	FPE2/3	FPE2/3シート		
*	NX810210	Circuit Board	FPE3/3	FPE3/3シート		
	IR001450	IC	SN74HC14N	IC	INVERTER	05
	IF003170	LED	LN221RP RE	LED		02
	FG413150	Ceramic Cap.	1500P 50V K	セラコンB		01
	VE659000	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	VK700800	Push Switch	SKHOAC	プッシュスイッチ	TALK BACK	01
	VL236800	Rotary Encoder	EC16B40B	16形エンコーダー	DATA ENTRY	06
*	VK153700	Circuit Board	HP	HPシート		15
	XE803A00	IC	NJM4556DD	IC	OP AMP.	03
	IA101530	Transistor	2SA1015 GR	トランジスタ		01
	IC181530	Transistor	2SC1815 GR	トランジスタ		01
	IF003450	Diode	1SS133	ダイオード		01
	IH000240	Diode	1S1885	ダイオード		01
	IF005860	Zener Diode	RD27EB3 27V	ツェナーダイオード		01
	VC731800	Metal Oxide Film Resistor	150 Ω 1W J	酸化金属膜抵抗		01
*	VK963800	Variable Resistor	RK16312A	二連ロータリVR	ATOK X2 LEVEL	04

Ref. No.	Part No.	Description		部品名	Remarks	ランク
	VE859000	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	VB971100	Coil	FL5R2000N 20 μ	コイル		01
	FZ005920	EMI Filter	LS MT Y223NB	LCフィルター EMI	22000P	02
	LB301080	Phone Jack	STEREO HLJ0259	ホーンジャック	PHONES	04
	VD613500	Relay	DC AG 8023	ホリレー		06
	VI474400	Terminal Plate		ターミナル金具	1pc.	01
*	VK707700	Circuit Board	IN1/2	IN 1/2シート		66
*	VK707800	Circuit Board	IN2/2	IN 2/2シート		69
	IG157200	IC	AN78L05	IC	+5V REGULATOR	03
	IR000450	IC	SN74HC04N	IC	INVERTER	03
	IR000850	IC	SN74HC08N	IC	AND	03
	IR003250	IC	SN74HC32N	IC	OR	03
	IR007450	IC	SN74HC74N	IC	D-FF	04
	IR012300	IC	TC74HC123AP	IC	MONO-FF	04
	IR012550	IC	SN74HC125N	IC	3S-BUFFER	03
	IR013850	IC	SN74HC138N	IC	DECODER 3-8	05
	IR013950	IC	SN74HC139N	IC	DECODER 2-4	05
	IR016350	IC	SN74HC163N	IC	COUNTER	03
	IR016450	IC	SN74HC164N	IC	SHIFT REGISTER	05
	IR024450	IC	SN74HC244	IC	BUS-BUFF	07
	IR027350	IC	SN74HC273N	IC	D-FF OCTAL	05
	XE800A00	IC	YM6035	IC	PSC2	11
	XG948C00	IC	YM3436BG	IC	DIR2	
	XH494A00	IC	YM6067	IC	PSC4	10
	XH888A00	IC	YHAB04	IC	BIT SHIFT	11
	IC181580	Transistor	2SC1815 Y,GR	トランジスタ		01
	IF003450	Diode	1SS133	ダイオード		01
	UJ838470	Electrolytic Cap.	470 μ 16V	ケミコン		01
	FZ004100	Semiconductive Cera. Cap.	0.1 μ 18V K	半導体セラコン		01
	VJ786300	Monolithic Cera. Cap.	0.22 μ 50V Z	積層セラコン		01
	VD534400	Monolithic Cera. Cap.	1.5 μ 25V Z	積層セラコン		01
	FZ006970	EMI Filter	LS MT Y223NB	LCフィルター EMI	22000P	02
	VJ798800	Chip Cera. Cap.	F 0.1 μ 25V Z	チップ積層セラコン		01
	VK153800	Circuit Board	MBD	M B D シート		54
	UJ748470	Electrolytic Cap.	470 μ 25V	ケミコン		01
	FZ005920	EMI Filter	LS MT Y223NB	LCフィルター EMI	22000P	02
	VK244800	Circuit Board	MDR	M D R シート		20
	IG153500	IC	BA6218	IC	MOTOR DRIVER	04
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	VL099900	Metal Oxide Film Resistor	10 Ω 3W J	酸化金属被膜抵抗		01
	UJ728470	Electrolytic Cap.	470 μ 10V	ケミコン		01
	UJ758330	Electrolytic Cap.	330 μ 35V	ケミコン		01
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	NX810180	Circuit Board	NML	N M L シート		
	IF003170	LED	LN221RP RE	L E D	FADER Indicator	02
	VK707900	Circuit Board	OUT1/2	O U T 1/2シート		74
	VK708000	Circuit Board	OUT2/2	O U T 2/2シート		74
	IR000450	IC	SN74HC04N	IC	INVERTER	03
	IR000850	IC	SN74HC08N	IC	AND	03
	IR003250	IC	SN74HC32N	IC	OR	03
	IR007450	IC	SN74HC74N	IC	D-FF	04
	IR012550	IC	SN74HC125N	IC	3S-BUFFER	03
	IR013850	IC	SN74HC138N	IC	DECODER 3-8	05
	IR013950	IC	SN74HC139N	IC	DECODER 2-4	05
	IR015350	IC	SN74HC153N	IC	4-1 SELECTOR	03
	IR015750	IC	SN74HC157N	IC	DATA-SELECTOR	02
	IR024450	IC	SN74HC244	IC	BUS-BUFFER	07
	IR027350	IC	SN74HC273N	IC	D-FF OCTAL	05
	XE800A00	IC	YM6035	IC	PSC2	11
	XG949A00	IC	YM3437	IC	DIT2	05
	XH494A00	IC	YM6067	IC	PSC4	10
	XH888A00	IC	YHAB04	IC	BIT SHIFT	11
	FZ006970	EMI Filter	LS MT Y223NB	LCフィルター EMI	22000P	02
	VK500200	Slide Switch	SSS213	スライドスイッチ	4pcs	01
	--	Chip Cera. Cap.	F 0.01 μ 50V Z	チップ積層セラコン		
	VK154000	Circuit Board	PM	P M シート		41
	IF009570	LED	LD-201VR	面発光LED	ST IN-AUX	02
	VF521500	LED Display	SX-25-S	LEDディスプレイ	Level indicator	05
	VJ155200	LED Display	SX-25AF	LEDディスプレイ	Level indicator	06
	VK423500	LED Spacer	LD-201	LEDスペーサー	3pcs	04
	VK151400	Circuit Board	PHD	P M D シート		51
	IG116200	IC	PST518B-2	IC	SYSTEM RESET	04

Ref. No.	Part No.	Description	部品名	Remarks	ランク	
	IG142250	IC	SN74HC04N	I C	INVERTER	01
	IR000850	IC	SN74HC08N	I C C	AND	03
	IR001450	IC	SN74HC14N	I C C	INVERTER	05
	IR003250	IC	SN74HC32N	I C C	OR	03
	IR013950	IC	SN74HC139N	I C C	DECODER 2-4	05
	IR024450	IC	SN74HC244	I C C	BUS-BUFFER	07
	IR027350	IC	SN74HC273N	I C C	D-FF OCTAL	05
	IR037350	IC	SN74HC373N	I C C	D-LATCH	05
	IG093500	IC	HD6303R1P	I C C	CPU 8bit	16
	XI561D00	IC	TMS27C128-20JL	I C C	EP ROM (METER)	
	XE798A00	IC	YM3934	I C	PMW2	12
	IC094530	Transistor	2SC945A PA	トランジスタ		01
	VF519600	Transistor Array	TD62703P	トランジスタアレイ		03
	VJ041400	Transistor Array	TD62381P	トランジスタアレイ		04
	XC551001	Transistor Array	TD62781AP	トランジスタアレイ		04
	VE331200	Resistor Array	RGLD8X472J	抵抗アレイ		01
	VE445200	Resistor Array	RGLD8X103J	抵抗アレイ		01
	UJ828470	Electrolytic Cap.	470 μ 10V	ケミコン		01
	VI307100	Monolithic Cera. Cap.	0.1 μ 50V Z	積層セラコン		01
	QU004800	Ceramic Resonator	CSA4.00MT	セラミック振動子	4MHz	03
	VG582600	DA Inverter Transformer	D32-49	D/Aインバータートランス		07
	VK154200	Circuit Board	PMS	PMS シート	L STEREO R	17
	IF004940	LED	LD-101VR RE	L E D		02
	IF007890	LED	LD101MG GR	L E D		02
	VK272300	LED Level Meter	SLA-2851 10P	L E D レベルメーター	GR	05
	VK272400	LED Level Meter	SLA-4651 10P	L E D レベルメーター	YE	05
	VK272500	LED Level Meter	SLA5651-14	L E D レベルメーター	YE(6)+GR(4)	07
	VK151500	Circuit Board	PND	PND シート		55
	IG044500	IC	HD74LS240P	I C	BUFFER	08
	IR000450	IC	SN74HC04N	I C C	INVERTER	03
	IR000850	IC	SN74HC08N	I C C	AND	03
	IR001450	IC	SN74HC14N	I C C	INVERTER	05
	IR013850	IC	SN74HC138N	I C C	DECODER 3-8	05
	IR013950	IC	SN74HC139N	I C C	DECODER 2-4	05
	IR015400	IC	TC74HC154AP	I C C	DECODER 4-16	04
	IR024450	IC	SN74HC244	I C C	BUS-BUFFER	07
	IR024550	IC	SN74HC245N	I C C	TRANSCEIVER	06
	XC519001	IC	μ PD8279C-2	I C	CPU	07
	VJ041500	Transistor Array	TD62786AP	トランジスタアレイ		04
	VE331200	Resistor Array	RGLD8X472J	抵抗アレイ		01
	UJ828470	Electrolytic Cap.	470 μ 10V	ケミコン		01
	VI307100	Monolithic Cera. Cap.	0.1 μ 50V Z	積層セラコン		01
	VK154600	Circuit Board	PNL	PNL シート		79
	IR024450	IC	SN74HC244	I C C	BUS-BUFFER	07
	IF003450	Diode	1SS133	ダイオード		01
	VI307100	Monolithic Cera. Cap.	0.1 μ 50V Z	積層セラコン		01
	VK700800	Push Switch	SKHQAC	プッシュスイッチ	18pcs	01
	VK700900	Push Switch	SKHQFN AMBER	プッシュスイッチ	74pcs	02
	VK701000	Push Switch	SKHQFN OR	プッシュスイッチ	67pcs	02
	VK701100	Push Switch	SKHQFN GR	プッシュスイッチ	130pcs	02
	VK251100	LED Display	SX-25AE	L E D ディスプレイ	LEVEL indicator	05
	VK240500	LED Display	18P RE LT4143A	L E D ディスプレイ	PAN indicator	08
	VL659700	LED Spacer	8 points	L E D スペース	9pcs	
	VK154700	Circuit Board	PNR	PNR シート		60
	IF003450	Diode	1SS133	ダイオード		01
	VK700800	Push Switch	SKHQAC	プッシュスイッチ	10pcs	01
	VK700900	Push Switch	SKHQFN AMBER	プッシュスイッチ	14pcs	02
	VK701000	Push Switch	SKHQFN OR	プッシュスイッチ	18pcs	02
	VK701100	Push Switch	SKHQFN GR	プッシュスイッチ	27pcs	02
	VK240500	LED Display	18P RE LT4143A	L E D ディスプレイ	PAD-LEVEL	08
	VK325900	LED Display	14RE2YE LT4143B	L E D ディスプレイ	L/R-GAIN HIGH	08
	VK154800	Circuit Board	REL	REL シート		59
	IR001450	IC	SN74HC14N	I C C	INVERTER	05
	IR013850	IC	SN74HC138N	I C C	DECODER 3-8	05
	IR024450	IC	SN74HC244	I C C	BUS-BUFFER	07
	IR024550	IC	SN74HC245N	I C C	TRANSCEIVER	06
	XH887A00	IC	YHAB03	I C	RE COUNTER	12
	UJ828470	Electrolytic Cap.	470 μ 10V	ケミコン		01
	VC694800	Semiconductive Cera. Cap.	0.1 μ 25V Z	半導体セラコン		01
	VK227100	Rotary Encoder	EC16B40B	16形エンコーダー	LEVEL	06
	VK154900	Circuit Board	RER	RER シート		53
	IG001390	IC	RC4558D-V	I C	OP AMP.	03
	IR001450	IC	SN74HC14N	I C C	INVERTER	05

Ref. No.	Part No.	Description		部 品 名	Remarks	ランク
	VK963800	Variable Resistor	RK163122	ロータリーボリューム	A10K TALK LEVEL	04
	VK963700	Variable Resistor	RK163122	ロータリーボリューム	B10K LEVEL	04
	VK963900	Variable Resistor	RK16312B	二連ロタリーVR	A20K×2 LEVEL	04
	UJ828470	Electrolytic Cap.	470μ 10V	ケミコン		01
	VC694800	Semiconductive Cera. Cap.	0.1μ 25V Z	半導体セラコン		01
	FZ006970	EMI Filter	LS MT Y223NB	LCフィルタ EMI	22000P	02
	VK227100	Rotary Encoder	EC16B40B	16形エンコーダー	PAD-GAIN HIGH	06
	JR000270	Microphone	WN-034C	マイクホン	MIC	03
	VK079100	Microphone Cushion		マイククッション		02
	VK079200	Microphone Cover		マイクカバー		02
	VK154100	Circuit Board	SEG	SEGシート		16
	JF009570	LED	LD-201VR3	面発光LED	DF	02
	VK536500	LED Display	GL3P422	LEDディスプレイ	MEMORY	08
	VK536600	LED Display	GL7P220	LEDディスプレイ	TIME CORD	05
	VK448900	XL Connector (multipul)	WA16RN-3PF-A	キャノンコネクタ	AUX SND. MON. 0	11
	VI577100	Floppy Disk Drive Unit	MF353C-152NY	3.5" FDD		27
	VK162000	Power Supply Unit		電源ユニット	J,U,C	82
	VK162100	Power Supply Unit		電源ユニット	H,B	82
	MG000610	AC Cord	J 15A 2.1H	電源コード	J	06
	VD279600	AC Cord	UC 10A 2.5H	電源コード	U,C	08
	VD280600	AC Cord	E 10A 2.5H	電源コード	H	08
	VH890200	AC Cord	B 10A 2.5H	電源コード	B	09
	VL241000	Seesaw Switch	EST-15	シーソースイッチ	POWER SWITCH	07
	VK896200	Fader	AF102A B	フェーダー		45
	VF931200	LCD	DMF5005NYL-EW	液晶ディスプレイ		28
	VK780100	Lamp	1.6W 115mA L600	ランプ 1pc.	~S/# HK*****	05
	VL443900	Lamp	1.6W 115mA L600	ランプ 2pcs	S/# HLO1001~	03
	VK780200	Lamp	1.6W 115mA L300	ランプ 1pc.	~S/# HK*****	05
	VL443900	Lamp	1.6W 115mA L600	ランプ 2pcs	S/# HLO1001~	03
	TX800220	Extension Board Set		延長基板セット		
	TR 548700 + 2D 030056 S/N 1121					

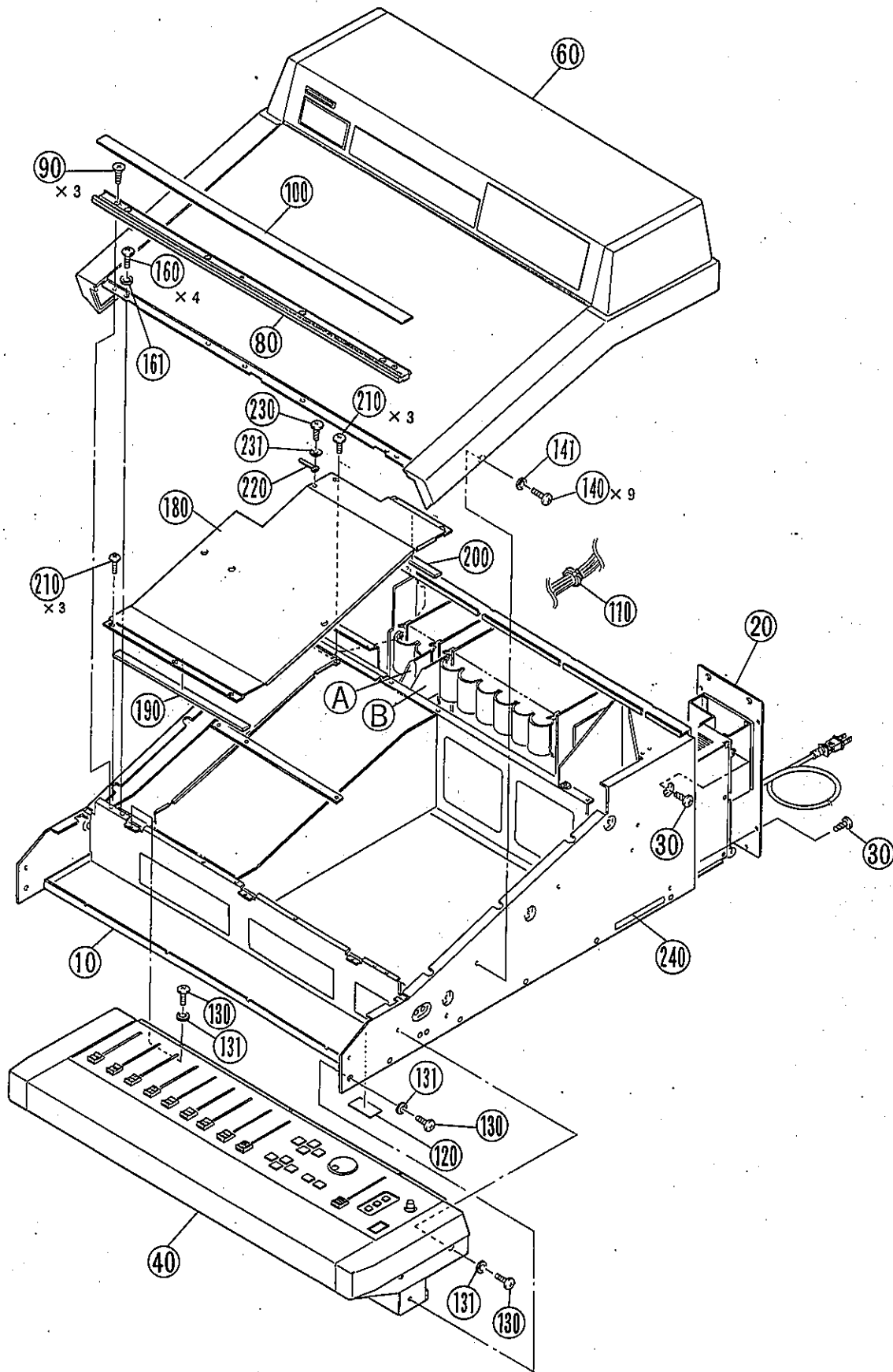
● Power Supply Unit (電源ユニット)

Ref. No.	Part No.	Description	部品名	Remarks	ランク
**	VK162000	<POWER SUPPLY UNIT>	<電源ユニット>	J,U,C	82
**	VK162100	<POWER SUPPLY UNIT>	<電源ユニット>	H,B	82
**	IX801910	Circuit Board, Power Supply IC	電源ユニット		
**	IG063900	IC	IC	REGULATOR	03
**	IG077500	IC	IC	REGULATOR +15V	05
**	IX808110	IC	IC	REGULATOR -15V	05
**	IX805950	IC	IC	REGULATOR	
**	IX805930	Photo Coupler	フォトカプラー	REGULATOR	
**	IX552940	Transistor	トランジスタ		01
**	IX806120	FET	FET	J,U,C	
**	IX806130	FET	FET	H,B	
**	IX806140	Diode	ダイオード		
**	IX806150	Diode	ダイオード		
**	IX806160	Diode	ダイオード		
**	IF001380	Diode	ダイオード		01
**	IX806170	Diode	ダイオード		
**	IX806180	Diode	ダイオード		
**	IX806190	Diode	ダイオード		
**	IX806200	Diode Bridge	ダイオードブリッジ	J,U,C	
**	IX806210	Diode Bridge	ダイオードブリッジ	J,U,C	
**	IX806220	Diode Bridge	ダイオードブリッジ	H,B	
**	IX806230	Diode Bridge	ダイオードブリッジ	H,B	
**	IF002350	Zener Diode	ツェナーダイオード		01
**	IF004240	Zener Diode	ツェナーダイオード		01
**	HX806350	Metal Oxide Film Resistor	酸化金属膜抵抗		01
**	NL825330	Metal Oxide Film Resistor	酸化金属膜抵抗		01
**	NL314820	Metal Oxide Film Resistor	酸化金属膜抵抗		01
**	HX806360	Metal Oxide Film Resistor	酸化金属膜抵抗	J,U,C	
**	NL327680	Metal Oxide Film Resistor	酸化金属膜抵抗	H,B	01
**	HX806370	Metal Oxide Film Resistor	酸化金属膜抵抗		
**	HW552100	Wire Wound Resistor	セメント抵抗	J,U,C	01
**	HX806380	Wire Wound Resistor	セメント抵抗	J,U,C	
**	HX806390	Wire Wound Resistor	セメント抵抗	H,B	
**	HW752220	Wire Wound Resistor	セメント抵抗	H,B	01
**	RT570540	Trimmer Potentiometer	半可変抵抗器		02
**	HX806400	Trimmer Potentiometer	半可変抵抗器	B1K	
**	FX800720	Electrolytic Cap.	電解コンデンサ	B10K	
**	FX800730	Electrolytic Cap.	電解コンデンサ	J,U,C	
**	FZ006880	Electrolytic Cap.	電解コンデンサ	H,B	
**	FZ002720	Electrolytic Cap.	電解コンデンサ		02
**	FJ259220	Electrolytic Cap.	電解コンデンサ		05
**	UJ649220	Electrolytic Cap.	電解コンデンサ	J,U,C	04
**	FZ006510	Electrolytic Cap.	電解コンデンサ	H,B	03
**	FX800740	Ceramic Cap.	セラミックコンデンサ		03
**	FZ002850	Ceramic Cap.	セラミックコンデンサ		02
**	FZ002030	Ceramic Cap.	セラミックコンデンサ	H,B	02
**	FX800750	Ceramic Cap.	セラミックコンデンサ		02
**	VI346100	Mylar Cap.	マイラコンデンサ		02
**	FX800760	Mylar Cap.	マイラコンデンサ		
**	FX800770	Mylar Cap.	マイラコンデンサ	J,U,C	
**	GX803030	Choke Coil	チョークコイル	J,U,C	
**	GX803040	Choke Coil	チョークコイル	H,B	
**	GX803050	Choke Coil	チョークコイル	J,U,C	
**	GX802800	Choke Coil	チョークコイル	H,B	
**	GX803060	Choke Coil	チョークコイル	J,U,C	
**	GX803070	Choke Coil	チョークコイル	H,B	
**	GX803080	Choke Coil	チョークコイル		
**	KX803030	Fuse	ヒューズ	J,U,C	
**	KX803040	Fuse	ヒューズ	H,B	
**	KX802770	Fuse	ヒューズ	J,U,C	
**	BX800570	Ferrite Bead	フェライトビーズ	J,U,C	
**	IX806240	Thyristor	サイリスタ	J,U,C	
**	IX806250	Thyristor	サイリスタ	H,B	
**	IX806260	Thyristor	サイリスタ		
**	GX803090	Power Transformer	電源トランス	J,U,C	
**	GX803100	Power Transformer	電源トランス	H,B	
**	GX803110	Power Transformer	電源トランス	J,U,C	
**	GX803120	Power Transformer	電源トランス	H,B	
**	LR201530	Fuse Holder	ヒューズホルダー		01
**	ED040086	Screw	取付けネジ		
**	ED340106	Bind Head Screw	バインドヘッドネジ	4pcs	01
**	ED040106	Bind Head Screw	バインドヘッドネジ	4pcs	01
**	EA030086	Pan Head Screw	パンヘッドネジ	12pcs	01
**	EA030086	Pan Head Screw	パンヘッドネジ	19pcs	01
**	EA030106	Pan Head Screw	パンヘッドネジ	4pcs	01
**	EA040166	Pan Head Screw	パンヘッドネジ	1pc.	01

