

SONY[®]

COMPUTING UNIT
BCU-100

MEMORY EXTENSION ADAPTER
BKCU-EX1

MEMORY MODULE 8GB
BKCU-MY8D

VIDEO DISPLAY BOARD
BKCU-VD1

**ZE
GO**

MAINTENANCE MANUAL
1st Edition (Revised 2)

⚠️ 警告

このマニュアルは、サービス専用です。
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、
人身事故につながることがあります。
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

⚠️ WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠️ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠️ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

安全のために、周辺機器を接続する際は、過大電圧を持つ可能性があるコネクターを以下のポートに接続しないでください。

: NETWORK-1, 2 コネクター

上記のポートについては本書の指示に従ってください。

For safety, do not connect the connector for peripheral device wiring that might have excessive voltage to the following port(s).

: NETWORK-1 to 2 connector

Follow the instructions for the above port(s).

BCU-100	Serial No. 10001 and Higher
BKCU-EX1	Serial No. 10001 and Higher
BKCU-MY8D	Serial No. 10001 and Higher
BKCU-VD1	Serial No. 10001 and Higher

注意

指定以外の電池に交換すると、破裂する危険があります。

使用済の電池は、説明書に従って処理してください。

ADVARSEL

Lithiumbatteri - Ekspløsionsfare.
Ved utskifting benyttes kun batteri som
anbefalt av apparatfabrikanten.

Bruk batteri returneres
apparateleverandøren.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type
recommended by the manufacturer.

Dispose of used batteries according to the
manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en likvärdig typ
som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt gällande
föreskrifter.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch
der Batterie.

Ersatz nur durch denselben oder einen vom
Hersteller empfohlenen ähnlichen Typ. Entsorgung
gebrauchter Batterien nach Angaben des
Herstellers.

VAROITUS

Paristo voi räjähtää jos se on virheellisesti
asennettu.

Vaihda paristo ainoastaan laitevalmistajan
suosittelemaan tyypin.

Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

ATTENTION

Il y a danger d'explosion s'il y a remplacement
incorrect de la batterie.

Remplacer uniquement avec une batterie du même
type ou d'un type équivalent recommandé par le
constructeur.

Mettre au rebut les batteries usagées conformément
aux instructions du fabricant.

警告

万一、異常が起きた際に、お客様が電源を切ること
ができるように、設置の際には、機器近くの固定配
線内に専用遮断装置を設けるか、機器使用中に、容
易に抜き差しできるコンセントに電源プラグを接続
してください。

WARNING

When installing the unit, incorporate a readily
accessible disconnect device in the fixed wiring, or
connect the power cord to a socket-outlet which must be
provided near the unit and easily accessible, so that the
user can turn off the power in case a fault should occur.

WARNUNG

Beim Einbau des Geräts ist daher im Festkabel ein
leicht zugänglicher Unterbrecher einzufügen, oder das
Netzkabel muß mit einer in der Nähe des Geräts
befindlichen, leicht zugänglichen Wandsteckdose
verbunden werden, damit sich bei einer
Funktionsstörung die Stromversorgung zum Gerät
jederzeit unterbrechen läßt.

ADVARSEL!

Lithiumbatteri-Ekspløsionsfare ved fejlagtig
håndtering.

Udskiftning må kun ske med batteri
af samme fabrikat og type.

Levér det brugte batteri tilbage til leverandøren.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual of Computing Unit BCU-100 and the optional products.

This manual describes the informations (parts list, block diagrams, schematic diagrams, board layouts, etc..) that premises the parts level service.

Related manuals

Besides this Maintenance Manual, the following manuals are prepared for the BCU-100 and the optional products.

- **Operation Manual (Supplied with BCU-100)**

This manual describes the application and operation of BCU-100.

- **Installation Manual (Supplied with BCU-100)**

This manual describes the information on installing of BCU-100.

- **Technical Manual (Available on request)**

This manual describes the system software for the BCU-100.

For obtaining, contact your local Sony Sales Office/Service Center.

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**

This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in Broadcast and Professional equipment.

The maintenance manual contains a complete list of semiconductors and their ID Nos., and thus should be used together with the CD-ROM.

Part number: 9-968-546-06

Trademarks

Trademarks and registered trademarks used in this manual are follows.

- Ethernet is a registered trademark of Xerox Corporation.

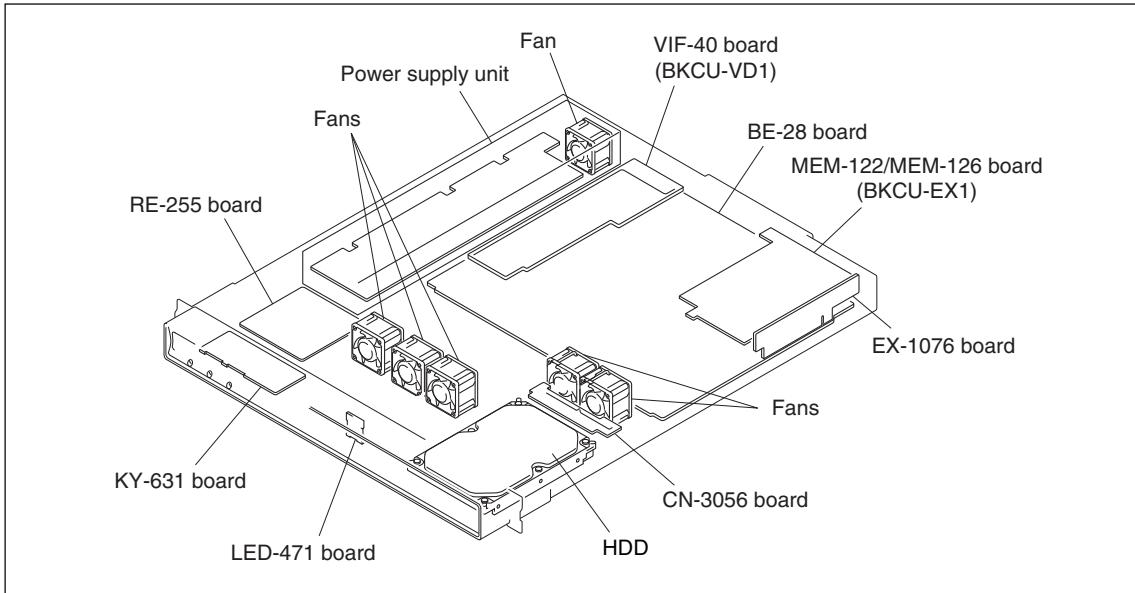
- FlexIO is a registered trademark of Rambus Inc.

- RSX is a registered trademark of Sony Computer Entertainment Inc.

Section 1

Service Overview

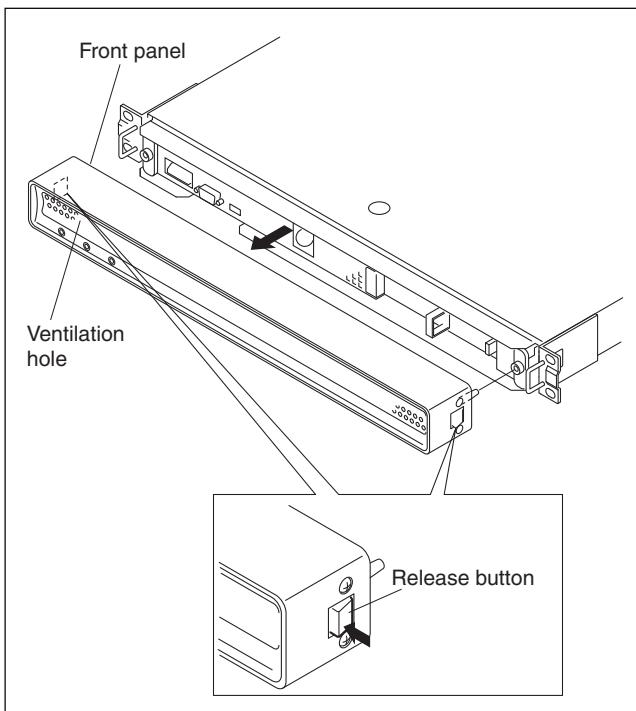
1-1. Main Parts Location



1-2. Removal of Cabinet

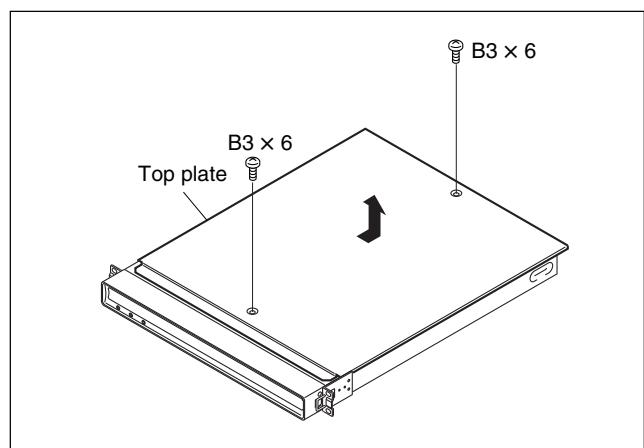
Front panel

While pushing simultaneously the release button of right and left side, remove the front panel in the direction of an arrow as shown below.



Top plate

Remove the two screws (B3 × 6) and remove the top plate to the arrow.



1-3. Replacing the Main Parts

1-3-1. Replacing the Power Supply Unit

Note

Power supply unit is a periodic replacement part.
Replacing the power supply unit every four years is recommended.

Replacing part: Power ASSY

Part number: A-1531-936-A

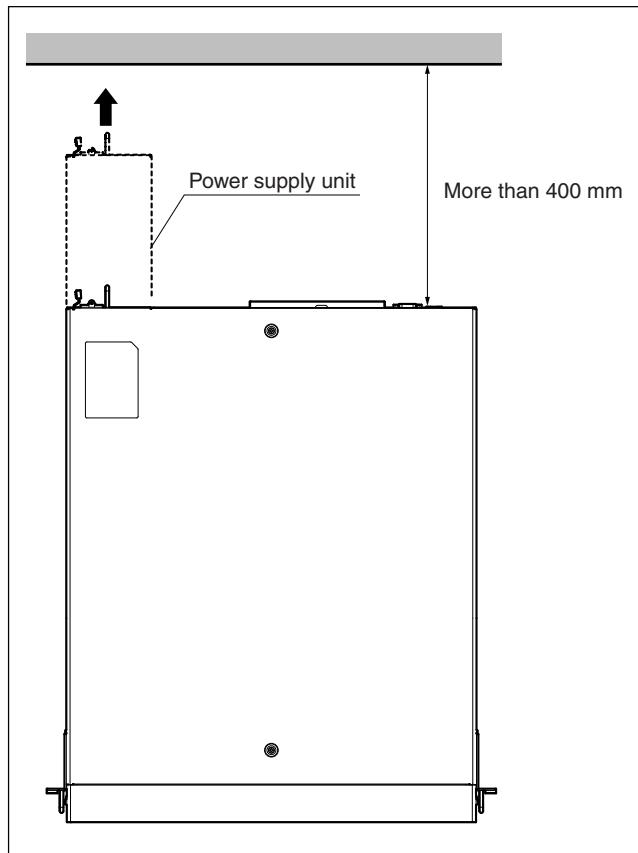
WARNING

Be sure to unplug the power supply cord from the outlet before starting the replacement work.

Note

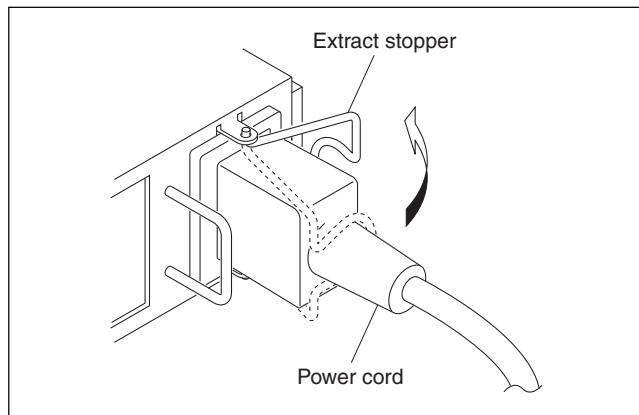
The replacement work should be performed from the rear panel side of BCU-100.

A space of more than 400 mm (size of the power supply unit) is required behind the rear panel.

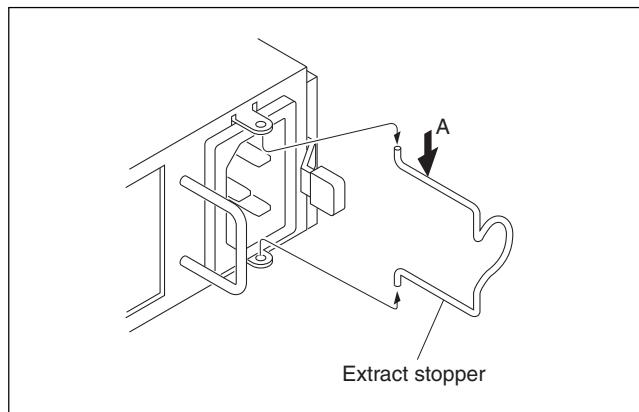


Preparation

- Move the extract stopper in the direction of the arrow and unplug the power supply cord from the AC inlet.

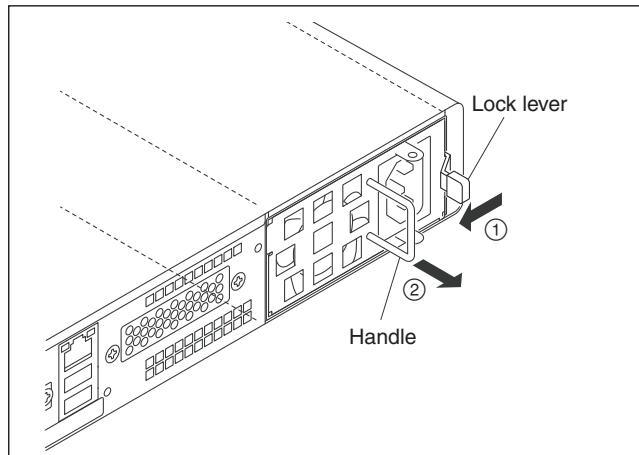


- Press portion A to remove the extract stopper from the hole of the AC inlet.



Removal

- While pressing the lock lever of the power supply unit in the direction of arrow ①, pull out the power supply unit by the handle in the direction of arrow ②.



Installation

1. Insert a new power supply unit from the rear panel side until the lock lever locks (until the locking sound is heard).