* : New Parts (新規部品) NR

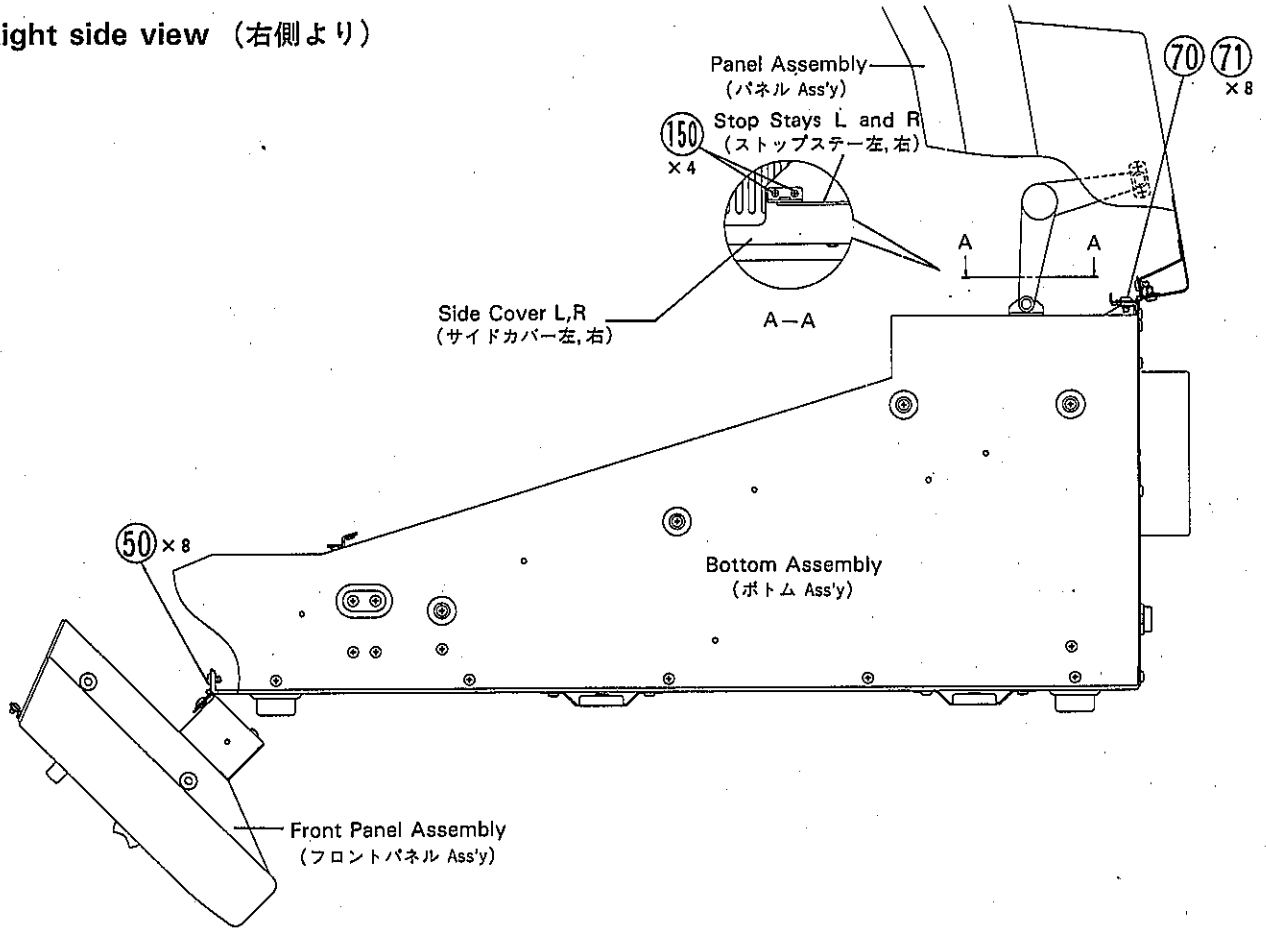
ランク : Japan Only

OVERALL ASSEMBLY (総組立)



OVERALL ASSEMBLY (総組立)

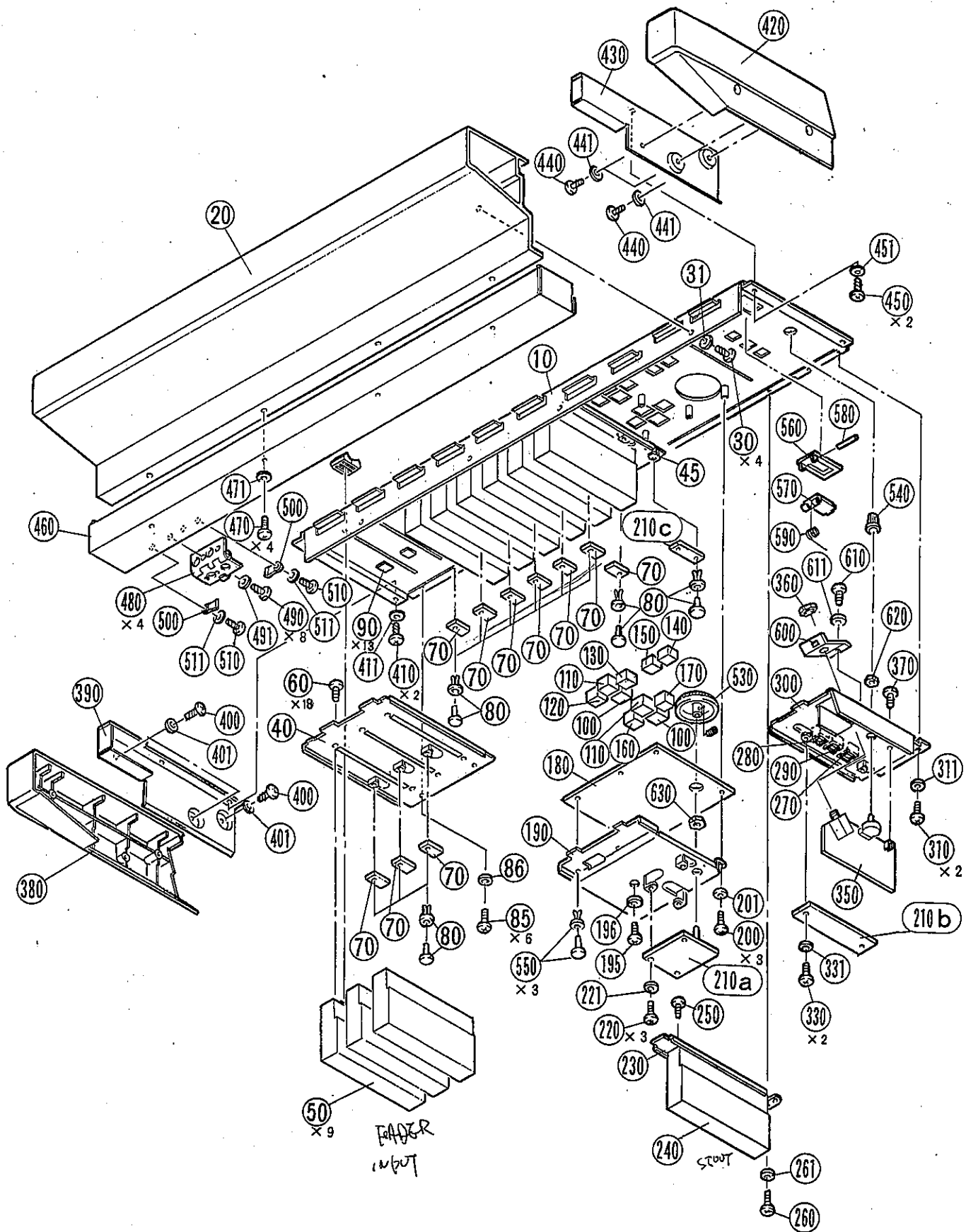
● Right side view (右側より)



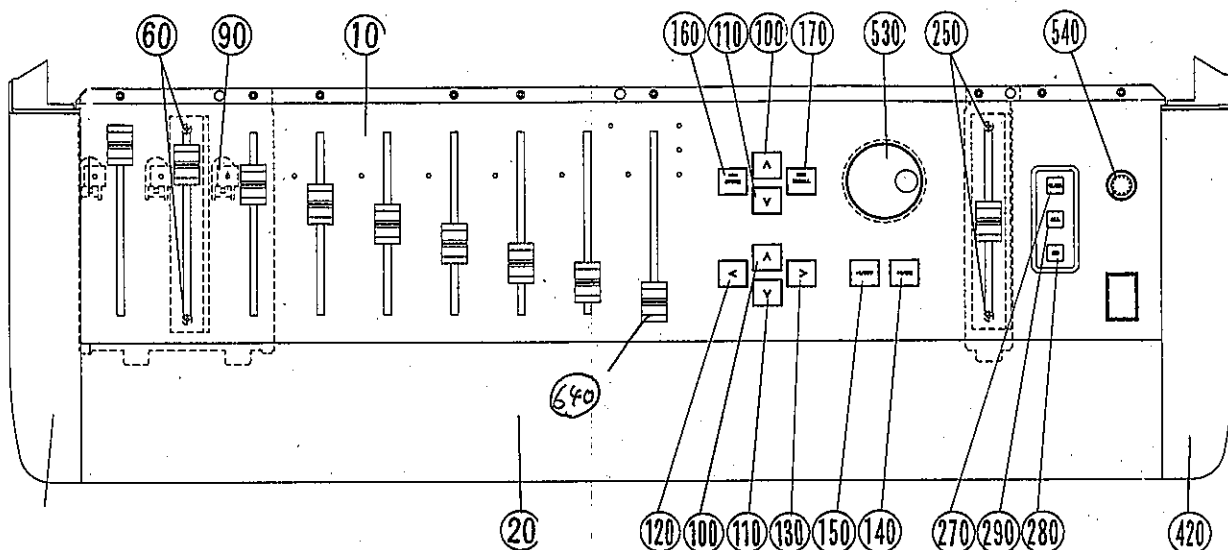
Ref. No.	Part No.	Description	部品名	Remarks	ランク
		<OVERALL ASSEMBLY>	<総組立>		
10	--	Bottom Assembly	ボトム Ass'y		
20	--	Power Supply Assembly	電源 Ass'y		
30	VK480800	Bonding Head Tapping Screw	4.0X8 FCH3BL	ボンディングヘッドタップネジ	14pcs 01
40	--	Front Panel Assembly	フロントパネル Ass'y		
50	EI340086	Bind Head Tapping Screw	4.0X8 FCH3BL	ハインドヘッドタップネジ	8pcs 01
51	EV413046	Toothed Lock Washer	A 4.0 FCH3BL	歯付座金内歯形	8pcs 01
60	--	Panel Assembly	パネル Ass'y		
70	EI340086	Bind Head Tapping Screw	4.0X8 FCH3BL	ハインドヘッドタップネジ	8pcs 01
71	EV413046	Toothed Lock Washer	A 4.0 FCH3BL	歯付座金内歯形	8pcs 01
80	VK067900	Sash		表示サッシ	13
90	EB340126	Flat Head Screw	4.0X12 FCH3BL	皿小ネジ	3pcs 01
100	VK485200	Plate		表示プレート	06
110	CB069250	Cord Tie	BK-1	束線止め	61pcs 01
120	--	Label	L	シラベル	
130	ED340086	Bind Head Screw	4.0X8 FCH3BL	ハインド小ネジ	9pcs 01
131	EV413046	Toothed Lock Washer	A 4.0 FCH3BL	歯付座金内歯形	9pcs 01
140	ED340086	Bind Head Screw	4.0X8 FCH3BL	ハインド小ネジ	6pcs 01
141	EV413046	Toothed Lock Washer	A 4.0 FCH3BL	歯付座金内歯形	6pcs 01
150	EB330086	Flat Head Screw	3.0X8 FCH3BL	皿小ネジ	4pcs 01
160	ED340086	Bind Head Screw	4.0X8 FCH3BL	ハインド小ネジ	4pcs 01
161	EV413046	Toothed Lock Washer	A 4.0 FCH3BL	歯付座金内歯形	4pcs 01
180	VL255100	Protection Plate, Cable		ケーブル保護プレート	14
190	VK074100	Rubber Holder, PCB		基板押えゴム	03
200	VL255200	Rubber Holder, PCB	Small	基板押えゴム (小)	02
210	VD330000	Bonding Head Screw	3.0X8 FCH3BL	ボンディング小ネジ	6pcs 01
220	CB817510	Cord Holder	S-14B	束線止め	1pc. 01
230	EI340086	Bind Head Tapping Screw	4.0X8 FCH3BL	ハインドヘッドタップネジ	1pc. 01
231	EV413046	Toothed Lock Washer	A 4.0 FCH3BL	歯付座金内歯形	1pc. 01
240	--	Caution Label		注意書	11,C
250	--	Cord Holder	SKB-3MC	束線止め	1pc.
A	VL663800	Connector Assembly	HBD → CRC 100P	線材 Ass'y	
B	VL663900	Connector Assembly	HBD → CRF 100P	線材 Ass'y	

* : New Parts (新規部品) NR

FRONT PANEL ASSEMBLY (フロントパネル Ass'y)



● Top View (上方より)

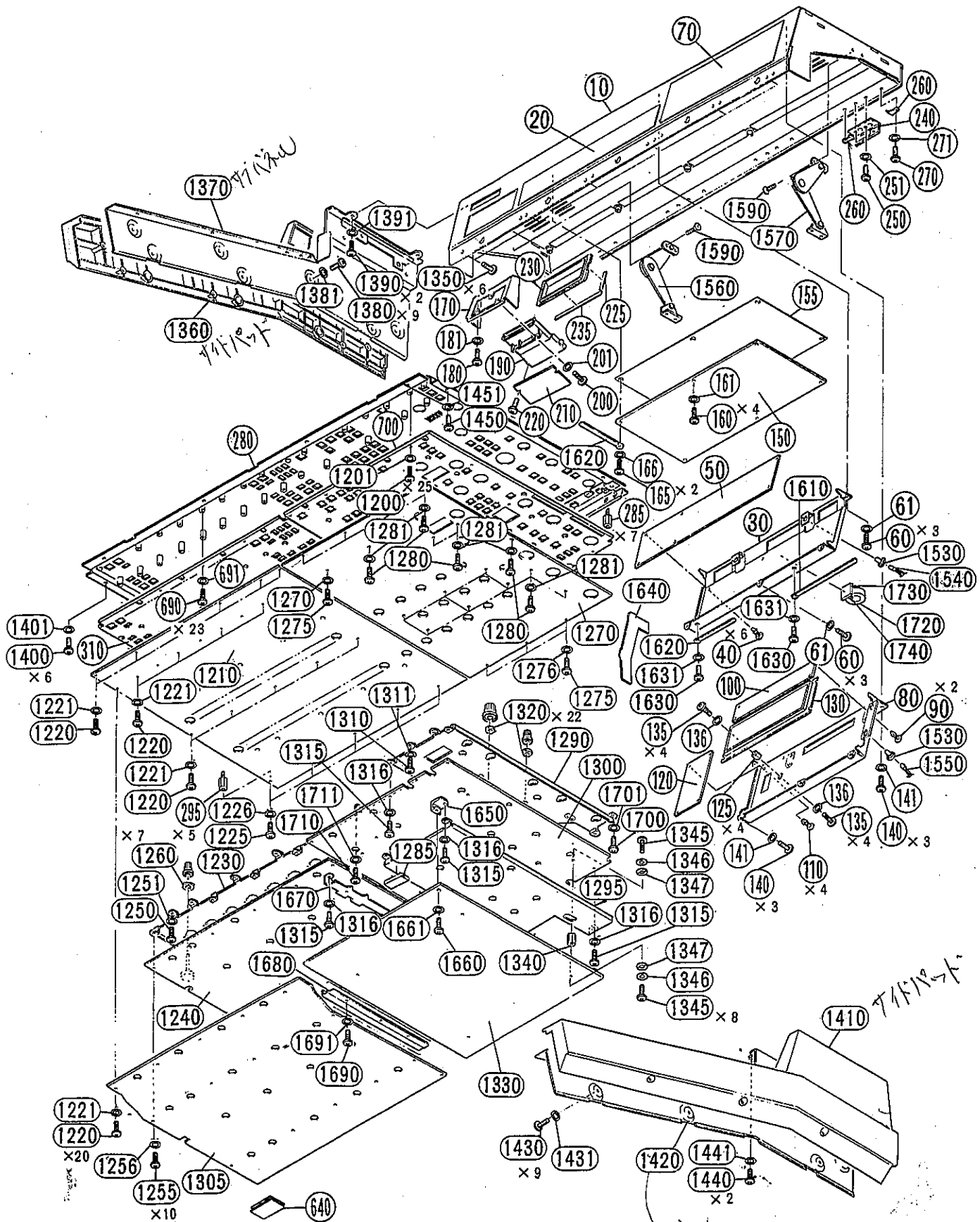


Ref. No.	Part No.	Description	部品名	Remarks	ランク
		<FRONT PANEL ASSEMBLY>	<フロントパネル Ass'y>		
* 10	VK074600	Front Panel	フロントパネル		29
* 20	VK074700	Front Pad	フロントパッド		20
30	EI340086	Bind Head Tapping Screw	ヘッドタップングネジ	4pcs	01
31	EV413046	Toothed Lock Washer	歯付座金内歯形	4pcs	01
* 40	VK074900	Sub Panel, Fader	フェーダサブパネル大	2pcs	11
* 45	VL011500	Sub Panel, Fader	フェーダサブパネル大	1pc.	12
* 50	VK896200	Fader	フェーダー	9pcs	45
60	ED330046	Bind Head Screw	バインド小ネジ	18pcs	01
* 70	NX810180	Circuit Board	NMLシート		
80	CB602970	Plastic Rivet	プラスチッククリベット	12pcs	01
85	ED330066	Bind Head Screw	バインド小ネジ	6pcs	01
86	EV413036	Toothed Lock Washer	歯付座金内歯形	6pcs	01
90	VG230800	Lens, LED	LEDレンズ	13pcs	01
* 100	VK484000	Top Cap Assembly	トップキャップ Ass'y	2pcs	03
* 110	VK484100	Top Cap Assembly	トップキャップ Ass'y	2pcs	03
* 120	VK484200	Top Cap Assembly	トップキャップ Ass'y	1pc.	03
* 130	VK484300	Top Cap Assembly	トップキャップ Ass'y	1pc.	03
* 140	VK484400	Top Cap Assembly	トップキャップ Ass'y	1pc.	03
* 150	VK484500	Top Cap Assembly	トップキャップ Ass'y	1pc.	03
* 160	VK484600	Top Cap Assembly	トップキャップ Ass'y	1pc.	03
* 170	VK484700	Top Cap Assembly	トップキャップ Ass'y	1pc.	03
* 180	VK154400	Circuit Board	FPCシート		17
* 190	VK075100	Sub Panel, FPC	FPCサブパネル		15
* 195	ED330066	Bind Head Screw	バインド小ネジ	1pc.	01
196	EV413036	Toothed Lock Washer	歯付座金内歯形	1pc.	01
200	ED330086	Bind Head Screw	バインド小ネジ	3pcs	01
201	EV413036	Toothed Lock Washer	歯付座金内歯形	3pcs	01
* 210	--	Circuit Board	FPEシート		13
* 210a	NX810190	Circuit Board	FPE 1/3シート		
* 210b	NX810200	Circuit Board	FPE 2/3シート		
* 210c	NX810210	Circuit Board	FPE 3/3シート		
220	ED330086	Bind Head Screw	バインド小ネジ	3pcs	01
221	EV413036	Toothed Lock Washer	歯付座金内歯形	3pcs	01
* 230	VK075300	Sub Panel, Fader	フェーダサブパネル小	1pc.	09
* 240	VK896200	Fader	フェーダー	1pc.	45
250	ED330046	Bind Head Screw	バインド小ネジ	2pcs	01
260	ED330066	Bind Head Screw	バインド小ネジ	1pc.	01
261	EV413036	Toothed Lock Washer	歯付座金内歯形	1pc.	01
* 270	VK488500	Push Button Assembly	プッシュボタン大 Ass'y	1pc.	04
* 280	VL186100	Push Button Assembly	プッシュボタン大 Ass'y	1pc.	04
* 290	VK488700	Push Button Assembly	プッシュボタン大 Ass'y	1pc.	04
* 300	VK075500	Sub Panel, STB/HP	STB/HPサブパネル		14
* 310	ED330066	Bind Head Screw	バインド小ネジ	2pcs.	01

* : New Parts (新規部品) NR

Ref. No.	Part No.	Description		部品名	Remarks	ランク	
	311	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	2pcs	01
	330	ED330066	Bind Head Screw	3.0X6 FCM3BL	バインド小ネジ	2pcs	01
	331	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	2pcs	01
*	350	VK153700	Circuit Board	HP	H P シート		15
	380	VC364900	Hexagonal Nut	φ 9 FCM3BL	特殊六角ナット	1pc.	01
*	370	VK464300	Boding Head Screw	4.0X8 FCM3BL	ボンディング小ネジ	1pc.	01
*	380	VK075800	Side Pad	Left-Small	サイドパッド小(左)		09
*	390	VK076000	Sub Panel	Left-Small	サブパネル小(左)		13
	400	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	3pcs	01
	401	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	8pcs	01
	410	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	2pcs	01
	411	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	2pcs	01
*	420	VK075700	Side Pad	Right-Small	サイドパッド小(右)		09
*	430	VK075900	Sub Panel	Right-Small	サブパネル小(右)		13
	440	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	3pcs	01
	441	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	3pcs	01
	450	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	2pcs	01
	451	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	2pcs	01
*	460	VK076100	Front Cover		フロントカバー		14
	470	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	4pcs	01
	471	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	4pcs	01
*	480	VK503100	Hinge	ZMC2BL	蝶番	4pcs	06
	490	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	8pcs	01
	491	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	8pcs	01
	500	BB807050	Contact		接触子	8pcs	01
	510	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	8pcs	01
	511	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	8pcs	01
*	530	VL183700	Knob, Encoder		エンコーダーツマミ	1pc.	10
	540	VJ706200	Volume Knob		ボリュームツマミ	1pc.	02
	550	CB802970	Plastic Rivet	NO.920	プラスチックリベット	3pcs	01
*	560	VK478500	Escutcheon		エスカッション	PHONES	04
*	570	VK478600	Cover		蓋	PHONES	04
	580	VA294400	Shaft		軸	1pc.	03
	590	VA294300	Spring		スプリング	1pc.	03
*	600	VK483600	Jack Bracket		JACK板		08
	610	ED330066	Bind Head Screw	3.0X6 FCM3BL	バインド小ネジ	1pc.	01
	611	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	1pc.	01
	620	ES200180	Hexagonal Nut	φ 7.0 ZMC2BL	特殊六角ナット	1pc.	01
	630	ES200180	Hexagonal Nut	φ 7.0 ZMC2BL	特殊六角ナット	1pc.	01
	640	AAx25070	Fader Knob		フェダー ツマミ	10pcs	

■ PANEL ASSEMBLY (パネル Ass'y) 1/2

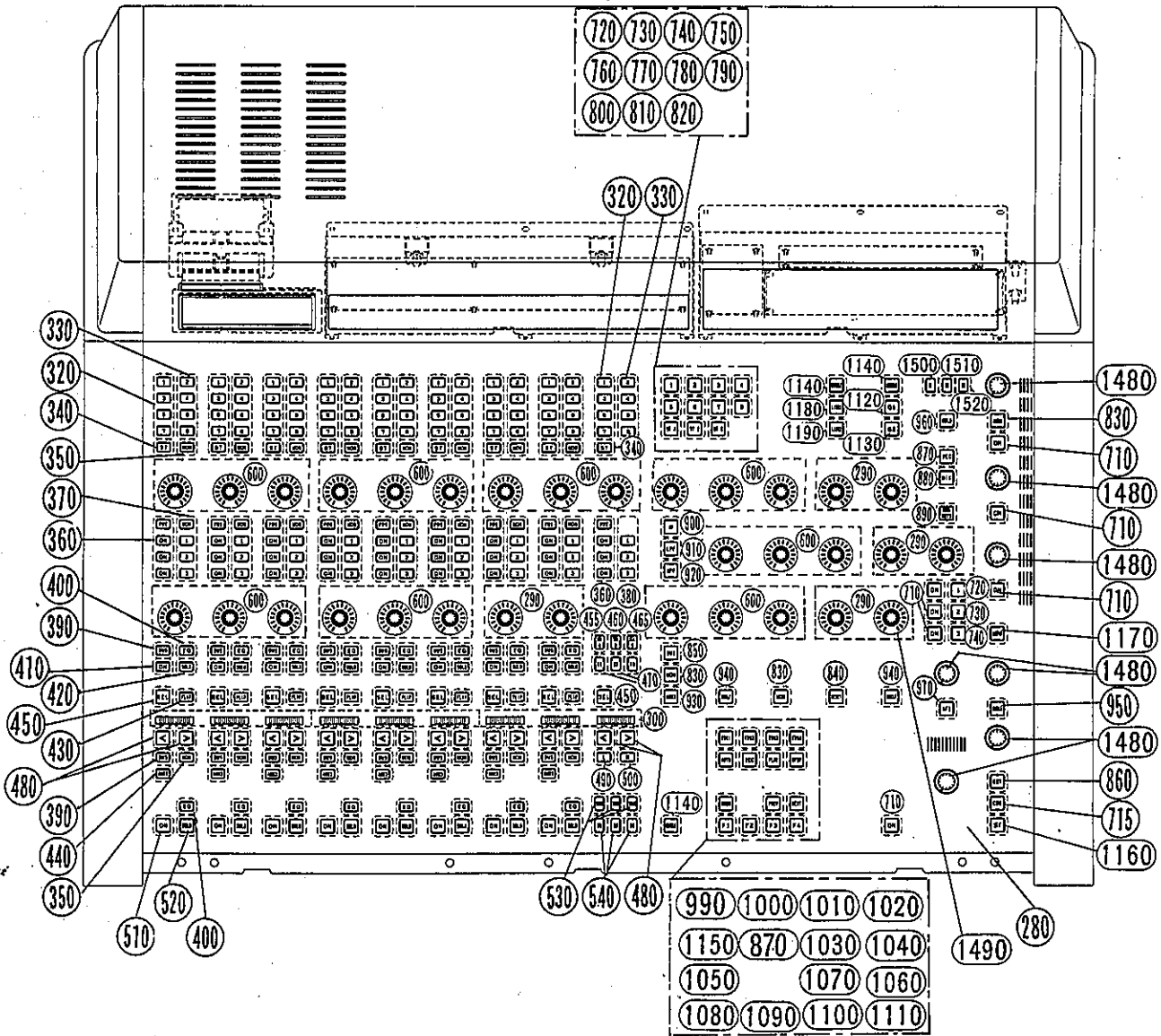


Ref. No.	Part No.	Description	部品名	Remarks	ランク
* 10	VK076200	<PANEL ASSEMBLY> Meter Panel	1/2 <パネル A ss'y 1/2>		40
* 20	VL225000	Meter Cover Assembly	Left		21
* 30	VK076500	Sub Panel, PM	メーターカバー A ss'y		16
* 40	VF474300	Spacer	PMサブパネル	6pcs	01
* 50	VK154000	Circuit Board	KGLS-8RT	ロッキングカートスパーサー	41
* 60	ED330066	Bind Head Screw	PH	PMシート	01
* 81	EV413036	Toothed Lock Washer	3.0X6 FCM3BL	バインド小ネジ	6pcs
* 70	VL225100	Meter Cover Assembly	A 3.0 FCM3BL	歯付座金内歯形	6pcs
* 80	VK076600	Sub Panel, LCD	Right	メーターカバー A ss'y	21
* 90	VF474300	Spacer	KGLS-8RT	LCDサブパネル	17
* 100	VK154100	Circuit Board	SEG	ロッキングカートスパーサー	4pcs
* 110	VF474300	Spacer	KGLS-8RT	SEGシート	01
* 120	VK154200	Circuit Board	PHS	ロッキングカートスパーサー	4pcs
* 125	VL285600	Support	T06B-10 L=10	PMシート	17
* 130	VF931200	LCD	DHF5005NYL-EW	サポート	4pcs
* 135	ED330066	Bind Head Screw	3.0X6 FCM3BL	液晶ディスプレイ	(VK162600)
* 136	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	バインド小ネジ	8pcs
* 140	ED330066	Bind Head Screw	3.0X6 FCM3BL	歯付座金内歯形	8pcs
* 141	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	6pcs
* 150	VK151400	Circuit Board	PMD	PMシート	51
* 155	VL224300	Shield Sheet	PMD BL	絶縁シート	04
* 180	ED330066	Bind Head Screw	3.0X6 FCM3BL	バインド小ネジ	4pcs
* 181	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	4pcs
* 185	ED330066	Bind Head Screw	3.0X6 FCM3BL	歯付座金内歯形	2pcs
* 166	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	2pcs
* 170	VK076700	Sub Panel, CD	3.0X6 FCM3BL	CDサブパネル	12
* 180	ED330066	Bind Head Screw	A 3.0 FCM3BL	バインド小ネジ	2pcs
* 181	EV413036	Toothed Lock Washer	3.0X6 FCM3BL	歯付座金内歯形	2pcs
* 190	VK092400	Escutcheon, CD	CD	CDエスカッション	04
* 200	ED330066	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	3pcs
* 201	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	3pcs
* 210	VK155000	Circuit Board	CA	CAシート	10
* 220	EP600730	Bind Head Tapping Screw-P	3.0X8 FCM3BL	ナパイルドPタイト	2pcs
* 225	VL278400	Felt	Small	フェルト(小)	2pcs
* 230	VK078800	Escutcheon, FD	Large	フェルト(大)	05
* 235	VL278300	Felt	Large	フェルト(大)	02
* 240	VK503100	Hinge		蝶番	4pcs
* 250	E1340088	Bind Head Tapping Screw	4.0X8 FCM3BL	A*イント*タッピングネジ*	8pcs
* 251	EV413048	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	8pcs
* 260	BB807050	Contact		接触子	8pcs
* 270	E1340088	Bind Head Tapping Screw	4.0X8 FCM3BL	A*イント*タッピングネジ*	8pcs
* 271	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	8pcs
* 280	VK078900	Panel	Center	センターパネル	40
* 285	VD807400	Spacer	H=7.5 B=5.5	支柱	7pcs
* 295	VL311100	Support	T07B-10 L=10	サポート	5pcs
* 310	VK077200	Sub Panel, PNL		PNLサブパネル	15
* 640	VK403300	Hook Loop Fastener		東線止め	12pcs
* 690	ED330066	Bind Head Screw	3.0X6 FCM3BL	バインド小ネジ	23pcs
* 691	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	23pcs
* 700	VK077600	Sub Panel, PNR		PNRサブパネル	13
* 1200	ED330066	Bind Head Screw	3.0X6 FCM3BL	バインド小ネジ	25pcs
* 1201	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	25pcs
* 1210	VK154600	Circuit Board	PNL	PNLシート	79
* 1220	ED330066	Bind Head Screw	3.0X6 FCM3BL	バインド小ネジ	20pcs
* 1221	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	20pcs
* 1225	ED330066	Bind Head Screw	3.0X6 FCM3BL	バインド小ネジ	5pcs
* 1226	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	5pcs
* 1230	VK077700	Angle Bracket, PNL		PNLアンクル	15
* 1240	VK154800	Circuit Board	REL	RELシート	59
* 1250	ED330066	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	10pcs
* 1251	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	10pcs
* 1255	ED330066	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	10pcs
* 1256	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	10pcs
* 1260	ES200180	Hexagonal Nut	7.0 ZHC2BL	特殊六角ナット	17pcs
* 1270	VK154700	Circuit Board	PNR	PNRシート	60
* 1275	ED330066	Bind Head Screw	3.0X6 FCM3BL	バインド小ネジ	4pcs
* 1276	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	4pcs
* 1280	ED330066	Bind Head Screw	3.0X6 FCM3BL	バインド小ネジ	16pcs
* 1281	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	16pcs
* 1285	VL319400	Spacer		防振スパーサー	5pcs
* 1290	VK078000	Angle Bracket, PNR		PNRアンクル	21
* 1295	VL288000	Shield Plate, RER		シールドプレート	13
* 1300	VK154900	Circuit Board	RER	RERシート	53
* 1305	VL255000	Protection Sheet, Cable		ケーブル保護シート	07
* 1310	ED330066	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	5pcs
* 1311	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	5pcs
* 1315	ED330066	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	8pcs
* 1316	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	8pcs

Ref. No.	Part No.	Description		部品名	Remarks	ランク
1320	ES200180	Hexagonal Nut	7.0 ZMC2BL	特殊六角ナット	22pcs	01
1330	VK151500	Circuit Board	PND	PNDシート		55
1340	VL285700	Support	T08B-15 L=15	サポート	4pcs	01
1345	EA330086	Pan Head Screw	3.0X8 FCM3BL	ナベ小ネジ	8pcs	01
1346	EV303306	Spring Washer	3.0 ZMC2BL	バネ座金	8pcs	01
1347	EV203036	Flat Washer	3.0 FCM3BL	平座金	8pcs	01
1350	VK480800	Bonding Head Tapping Screw	4.0X8 FCM3BL	ボンディングタッピングネジ	6pcs	01
1360	VK078300	Side Pad	Left-Large	サイドパッド大 (左)		13
1370	VK078500	Sub Panel	Left-Large	サブパネル大 (左)		20
1380	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	6pcs	01
1381	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	6pcs	01
1390	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	2pcs	01
1391	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	2pcs	01
1400	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	6pcs	01
1401	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	6pcs	01
1410	VK078200	Side Pad	Right-Large	サイドパッド大 (右)		13
1420	VK078400	Sub Panel	Right-Large	サブパネル大 (右)		20
1430	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	6pcs	01
1431	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	6pcs	01
1440	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	2pcs	01
1441	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	2pcs	01
1450	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	6pcs	01
1451	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	6pcs	01
1530	VK780000	Lamp-Cap	AG-40.15-G5	ランプキャップ	4pcs	02
1540	VK780100	Lamp	1.6W 115mA L600	ランプ	1pc.	~S/# HK****
1540	VL443900	Lamp	1.6W 115mA L600	ランプ	2pcs	S/# HL01001~
1550	VK780200	Lamp	1.6W 115mA L300	ランプ	1pc.	~S/# HK****
1550	VL443900	Lamp	1.6W 115mA L600	ランプ	2pcs	S/# HL01001~
1560	VL136000	Stop Stay	Left	ストップステー (左)		14
1570	VL136100	Stop Stay	Right	ストップステー (右)		14
1590	EB330086	Flat Head Screw	3.0X8 FCM3BL	皿小ネジ	4pcs	01
1610	VJ770800	Cord Holder	S-126	束線止め	1pc.	01
1620	CB817510	Cord Holder	S-14B	束線止め	4pcs	01
1630	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハインドタッピングネジ	2pcs	01
1631	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	2pcs	01
1640	VL186200	Masking Sheet	C-4405	マスキングシート	2pcs	03
1650	VL314700	Angle Bracket, PCB	A	シート金具 (A)		09
1680	ED340086	Bind Head Screw	4.0X8 FCM3BL	バインド小ネジ	1pc.	01
1681	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	1pc.	01
1670	VL314800	Angle Bracket, PCB	B1	シート金具 (B1)		10
1680	VL314900	Angle Bracket, PCB	B2	シート金具 (B2)		09
1690	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	3pcs	01
1691	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	3pcs	01
1700	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	1pc.	01
1701	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	1pc.	01
1710	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	2pcs	01
1711	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	2pcs	01
1720	VC362700	Ferrite Core	FR25/15/12-1400	フェライトコア	2pcs	04
1730	CB835590	Holder	TMS-20	バンド固定金具	2pcs	01
1740	CB069250	Wire Harness Tie	BK-1	束線止め	2pcs	01

* : New Parts (新規部品) NR

■ PANEL ASSEMBLY (パネル Ass'y) 2/2



Ref. No.	Part No.	Description		部品名	Remarks	ランク
290	VK077000	<PANEL ASSEMBLY> LED Cover (2)	2/2	<パネル Ass'y2/2> LEDカバー (2)	4pcs	07
300	VK077100	LED Cover	8 points	LEDカバー	3pcs	06
320	VK473700	Push Button Assembly	<4>1,3,5,7 S	プッシュボタン小 Ass'y	9pcs	07
330	VK473800	Push Button Assembly	<4>2,4,6,8 S	プッシュボタン小 Ass'y	8pcs	07
340	VK466300	Push Button Assembly	<1>ST S	プッシュボタン小 Ass'y	9pcs	04
350	VK466600	Push Button Assembly	<1>MON S	プッシュボタン小 Ass'y	16pcs	04
360	VK473900	Push Button Assembly	<4>PRE,ON3 S	プッシュボタン小 Ass'y	9pcs	07
370	VK474000	Push Button Assembly	<4>MON,1-3 S	プッシュボタン小 Ass'y	8pcs	07
380	VK573100	Push Button Assembly	<3>1-3 S	プッシュボタン小 Ass'y	1pc.	06
390	VK467700	Push Button Assembly	<1>BUS S	プッシュボタン小 Ass'y	16pcs	04
400	VK467100	Push Button Assembly	<1>EQ S	プッシュボタン小 Ass'y	16pcs	04
410	VK460700	Push Button Assembly	<1>ON S	プッシュボタン小 Ass'y	8pcs	04
420	VK467200	Push Button Assembly	<1>SOLO S	プッシュボタン小 Ass'y	8pcs	04
430	VK467600	Push Button Assembly	<1>FLIP S	プッシュボタン小 Ass'y	8pcs	04
440	VK467800	Push Button Assembly	<1>AUX3 S	プッシュボタン小 Ass'y	8pcs	04
450	VK478000	Push Button Assembly	<1>SEL L	プッシュボタン大 Ass'y	9pcs	04
455	VL175100	Push Button Assembly	<1>SEL A S	プッシュボタン小 Ass'y	1pc.	04
460	VL175200	Push Button Assembly	<3>SEL B S	プッシュボタン小 Ass'y	1pc.	04
465	VL175300	Push Button Assembly	<3>SEL C S	プッシュボタン小 Ass'y	1pc.	04
470	VL175400	Push Button Assembly	<1>EQ S	プッシュボタン小 Ass'y	3pcs	04
480	VK478600	Push Button Assembly	<1>< S	プッシュボタン大 Ass'y	18pcs	04
490	VK467900	Push Button Assembly	<1>L S	プッシュボタン小 Ass'y	1pc.	04
500	VK468000	Push Button Assembly	<1>R S	プッシュボタン小 Ass'y	1pc.	04
510	VK468600	Push Button Assembly	<1>ON L	プッシュボタン大 Ass'y	8pcs	04
520	VK471900	Push Button Assembly	<1>SOLO L	プッシュボタン大 Ass'y	8pcs	04
530	VK468100	Push Button Assembly	<1>SOLO S-V	プッシュボタン小 Ass'y	3pcs	04
540	VK468400	Push Button Assembly	<1>ON S-V	プッシュボタン小 Ass'y	3pcs	04
600	VK449100	LED Cover (3)	16 points	LEDカバー (3)	8pcs	08
710	VK468600	Push Button Assembly	<1>ON L	プッシュボタン大 Ass'y	7pcs	04
715	VL177900	Push Button Assembly	<1>CUE L	プッシュボタン大 Ass'y	1pc.	04
720	VK468800	Push Button Assembly	<1>1 L	プッシュボタン大 Ass'y	2pcs	04
730	VK468900	Push Button Assembly	<1>2 L	プッシュボタン大 Ass'y	2pcs	04
740	VK469000	Push Button Assembly	<1>3 L	プッシュボタン大 Ass'y	2pcs	04
750	VK469100	Push Button Assembly	<1>4 L	プッシュボタン大 Ass'y	1pc.	04
760	VK469200	Push Button Assembly	<1>5 L	プッシュボタン大 Ass'y	1pc.	04
770	VK469300	Push Button Assembly	<1>6 L	プッシュボタン大 Ass'y	1pc.	04
780	VK469400	Push Button Assembly	<1>7 L	プッシュボタン大 Ass'y	1pc.	04
790	VK469500	Push Button Assembly	<1>8 L	プッシュボタン大 Ass'y	1pc.	04
800	VK469600	Push Button Assembly	<1>ST A L	プッシュボタン大 Ass'y	1pc.	04
810	VK469700	Push Button Assembly	<1>ST B L	プッシュボタン大 Ass'y	1pc.	04
820	VK469800	Push Button Assembly	<1>ST C L	プッシュボタン大 Ass'y	1pc.	04
830	VK469900	Push Button Assembly	<1>MON L	プッシュボタン大 Ass'y	3pcs	04
840	VK470000	Push Button Assembly	<1>RESET L	プッシュボタン大 Ass'y	1pc.	04
850	VK470100	Push Button Assembly	<1>BUS L	プッシュボタン大 Ass'y	1pc.	04
860	VK470200	Push Button Assembly	<1>EXT L	プッシュボタン大 Ass'y	1pc.	04
870	VK470300	Push Button Assembly	<1>REC L	プッシュボタン大 Ass'y	2pcs	04
880	VK470400	Push Button Assembly	<1>HIX L	プッシュボタン大 Ass'y	1pc.	04
890	VK470500	Push Button Assembly	<1>BUSHSTR L	プッシュボタン大 Ass'y	1pc.	04
900	VK470600	Push Button Assembly	<1>φ L	プッシュボタン大 Ass'y	1pc.	04
910	VK470700	Push Button Assembly	<1>LPP L	プッシュボタン大 Ass'y	1pc.	04
920	VK470800	Push Button Assembly	<1>HPF L	プッシュボタン大 Ass'y	1pc.	04
930	VK470900	Push Button Assembly	<1>AUX3 L	プッシュボタン大 Ass'y	1pc.	04
940	VK471000	Push Button Assembly	<1>SHELF L	プッシュボタン大 Ass'y	2pcs	04
950	VK471100	Push Button Assembly	<1>SMALL L	プッシュボタン大 Ass'y	1pc.	04
960	VK471200	Push Button Assembly	<1>HOLD L	プッシュボタン大 Ass'y	1pc.	04
970	VK471300	Push Button Assembly	<1>AFL L	プッシュボタン大 Ass'y	1pc.	04
990	VK471500	Push Button Assembly	<1>TRK 1 L	プッシュボタン大 Ass'y	1pc.	04
1000	VK471600	Push Button Assembly	<1>TRK 2 L	プッシュボタン大 Ass'y	1pc.	04
1010	VK471700	Push Button Assembly	<1>TRK 3 L	プッシュボタン大 Ass'y	1pc.	04
1020	VK471800	Push Button Assembly	<1>TRK 4 L	プッシュボタン大 Ass'y	1pc.	04
1030	VK472000	Push Button Assembly	<1>PLAY L	プッシュボタン大 Ass'y	1pc.	04
1040	VK472100	Push Button Assembly	<1>STOP L	プッシュボタン大 Ass'y	1pc.	04
1050	VK472200	Push Button Assembly	<1>UNDO L	プッシュボタン大 Ass'y	1pc.	04
1060	VK472300	Push Button Assembly	<1>NEXT L	プッシュボタン大 Ass'y	1pc.	04
1070	VK472400	Push Button Assembly	<1>PREV L	プッシュボタン大 Ass'y	1pc.	04
1080	VK472500	Push Button Assembly	<1>F1 L	プッシュボタン大 Ass'y	1pc.	04
1090	VK472600	Push Button Assembly	<1>F2 L	プッシュボタン大 Ass'y	1pc.	04
1100	VK472700	Push Button Assembly	<1>F3 L	プッシュボタン大 Ass'y	1pc.	04
1110	VK472800	Push Button Assembly	<1>F4 L	プッシュボタン大 Ass'y	1pc.	04
1120	VK472900	Push Button Assembly	<1>G1 L	プッシュボタン大 Ass'y	1pc.	04
1130	VK473000	Push Button Assembly	<1>G2 L	プッシュボタン大 Ass'y	1pc.	04
1140	VK473100	Push Button Assembly	<1>ENABLE L	プッシュボタン大 Ass'y	1pc.	04
1150	VK473200	Push Button Assembly	<1>AUTO L	プッシュボタン大 Ass'y	1pc.	04
1160	VK473300	Push Button Assembly	<1>ST L	プッシュボタン大 Ass'y	1pc.	04
1170	VK473400	Push Button Assembly	<1>MONO L	プッシュボタン大 Ass'y	1pc.	04
1180	VK473500	Push Button Assembly	<1>LINK 1 L	プッシュボタン大 Ass'y	1pc.	04
1190	VK473600	Push Button Assembly	<1>LINK 2 L	プッシュボタン大 Ass'y	1pc.	04
1480	VJ706200	Volume Knob		ボリュームツマミ	7pcs	02