1-3-2. Replacing the Fan

Note

Fan is a periodic replacement part.
Replacing the fan every four years is recommended.

Replacing part: DC fan (40 square)

Part number: △1-787-737-11

WARNING

Be sure to unplug the power supply cord from the outlet before starting the replacement work.

1. For fans ①, ②, and ③

Removal

1. Remove the top panel. (Refer to Section 1-2.)
2. Remove the three screws (PSW3 × 6), and remove fan holder (1).
3. Remove the fan that you want to replace, and open the wire holder to disconnect the harnesses of the fan from the following connector.

Fan ① : Connector CN6111

Fan ② : Connector CN6106

Fan ③ : Connector CN6538

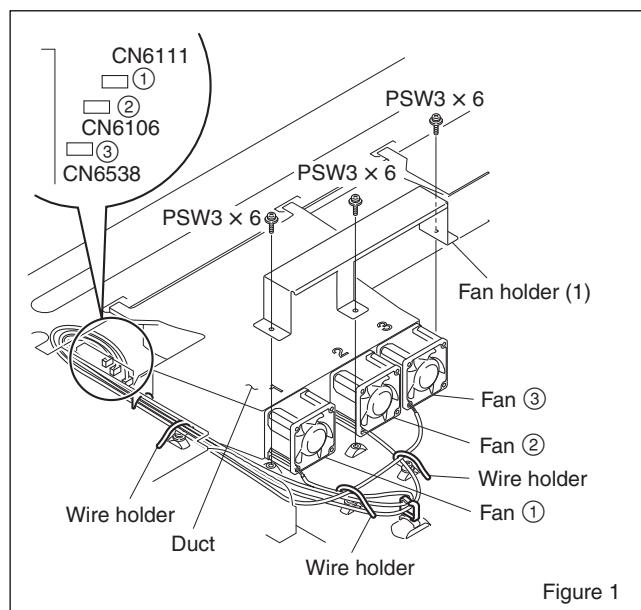


Figure 1

Installation

1. Install a new fan by aligning it with the fan guides (three positions) on the duct (black).

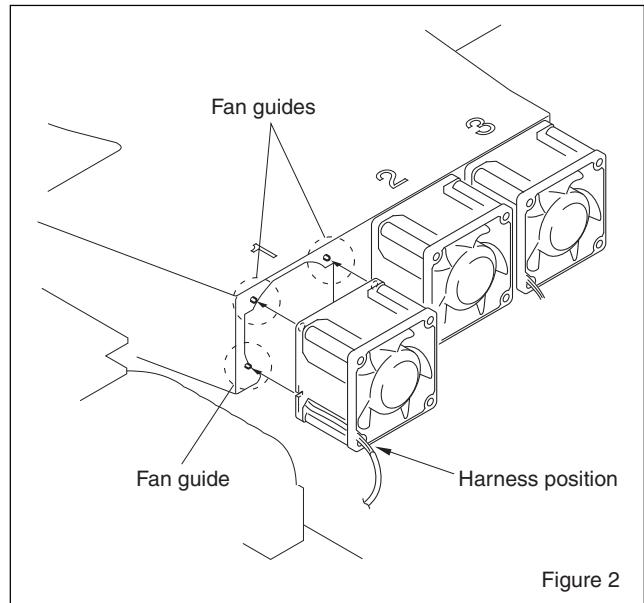


Figure 2

2. Install fan holder (1) with the three screws (PSW3 × 6).
 3. Connect the harness of the fan.
- #### Notes
- Install the fan so that the harness of the fan should be positioned as shown in Figure 2.
 - Route each harness as shown in Figure 1.
4. Install the top panel.
 5. After replacing the fan, reset the Hours Meter of the replaced fan and check the operation. (For resetting the Hours Meter, refer to “FAN Replacement” in “1-9-4. Diag Mode (Offline Defect Diagnosis Function)”, and for checking the operation, refer to “Basic Check”.)

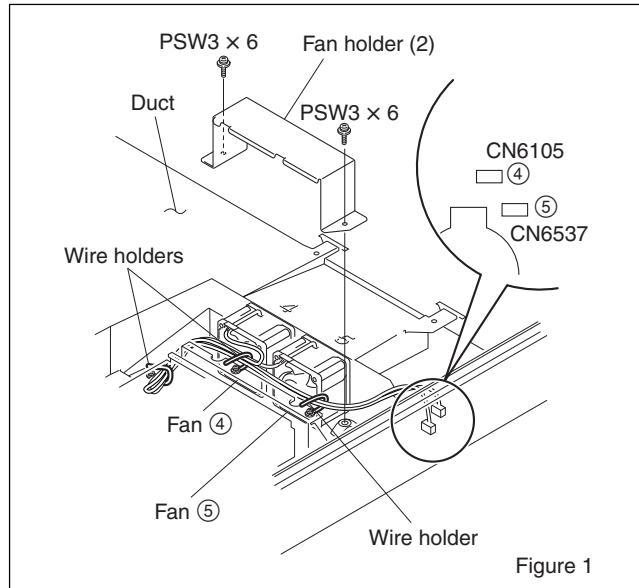
2. For fans ④ and ⑤

Removal

1. Remove the top panel. (Refer to Section 1-2.)
2. Remove the two screws (PSW3 × 6), and remove fan holder (2).
3. Remove the fan that you want to replace, and open the wire holder to disconnect the harnesses of the fan from the following connector.

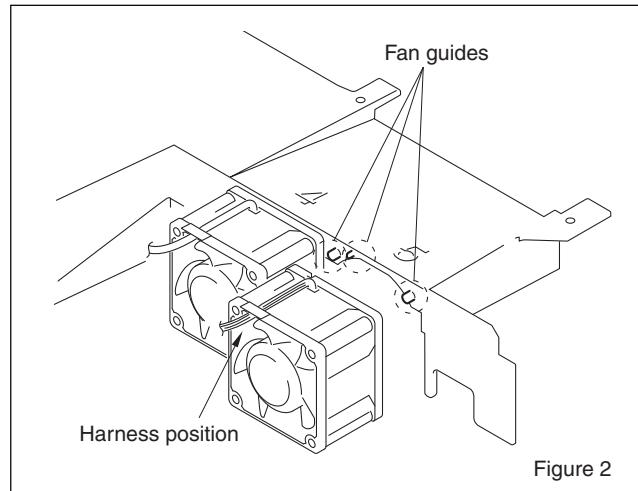
Fan ④ : Connector CN6105

Fan ⑤ : Connector CN6537



Installation

1. Install a new fan by aligning it with the fan guides (three positions) on the duct (black).



2. Install fan holder (2) with the two screws (PSW3 × 6).
3. Connect the harness of the fan.

Notes

- Install the fan so that the harness of the fan should be positioned as shown in Figure 2.
 - Route each harness as shown in Figure 1.
4. Install the top panel.
 5. After replacing the fan, reset the Hours Meter of the replaced fan and check the operation. (For resetting the Hours Meter, refer to “FAN Replacement” in “1-9-4. Diag Mode (Offline Defect Diagnosis Function)”, and for checking the operation, refer to “Basic Check”.)

1-3-3. Replacing the Fan for the Power Supply Unit

Replacing part: Power Fan ASSY

Part number: △ A-1528-326-A

WARNING

Be sure to unplug the power supply cord from the outlet before starting the replacement work.

Removal

1. Remove the power supply unit.
(Refer to Section 1-3-1.)
2. Remove the seven screws (K3 × 5), and remove the chassis (upper) assembly.
3. Remove the screw (K3 × 5), and remove the front lid.
4. Remove the harness of the fan from connector CN501 on the PS-743 board.
5. Remove the screw (PS3 × 35), and remove the fan.

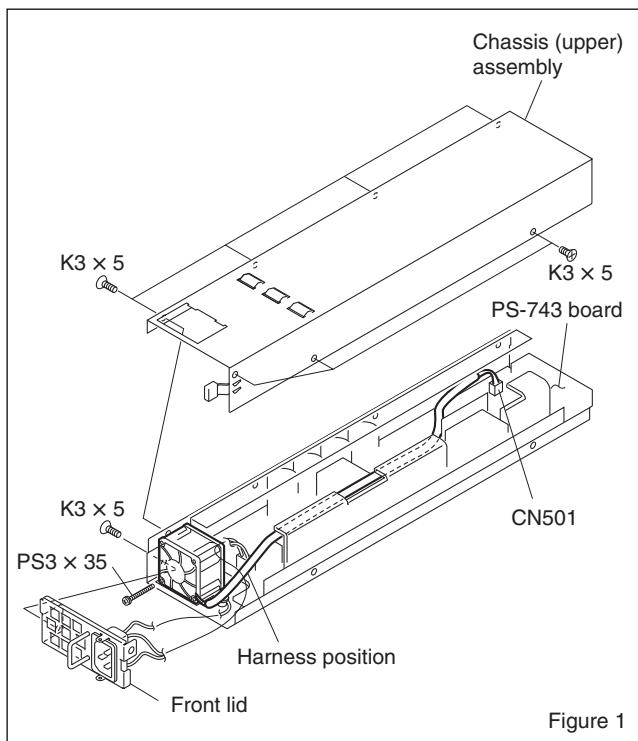


Figure 1

Installation

1. Install a new fan by reversing the removal steps 1 through 5.

Notes

- Route the harness as shown in Figure 1.
- Install the fan so that the harness of the fan should be positioned as shown in Figure 1.

1-3-4. Replacing the Lithium Battery

WARNING

- The lithium battery is the critical component to maintain the safe operation.

Replace the component with the Sony part of which part number appears in the manual developed by Sony.

Replacing the component with any part other than the specified ones may cause fire or electric shock.

- Be sure to unplug the power supply cord from the outlet before starting the replacement work.

CAUTION

When replacing the lithium battery, ensure that the battery is installed with “+” and “-” poles connected to the correct terminals.

Improper connection may cause explosion or leakage resulting in physical injury or in damaging the surrounding materials.

The lithium battery for the real time clock is used for the BE-28 board.

When a battery voltage drop is detected, the message LED on the front panel blinks in blue to warn the voltage drop.

Note

When the battery runs out, the clock data cannot be retained correctly.

Replacing part: Lithium battery (CR2032)

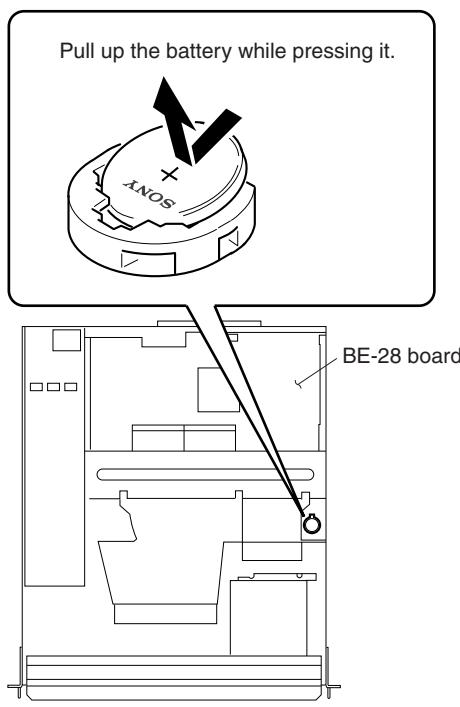
Part number: △ 1-528-174-11

Installation/Removal

Note

When replacing the battery, do not touch the battery directly as this may corrode electrode.

1. Remove the top panel. (Refer to Section 1-2.)
2. Remove the lithium battery from the BE-28 board.



3. Install a new lithium battery.
4. Install the top panel.
5. After replacing the battery, set the date and time. (For details, refer to “Battery Replacement” in “1-9-4. Diag Mode (Offline Defect Diagnosis Function)”).

1-3-5. Replacing the HDD

Replacing part: HDD ASSY

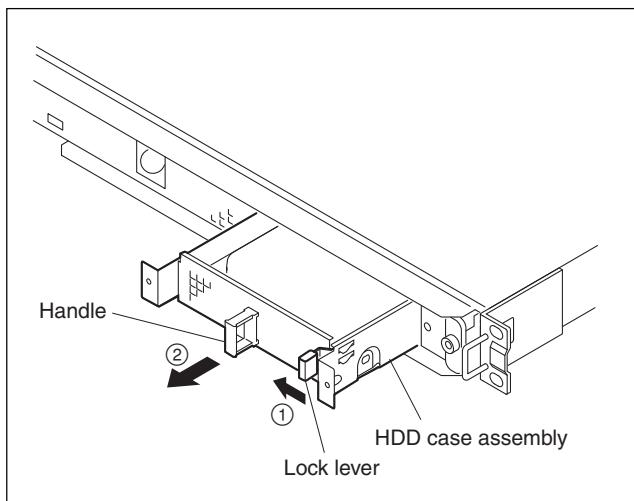
Part number: A-1544-877-A

WARNING

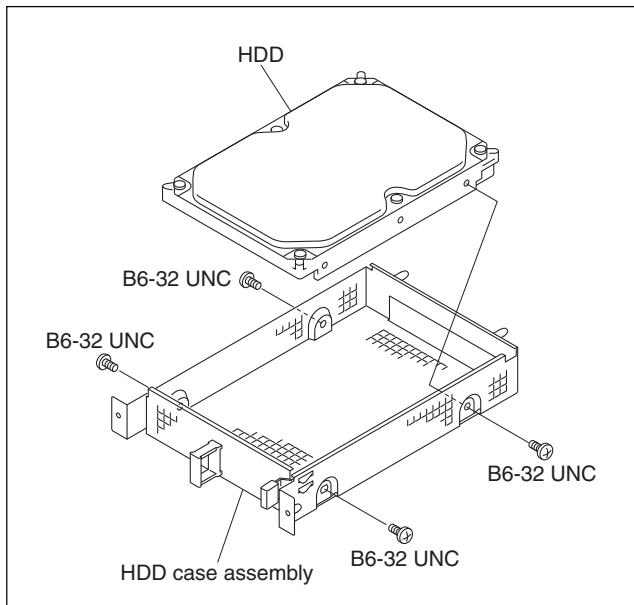
Be sure to unplug the power supply cord from the outlet before starting the replacement work.

Removal

1. Remove the front panel. (Refer to Section 1-2.)
2. While pressing the lock lever of the HDD case assembly in the direction of arrow ①, pull out the HDD by the handle in the direction of arrow ②.



3. Remove the four screws (B6-32 UNC), and remove the HDD from the HDD case assembly.



Installation

1. Install a new HDD by reversing the removal steps 1 through 3.

Note

Insert the HDD case assembly until the lock lever locks (until the locking sound is heard).

2. After replacing the HDD, check the HDD operation. (For checking the operation, refer to “HDD Replacement” in “1-9-4. Diag Mode (Offline Defect Diagnosis Function)”).

1-4. Notes on Replacing the IC/Board

1. The following ICs contain program data. When the IC with the program data is replaced, the program data must be installed again.

For installing the program data again, refer to “1-5. Updating the Firmware”.

Board Name	Ref. No.	Data type
RE-28 (BCU-100)	IC6004	Configuration data for system control FPGA
	IC6005	System control firmware
	IC4602	Proof firmware
MEM-122/ MEM-126 (BKCU-EX1)	IC900	Configuration data for FPGA
VIF-40 board (BKCU-VD1)	IC701	Configuration data for FPGA

2. When replacing the BE-28 board, the following operations are required.
 - (1) Save the data of the current board.
 - (2) Write the saved data to the replaced board, and check the operation. (For steps (1) and (2), refer to “BE-28 Board Replacement” in “1-9-4. Diag Mode (Offline Defect Diagnosis Function)”).
 - (3) Update the firmware of the BE-28 board.
(Refer to “1-5. Updating the Firmware”)
3. When replacing the MEM-122/MEM-126 board, the following operations are required.
 - Update the configuration data for FPGA of the MEM-122/MEM-126 board.
(Refer to “1-5. Updating the Firmware”)
4. When replacing the VIF-40 board, the following operations are required.
 - Update the configuration data for FPGA of the VIF-40 board.
(Refer to “1-5. Updating the Firmware”)

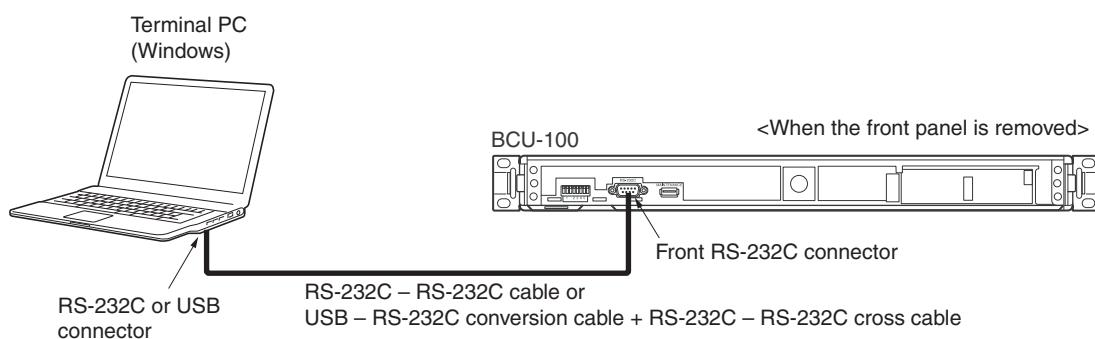
1-5. Updating the Firmware

This section describes how to upgrade the firmware of the BE-28 board, MEM-122/MEM-126 board and VIF-40 board. The USB memory is required in which the following program data that are required for upgrade are contained.

- Configuration data for system control FPGA
- System control firmware
- Proof firmware
- Configuration data for FPGA of the MEM-122/MEM-126 board
- Configuration data for FPGA of the VIF-40 board

1. Execution environment

The firmware can be upgraded in the following environment.



2. Equipment and software

PC for terminal	Windows PC (Windows 2000 or later)
Terminal software	TeraTermPro or equivalent
USB memory	Type recommended by BCU-100. The USB memory should contain the firmware upgrade data.
Connection cable	When the PC side is RS-232C: An RS-232C – RS-232C cable is required. (D-Sub 9-pin cross cable) When the PC side is USB: A USB – RS-232C conversion cable and an RS-232C – RS-232C cross cable are required.

3. Settings

- If the BCU-100 that is going to be upgraded is in operation, shut down the BCU-100.

Note

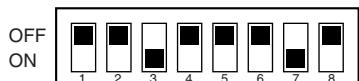
The shut-down procedure is different depending on the OS and application in use. Contact administrator for shut-down procedure who is responsible for operating the system.

- Remove the front panel of the BCU-100 unit and connect the RS-232C connector on the front and the RS-232C connector of the PC with a serial cross cable.
- If the PC has no RS-232C connector, use the USB – RS-232C conversion cable to connect to the USB connector.
- Start the PC and run the terminal software (TeraTermPro or equivalent).
Communication setting: 38400 bps, data 8 bit, stop 1 bit, no parity bit
- Insert the USB memory that contains the firmware upgrade data into the MAINTENANCE connector of the front.

- Set the front DIP switch as follows.

1, 2, 4, 5, 6 and 8: OFF

3 and 7: ON



(■ indicates the knob position.)

Note

After firmware upgrade, take note of the settings of the original DIP switch position before making changes because the DIP switches must be returned to the original position upon completion of firmware upgrade.

4. Firmware upgrade procedure

- (1) Press the POWER button on the front to run the BCU-100.

The Linux startup message is displayed in the TeraTermPro window.

- (2) Wait until the login prompt message is displayed, then log on with user: root, password: sjx-300.

- (3) Execute the following command to mount the USB memory.

mount -t vfat /dev/sda1 /mnt [ENTER]

- (4) Execute the following command to move to the directory where the USB memory is mounted.

cd /mnt [ENTER]

- (5) Execute the following command to upgrade the firmware.

sh bcu100-x.xx-update.sh update [ENTER]

Note

Input the upgrade version name in the place of x.xx of the above command name.

- (6) The module to be upgraded is displayed as an example shown below..

	Current Version	Update Version
[Package] :	1.00	→ 1.10

[PROOF] :	1.00 Build 836	→ 1.10 Build 981
[SYSCON FIRM] :	1.00.06	→ 1.00.08
[SYSCON FPGA] :	1.68	→ 1.70
[MEM FPGA] :	1.00B0065	
[VIF-40 FPGA] :	1.05	

Proceed to update? [y/n]

Note

- Version number is displayed for each module.
- In the case of version downgrade, the asterisk (*) mark is displayed on the version name that is displayed on the Update Version side.
- If the newest version has already been installed, the Update Version is not displayed.
- [MEM FPGA] and [VIF-40 FPGA] are not displayed if the BKCU-EX1 and BKCU-VD1 are not installed respectively.

- (7) If you really want to upgrade, enter “y”.

A series of version upgrade will be executed.

It takes 5 to 6 minutes to upgrade all modules.

- (8) Wait until the message “Update Complete” is displayed.

5. Rebooting and version confirmation

- (1) Execute the following command to reboot the BCU-100.
reboot [ENTER]
- (2) Wait until the login prompt message is displayed, then log on with user: root, password: sjx-300.
- (3) Execute the following command to mount the USB memory.
mount -t vfat /dev/sda1 /mnt [ENTER]
- (4) Execute the following command to move to the directory where the USB memory is mounted.
cd /mnt [ENTER]
- (5) Execute the following command to confirm that the firmware is upgraded.
sh bcu100-x.xx-update.sh list [ENTER]

Note

Input the upgrade version name in the place of x.xx of the above command name.

- (6) Confirm that the following message is displayed.

	Current Version	Update Version
[Package] :	1.10	
<hr/>		
[PROOF] :	1.10 Build 981	
[SYSCON FIRM] :	1.00.08	
[SYSCON FPGA] :	1.70	
[MEM FPGA] :	1.00B0065	
[VIF-40 FPGA] :	1.05	

Note

- Confirm that the version number that is shown as the Current Version of the [Package] is exactly the same version number of the executed firmware upgrade data.
- Confirm that nothing is displayed in the Update Version column of each module.
- [MEM FPGA] and [VIF-40 FPGA] are not displayed if the BKCU-EX1 and BKCU-VD1 are not installed respectively.

6. Exit procedure

- (1) Execute the following command to exit the Maintenance mode.
poweroff [ENTER]
- (2) Return the front DIP switches to the original position.
- (3) Remove the USB memory.
- (4) Disconnect the RS-232C serial cross cable
- (5) Attach the front panel to the original position.
- (6) Press the POWER button to run the BCU-100.

1-6. Circuit-Protection Part

This unit is equipped with the positive characteristics thermister (s) (power thermister) as the circuit protection element. The positive characteristics thermister limits the electric current flowing through the circuit as the internal resistance increases when an excessive current flows or when the ambient temperature increases.

If the positive characteristics thermister works, turn off the main power of the unit and inspect the internal circuit of this unit. After the cause of the trouble is removed, turn on the main power back again. The unit works normally.

It takes about one minute to cool down the positive characteristics thermister after the main power is turned off.

Board	Ref. No.	Address	Part No.
BE-28	TH4101	B-1 (B side)	△ 1-802-243-11
	TH4201	B-3 (B side)	
	TH6001	A-6 (B side)	
	TH6002	A-6 (B side)	
	TH6003	A-6 (B side)	
RE-255	THP1	A-2 (A side)	△ 1-802-108-11
	THP2	A-2 (A side)	
VIF-40 (BKCU-VD1)	PT101	E-1 (A side)	△ 1-804-458-21

Fuse/IC link

WARNING

The fuse and IC link are critical parts to safe operation. Replace this component with SONY parts whose part numbers appear in this manual published by SONY. If not, this may cause a fire or electric shock. Be sure to use specified component in this manual.

This unit has the fuse and the IC link.

They will blow when abnormality occurs and an overcurrent flows in this equipment.

Be sure to replace with the specified parts as shown below after removing the foreign substances that may cause the shorts.

Board	Ref. No.	Address	Part No./Name
BE-28	F7200	A-5 (A side)	△1-576-700-21
	F7700	F-2 (A side)	Fuse-links 10A, 72V
	F7701	F-1 (A side)	
	F7702	F-3 (A side)	
	F7703	F-3 (A side)	
	F7800	A-6 (A side)	
	F7801	A-6 (A side)	
	F7802	A-6 (A side)	
	F7804	A-5 (A side)	
	F7806	A-5 (A side)	
RE-255	F7807	A-6 (A side)	
	F7808	A-6 (A side)	
MEM-122 (BKCU-EX1)	F8001	A-5 (A side)	
	F10	A-4 (A side)	△1-533-627-21
MEM-126 (BKCU-EX1)	F400	C-3 (A side)	Fuse (SMD) 5A, 125V
	F10	A-4 (A side)	△1-533-627-21
VIF-40 (BKCU-VD1)	(BKCU-EX1)		Fuse (SMD) 5A, 125V
	PS1	C-2 (A side)	△1-533-282-21
			IC link 2A, 72V

1-7. Unleaded Solder

Boards requiring use of unleaded solder are printed with a lead free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

 : LEAD FREE MARK

Notes

- Be sure to use the unleaded solder for the printed circuit board printed with the lead free mark.
- The unleaded solder melts at a temperature about 40 °C higher than the ordinary solder, therefore, it is recommended to use the soldering iron having a temperature regulator.
- The ordinary soldering iron can be used but the iron tip has to be applied to the solder joint for a slightly longer time. The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful.

1-8. Circuit Description

1-8-1. BCU-100

BCU-100 is composed of the following six types of boards plus the hard disc drive, fan, and power supply unit.

Used boards

- BE-28 board : Main board (Major components such as Cell/B.E., RSX, and SCC are mounted)
- KY-631 board : Board for operations and display systems installed on the front panel. It includes RS-232C connector and MAINTENANCE connector as external I/O.
- LED-471 board : Message LED board
- CN-3056 board : Connector board for releasing HDD
- EX-1076 board : PCI-Express extension board. Connects to the memory extension adapter (BKCU-EX1).
- RE-255 board : DC/DC board that generates +5 V and +3.3 V from the +12 V output from the power supply unit.

BE-28 board

1. Major chip

A core is constructed on the BE-28 board by mounting four types of cutting-edge chips, connecting the chips to each other with high-speed signal wires, and realizing high performance data process abilities for BCU-100.

(1) Cell/B.E. : main processor

Main processor that realizes high-speed data processing for BCU-100.

• XIO

Connecting to the XDR DRAM used as main memory enables high-speed data transfer. The Cell/B.E. chip has two systems of 4 byte ports and the transfer clock for data is 400 MHz. Eight pieces of data can be transferred with each clock (Octal Data Rate:ODR), so each port provides speed of 12.8 GByte/sec ($400\text{ MHz} \times 8 \text{ ODR} \times 4 \text{ Byte}$).

• IOIF (FlexIO)

This is the interface for the graphic processor RSX and peripheral controller SCC. With one byte as one lane, it achieves transfer speeds of 5 GByte/sec at full rate and 2.5 GByte/sec at half rate. The transfer speeds are different to RSX and to SCC as shown below:

- Cell/B.E. to RSX : 4 lane (20 GB/sec)
- RSX to Cell/B.E. : 3 lane (15 GB/sec)
- Cell/B.E. to SCC : 1 lane (5 GB/sec)
- SCC to Cell/B.E. : 1 lane (5 GB/sec)

• Clock

There are two types of clock signals input to the Cell/B.E. chip. The chip internally operates at 8 times the 400 MHz clock of BE_PLL_REFCLK for a speed of 3.2 GHz.

• Core reference clock :

BE_PLL_REFCLK (400 MHz)

• IO reference clock : BE_RC_REFCLK (500 MHz)

• Power system

• Core

V1P0_BE_VDDC : Main power supply for the core main processor.

The main power for the Cell/B.E. is supplied from here.

Controller : NCP5318(IC7100)

Switching device : IP2003A (IC7101, 7102, 7103)

• VCS

V1P2_BE_VCS : Sub power supply for the CELL chip core.

Controller : SN105233DBTR (IC7400)

• Clock

V1P5_BE_TERMAL_VDDA : Power supply for PLL and thermal sensor.

• XIO

V1P5_LREG_BE_YC_VDDA : Power supply for interface for XDR memory.

• FlexIO

V1P5_LREG_BE_RC_VDDA : Power supply for interface FlexIO for RSX and SCC.

(2) RSX : Graphic processor

Graphic processor that realizes high speed processing for BCU-100 along with Cell/B.E. for the main processor.