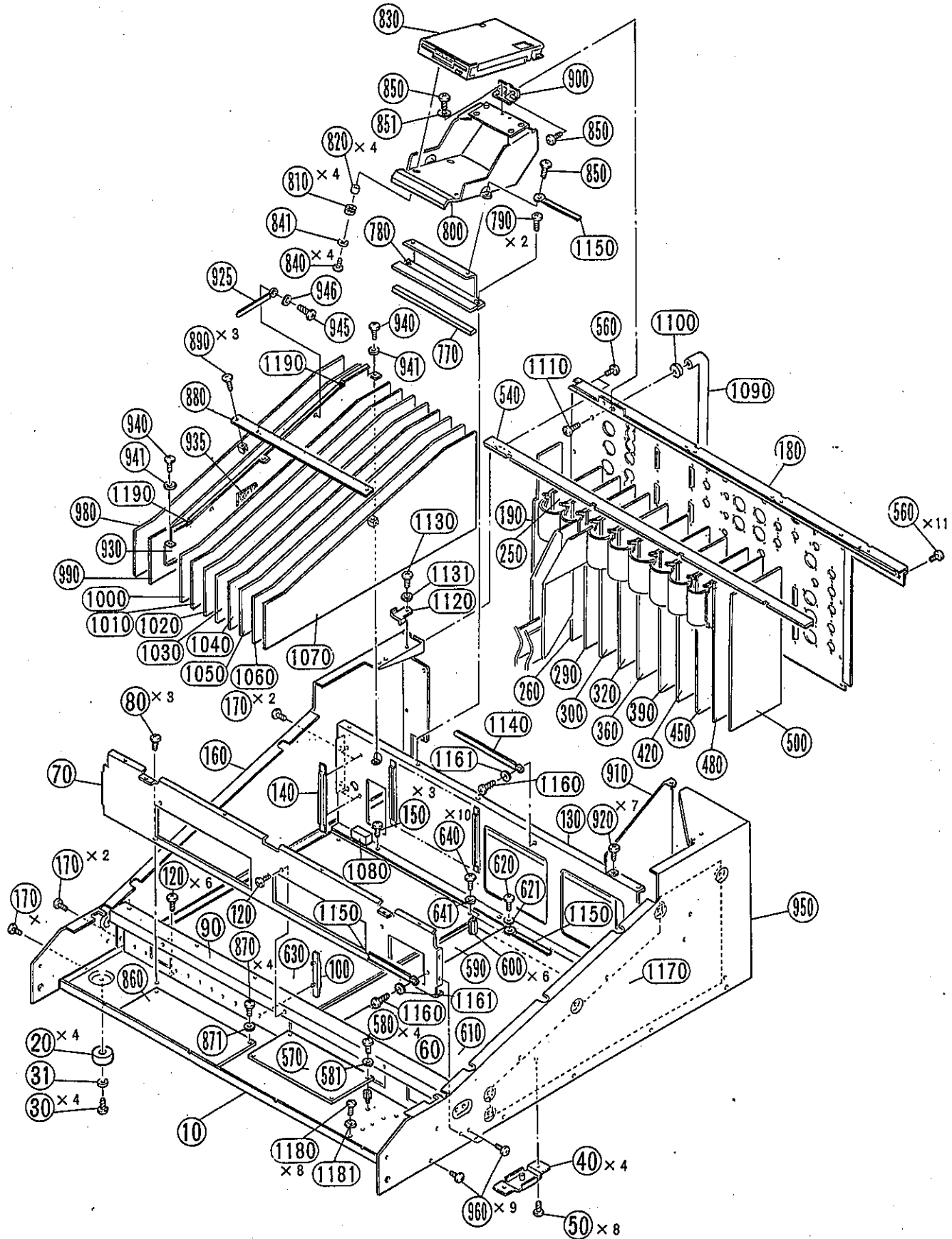
* : New Parts (新規部品) ** NR

ランク : Japan Only

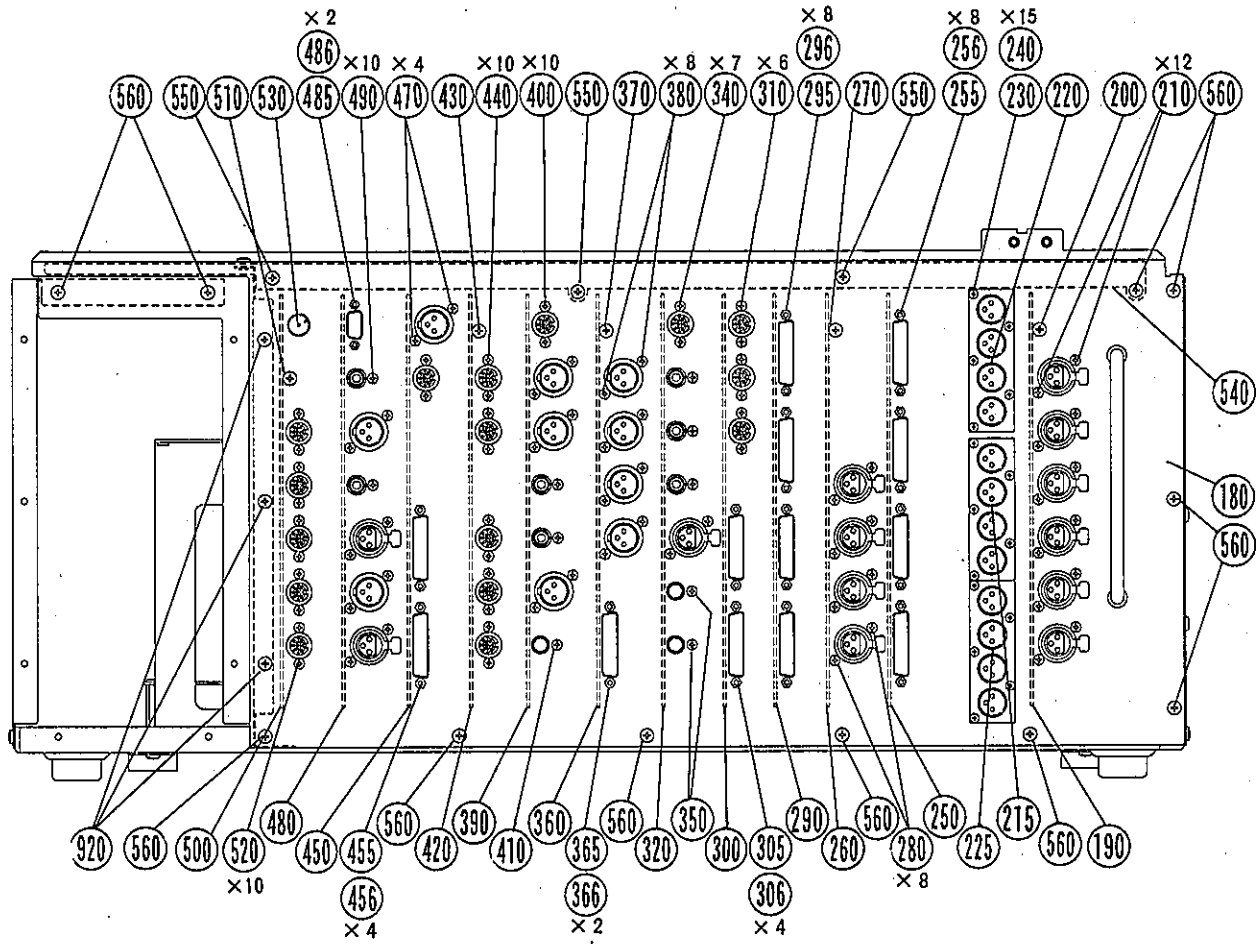
Ref. No.	Part No.	Description		部品名	Remarks	ランク
1490	VK092500	Knob	Small	ノブ小	32pcs	02
1500	VK468800	Push Button Assembly	Small	プッシュボタン小 Ass'y	<1> I	04
1510	VK468900	Push Button Assembly	Small	プッシュボタン小 Ass'y	<1> II	04
1520	VK467000	Push Button Assembly	Small	プッシュボタン小 Ass'y	<1> III	04

* 新 部 品 *

■ BOTTOM ASSEMBLY (ボトム Ass'y)



● Rear side view (後方より)



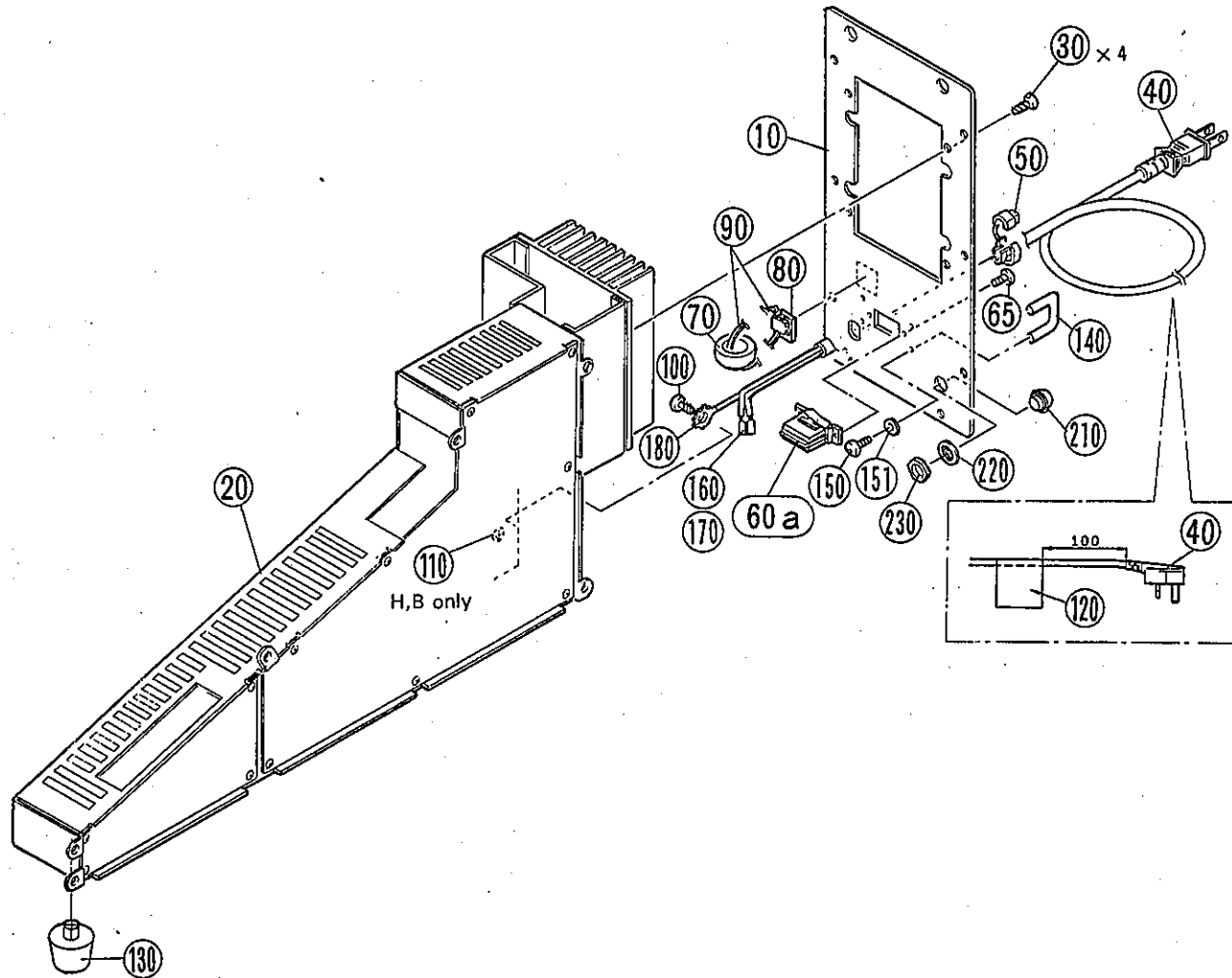
D-Sub connector installation
(D-Sub コネクタ 取付)

- Hexagonal Lock Screw (六角ロックネジ)
- Toothed Lock Washer (歯付き座金内歯形)
- Rear Panel (リアパネル)
- D-Sub Connector (D-Sub コネクタ)
- Circuit Board (シート)

Ref. No.	Part No.	Description	部品名	Remarks	ランク
		<BOTTOM ASSEMBLY>	<ボトム Ass'y>		
* 10	VK068400	Bottom Cover	ボトムカバー		46
* 20	CB806590	Foot	アンブレッグ	4pcs	01
* 30	EI340106	Bind Head Tapping Screw	ハインドタッピングネジ	4pcs	01
* 31	EV413046	Toothed Lock Washer	歯付座金内歯形	4pcs	01
* 40	VK070600	Stand Angle Bracket	スタンド金具	4pcs	06
* 50	VK480800	Bonding Head Tapping Screw	ボンディングタッピングネジ	8pcs	01
* 60	VD807400	Spacer	支柱	24pcs	01
* 70	VK071100	Stay	ステー (前)		17
* 80	VK480800	Bonding Head Tapping Screw	ボンディングタッピングネジ	3pcs	01
* 90	VK071600	Stay	ステー (中)		15
* 100	VK092800	Guide Rail	ガイドレール	10pcs	03
* 120	VK480800	Bonding Head Tapping Screw	ボンディングタッピングネジ	6pcs	01
* 130	VK071800	Stay	ステー (後)		14
* 140	VK092900	Guide Rail	ガイドレール	10pcs	04
* 150	VK480800	Bonding Head Tapping Screw	ボンディングタッピングネジ	3pcs	01
* 160	VK072300	Side Cover	サイドカバー (左)		23
* 170	VK480800	Bonding Head Tapping Screw	ボンディングタッピングネジ	11pcs	01
* 180	VK148800	Rear Panel	リアパネル		27
* 190	VK152400	Circuit Board	CRAシート		22
* 200	VK464300	Boding Head Screw	ボンディング小ネジ	1pc.	01
* 210	VD330000	Boding Head Screw	ボンディング小ネジ	12pcs	01
* 215	VK448900	XL Connector	キャノンコネクタ	LARGE, SMALL 0	11
* 220	VK448900	XL Connector	キャノンコネクタ	AUX SEND	11
* 225	VK448900	XL Connector	キャノンコネクタ	STUDIO, CUE OUT	11
* 230	ED326086	Bind Head Screw	バインド小ネジ	15pcs	01
* 240	EV413266	Toothed Lock Washer	歯付座金内歯形	15pcs	01
* 250	VK152100	Circuit Board	CRシート		44
* 255	VL183000	Hexagonal Lock Screw	六角ロックネジ	8pcs	03
* 256	EV413266	Toothed Lock Washer	歯付座金内歯形	8pcs	01
* 260	VK152200	Circuit Board	CRDシート		26
* 270	VK464300	Boding Head Screw	ボンディング小ネジ	1pc.	01
* 280	VD330000	Boding Head Screw	ボンディング小ネジ	8pcs	01
* 290	VK152600	Circuit Board	CREシート		45
* 295	VL183000	Hexagonal Lock Screw	六角ロックネジ	8pcs	03
* 296	EV413266	Toothed Lock Washer	歯付座金内歯形	8pcs	01
* 300	VK152300	Circuit Board	CRFシート		36
* 305	VL183000	Hexagonal Lock Screw	六角ロックネジ	4pcs	03
* 306	EV413266	Toothed Lock Washer	歯付座金内歯形	4pcs	01
* 310	VD330000	Boding Head Screw	ボンディング小ネジ	6pcs	01
* 320	VK152500	Circuit Board	CRGシート		25
* 340	VD330000	Boding Head Screw	ボンディング小ネジ	7pcs	01
* 350	EP600730	Bind Head Tapping Screw-P	+バインドPタイト	2pcs	01
* 360	VK152700	Circuit Board	CRHシート		31
* 365	VL183000	Hexagonal Lock Screw	六角ロックネジ	2pcs	03
* 366	EV413266	Toothed Lock Washer	歯付座金内歯形	2pcs	01
* 370	VK464300	Boding Head Screw	ボンディング小ネジ	1pc.	01
* 380	VD330000	Boding Head Screw	ボンディング小ネジ	8pcs	01
* 390	VK152800	Circuit Board	CRIシート		27
* 400	VD330000	Boding Head Screw	ボンディング小ネジ	10pcs	01
* 410	EP600730	Bind Head Tapping Screw-P	+バインドPタイト	1pc.	01
* 420	VK152900	Circuit Board	CRJシート		27
* 430	VK464300	Boding Head Screw	ボンディング小ネジ	1pc.	01
* 440	VD330000	Boding Head Screw	ボンディング小ネジ	10pcs	01
* 450	VK153300	Circuit Board	CRKシート		34
* 455	VL183000	Hexagonal Lock Screw	六角ロックネジ	4pcs	03
* 456	EV413266	Toothed Lock Washer	歯付座金内歯形	4pcs	01
* 470	VD330000	Boding Head Screw	ボンディング小ネジ	4pcs	01
* 480	VK153600	Circuit Board	CRLシート		30
* 485	VL183000	Hexagonal Lock Screw	六角ロックネジ	2pcs	03
* 486	EV413266	Toothed Lock Washer	歯付座金内歯形	2pcs	01
* 490	VD330000	Boding Head Screw	ボンディング小ネジ	10pcs	01
* 500	VK153500	Circuit Board	CRMシート		20
* 510	VK464300	Boding Head Screw	ボンディング小ネジ	1pc.	01
* 520	VD330000	Boding Head Screw	ボンディング小ネジ	10pcs	01
* 530	VB182000	Knob, Round	ノブ (白ベージュ)	LCD CONTRAST	01
* 540	VK462700	Reinforcement Bracket	補強アングル		09
* 550	VK480800	Bonding Head Tapping Screw	ボンディングタッピングネジ	3pcs	01
* 560	VK480800	Bonding Head Tapping Screw	ボンディングタッピングネジ	11pcs	01
* 570	VL686700	Circuit Board	DTBシート		26
* 570	VL686900	Circuit Board	DTBシート	U,C	27
* 570	VL687100	Circuit Board	DTBシート	H,B	26
* 580	ED330086	Bind Head Screw	バインド小ネジ	4pcs	01
* 581	EV413036	Toothed Lock Washer	歯付座金内歯形	4pcs	01
* 590	VK151300	Circuit Board	DSPシート		91
* 600	VL180200	Support	T99B-30 L=30	6pcs	03
* 610	VK151200	Circuit Board	CPU		
* 620	ED330086	Bind Head Screw	3.0X8 FCM3BL	6pcs	01
* 621	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	6pcs

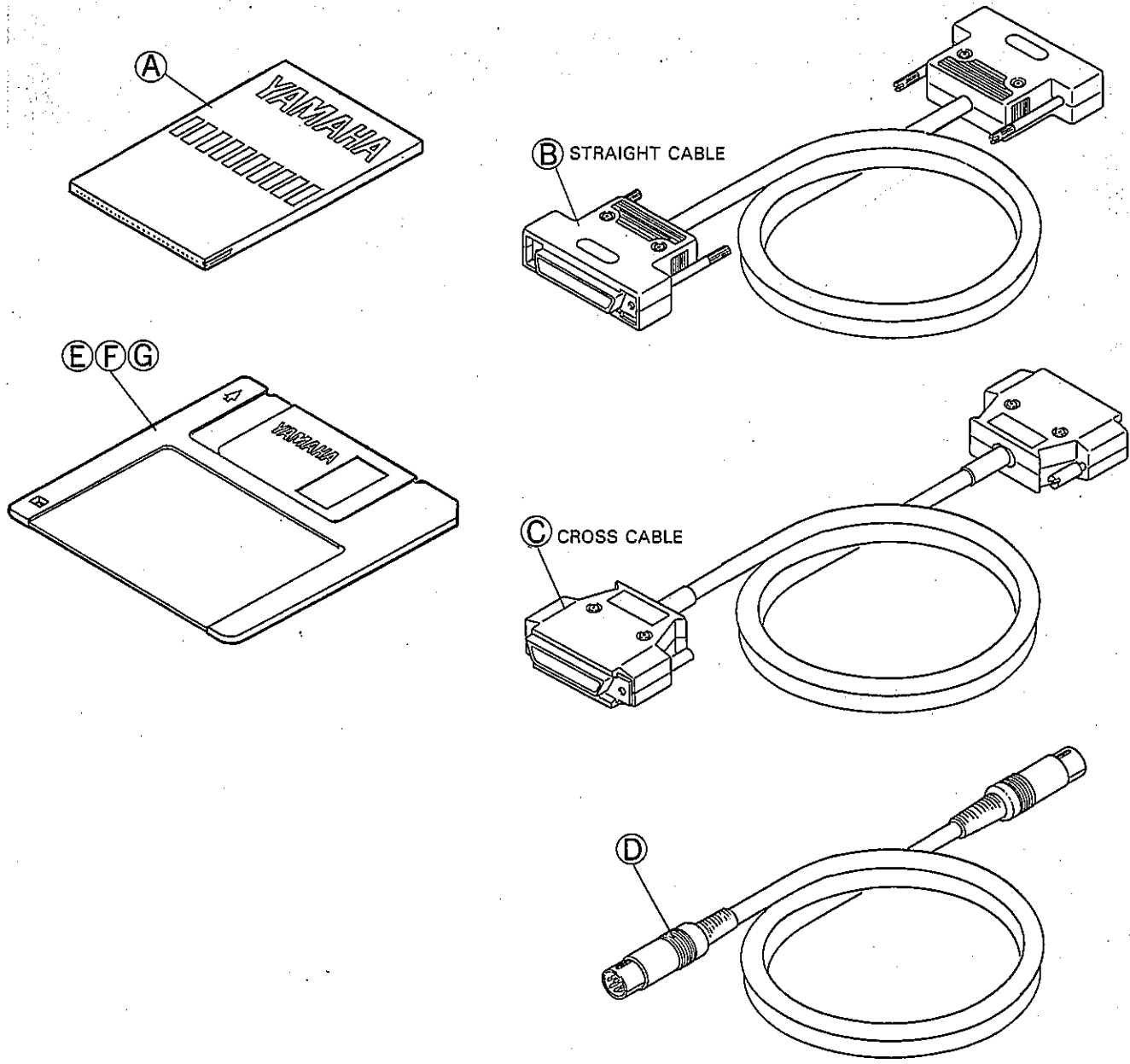
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* 630	VK153800	Circuit Board	MBD	M B D シート		54
* 640	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	10pcs	01
* 641	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	10pcs	01
* 770	VL266800	Rubber Holder, PCB	mid	基板押えゴム(中)		02
* 780	VK074300	Angle Bracket, FD		F D アングル		10
* 790	VD330000	Bonding Head Screw	3.0X8 FCM3BL	ボンディング小ネジ	2pcs	01
* 800	VK074400	Sub Panel, FD		サブパネル		18
* 810	VC886900	Insulator, FDD		F D D インシュレータ	4pcs	01
* 820	VD385000	Bushing	3X3 ZMC2Y	巻きブッシュ	4pcs	01
* 830	VI577100	Floppy Disk Drive Unit	MF353C-152MY	3.5" F D D		27
* 840	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	4pcs	01
* 841	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	4pcs	01
* 850	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハイトタッピングネジ	6pcs	01
* 851	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	6pcs	01
* 860	VK244600	Circuit Board	MDR	M D R シート		20
* 870	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	4pcs	01
* 871	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	4pcs	01
* 880	VK462800	Angle Bracket, PCB		基板押え金具		09
* 890	VD330000	Bonding Head Screw	3.0X8 FCM3BL	ボンディング小ネジ	3pcs	01
* 900	VK503100	Hinge	ZHC2BL	蝶番	1pc.	06
* 910	VK463100	Angle Bracket	Right	サブ金具(右)		11
* 920	VK460800	Bonding Head Tapping Screw	4.0X8 FCM3BL	ボンディングタッピングネジ	7pcs	01
* 925	CB817510	Cord Holder	S-14B	束線止め	2pcs	01
* 930	VK463000	Shield Plate		シールドプレート		13
* 935	VK463300	Hook Loop Fastener		束線止め	4pcs	02
* 940	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	2pcs	01
* 941	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	2pcs	01
* 945	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハイトタッピングネジ	2pcs	01
* 946	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	2pcs	01
* 950	VK071900	Side Cover	Right	サイドカバー(右)		24
* 960	VK460800	Bonding Head Tapping Screw	4.0X8 FCM3BL	ボンディングタッピングネジ	9pcs	01
* 980	VK707500	Circuit Board	ANA1/2	A N A 1/2 シート		78
* 990	VK707600	Circuit Board	ANA2/2	A N A 2/2 シート		78
* 1000	VK708100	Circuit Board	CIN1/2	C I N 1/2 シート		65
* 1010	VK708200	Circuit Board	CIN2/2	C I N 2/2 シート		65
* 1020	VK707700	Circuit Board	IN1/2	I N 1/2 シート		66
* 1030	VK707800	Circuit Board	IN2/2	I N 2/2 シート		69
* 1040	VK707900	Circuit Board	OUT1/2	O U T 1/2 シート		74
* 1050	VK708000	Circuit Board	OUT2/2	O U T 2/2 シート		74
* 1060	VK708300	Circuit Board	CLK1/2	C L K 1/2 シート		50
* 1070	VK708400	Circuit Board	CLK2/2	C L K 2/2 シート		51
* 1080	VK768100	Holder, Shield Plate		シールド板押え	1pc.	02
* 1090	VL100100	Panel Handle	TLA-31	パネル取手		08
* 1100	VL100200	Washer, Panel Handle	THA-268	パネル取手用座金	2pcs	03
* 1110	ED350126	Bind Head Screw	5.0X12 FCM3BL	バインド小ネジ	2pcs	01
* 1120	VL037600	Stopper, FD		F D ストップバー		08
* 1130	ED330086	Bind Head Screw	3.0X8 FCM3BL	バインド小ネジ	1pc.	01
* 1131	EV413036	Toothed Lock Washer	A 3.0 FCM3BL	歯付座金内歯形	1pc.	01
* 1140	VJ770600	Cord Holder	S-126	束線止め	1pc.	01
* 1150	CB817510	Cord Holder	S-14B	束線止め	4pcs	01
* 1160	EI340086	Bind Head Tapping Screw	4.0X8 FCM3BL	ハイトタッピングネジ	2pcs	01
* 1161	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	2pcs	01
* 1170	VL035500	Shield Sheet		絶縁シート		09
* 1180	ED340086	Bind Head Screw	4.0X8 ZHC2BL	バインド小ネジ	8pcs	01
* 1181	EV413046	Toothed Lock Washer	A 4.0 FCM3BL	歯付座金内歯形	8pcs	01
* 1190	--	Acetate Cloth Tape	15×30	アセテート粘着テープ		

POWER SUPPLY ASSEMBRY (電源Ass'y)