• Clock

• Core reference clock :

RSX_PLL_REFCLK (100 MHz)

• IO reference clock : RSX_RC_REFCLK (500 MHz)

• Power system

• Core

V1P2_RSX_VDDC : Main power supply for core

• GDDR

V1P8_RSX_FBVDD :

Power supply for graphic memory

• Clock

V1P8_RSX_PLL_VDD :

Power supply for clock system

• FlexIO

V1P5_LREG_RSX_RC_VDD :

Power supply for FlexIO

- (3) SCC : South bridge
 High performance chip mounted with each type of peripheral.
- Clock
 - Core reference clock : SB_SYSCLK (66 MHz)
 - IO reference clock : SB_RC_REFCLK (500 MHz)
 - Power system
 - Core
 V3P3_SB_VDDC : Core power supply
 - FlexIO
 V1P5_LREG_SB_RC_VDDA :
 Analog power supply for FlexIO
 V1P2_SB_VDDR : IO power supply for FlexIO
 - Clock
 V2P5_SB_PLL_VDDC
 - IO
 V3P3_SB_VDDIO: Power supply for each IO.
 For more information about each peripheral, refer to “Overall Block Diagram”.
- (4) XDR: Main memory
 Memory is composed of 16 pieces of 512 Mbit XDR memory and 2 pieces of memory for ECC for a total of 18 pieces of memory with 1 GByte total capacity for the main memory. The 18 pieces of XDR memory consist of the following configuration. Each of the two XIO ports on the Cell/B.E. chip contains 8 pieces of memory for data and 1 piece for ECC. One piece of XDR memory has a configuration of 4 bit width x 128 M. Each port can hold 32 bit data and 4 bit in ECC.
- Clock
 - BE_Y0_RQ_CTM (400 MHz)
 - BE_Y1_RQ_CTM (400 MHz)
 - Power system
 - V1P8_VDD_MEM0
 - V1P8_VDD_MEM1

2. Peripheral

The functions for each type of peripheral are mounted mainly on the south bridge chip SCC (IC4001). SCC is connected to Cell/B.E. by the FlexIO bus, and high speed data transfer is possible.

(1) NETWORK-1 (Gigabit Ethernet)

The main network port, NETWORK-1, is composed of MAC and the PHY chip (IC4101) in SCC.

Power supplies required for PHY chip:

- V3P3_ETHPHY IC7701
- V2P5_ETHPHY IC7707
- V1P8_ETHPHY IC7706

(2) NETWORK-2 (Gigabit Ethernet)

The port used for system management, NETWORK-2, connects to the GBE chip (IC4304) on the PCI bus in SCC.

The MAC address for NETWORK-2 is written to EEPROM (M93C46-WDW6TP, IC4306).

(3) PCI-Express

PCI-Express is provided to mount memory extension adapter BKCU-EX1 or optional cards such as the InfiniBand card. These cards are mounted via the extension board (EX-1076 standard equipment). The PCI-Express connector (CN4303) is mounted with a 16 lane standard connector, but only four of the lanes are valid.

(4) PCI bus

The PCI connector (CN4301) is a special connector and is considered “No Mount” for BCU-100.

(5) DDR2 memory

There are 16 pieces (IC8701-8708, IC8801-8808) of 64 M × 8 bit DDR2-SDRAM memory for a total of 1 GByte built-in memory.

The power supply (V1P8_SB_DDR2_VDDIO) for DDR2 memory is generated by the DC/DC converter (Controller : SN105233DBTR, IC7604).

(6) USB

There are a total of three USB ports:

- Front 1 port : MAINTENANCE Connector
 (CN101 : Mounted to the KY-631 board)
- Rear 2 ports : USB Connector
 (CN4100 : Mounted to the BE-28 board)

The front USB port is used for maintenance, but even though it is called the “MAINTENANCE” connector, it is a USB port. The front USB connects directly to the SCC chip (IC4001), while the rear USB connects via the USB-HUB chip (IC4109).

(7) Serial port (RS-232C)

This is the serial terminal for connection to an external PC.

- Front (CN202 : Mounted on the KY-631 board)
- Rear (CN4301 : Mounted on the BE-28 board)

For the RS-232C configuration, refer to “BCU-100 Serial Diagram”.

(8) ATA

SCC outputs via two ports: PATA0 and PATA1. HDD uses SATA interface standard, but the PATA0 port can be connected through a PATA/SATA conversion chip.

- PATA1
 CN4206 (No Mount)
- SATA0 (Master)
 CN4201 Bridge chip (IC4201)
- SATA0 (Slave)
 CN4202 (No Mount) Bridge chip (IC4203 No Mount)

(9) SB expansion bus

The expansion bus connects to the following devices:

- EBUS Connector (CN4403)
- NAND Flash Memory (IC4428, IC4431 No Mount) and controller (IC4429 No Mount)

- NOR Flash Memory (IC4602) 64 Mbyte
Proof, MiniSystem, etc. are written
- NVRAM (IC4601) 128 Kbyte
- GPIO
- DIP Switch (S4601)
- LED (D4601-4608)

3. SYSCON

Using the SH-2 micro controller made by Renesas and TOPPERS/JSP for the OS, the power supply ON/OFF is controlled, main chips are initialized, and the overall set is monitored. Also, the following can be loaded via an external interface: basic information such as set status and generated errors, plus product information saved to EEPROM, all setting values, and logs.

(1) SH-2 micro controller

Centered in the SH-2 micro controller, the SYSCON functions are realized with the following chips.

- Renesas R5F70845AN80FPV (IC6005)
 - Clock : 80 MHz
 - ROM : 512 Kbyte
 - RAM : 32 Kbyte
- SRAM 32 Kbyte (IC6007)
- I²C Bus switch (IC6002)
- FPGA Altera EP1C12F324C8N (IC6001)

1) SH-2 interface

The address bus 18 bit , data bus 16 bit bus can use the control lines to send and receive data at fast speeds.

- SH-ADDR [1-18] : Address line
- SH-DATA [0-15] : Data line
- /RD, /WRH, /WRL : Read/Write control

2) GPIO : IO port expansion

The circuit in the BE board has many signal lines than must be controlled by the SYSCON, so FPGA (IC6001) is used to expand the IO port. It catalogs the typical control signals.

- /THERMAL_FAIL

Indicates an error in the internal power supply unit temperature.
- /POW_FAIL

Indicates an error in the +12 V, +5 V, or +3.3 V output created in the power supply unit or RE-255 board.
- SW-n

Controls turning each of the local power supplies on and off.
- BEVRM_VIDn

Voltage control signal for the BE core voltage
- RSXVRM_VIDn

Voltage control signal for the RSX core voltage

3) Interrupt controller

Controls the interrupt generated from each interrupt line in the BE board and the function block in FPGA.

Input signal for interrupt controller

- /BE_INT
- /RSX_INT
- /SB_INT
- RSX_VINTE

Output signal for interrupt controller. Imposes interrupt on SH-2 microcomputer.

- NMI
- /IRQ7
- /IRQ5
- /IRQ3

4) SPI serial bus

SYSCON performs operations such as setting the resistor for the main chips on the BE board and monitoring the status through the SPI serial bus.

- BE_SPI
- RSX_SPI
- SB_SPI
- IO_SPI

5) UART

Through the RS-232C connector, every command in the SYSCON or status inside the set is read or written. UART is included to provide an interface to SCC.

- FPGA_UART0
- FPGA_UART1

6) Mechanism for updating SYSCON and FPGA

The design ensures that the SYSCON firmware and FPGA configuration data can be overwritten with upgrades through the serial terminal (RS-232C) or network (NETWORK-1, -2) without requiring any special tools. Also, the SYSCON firmware is written in two locations in memory, so updates can be performed safely. The SYSCON firmware is written in the SH-2 chip (IC6005), and the SYSCON FPGA configuration data is written in the configuration ROM (IC6004).

7) Real time clock (RTC)

RV5C387A (IC6590) generates the real time clock from 32.768 kHz output from the crystal oscillator (X6001). The real time clock is backed up with a lithium battery, so the correct time can be kept even when not connected to an AC power supply. Also, if the lithium battery is drained by stopping oscillation on the real time clock and power is supplied again from the AC power supply, an error is detected when the SYSCON starts up.

8) EEPROM

Two 256 Kbit EEPROM (IC6587-8) are mounted. The SYSCON log, error history, and other data is recorded here.

4. Reset circuit

The voltage monitoring chip (IC6008) monitors the voltage of V3P3_MAIN that acts as the power supply for the SYSCON circuit. The reset signal generated by this chip performs hard reset on the SYSCON (IC6005). This mechanism initializes predetermined areas over the entire SYSCON.

The hardware reset switch (SW6001) is located on the BE board. Pressing this switch performs reset on the entire system, but this method is normally not used. When this switch is pressed, all of the power supplies supplied to each device are switched off all at once instead of switching off in order. This can cause massive damage to the device, particularly if it occurs during operations. On the other hand, the reset switch on the front panel is a software reset for SYSCON and can be used when the unit falls into a critical state such as hang-up. The SYSCON (IC6005) is notified through the IO port that the switch has been pressed and applies reset to the entire system (see the reset system diagram).

5. Clock circuit

The main clock system is based on the crystal oscillating circuit (14.31818 MHz) of the master clock generator (IC5601) and it generates the required clock with three PLL chips and chip built-in PLL. A local crystal oscillator or oscillating circuit may also be included on each type of chip (see the clock system diagram).

(1) Master Clock Generator

ICS1493 (IC5601) : Generates the following clock from the original oscillations from the 14.31818 MHz crystal oscillating circuit.

- RSX_PLL_REFCLK : 100 MHz
- SB_PEX0_REFCLK : 100 MHz
- SB_PEX_REFCLK : 100 MHz
- SB_PCI_CLK : 33 MHz
- SB_SYSCLK : 66 MHz
- MK_ATA_CLK : 133 MHz

(2) XCG0 for BE core

ICS9218 (IC5010) : Generates the following clock from the 100 MHz Master Clock Generator.

- BE_PLL_REF_CLK : 400 MHz

(3) XCG2 for IOIF

ICS9214 (IC5003) : Generates the following clock from the 100 MHz Master Clock Generator.

- BE_RC_REFCLK : 500 MHz
- RSX_RC_REFCLK : 500 MHz
- SB_RC_REFCLK : 500 MHz

(4) XCG3 for XDR Memory

ICS9218 (IC5012) : Generates the following clock from the 100 MHz Master Clock Generator.

- BE_Y0_RQ_CTM : 400 MHz
- BE_Y1_RQ_CTM : 400 MHz

(5) Power supply supplied to the clock system

The following are the required power supplies for the clock circuit.

- V3P3_MK_VDD : IC7502
- V2P5_LREG_XCG_500 : IC7503
- V2P5_LREG_XCG_500_MEM : IC7504

6. FAN

Using the thermal diode in the Cell/B.E. or RSX chip or the thermal sensor positioned on the BE board, the temperature in the set is sensed and the SYSCON controls are used to control the fan to three rotation speeds in order to manage the internal temperature of the set. The fan is a PWM control fan, so the chip controlling each fan releases a signal according to controls from the SYSCON, and the PWM signal corresponding to that control is input into each fan. The fan rotates at the rotation speed that corresponds to the PWM signal. The fan is 40 mm square and has a maximum rotation speed of 14,000 rpm. By using this small size, large air volume fan, the temperature can be controlled easily.

(1) Cell/B.E. temperature management

The temperature sensing IC (IC6133) uses the thermal diode in the Cell/B.E. to sense the temperature inside the chip and simultaneously senses temperature data around the sensing IC. The temperature is managed on the Cell/B.E. from SYSCON controls based on this data.

(2) RSX temperature management

The temperature sensing IC (IC6134) uses the thermal diode in the RSX to sense the temperature inside the RSX and simultaneously senses temperature data around the sensing IC. The temperature is managed on the RSX from SYSCON controls based on this data.

(3) Memory extension adapter (BKCU-EX1) temperature management

A temperature sensor is also placed on the MEM-122/MEM-126 board. The temperature is controlled by reading this data as the status of the memory extension adapter.

7. Power supply

Power ON/OFF sequence

Each of the various devices on the BE board have their own DC/DC regulator or linear regulator, so the devices can be turned on or off with controls from the SYSCON. ON/OFF is controlled by the sw-n signal, and devices are turned ON in increasing number order and OFF in decreasing number order. sw-0 is the ON/OFF signal for the power supply unit.

RE-255 board

The RE-255 board is a DC-DC converter block, and +12 V input from the power supply unit is converted to +3.3 V or +5 V and output.

1. Input voltage monitoring circuit

VOLTAGE DETECT (IC3) monitors the input voltage. If the input voltage is higher than the startup voltage, power is supplied to each controller IC (IC5, 6) or the REF voltage IC (IC9). It continues to operate after being started up once until the input falls below the cutoff voltage.

2. Output protection circuit

Protection circuits are included for the +3.3 V and +5 V output. If an error occurs in the output of either system or if some kind of error prevents output, the H_SHUTDOWN signal is output from IC7. The H_SHUTDOWN signal stops output for both +3.3 V and +5 V. Q1 turns on with the H_SHUTDOWN signal, PWR OK output becomes “L”, and a signal signifying that Power FAIL has occurred is sent to the BE board.

- Output overcurrent (short-circuit) protection
- Output overvoltage protection
- Output undervoltage protection

3. Voltage control circuit

Feedback control is applied to +3.3 V with IC5 and to +5 V with IC6 for increased stabilization. The output current for +3.3 V is very large, so 2-phase circuit is used. Also, the synchronous rectification method is used on both +3.3 V and +5 V in order to improve the efficiency.

1-8-2. BKCU-EX1

BKCU-EX1 is an optional adapter to expand memory in BCU-100 and is constructed on the MEM-122 board or MEM-126 board. When used in combination with the BKCU-MY8D memory module (8 GB), the BCU-100 memory can be expanded by 8 GB.

MEM-122/MEM-126 board

The MEM-122/MEM-126 board has the following main functions.

- Power supply generation (Including supplying the power supply to the memory module)
- FPGA configuration function (Including the upgrade function)
- PCI-Express control
- Memory module (DDR2 DIMM) control

The power supply generates +3.3 V/+2.5 V/+1.8 V/+1.5 V/+1.2 V (MEM-122 board)/+1.0 V (MEM-126 board) from the +12 V that is supplied from the BE-28 board on BCU-100, and +1.8V is supplied to the memory module. A terminating power supply is also generated at +1.25 V/+0.9 V. BCU-100 is connected via the card edge connector CN1, and the memory module is connected via CN2/CN3. Signals and power supplies are supplied via these connectors.

CN1 connecting to BCU-100 is a × 16 card edge connector with PCI-Express specifications. Of these, 4 lanes are used. CN2/CN3 connecting the memory module is a 240-pin connector and it can attach to two 2 GB or 4 GB Registered memory module with ECC (error correction code). The two attached modules must have the same specifications. Memory data on PCI-Express that is input/output via CN1 is converted into PIPE (PHY Interface for the PCI-Express Architecture) with PCI-Express PHY IC (IC208) and handed over to FPGA (IC1). FPGA consists mainly of the PCI process block and the DRAM control block.

The data from IC208 undergoes a PCI process, and then is written into the memory module via the DRAM control block. The data is read in the same way. ECC is processed in the DRAM control block. FPGA configuration data is stored in FlashROM (IC900). Normal operations data (BANK1) is written in IC900 along with backup data (BANK0). The BANK0 data cannot be updated, but the BANK1 data can be updated with upgrades and other changes. Refreshing the FPGA configuration or BANK1 data can be controlled with PLD (IC2). IC2 data is stored in SerialROM (IC901) and cannot be updated.

Control from the BCU-100 is mainly performed via the PCI-Express signal, but status monitoring can be performed via SM BUS. This monitoring is performed from the SYSCON, and logs can be gathered for situations such as problems with operations.

1-8-3. BKCU-VD1

The BKCU-VD1 consists of the VIF-40 board. It receives the graphic data from RSX and outputs the graphic data from the DVI-I connector as the DVI output of the VESA specification or the analog RGB output supporting the following resolutions.

640 × 480 (VGA), 1024 × 786 (XGA), 1280 × 768 (WXGA), 1280 × 1024 (SXGA), 1600 × 1200 (UXGA), 1920 × 1200 (WUXGA)

Among these resolutions, the analog RGB output supports the resolution up to 1280 × 1024 (SXGA).

VIF-40 board

The VIF-40 board consists mainly of the power supply block, FPGA configuration block, video processor block and the control block. The major parts are the DC-DC converter/LDO, the FPGA/PLD, the DVI transmitter and the DA converter for analog RGB.

The power supply block receives +12 V from the BE-28 board and generates the two regulated powers of +1.2 V and +5 V by the DC-DC converter with dual output. The +1.2 V power is supplied to FPGA as the core power, and +5 V is supplied to the secondary regulator as the power supply to it. The secondary regulator circuit generates +3.3 V and +1.5 V from the DC-DC converters as the power supply to the digital circuits. The +3.3 V that is used as the power of the DA converter for the analog circuit is generated by LDO. The +1.8 V power is generated by the small power LDO because it is used by PLD only.

The PLD (EPM1270 manufactured by Altera) has the function of controlling the flash memory that contains the FPGA configuration and its data. Data is written in a single plane only of the flash memory from the system via the SPI bus. The flash memory has the two planes for the FPGA data area. One plane is used for writing the factory data. The flash memory has a fail safe structure. If version upgrade file has failed in writing the version upgrade data for some reason, the system boots from the plane containing the factory data.

The flash memory contains a free memory area in which the model name, board name and serial number are written as the control information.

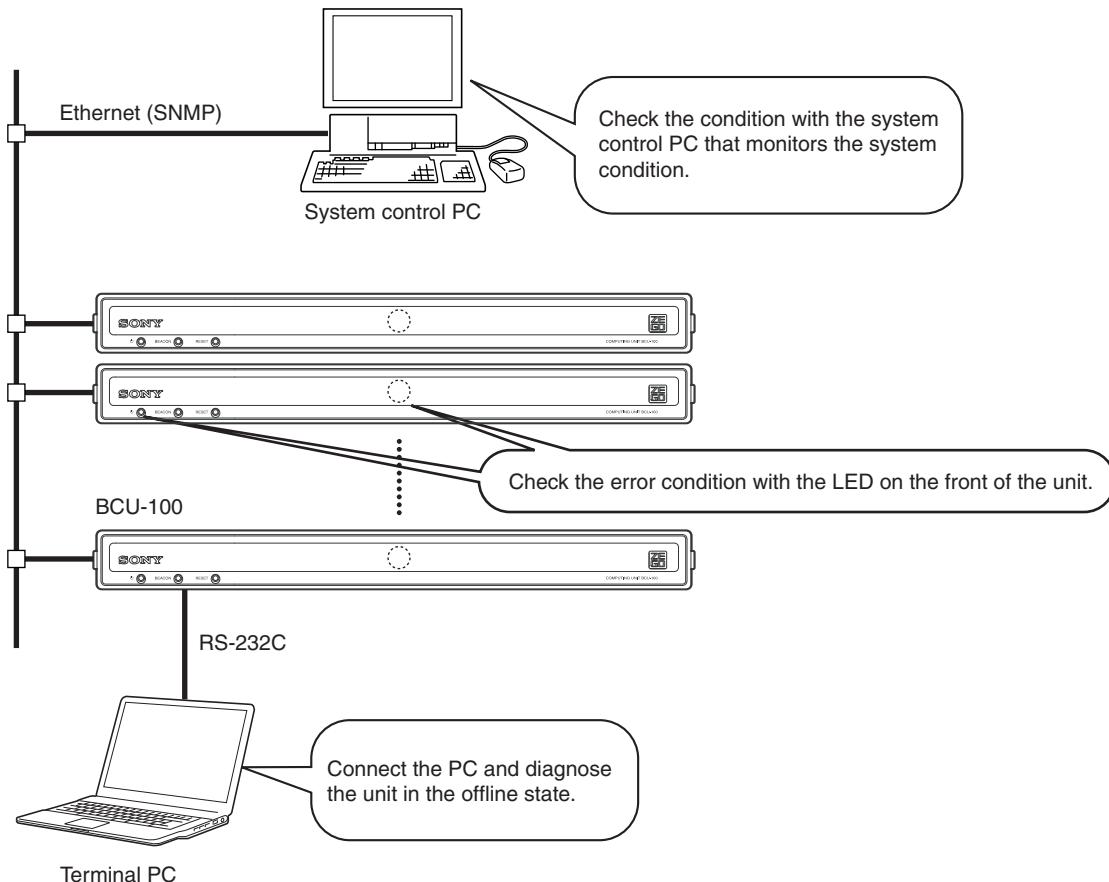
The FPGA consists of the DVI transmitter manufactured by Silicon Image, the video signal block and the control block. The DVI transmitter receives video data from RSX and the video signal block outputs the RGB data to the DA converter. The control block is connected to the SPI bus and the I2C bus coming from system control. The circuit configuration is designed to allow installation of the two pieces of the DVI transmitter taking the dual link configuration (when supporting WQXGA) of DVI into consideration. However, because it is not supported by the BKCU-VD1, the DVI transmitter is not mounted on the sub side of the FPGA. The RGB data is sent from RSX to FPGA, and from FPGA to DVI transmitter by DDR. However the RGB data is transmitted by SDR in the BKCU-VD1 because the DDR transmission is used only in the dual link mode (WQXGA) between RSX and FPGA. Regarding DDC from the DVI connector, OS can check EDID of the monitor.

1-9. Troubleshooting

1-9-1. Summary

When a trouble occurs, an examination and an analysis are executed using primarily the self-diagnostic function to specify the cause and to check the details. This section describes the remedies for troubles, the self-diagnostic function and its usage.

The following is the diagram of the diagnostic method.



1-9-2. Self-diagnostic Function

Self-diagnostic functions are broadly classified into the diagnostic functions at start-up, during operations, and in an offline state.

1. Self-diagnostic functions at start-up

When the BCU-100 starts, the internal self-diagnostic function is automatically executed, performing the following checks.

- EEPROM data area check
- RTC battery check
- Check for completion of FPGA data set
- SRAM check
- Main device (Cell/B.E., RSX, SCC) check

When an error occurs, a warning is indicated on the front panel LED, internal error/ status LED, and with a buzzer sound. (Refer to each LED indication item in “1-9-6. Error Indication”.)

2. Self-diagnostic functions during operations

While the BCU-100 is in operation, the internal self-diagnostic function is executed automatically and the following checks are constantly executed.

- Temperature check for each component (Cell/B.E., RSX, SCC, XDR, Rear area)
- Checks for output voltage of the power supply unit, and for the core power supply of Cell/B.E. and RSX
- Fan revolution speed check
- Monitoring SYSCON FIRM by WDT (Watch Dog Timer)
- Monitoring the power supply unit and fan operation time

When an error occurs, a warning is indicated on the front panel LED, error status LED, and with a buzzer sound.

The warning can be issued to the outside via network.

When an internal temperature error occurs, if the temperature passes the warning level up to the dangerous temperature level, the BCU-100 will be shut down.

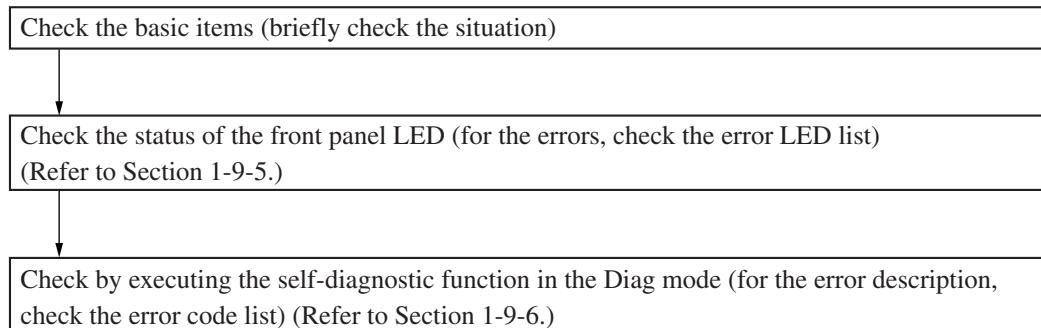
3. Self-diagnostic functions in the offline state (Diag mode)

When an error occurs, the diagnostic software can be started manually to execute the diagnostic functions. Mainly the following items can be checked.

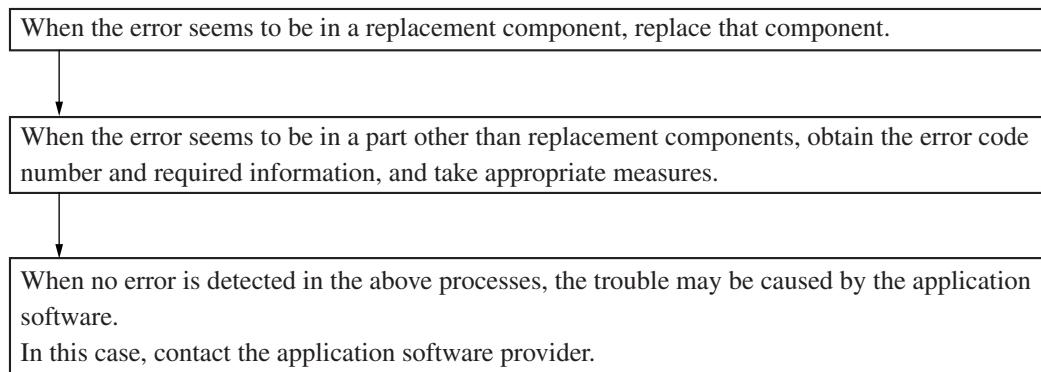
- Main device (Cell/B.E., RSX, SCC, XDR, DDR)
- Fan
- External USB memory
- HDD
- Firmware memory
- Optional memory board

1-9-3. Troubleshooting Flow

The troubleshooting flow is divided into three processes.



Perform the following operations according to the result of the self-diagnostic function above.



This diagnostic flow is designed to detect hardware or the firmware troubles. When no error is detected after the check performed according to this flow, the trouble is more likely to be caused by a failure of the application software.

1. Checking the basic items

For the following symptoms, perform the checks described in the table.

Power does not turn on	<ul style="list-style-type: none">Check if the power cord is connected correctly.Check if the power supply unit is installed correctly.
Cannot connect to the network	<ul style="list-style-type: none">Check if the network cable is connected correctly.Check if the NETWORK-1 terminal and the NETWORK-2 terminal are connected correctly.
Temperature error warning is displayed	<ul style="list-style-type: none">Check if the front and the rear ventilation hole are not blocked or dusty. To check the front ventilation hole, remove the front panel.

2. Checking the status of the front panel LED

Check if the front panel LED lights in the same way as it does when the BCU-100 operates normally.

The details of the errors can be checked with the POWER LED and message LED; and the status LED and error LED inside the front panel.

For the error list, refer to “1-9-5. Error Display”

When an error occurs mainly in the following blocks, it is indicated with the LED display.

Power supply	Power supply fan deterioration, Replacement time warning
Fan	Abnormal revolution speed, Replacement time warning
Battery	Voltage drop warning
Internal temperature	Abnormal temperature warning
Main device (Cell/B.E., RSX)	Abnormal operation warning
Hardware	Abnormal operation warning
SYSCON	Abnormal operation warning

The LED indication changes depending on the level of abnormality.

Error LED	Message LED	Condition
Blink (red)	Blink (blue)	Warning (when an abnormality of low urgency is detected)
Light (red)	Blink (red)	Error (when an abnormality of high urgency is detected, and the BCU-100 is forcibly shut down)

3. Checking by executing the self-diagnostic function in the Diag mode

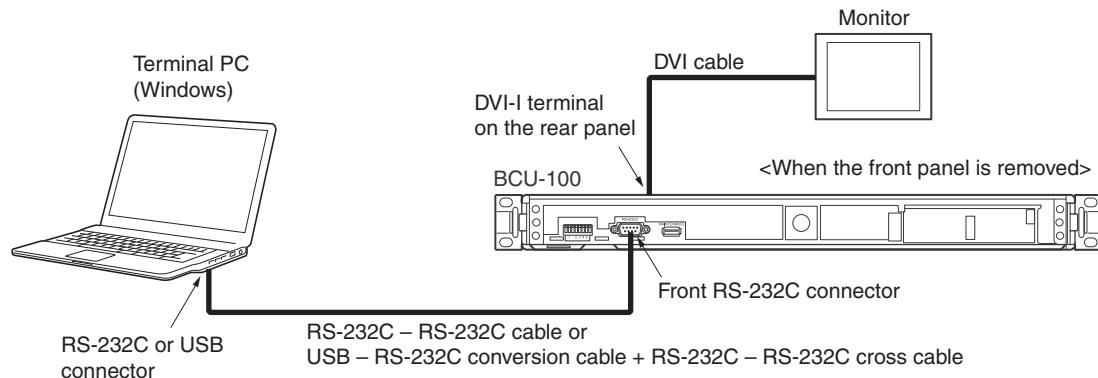
Use the Diag mode diagnostic function in the offline state, and identify the defective location and details.

When an error is detected, an error code is displayed. Check “1-9-6. Error Code List” and take the necessary measures.

1-9-4. Diag Mode (Offline Defect Diagnosis Function)

1. Execution environment

This diagnostic function can be executed in the following environment.