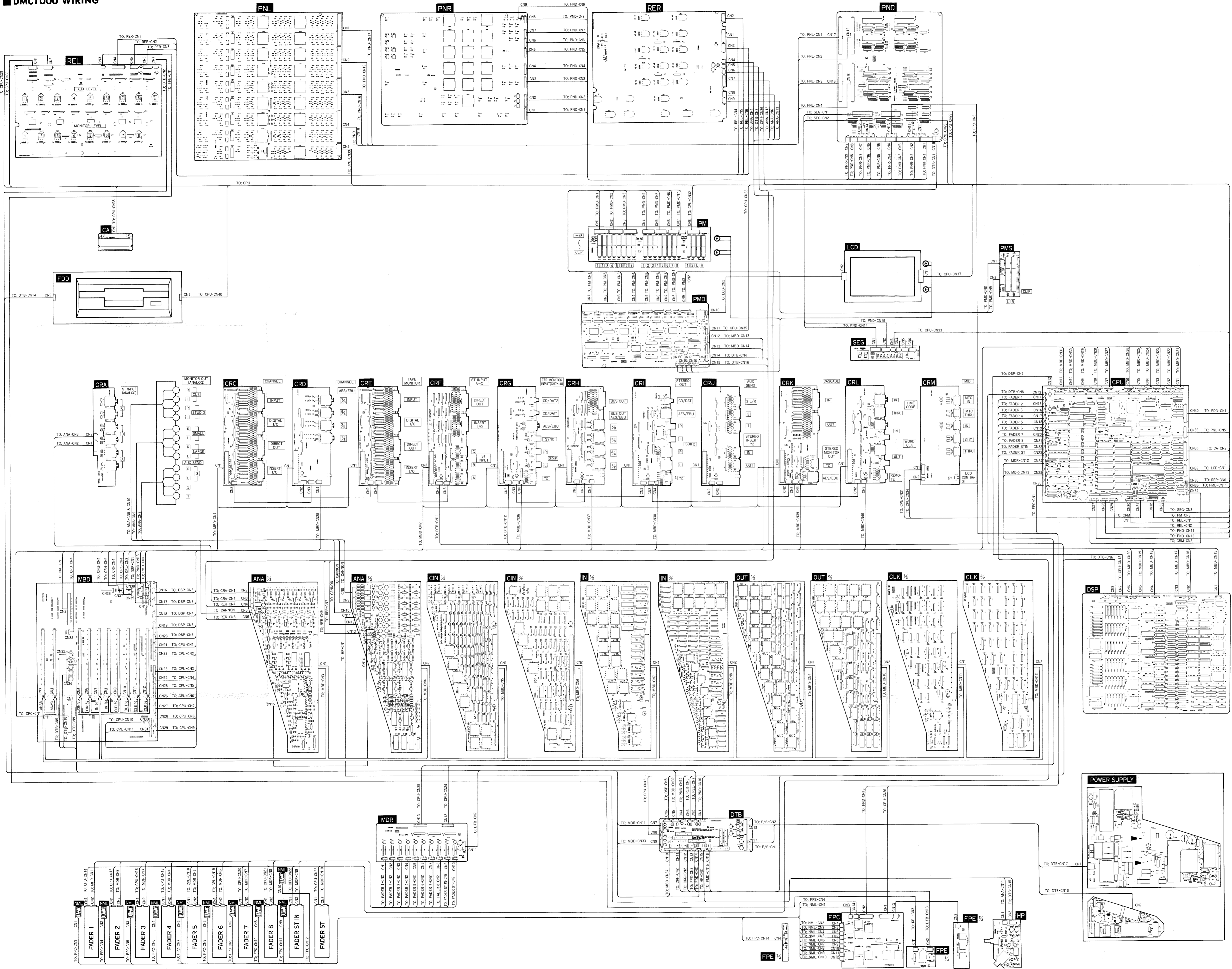


Ref. No.	Part No.	Description	部品名	Remarks	ランク
		<POWER SUPPLY ASSEMBLY>	<電源 Ass'y>		
* 10	VK423200	Panel, Power Supply	電源パネル	J	15
* 10	VK423300	Panel, Power Supply	電源パネル	U, C	15
* 10	VK423400	Panel, Power Supply	電源パネル	H	15
* 10	VK586000	Panel, Power Supply	電源パネル	B	15
* 20	VK162000	Power Supply Unit	電源ユニット	J, U, C	82
* 20	VK162100	Power Supply Unit	電源ユニット	H, B	82
* 30	VK480800	Bonding Head Tapping Screw 4.0X8 FCH3BL	ボンディングヘッドタップネジ	4pcs	01
* 40	MG000610	AC Cord J 15A 2.1M	電源コード	J	08
* 40	VD279800	AC Cord UC 10A 2.5M	電源コード	U, C	08
* 40	VD280600	AC Cord E 10A 2.5M	電源コード	H	08
* 40	VH890200	AC Cord B 10A 2.5M	電源コード	B	09
* 50	CB806850	Cord Strain Relief SR-8N3-4	コードストッパー	J, U, C	02
* 50	CB032840	Cord Strain Relief SR-5N-4	コードストッパー	H, B	01
* 60	--	Connector Assembly POWER SV	線材 Ass'y		
* 60a	VL241000	Seesaw Switch EST-15	シーソースイッチ	POWER SWITCH	07
* 85	VD330000	Bonding Head Screw 3.0X8 FCH3BL	ボンディング小ネジ	2pcs	01
* 70	VC362700	Ferrite Core FR25/15/12-1400	フェライトコア	1pc.	04
* 80	CB835590	Holder TMS-20	ホルダ固定具		01
* 90	CB089250	Cord Tie BK-1	束線止め	1pc.	01
* 100	VK480800	Bonding Head Tapping Screw 4.0X8 FCH3BL	ボンディングヘッドタップネジ	1pc.	01
* 110	--	Earth Mark	アースマーク	H, B	
* 120	--	Label BS-3	コード注意ラベル	B	
* 130	VL136400	Plastic Foot	プラスチックフット	1pc.	05
* 140	VG322400	Protector	プロテクター	2pcs	06
* 150	ED330088	Bind Head Screw 3.0X8 FCH3BL	バインド小ネジ	4pcs	01
* 151	EV413038	Toothed Lock Washer A 3.0 FCH3BL	歯付金内歯形	4pcs	01
* 160	LB101180	Terminal 170285-2	端子	2pcs	01
* 170	LB101180	Positive Lock Housing 1P	ラック端子	2pcs	01
* 180	LA003690	Lug Terminal	端子	U, C, H, B	01
* 210	NB082640	Earth Terminal Assembly	アース端子 Ass'y	J	05
* 220	ET800080	Toothed Lock Washer 8.0 ZMC2Y	歯付金内歯形	J (1pc.)	01
* 230	LA001680	Hexagonal Nut M8 x 0.75 NI	六角ナット	J (1pc.)	01

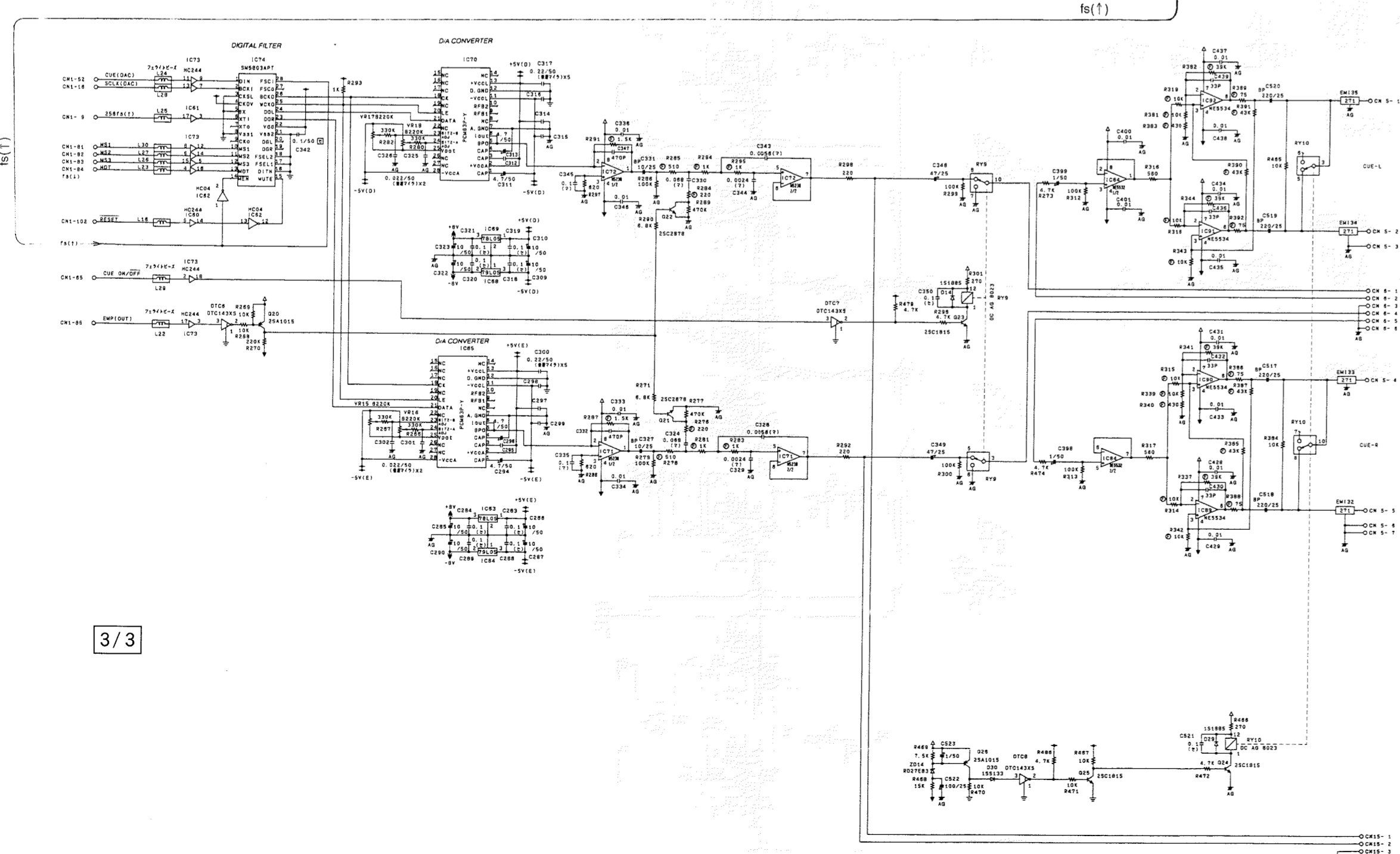
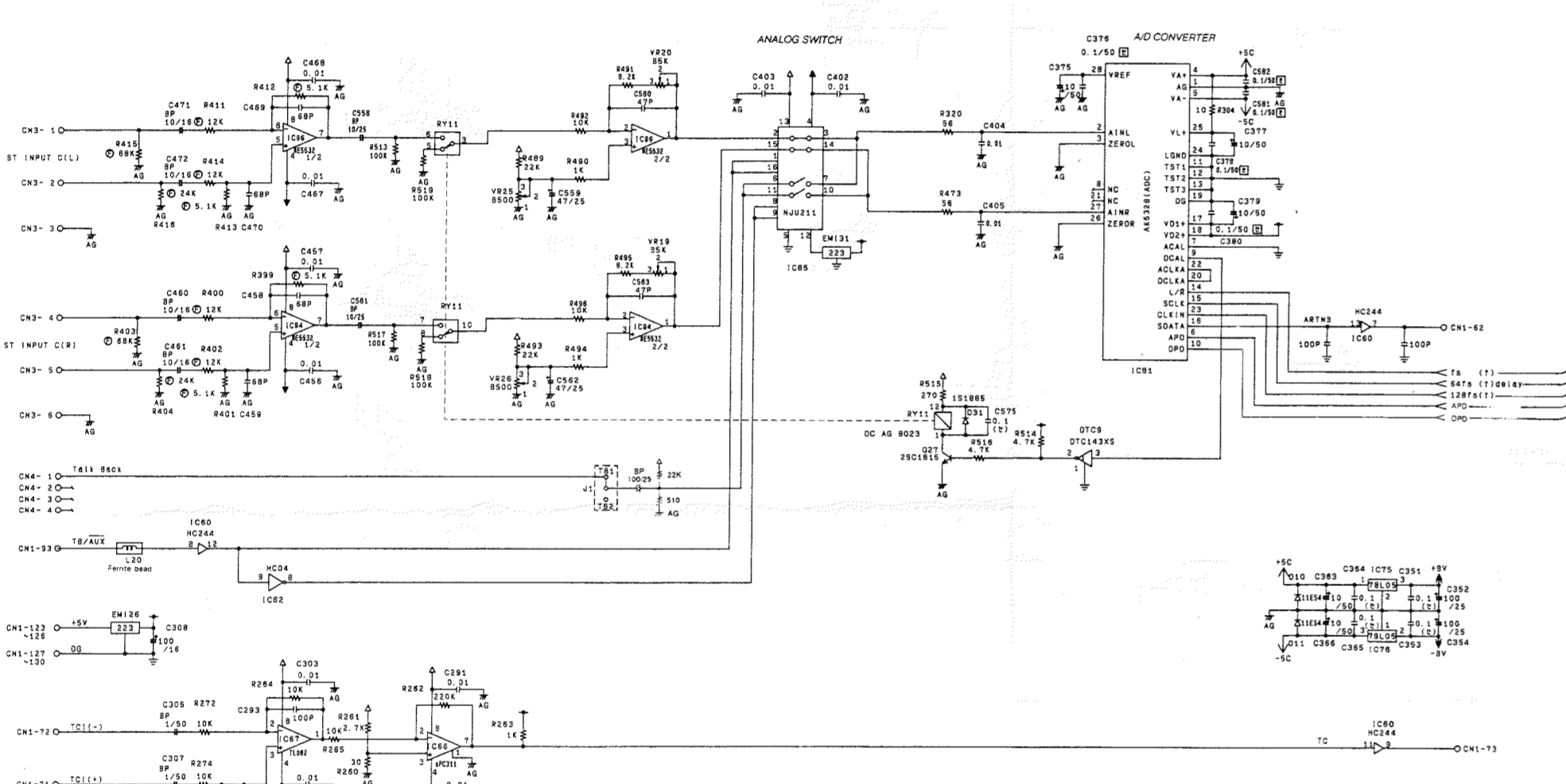
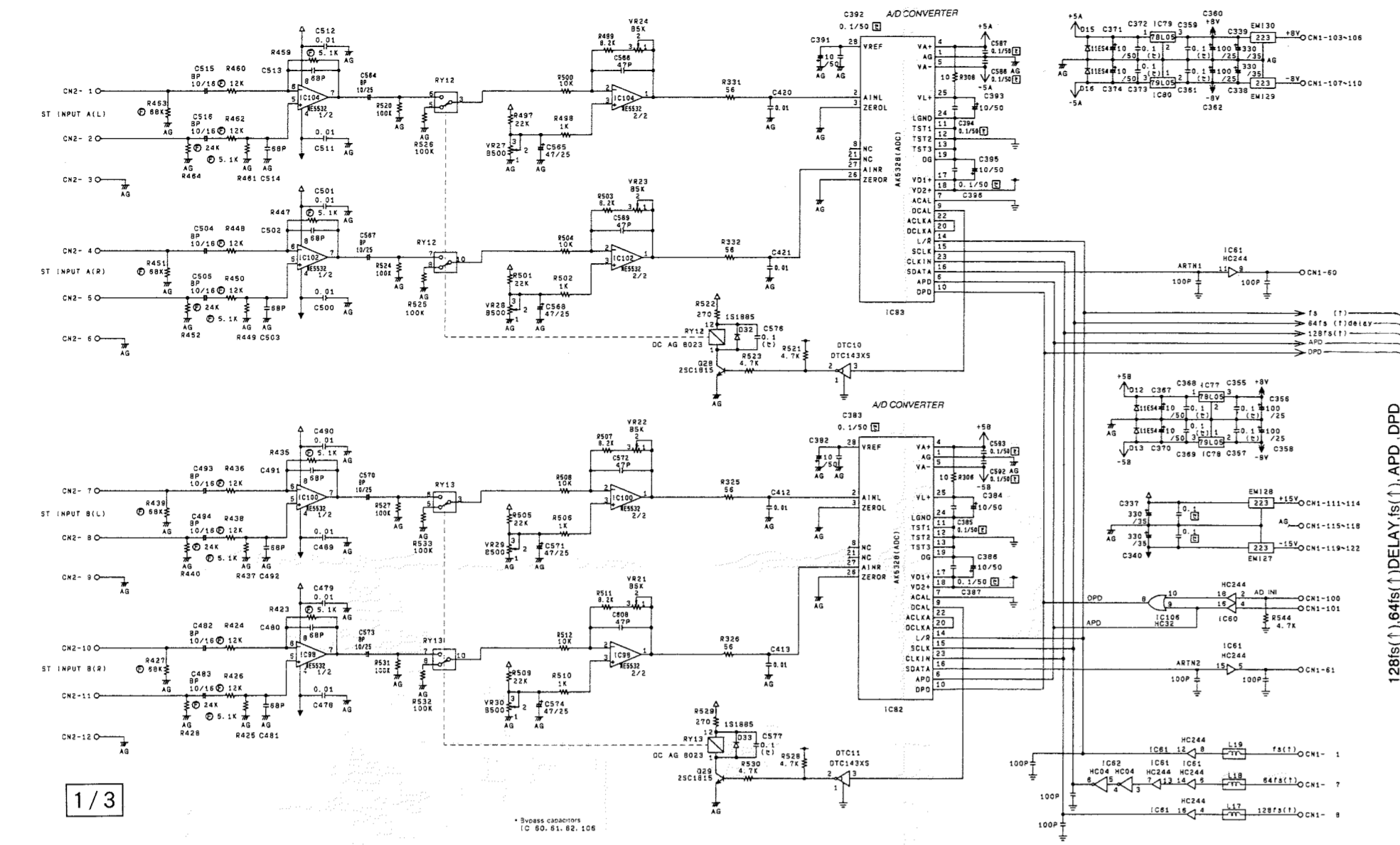
■ACCESSORIES (付属品)