2. Equipment, software

Terminal software TeraTermPro ver. utf8-4.53 (Be sure to use this version)

Diagnostic TeraTerm macro for ver. 1.00

When the PC side is RS – 232C: An RS-232C-RS-232C cable is required.

(D-Sub 9-pin cross cable)

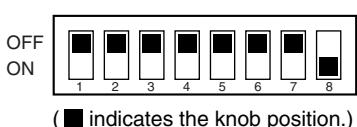
When the PC side is USB: A USB – RS-232C conversion cable and an RS-232C – RS-232C cross cable are required.

3. Settings

- Prepare the PC on which Windows 2000 or later operates normally.
 - Remove the front panel of the BCU-100 unit and connect the RS-232C connector on the front and the RS-232C connector of the PC with a serial cross cable.
If the PC has no RS-232C connector, use the USB – RS-232C conversion cable to connect to the USB connector.
 - Set the front DIP switch as follows.

1 to 7 : OFF

8 : ON



(█ indicates the knob position.)

Note

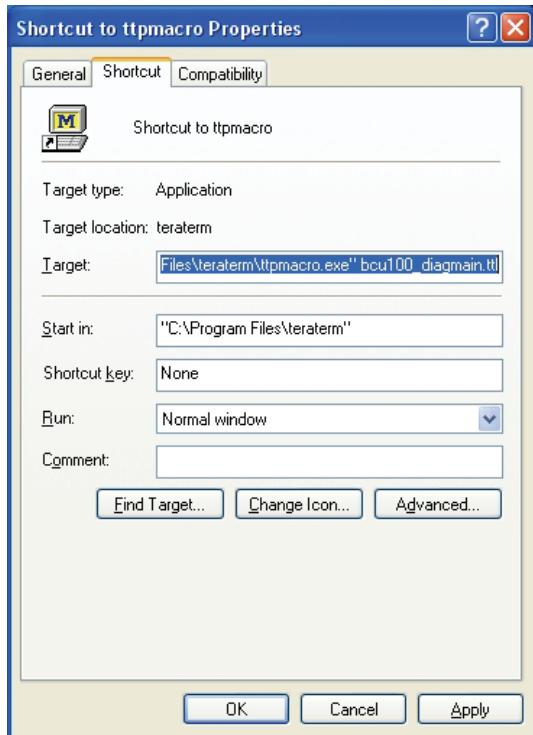
After the diagnosis, be sure to return the DIP switch to the original setting (8: OFF).

- Install the terminal software TeraTermPro into the PC.
 - Install TeraTerm macro into the folder in which the TeraTermPro executable file is installed.

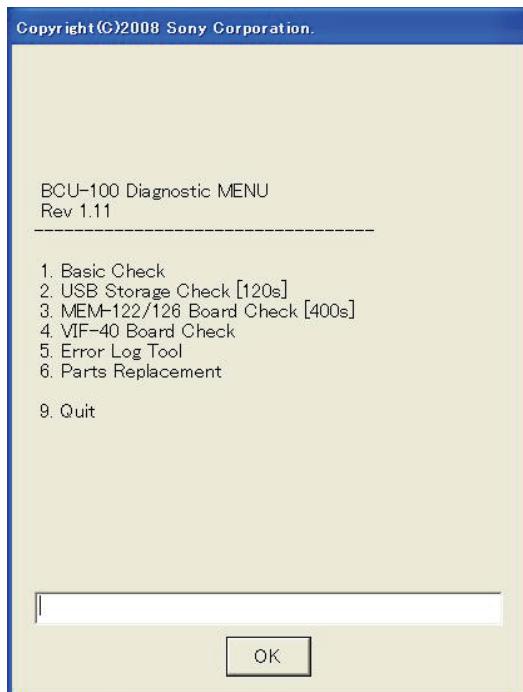
Macro installation procedure

- (1) Extract the macro in a desired folder.
 - (2) Copy all the macro files in the folder to the folder in which TeraTermPro is installed.
 - (3) Create a shortcut for “`ttpmacro.exe`” located in the folder in which TeraTermPro is installed.

- (4) Open the property screen of the created shortcut, and add the following link destination.
“TeraTermPro installation folder\ttpmacro.exe”\bcu100_diagmain.ttl



- (5) Click the shortcut to start TeraTermPro. The following main menu appears.



- Configure the COM port setting of the PC.

(Be sure to connect the connection cable to the COM port before the setting.)

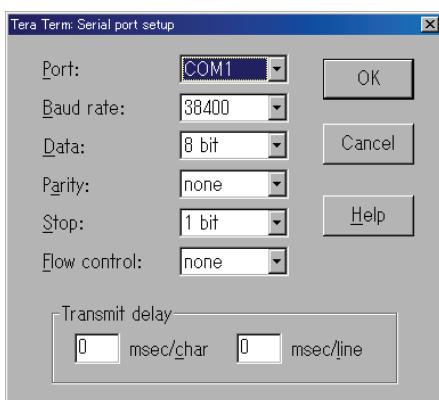
COM port setting procedure

- Enter “0” in the main menu, and press the [OK] button. The following dialog box appears. Click [Yes] to proceed.



- The TeraTermPro terminal screen appears. Select [Setup], and then [Serial port]. The following dialog appears. Set the port in this dialog. Be sure to set a usable port. (Check usable ports in Port (COM) in the Device Manager.)

The settings for the other items are as follows.



- When the setting is completed, return to the TeraTermPro terminal screen. Select [Setup], and then [Save setup] to save the TeraTerm setting file.
- After saving the file, close the TeraTermPro terminal screen.
The port setup is completed.

4. Diag mode startup procedure

- Connect the power supply cord to the BCU-100. (Standby state)
- When the TeraTerm macro is executed, the BCU-100 starts to run in the Diag mode.

5. Log file

The result of executing each dialog is automatically saved as a log file.

Check the saved log file as necessary.

The file format and the directory of the destination folder are as follows.

Format:

Diagnostic name_Date_Serial number.log
*Date: YYYYMMDD, Serial number: from 1

Directory:

Installation folder of TeraTermPro\bcu100log

The diagnostic name is defined in advance, so the executed diagnosis can be identified by the log file name.

Note

The Tera Term Log dialog stays displayed on the task bar while the diagnostic function is being executed. However, do not open this dialog and press the buttons inside.

Otherwise, the log cannot be obtained and the ERR judgment cannot be performed.

The log file name is determined as follows.

Log file name list

Diag name	Log file format
Fan Check	fan_check_YYYYMMDD_Serial number.log
Firmware Memory Check	firmware_memory_check_YYYYMMDD_Serial number.log
Main Device Check	main_device_check_YYYYMMDD_Serial number.log
HDD Read Check	hdd_read_check_YYYYMMDD_Serial number.log
Basic All Check	basic_check_all_YYYYMMDD_Serial number.log
USB Storage Check	usb_storage_check_YYYYMMDD_Serial number.log
MEM-122/126 Board Check	mem122/126_memory_check_YYYYMMDD_Serial number.log
Resolution Check	vga_check_YYYYMMDD_Serial number.log xga_check_YYYYMMDD_Serial number.log wxga_check_YYYYMMDD_Serial number.log wuxga_check_YYYYMMDD_Serial number.log
EDID Check	edid_read_YYYYMMDD_Serial number.log
BE-VIF I/F Check	i2c_check_YYYYMMDD_Serial number.log
FAN_1 Reset	fan1_reset_YYYYMMDD_Serial number.log
FAN_2 Reset	fan2_reset_YYYYMMDD_Serial number.log
FAN_3 Reset	fan3_reset_YYYYMMDD_Serial number.log
FAN_4 Reset	fan4_reset_YYYYMMDD_Serial number.log
FAN_5 Reset	fan5_reset_YYYYMMDD_Serial number.log
All FAN Check	fan_reset_all_YYYYMMDD_Serial number.log
Read Error Log	read_error_log_YYYYMMDD_Serial number.log
Delete Error Log	delete_error_log_YYYYMMDD_Serial number.log
Before Board Exchange	before_be28_replacement_YYYYMMDD_Serial number.log
After Board Exchange	after_be28_replacement_YYYYMMDD_Serial number.log

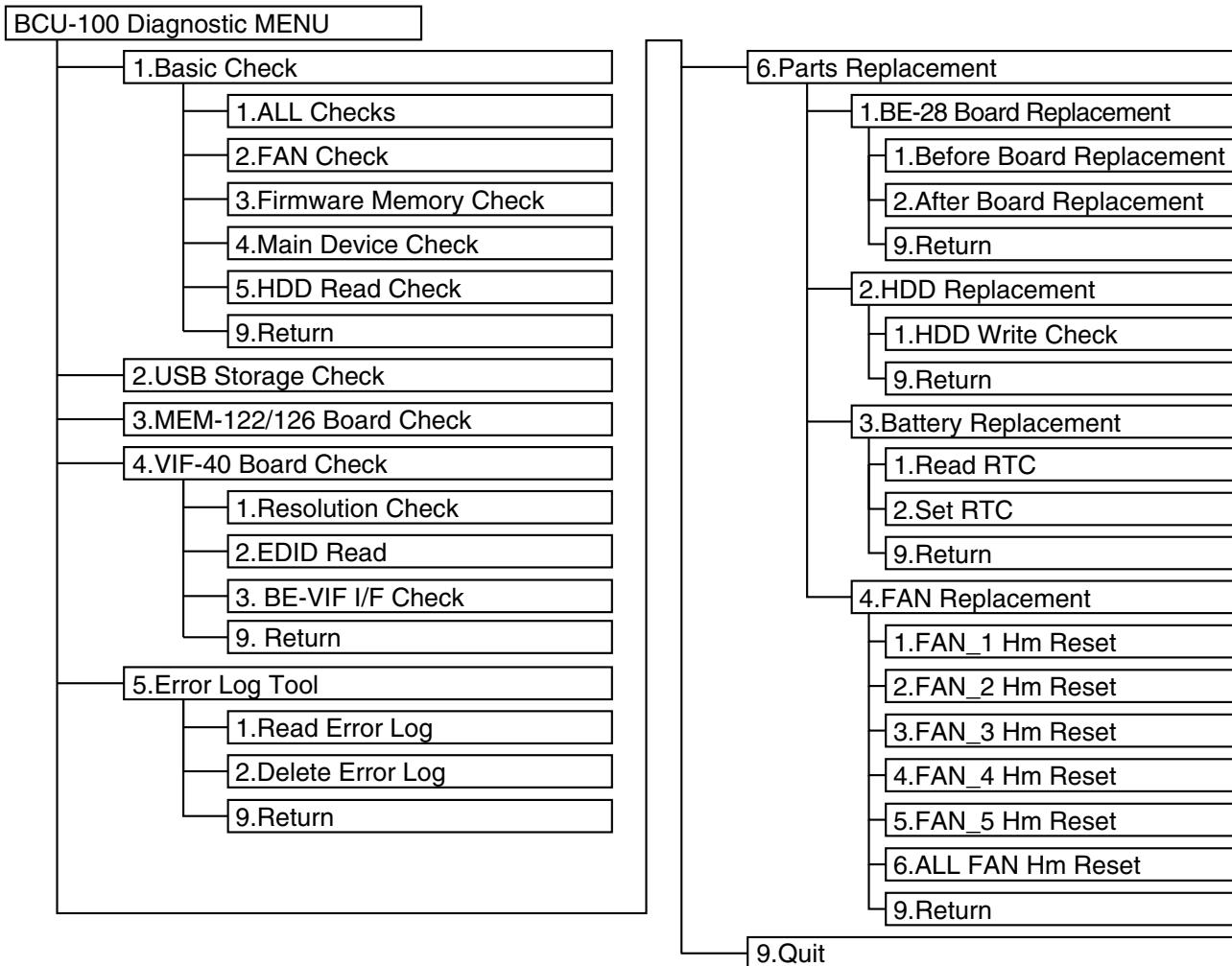
6. Judgment of the execution result of the diagnostic function

- The execution result of the diagnostic function is displayed in a dialog.
[RESULT] diagnosis item: == Judgment ==
- The judgment is also saved in a log file.
- When the judgment is NG, the error code number is displayed. Check the details in the error code list.



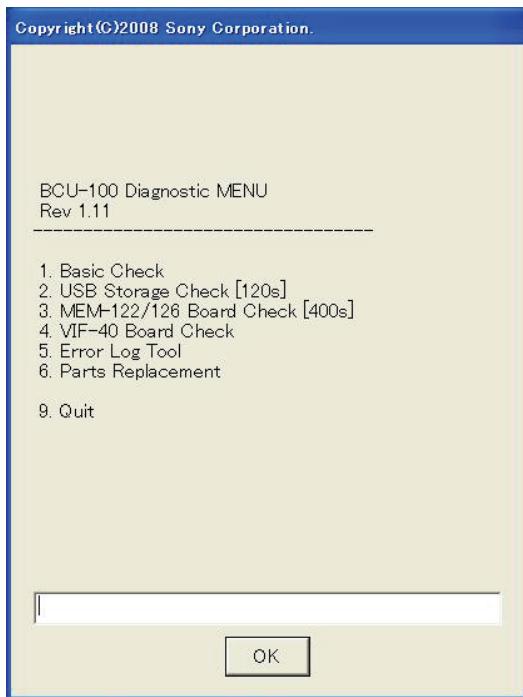
7. Usage procedure

(1) Menu tree



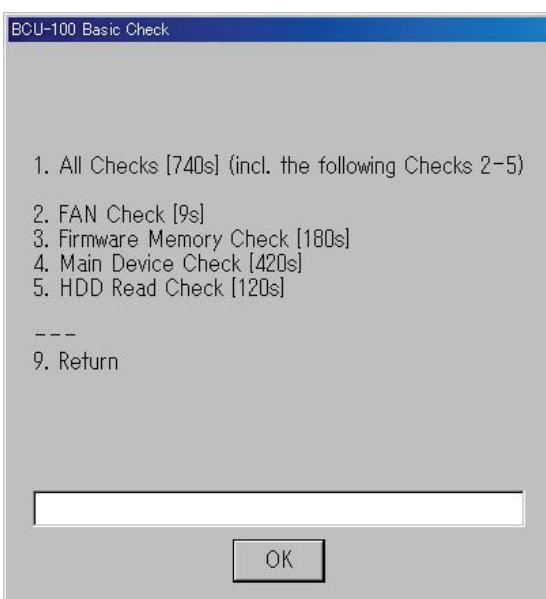
(2) Main menu

- The main menu appears when starting the “ttpmacro” shortcut created at setting. Enter the number of the diagnosis item displayed in the menu, and press the “OK” button to start diagnosis. A submenu is displayed for some diagnostic items. Enter the number you want to execute, and perform execution.
- Select “9. Quit” to end “ttpmacro”.
- The figures in brackets shown to the right of the diagnosis item name indicate the approximate time (second) for execution.



(a) Basic Check

When “Basic Check” is selected in the main menu, the following submenu appears. Execute the submenu to specify a defective location in the basic parts of the unit.



All Checks

This mode executes the diagnosis for all the items from 2 to 5. Execute this to identify the defective location. The following check items can also be diagnosed individually.

FAN Check

Checks the rotation rate of the five fans (including the power supply fan) mounted on the unit. For fans 1 to 5, rotation rate of 5,000 to 5,999 rpm (controlled by Duty 20%) is judged as normal, and for the power supply fan, 14,000 to 14,999 rpm.

Firmware Memory Check

Checks the entire memory field of XDR and DDR2.

Main Device Check

Checks the inside of the Cell/B.E., RSX, and SCC devices.

HDD Read Check

Executes the Read check for the sector worth 100 MB.

This does not overwrite the data in the HDD.

Return

Returns to the main menu.

(b) USB Storage Check

Check the USB I/F using the USB memory device.

Once the execution starts, the following dialog appears. Check the connection of the USB memory devices (one on the front, two on the rear), and press the “Yes” button to continue execution. To cancel execution, press the “No” button to return to the previous menu. In this check, connect the USB memory devices to all of the two USB ports on the rear and the MAINTENANCE port (USB connector) on the front.



Note

This is a Read check, so the data in the USB memory will not be damaged.

(c) MEM-122/126 Board Check

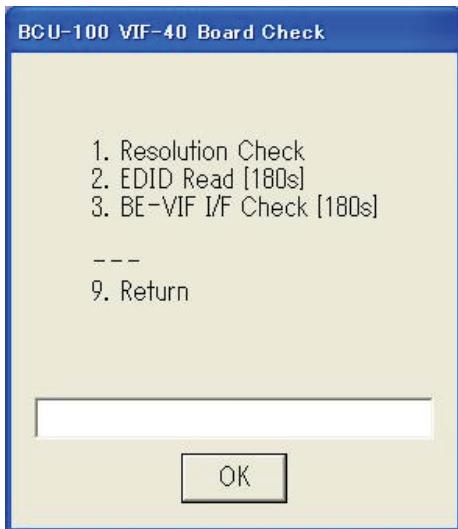
Checks the operation of the MEM-122/MEM-126 extension memory board (option).

Note

It takes about six minutes to complete.

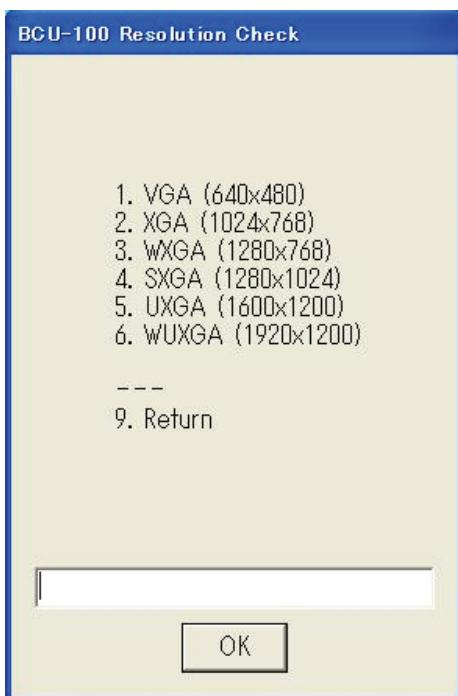
(d) VIF-40 Board Check

This item is used to check operations of the VIF-40 video display board (optional).
The check can be executed only when the optional board (BKCU-VD1) is installed.
When the main menu item “4. VIF-40 Board Check” is selected, the following sub menu opens.



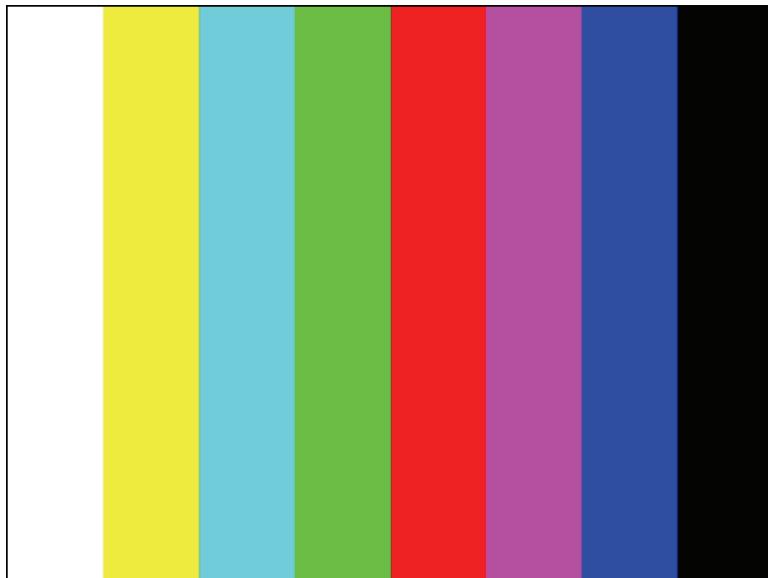
Resolution Check

When Resolution Check is selected, the following sub menu opens.



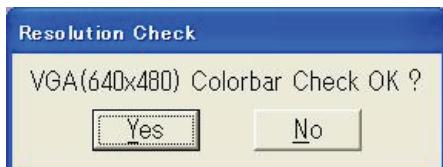
Beforehand, connect the DVI-I connector on the rear panel to the monitor using the DVI-I (or DVI-D) cable to enable display of the video signal on display for the check purpose.

The selectable resolutions are VGA to WUXGA for digital and VGA to SXGA for analog. Two video signals of color bar signal and ramp signal are displayed as the test pattern with the selected resolution. Each test pattern is displayed for 15 seconds each. Perform the visual check during this period.



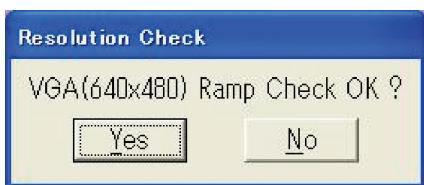
Color bar signal (* The black border line does not exist in the test screen.)

After displaying the above test patterns for 15 seconds, the following dialog box is displayed. Select “Yes” when the test patterns are displayed normally. If not, select “No”.



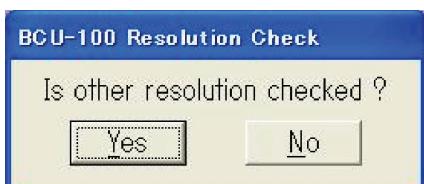
Ramp signal

After displaying the above test patterns for 15 seconds once again, the following dialog box is displayed. Select “Yes” when the test patterns are displayed normally. If not, select “No”.



Upon completion of the resolution check using the first resolution, the following dialog box is displayed. If you want to continue the resolution check using another resolution, select “Yes”. If you want to exit the resolution check, select “No”. When “Yes” is selected, the screen returns to the resolution sub menu. Select the number that you want to check to proceed to the resolution check with another resolution.

If “No” is selected, the screen returns to the “VIF-40 Board Check” after completion of the internal processing taking some time.



EDID Read

Reads EDID (Extended Display Identification Data) of the connected monitor.

* The monitor should have been connected earlier beforehand. (The power can be turned off.)
If the readout is performed successfully, the message OK is displayed in the dialog box and the following messages are saved in the log.

* The following shows an extract of the messages as an example.

==Vendor/Product ID/EDID version
EISA manufacturer code = 4DD9
Product code = 02D0
Serial number = 0094EE2B
Week of manufacture = 19
Year of manufacture = 2006
EDID Structure version = 1
EDID Revision = 3

If readout has failed, the message NG is displayed in the dialog box.

At the same time, the VIF-40 board information is saved in the log file .

* The following shows an extract of the messages as an example.

VIF information

CS1 : exist

Product name	:	BC
Board name	:	BB
Serial Number	:	01234
FPGA version	:	0104
Board revision	:	0
Board type	:	0
Reg0001	:	82
Reg0002	:	c0
Reg0051	:	40
Reg0052	:	00

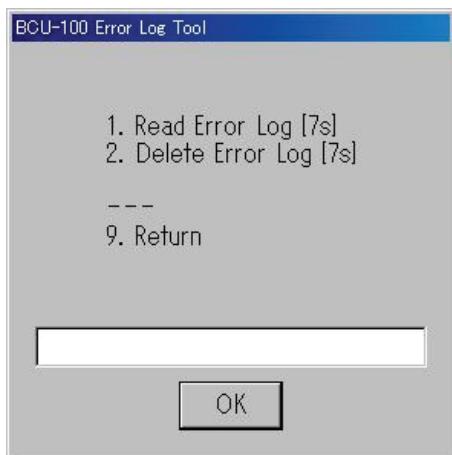
BE-VIF I/F Check

Checks communications (I2C bus and SPI bus) between the main board (BE-28) and the VIF-40 board.

(e) Error Log Tool

This item is used to check or delete the saved error log.

When the diagnostic item “5. Error Log Tool MENU” in the main menu is selected, the following submenu appears.



Read Error Log

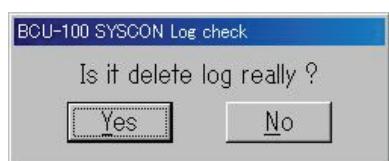
Reads an error log saved in the EEPROM. When an error log exists, it is judged as an error. In this case, the cause of the error can be identified by referring to the error details in the error code list.

Delete Error Log

Execute this to delete the error log saved in the EEPROM.

The error log saved in the EEPROM is not deleted automatically. Be sure to delete the error log after completing the maintenance.

When the deletion starts, the following dialog appears for the final confirmation of deletion.



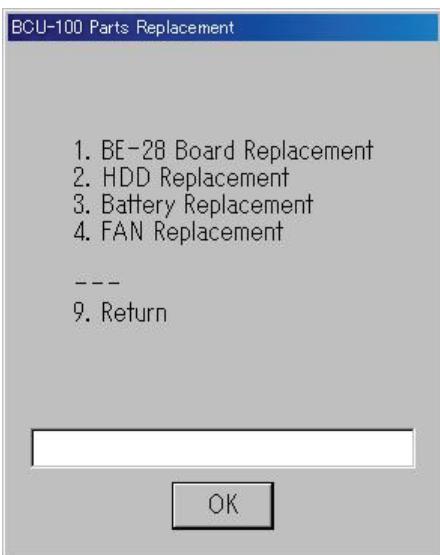
If the following dialog appears after deleting the error log, the error log is deleted correctly.



(f) Parts Replacement

This is an item to be used when replacing parts.

When “5. Parts Replacement” in the main menu is selected, the following submenu opens.



1) BE-28 Board Replacement

This is an item to be used when replacing the BE-28 board.

When the submenu item “1. BE-28 Board Replacement” is selected, the following submenu opens. Execute this item when replacing the BE-28 board.



Before Board Replacement

Execute this before removing the defective BE-28 board. The following items are executed.

- Read Log (SYSCON error log read check)
- Main Device Check (Internal check program for Cell/B.E., RSX, and SCC)
- Save FAN Hm (Saving FAN Hours Meter to a file)

After execution, the following dialog appears. This is the file name in which to save the BE-28 board bore removal. Write down the file name, and click “OK”.



This data is required for “After Board Replacement” that will be executed after the BE-28 board is replaced.

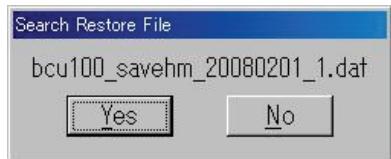
After Board Replacement

Execute this after the BE-28 board is replaced. The following items are executed.

- Restore FAN Hm (Restores the FAN Hours Meter data.)
- FAN Check (FAN rotation check)
- Main Device Check
- HDD Read Check
- USB Storage Check (Option * USB Memory is required.)
- Read Log (SYSCON error log read check)

After execution, the following dialog appears. Select the file name saved before replacing the BE-28 board by clicking “Yes” or “No”.

Click “Yes” for the correct file, and click “No” for the wrong one. If you click “No”, the other data files are displayed in sequence. Continue clicking “No” until the correct file is displayed.



If the data file does not exist, execute “Before BE-28 Board Replacement” again. If you clicked “No” by mistake, click “OK” when the following dialog is displayed, and execute this item again.

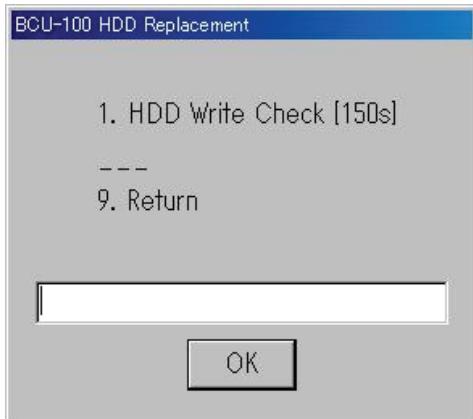


2) HDD Replacement

This is an item to be used when replacing the HDD.

When the submenu item “2. HDD Replacement” is selected, the following submenu opens.

This is an item to check “Write/Read/Verify” for the HDD. When this item is executed, the data in the HDD will be erased.



The following dialog appears when before executing this item. Click “Yes” to start execution.

Execution does not start when you click “No”.



3) Battery Replacement

This is an item to be used when replacing the battery.

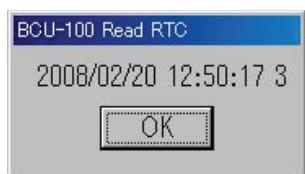
When the submenu item “3. Battery Replacement” is selected, the following submenu opens. Configure the RTC setting.



Read RTC

Reads the RTC in the unit. When this item is executed, the time that was read is displayed in the following dialog.

Click “OK” to close the dialog.



Display example)

2008/02/20 --- Date (YYYY/MM/DD)

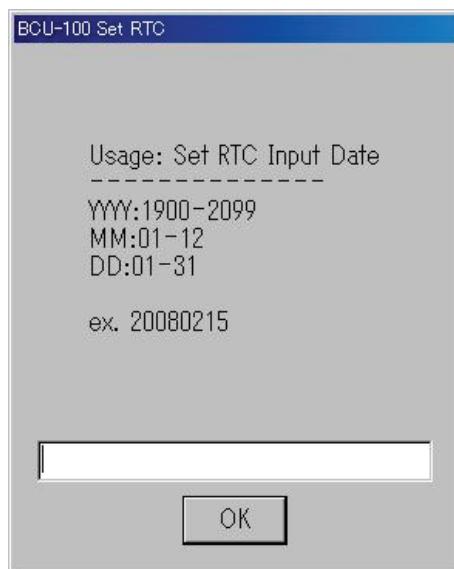
12 : 50 : 17 --- Time (hh : mm : ss)

3 --- Day of the Week (0 : Sun. 1 : Mon. 2 : Tue. 3 : Wed. 4 : Thu. 5 : Fri. 6 : Sat.)