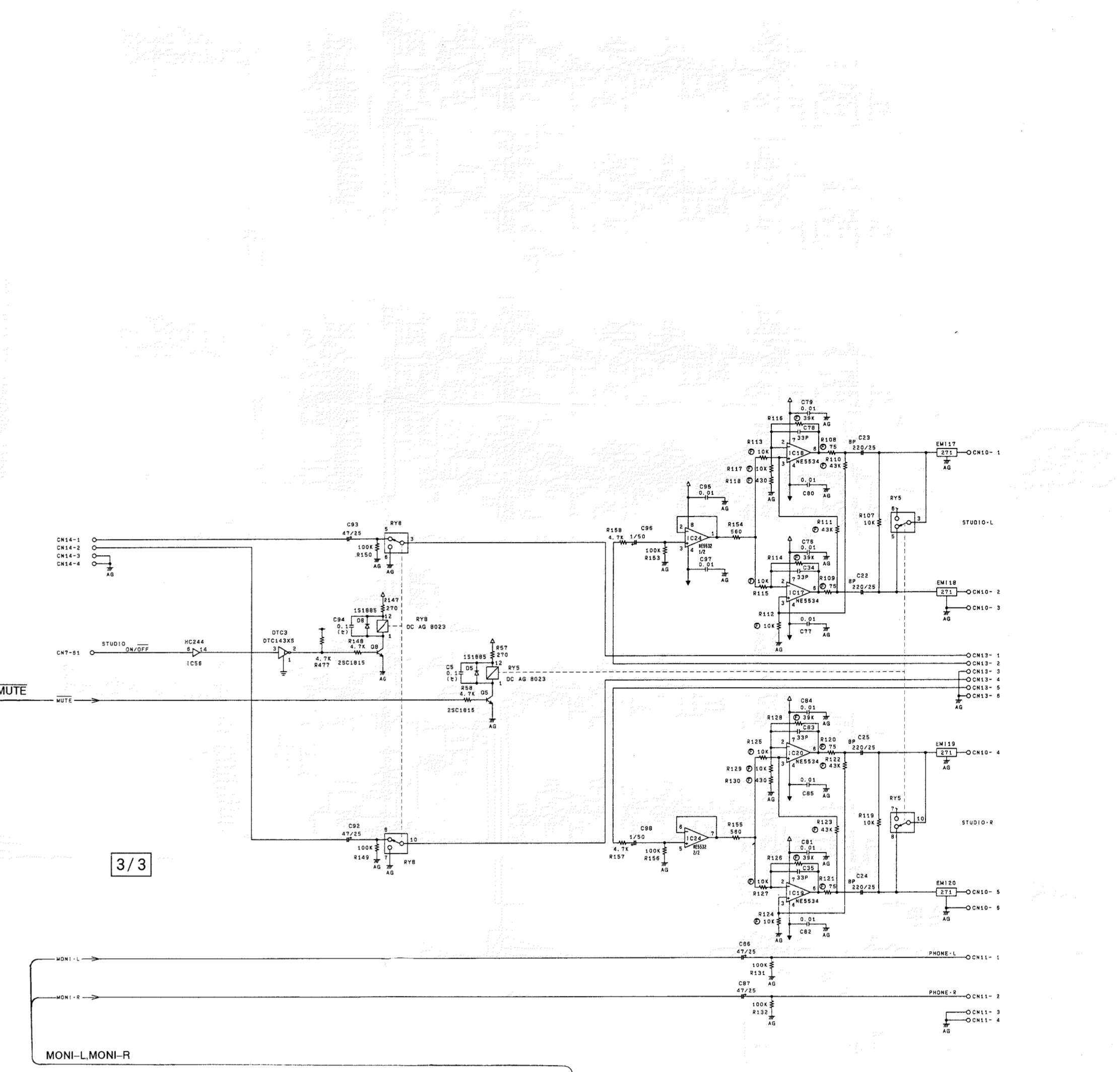
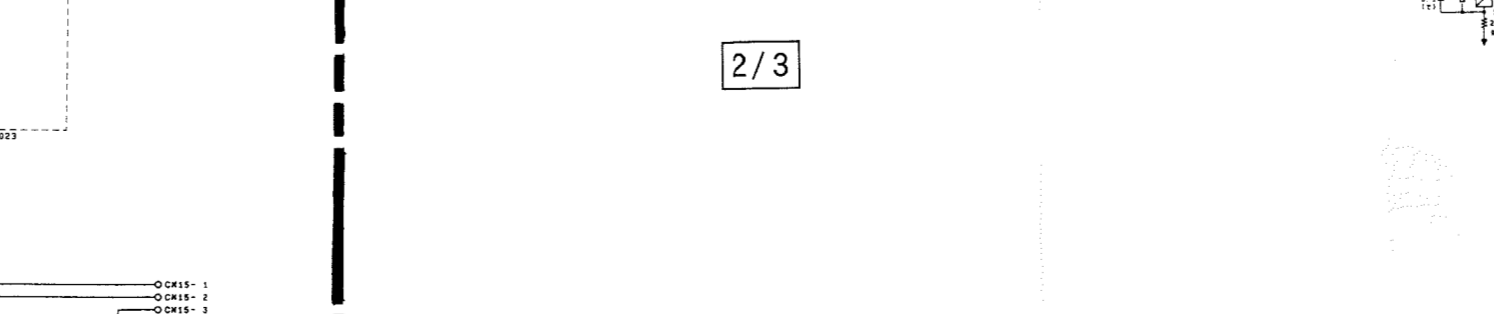
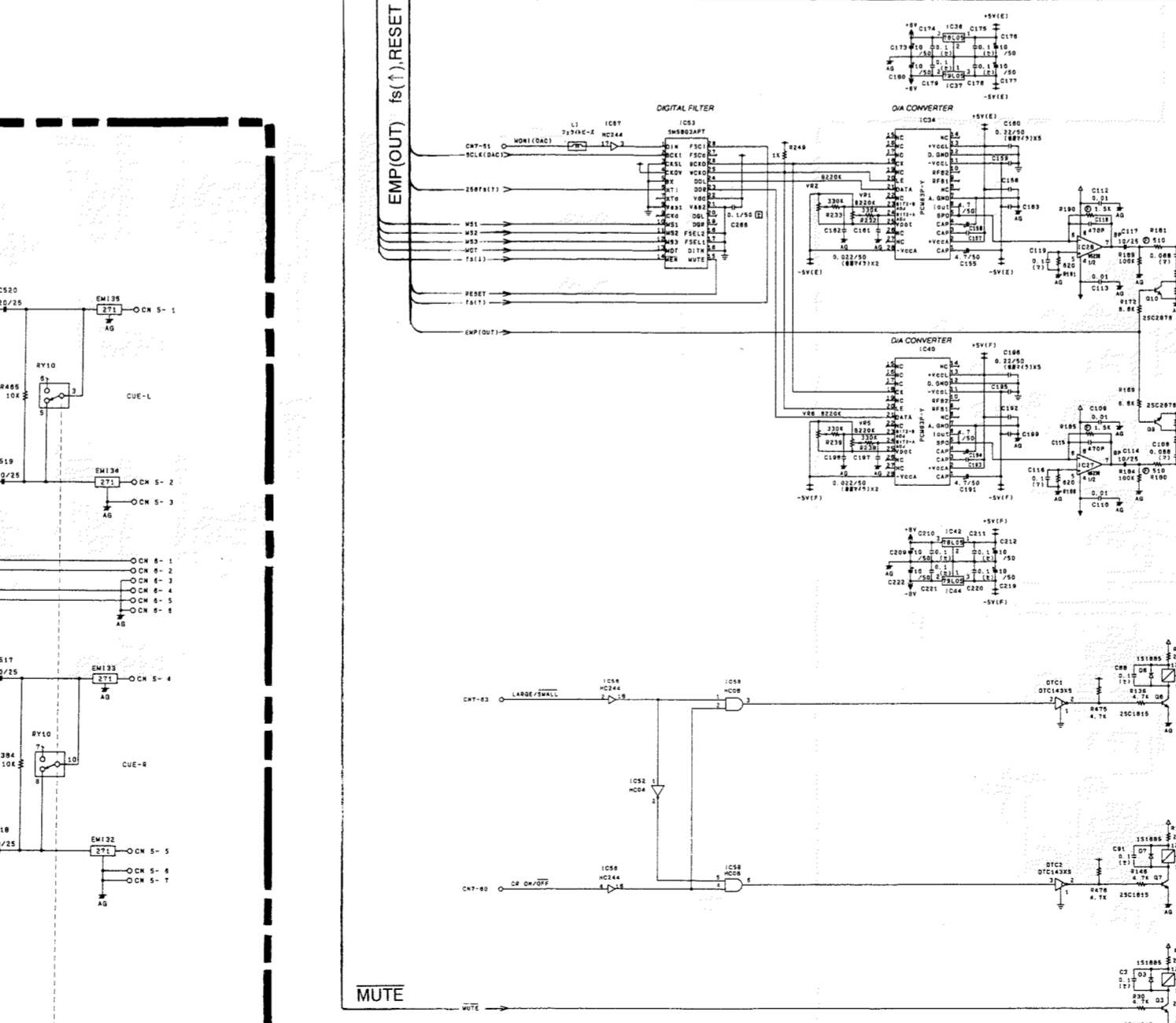
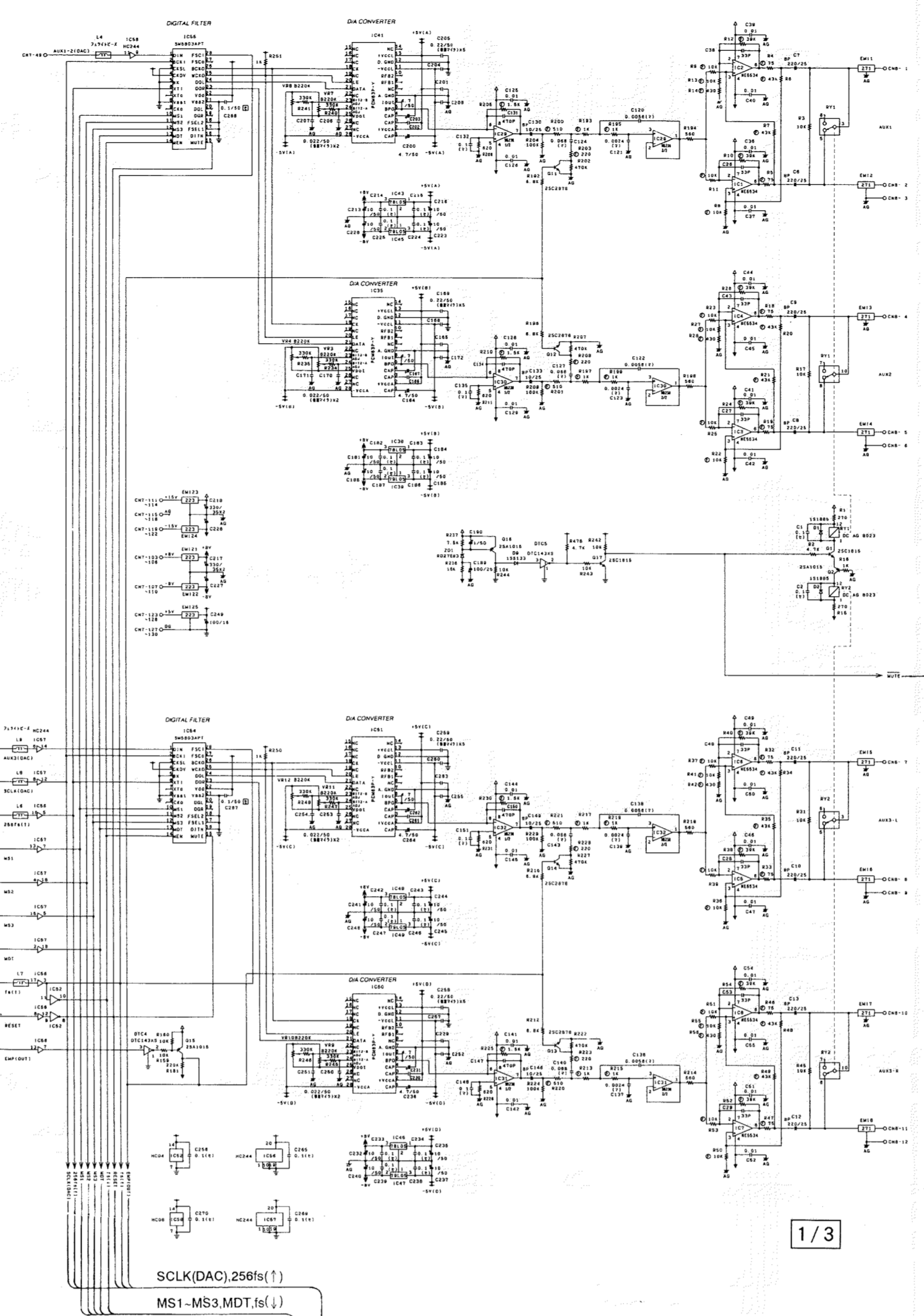
Ref. No.	Part No.	Description	部品名	Remarks	ランク
		<ACCESSORIES>	<付属品>		
A	VG567500	RAM Card	MCD-84 RAMカード		23
B	VF739800	D-SUB Cable	25P 5m D-SUBケーブル	STRAIGHT 16000	26
C	VJ132100	D-SUB Cable	25P 17JE D-SUBケーブル	CROSS 11000	21
D	VD996300	Cascade Cable	DIN8P 3m カスケードケーブル	3500	12
E	--	Floppy Disk	SYSTEM DISK	1000K 3.5-inch	
F	--	Floppy Disk	BLANK DISK	1000K 3.5-inch	
G	--	Floppy Disk	HEAD PROTECT	1000K 3.5-inch	
		<SERVICE PARTS>	<サービス専用部品>		
	TX800230	Stay	ステー		11
	TX800220	Extension Board Set	延長基板セット		



ANA 1/2 CIRCUIT DIAGRAM (Version C)

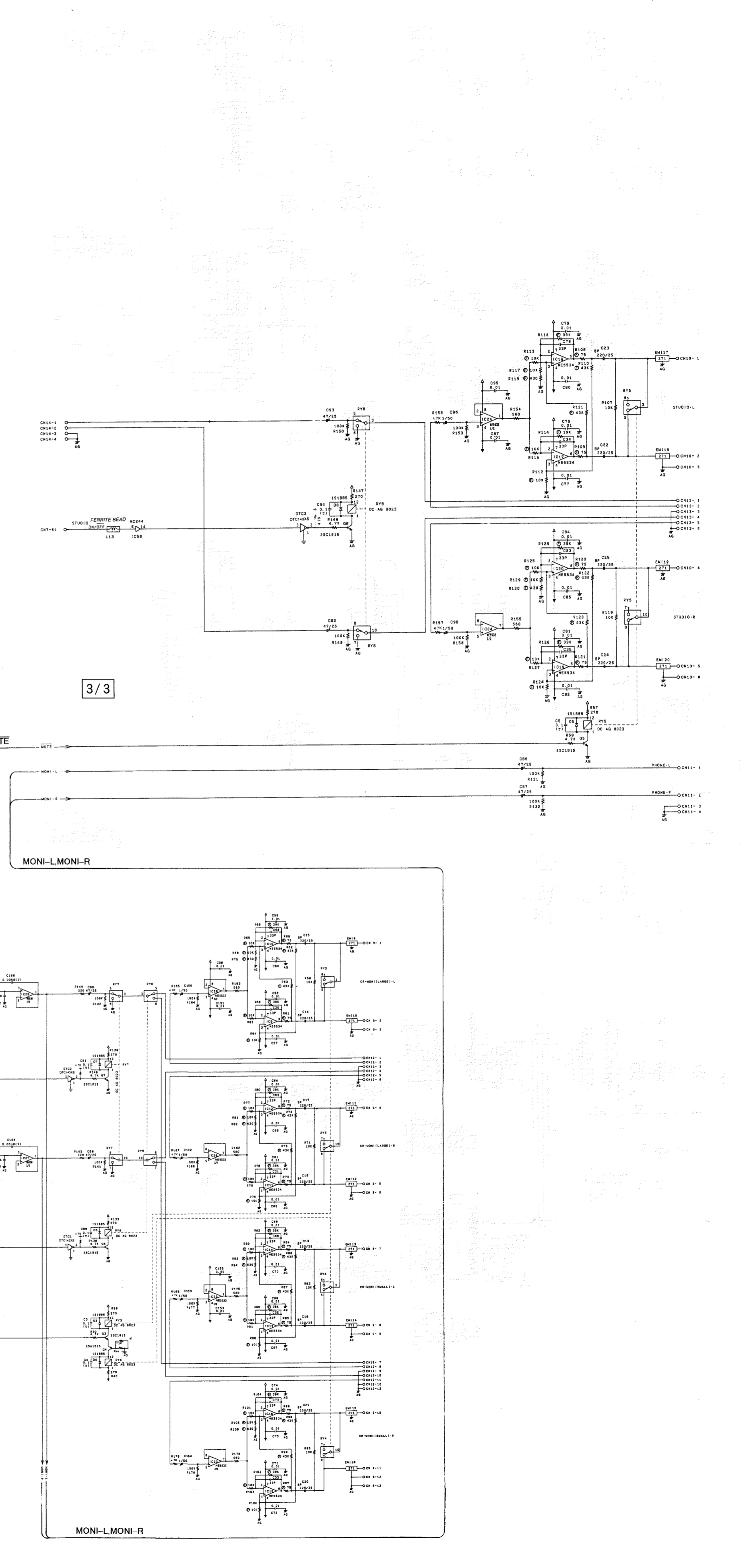
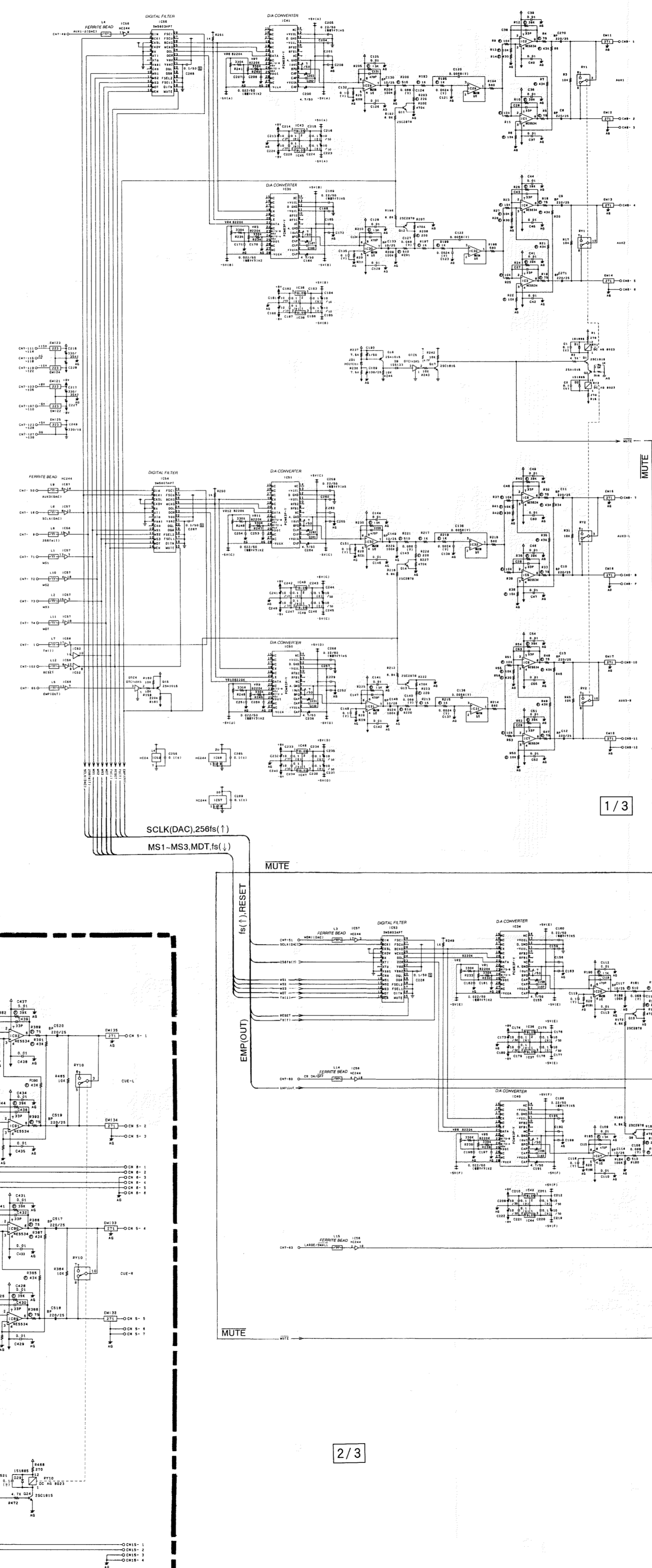
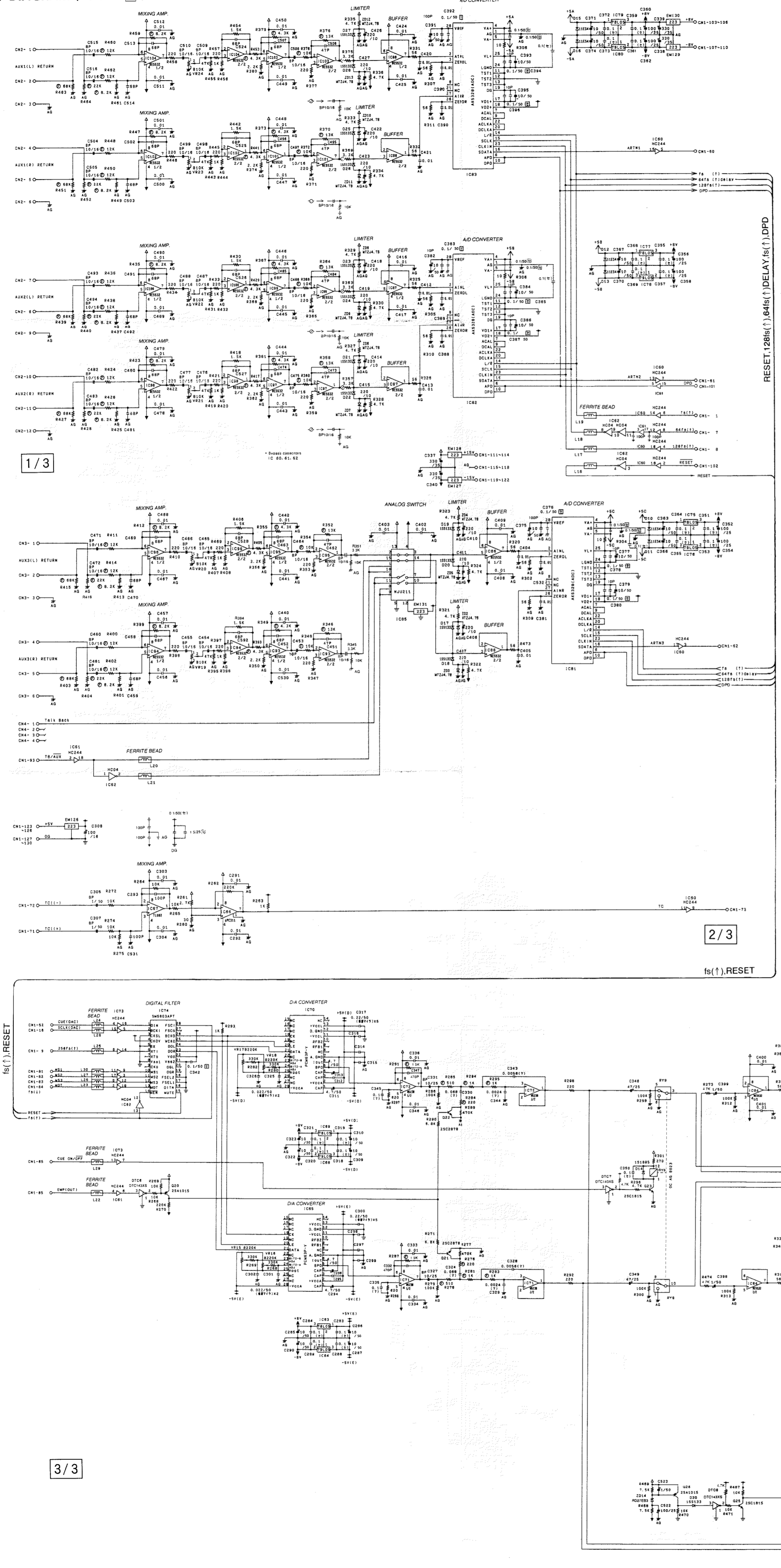


ANA 2/2 CIRCUIT DIAGRAM (Version C)

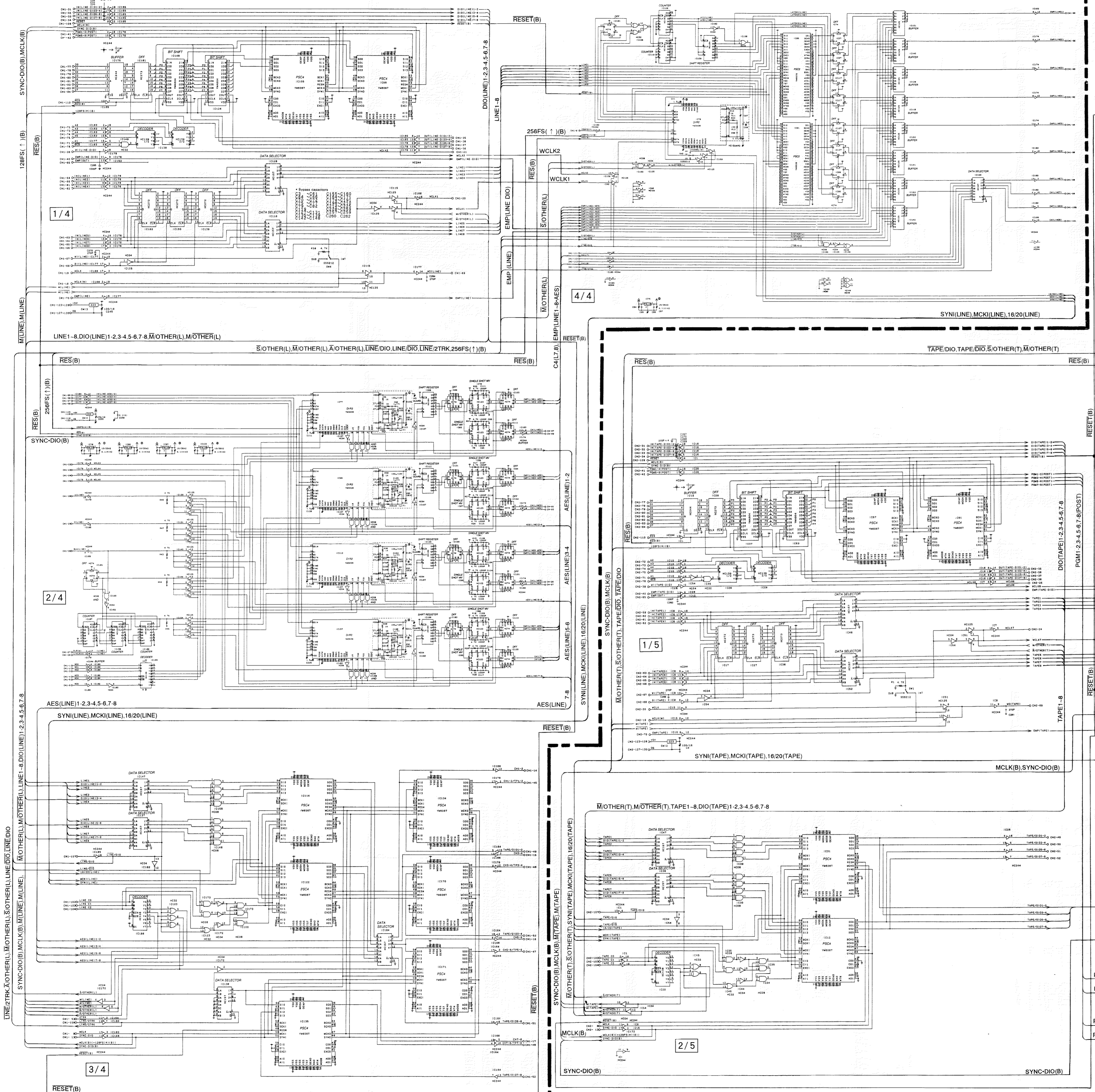


ANA1/2 CIRCUIT DIAGRAM (Version B)

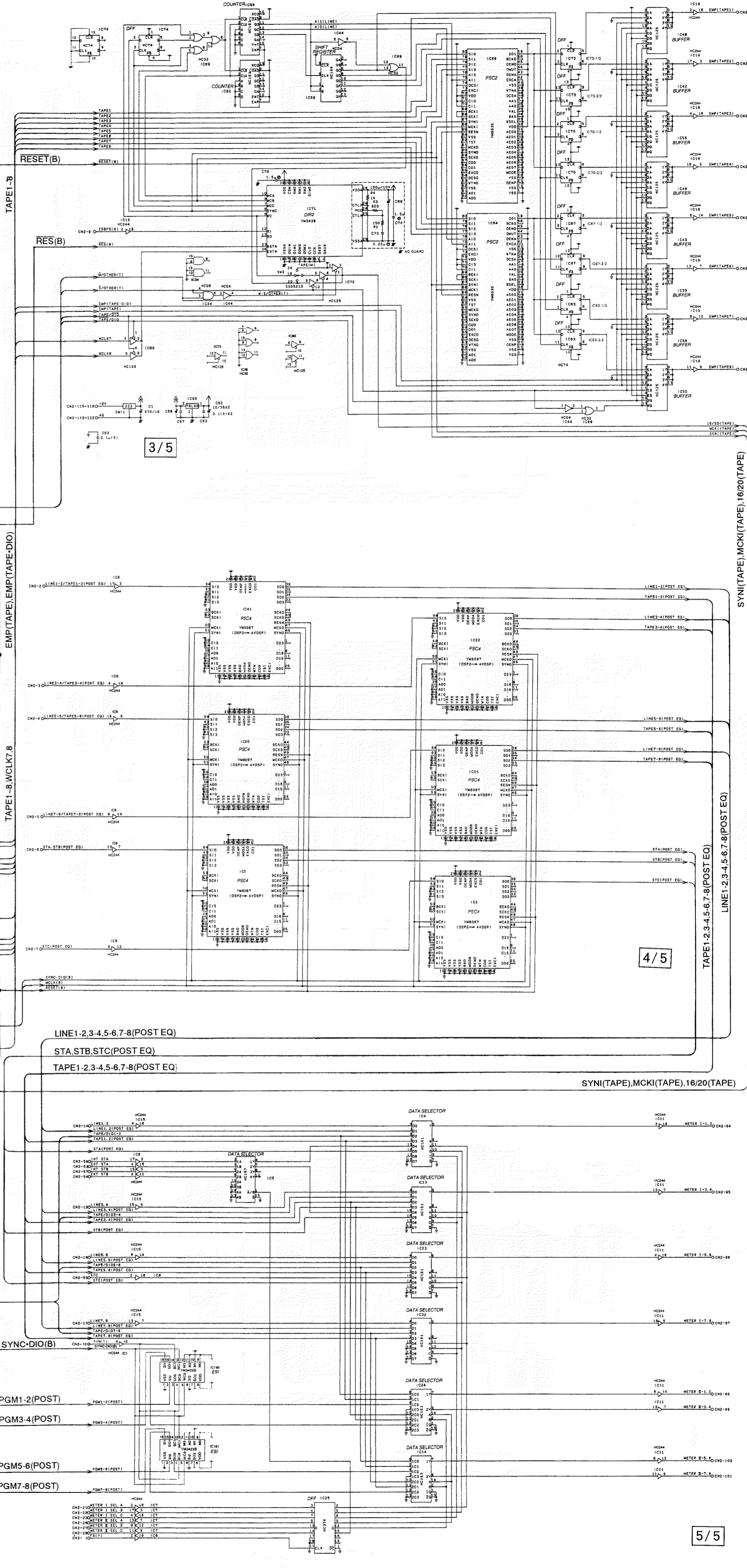
ANA2/2 CIRCUIT DIAGRAM (Version B)

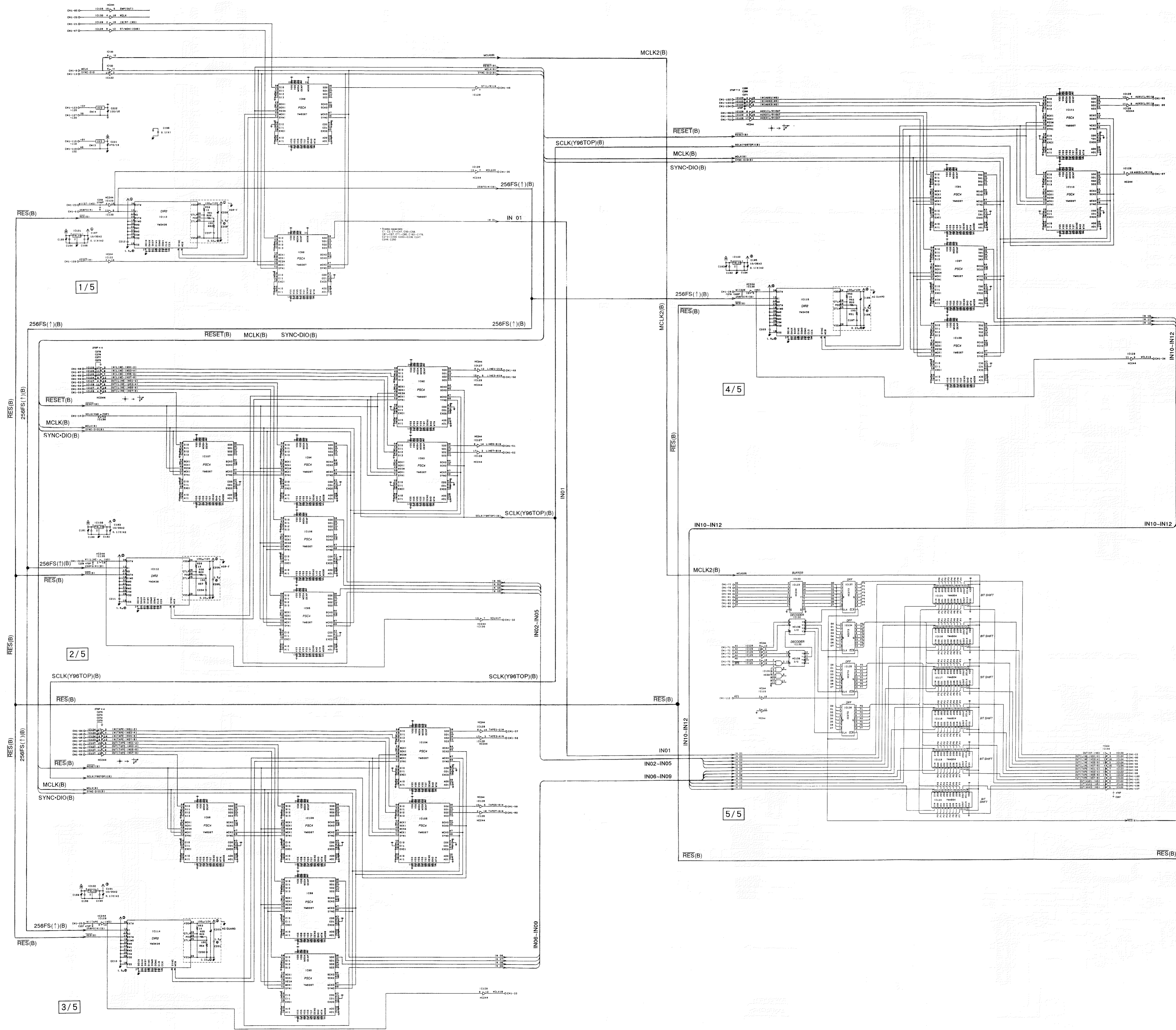


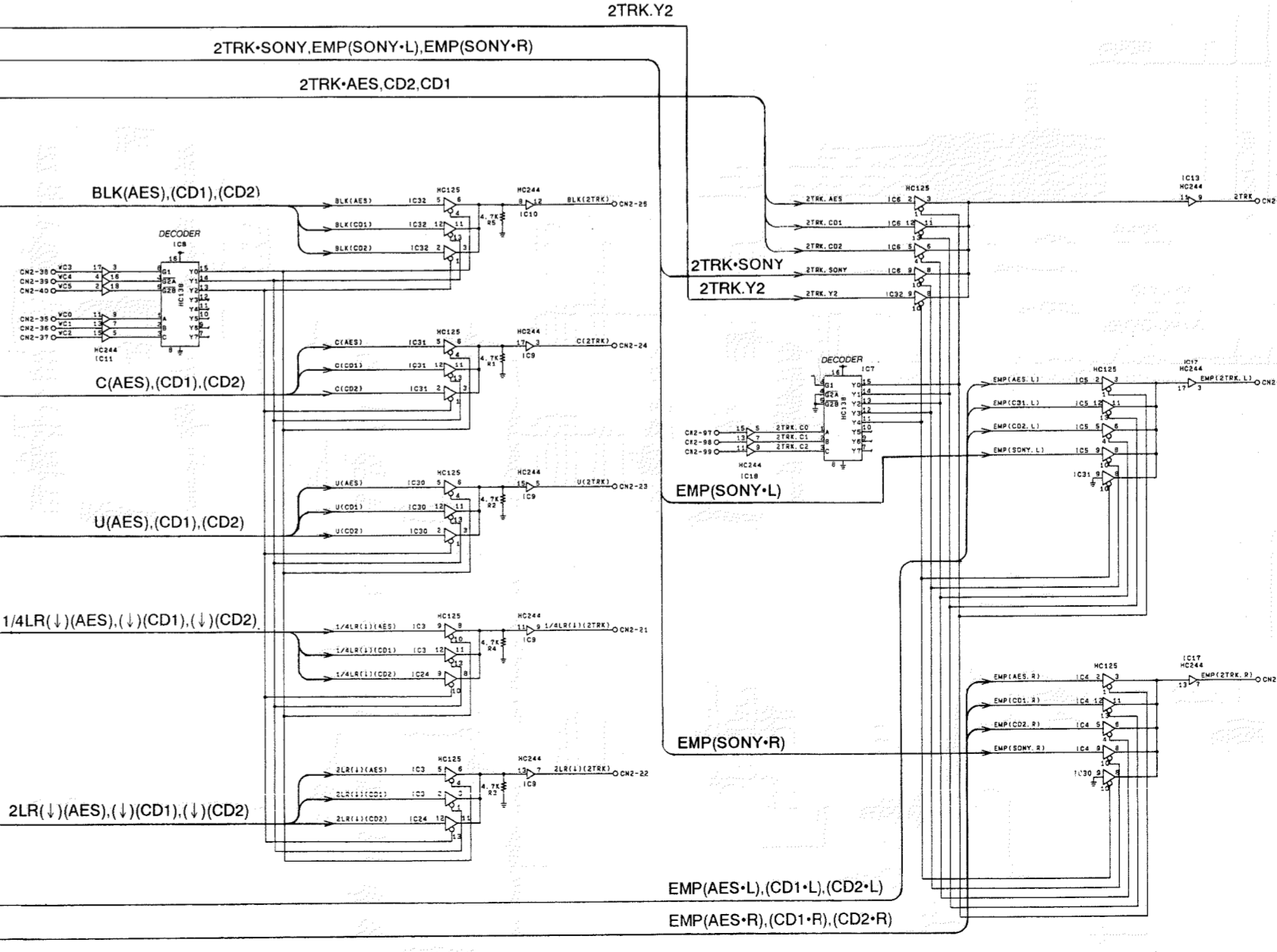
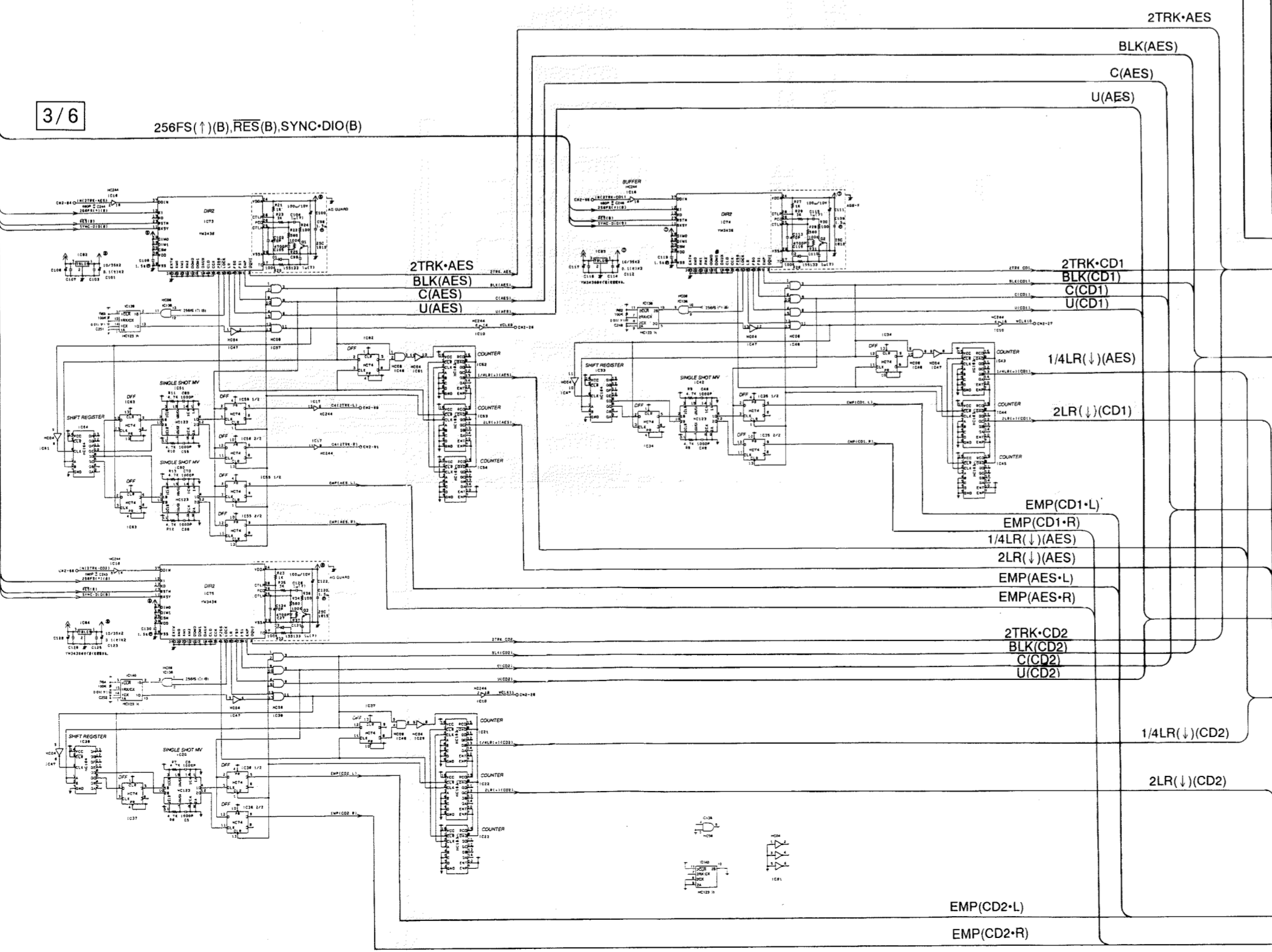
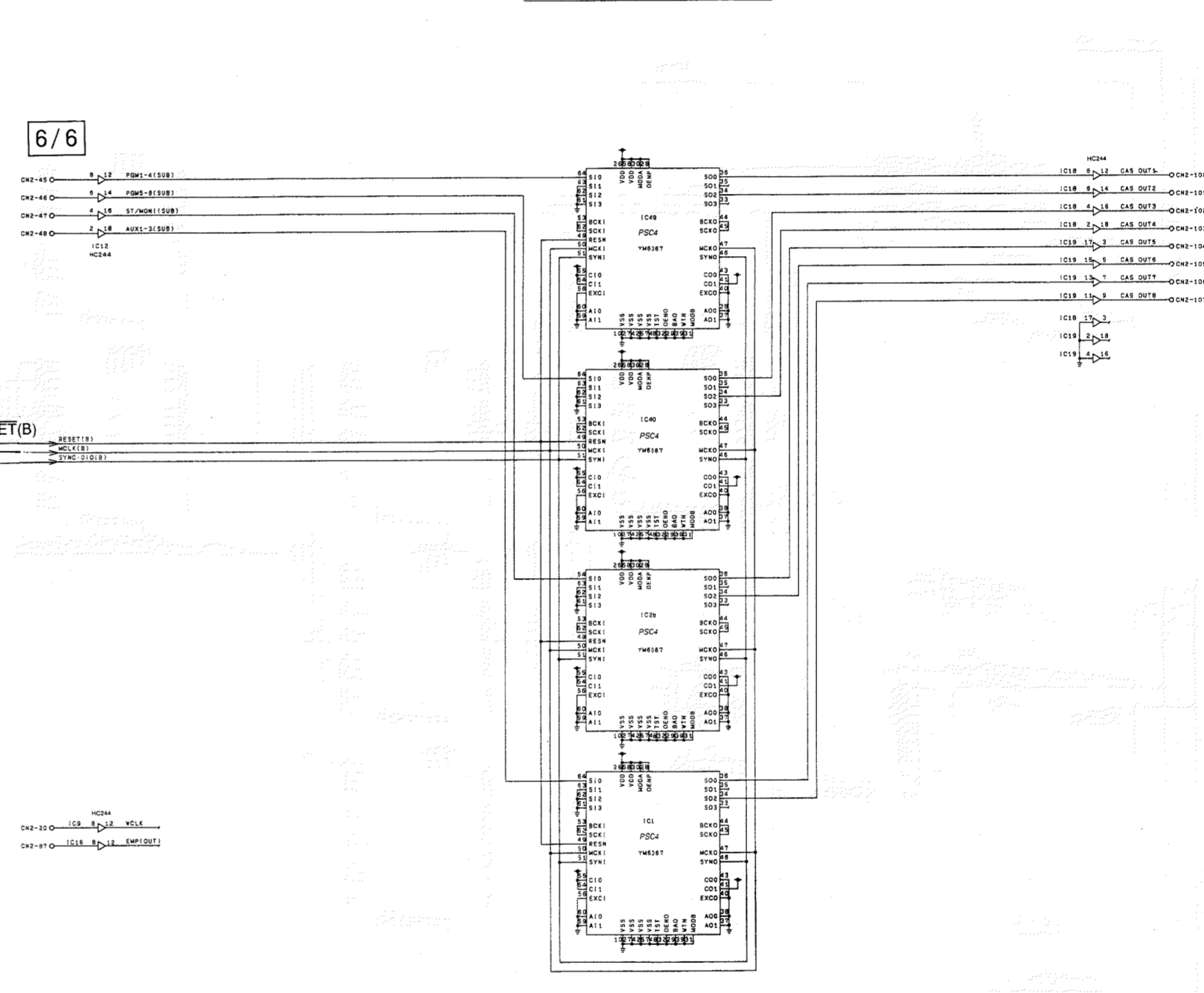
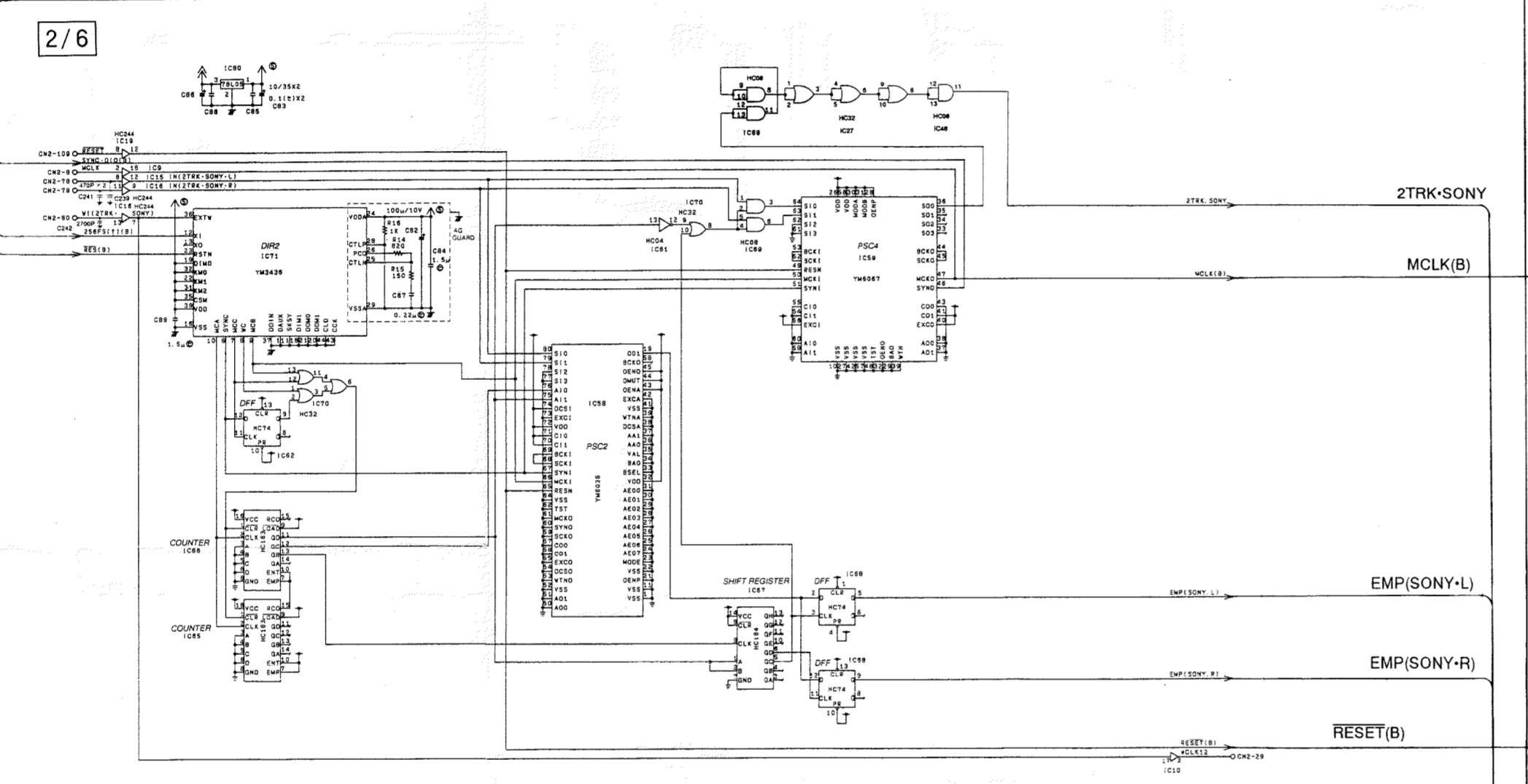
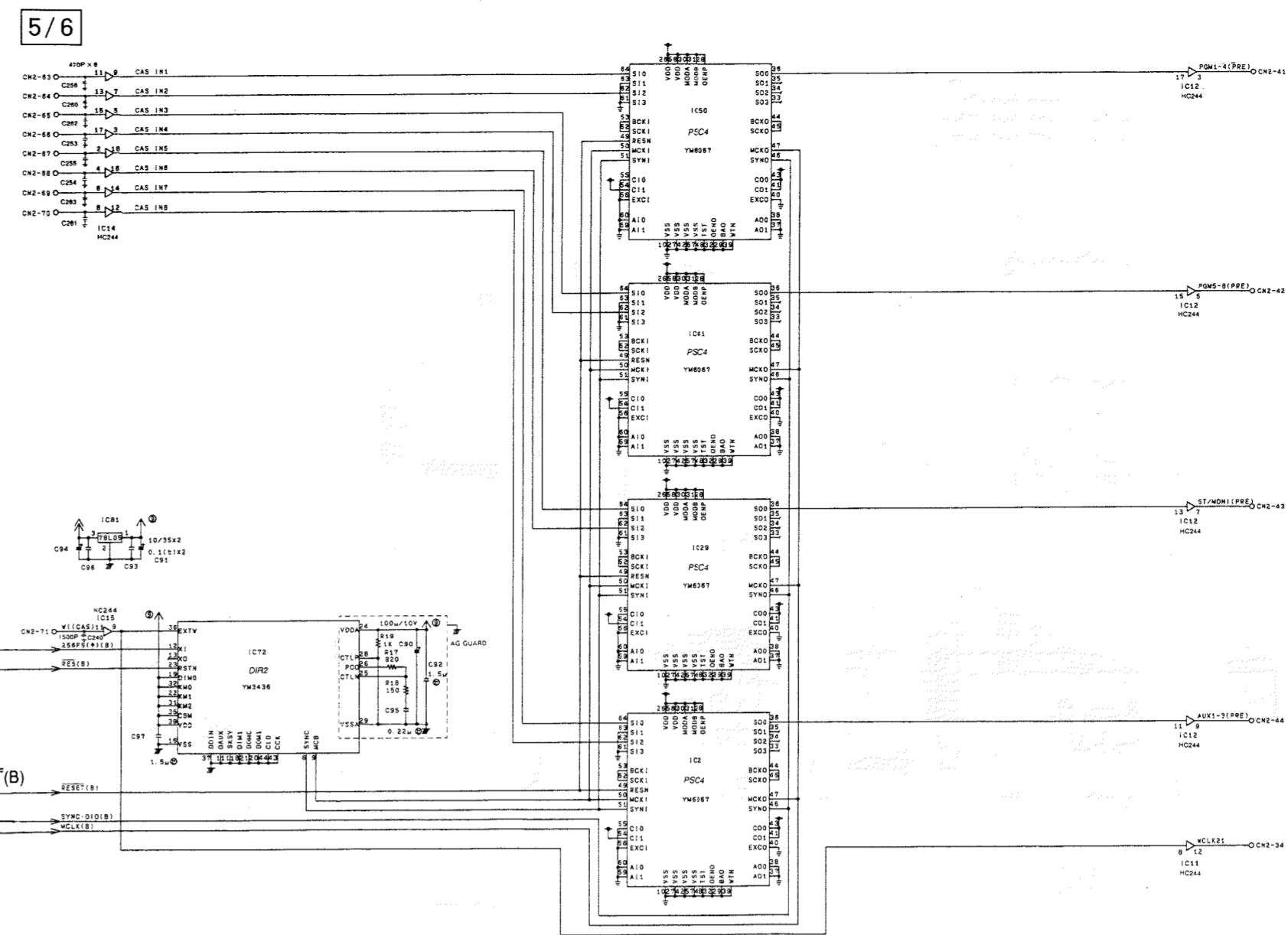
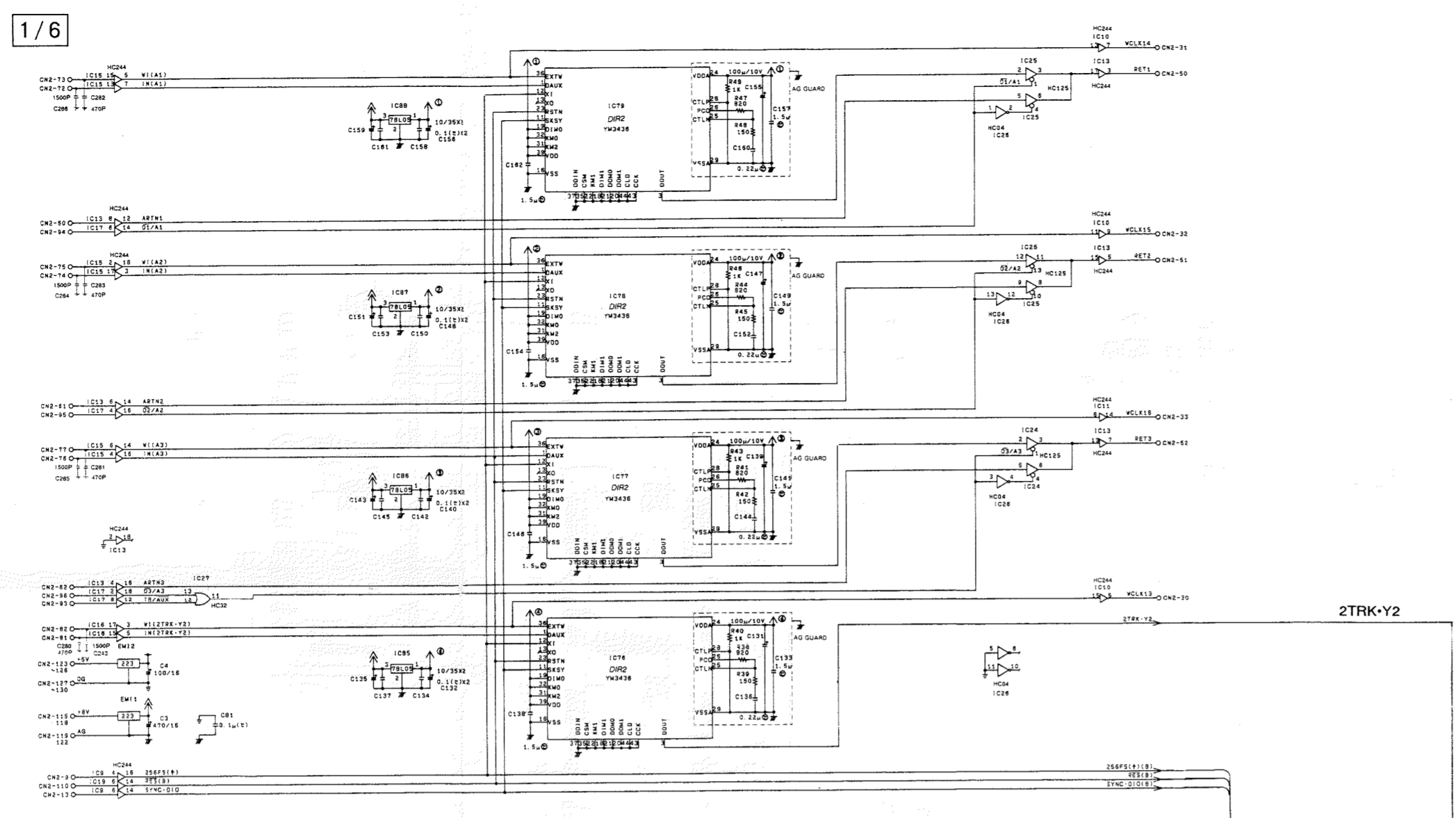
● CIN1/2 CIRCUIT DIAGRAM

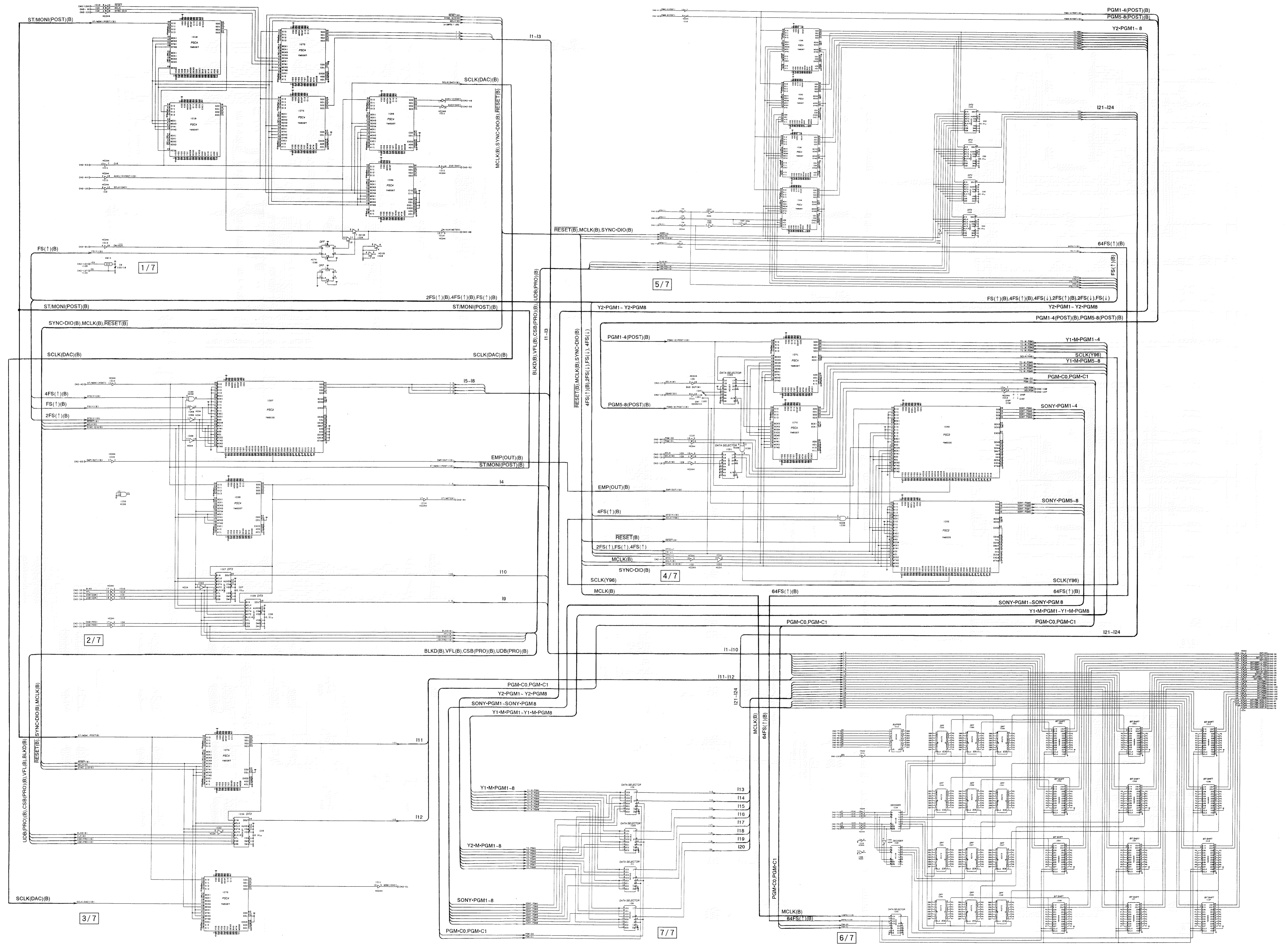


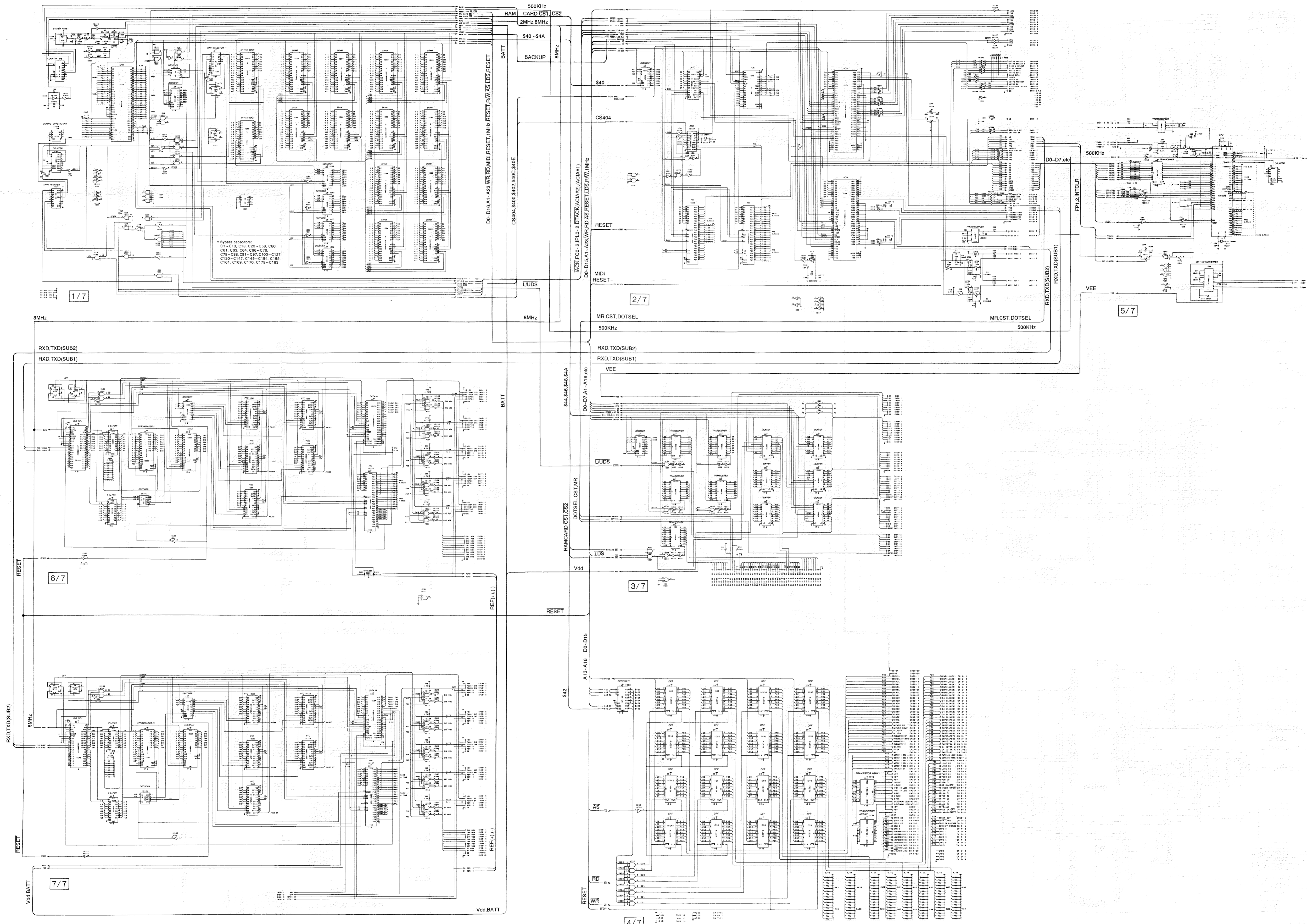
● CIN2/2 CIRCUIT DIAGRAM

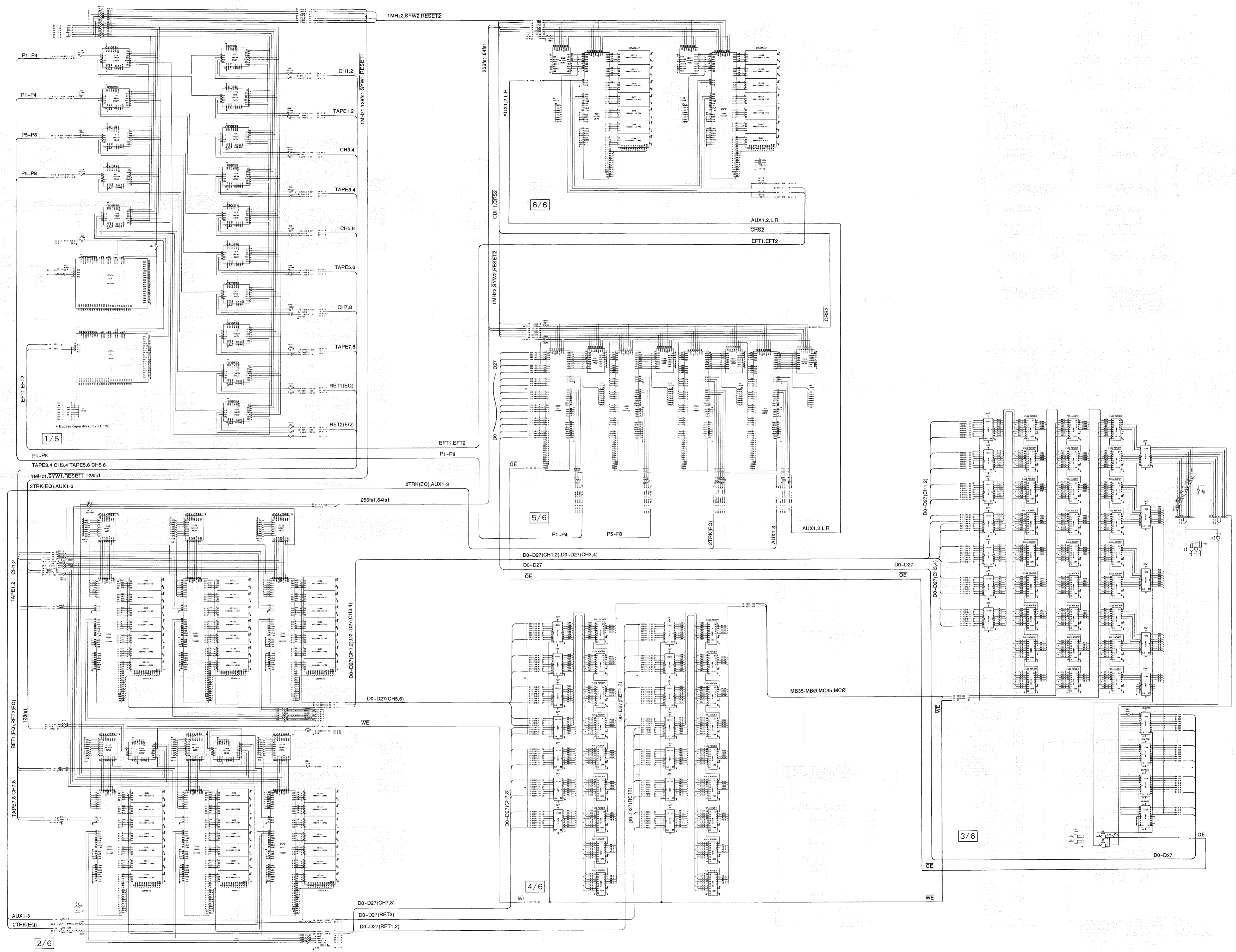




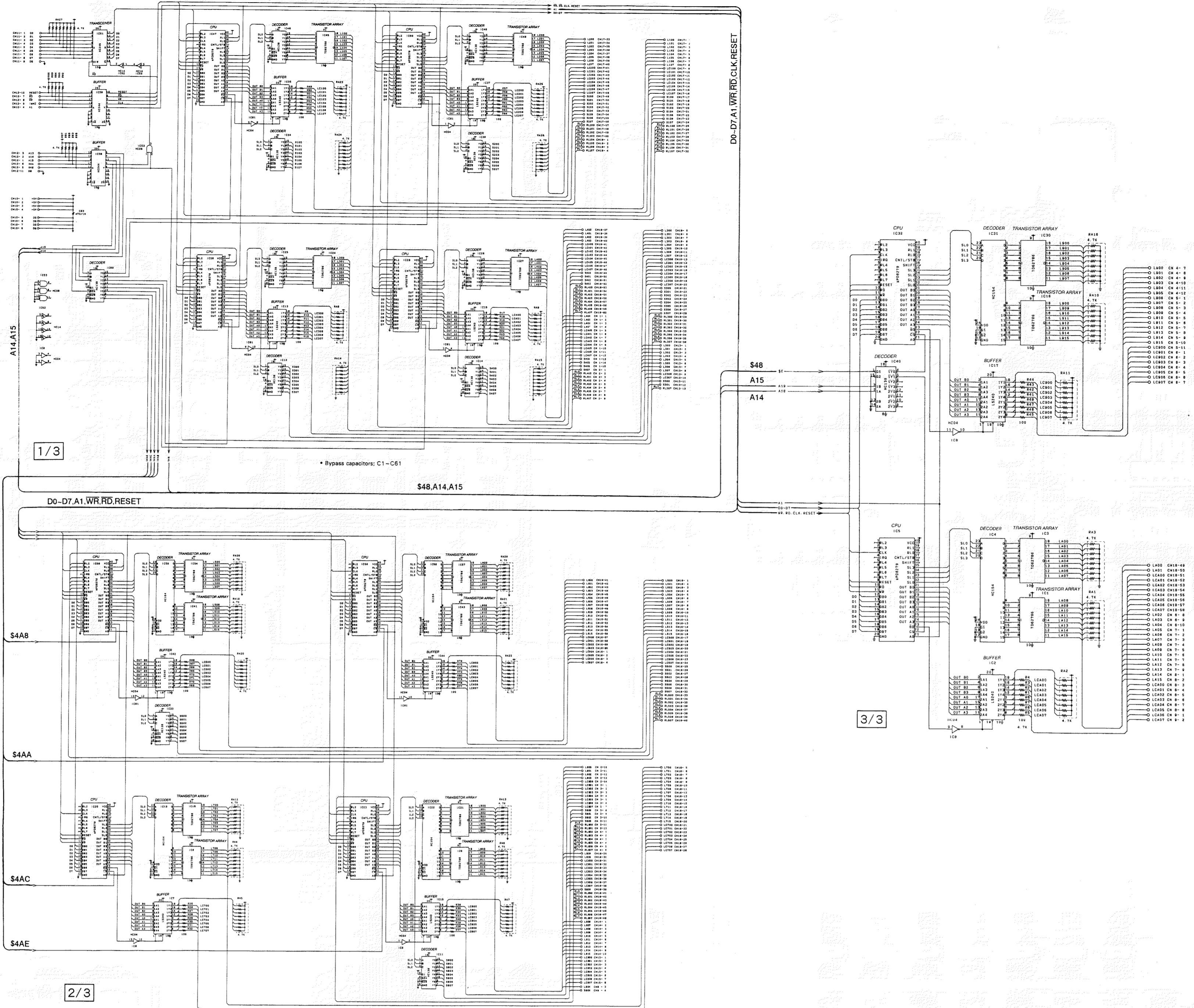




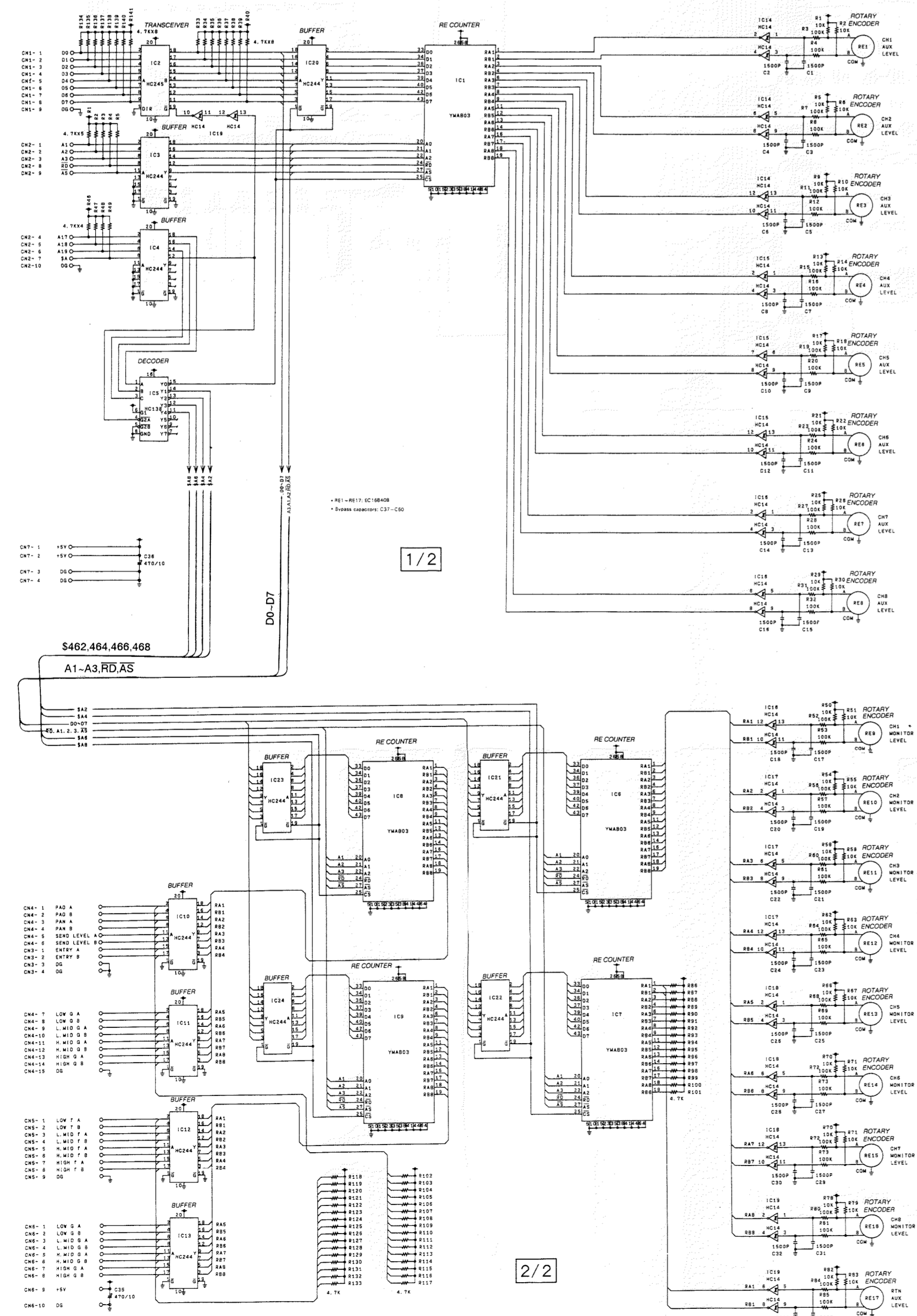




PND CIRCUIT DIAGRAM



REL CIRCUIT DIAGRAM



PMD CIRCUIT DIAGRAM