Set RTC

Sets the time for the RTC in the unit. When this item is executed, the following dialog opens.

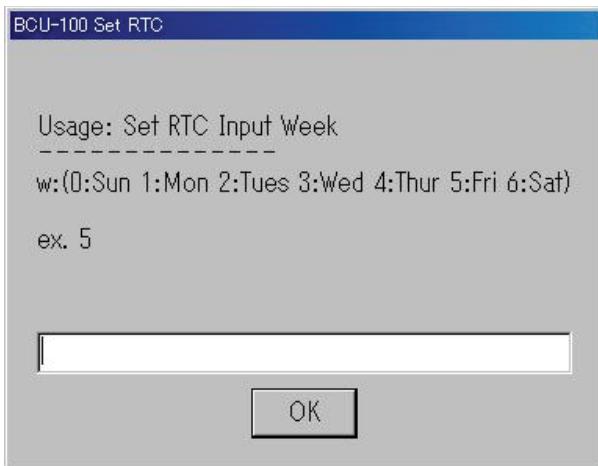
Enter a left-justified value for the date you want to set.



When the number of digits is wrong, the following dialog appears. Click “OK” and enter the date again.

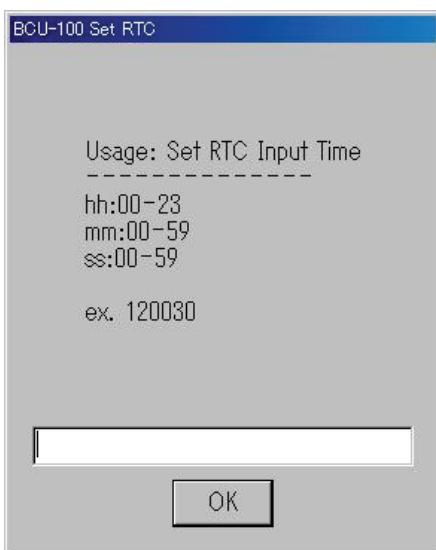


After the date is entered, the following screen for setting the day of the week appears. Enter the day of the week you want to set by following the example shown on the screen.



After the day of the week is entered, the time setting screen appears. Enter the time you want to set by following the example shown on the screen.

After the time is entered, the setting is saved. The saved time can be checked with “1. Read RTC”.

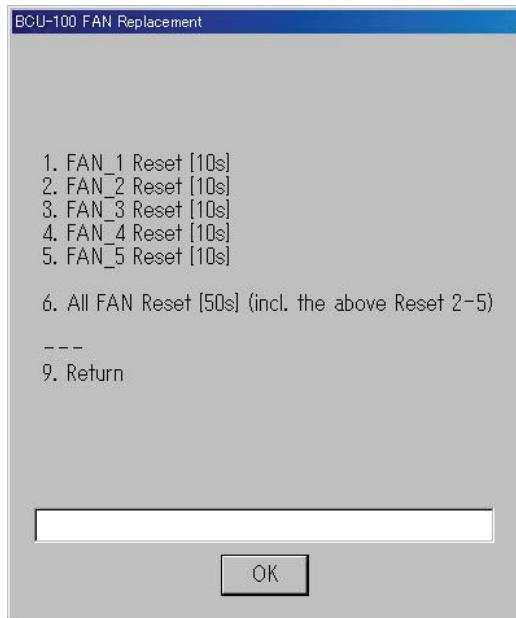


4) FAN Replacement

This is an item to be used when replacing the fan.

When the submenu diagnostic item “4. FAN Replacement” is selected, the following submenu opens.

*Hm: Hours Meter



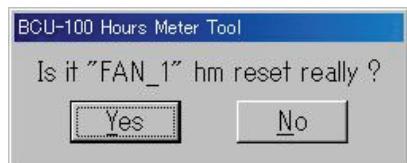
FAN_x Reset

Resets (zero clear) the fan operation time (Hours Meter) stored in the EEPROM in the unit. After the fan is replaced, reset the fan by selecting the corresponding fan number. The fan number can be checked by opening the top panel of the unit (a number is assigned to each duct). Select “Error Log Tool” > “Read Error Log” to check if the error code of the fan is retained. If it is retained, perform the following operations in the displayed order.

1. Identify the defective fan by referring to the error code list.
2. Replace the defective fan.
3. Reset (zero clear) the Hours Meter of the replaced fan.
4. Execute “Basic Check” > “FAN Check” to check the fan revolution speed.

The following dialog may appear while executing “FAN_x Reset”. This is displayed only when the replaced fan number does not match the error log. If this is known, click “Yes”.

When “No” is clicked, this item ends without resetting.



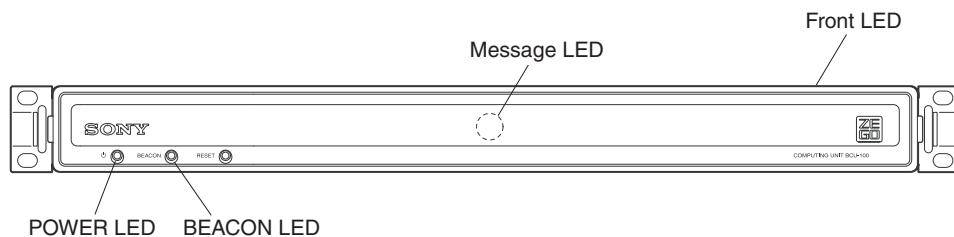
All FAN Reset (incl. the above Reset 1-5)

This mode executes items 1 through 5 for all fans. Execute this when all the fans are replaced such as for periodical replacement.

1-9-5. Checking the Operation State with LED Indication

Operation status can be checked with the POWER LED, BEACON LED, and message LED on the front panel, and the status LED and error LED inside the front panel.

1. Front panel LED indication



POWER LED / Message LED

The operation status can be checked with the POWER LED and the message LED on the front panel.

State	POWER LED	Message LED
Power off	Lights off	Lights off
AC power on (Standby state)	Lights in red	Lights off
Power UP operation	Blinks in green	Lights off
Firmware startup	Lights in green	Lights off
Normal operation	Lights in green	Lights in blue
Shutdown process	Blinks in red	Lights off
Shutdown complete (Standby state)	Lights in red	Lights off

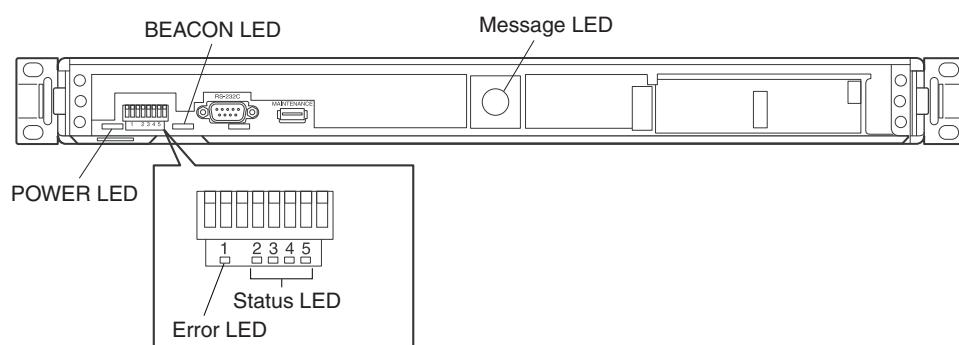
BEACON LED

Blinks when the BEACON command is received from the system control PC. This LED lights when the BEACON switch is pressed. The BEACOM LED on the rear panel operates in the same way as the BEACON LED on the front panel.

This is to facilitate the recognition of the unit to be checked when the checker is at the rear side.

2. LEDs inside the front panel

By removing the front panel, you can check the operation status with the POWER LED, BEACON LED, error LED, status LED, and message LED. (For how to remove the front panel, refer to "Section 1 Service Information".)



Message LED / Error LED

When an error occurs or a warning state is established, the Message LED on the front panel and the Error LED “1” (D107/KY-631 board) inside the front panel light or blink as follows.

When the Message LED blinks, remove the front panel and check the details of the Error LED “1”.

Status	Message LED	Error LED “1”
Warning* ¹	Blinks blue	Blinks red
Error* ²	Blinks red	Lights red

*1 : The status where an error of low urgency, such as a drop in the fan rotation rate, or the warning for the replacement time is detected.

*2 : The status where an error of high urgency, such as a power supply failure or temperature rise is detected and the BCU-100 is shut down.

Status LED

The lighting pattern of the LEDs corresponds to the error code, which enables you to identify the status.

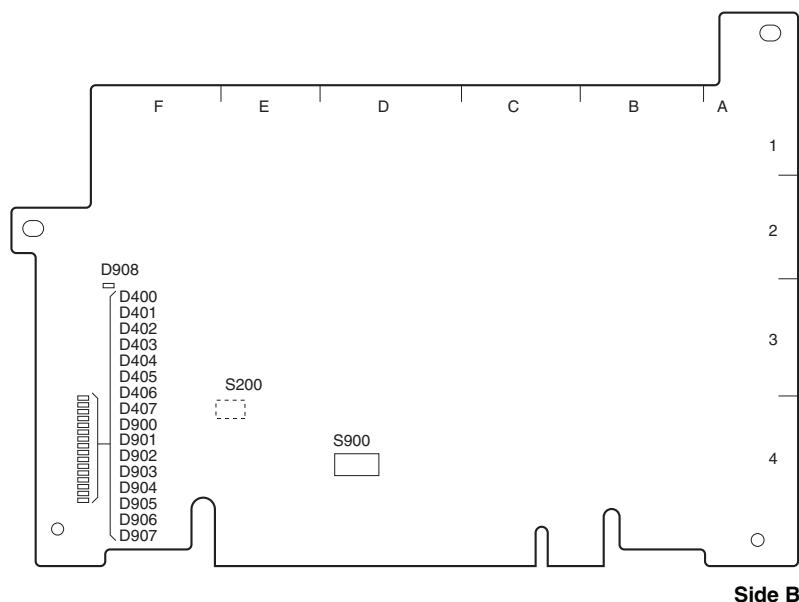
When an abnormality is detected and error LED “1” inside the front panel lights in red or blinks in red, four status LEDs from “2” to “5” (D108 to D111/KY-631 board) lights as follows.

Error code	“1” (Error LED)	“2” to “5” (Status LED)	Possible cause
1	Light / Blink		The hardware has a problem.
2	Light / Blink		The hardware has a problem.
3	Light / Blink		Not used
4	Light / Blink		The fan has a problem.
5	Light / Blink		The temperature has risen.
6	Light / Blink		The power supply has a problem.
7	Light / Blink		Action around the Cell/B.E. chip on the BE-28 board has a problem.
8	Light / Blink		Action around the RSX chip on the BE-28 board has a problem.
9	Light / Blink		Not used
A	Light / Blink		Not used
B	Light / Blink		Not used
C	Light / Blink		Not used
D	Light / Blink		The lithium battery on the BE-28 board has a problem.
E	Light / Blink		The system control has a problem.
F	Light / Blink		The system control is operating in backup mode.

Note: When LED “1” is unlit (normal operation), all the LEDs from “2” to “5” light up. However, when the unit starts in the backup mode with dip switch (S102/KY-631 board) No. 1 (S102-1) inside the front panel turned ON, all the LEDs from “2” to “5” blink while LED “1” stays unlit.

3. MEM-122/MEM-126 board (BKCU-EX1) LED

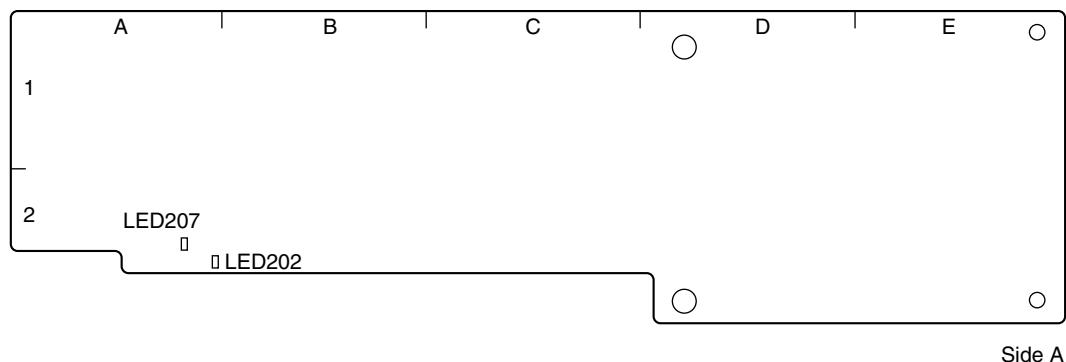
The condition of this board can be checked with the LEDs on the option board MEM-122/MEM-126. (The LEDs on the board can be checked by opening the top panel of the unit. For how to remove the top panel, and the MEM-122/MEM-126 installation position, refer to Section “1. Service Overview”.)



Ref No.	Address	Name	Indication color	Function	Normal state
D400	(F-4)	FPGA Status	Green	Blinks when clock is normal.	Blinking
D401	(F-4)		Green	Blinks when clock is normal.	Blinking
D402	(F-4)		Green	Lights when clock is normal.	Lights on
D403	(F-4)		Green	Lights when clock is normal.	Lights on
D404	(F-4)		Green	Lights when clock is normal.	Lights on
D405	(F-4)		Green	Lights when DIMM training completed normally.	Lights on
D406	(F-4)		Green	Lights when PCI Express Link Up.	Lights on
D407	(F-4)		Red	Lights when reset. Blinks when FPGA temperature exceeds 80 °C.	Lights off
D900	(F-4)	PLD Status	Green	Always lit.	Lights on
D901	(F-4)		Green	Lights when FPGA operates normally.	Lights on
D902	(F-4)		Green	Lights when saving in the flash memory is complete.	Lights off
D903	(F-4)		Green	Lights when the flash memory is cleared.	Lights off
D904	(F-4)		Green	Lights when FPGA operates normally.	Lights on
D905	(F-4)		Green	Lights when FPGA operates normally.	Lights on
D906	(F-4)		Green	Lights when FPGA operates normally.	Lights on
D907	(F-4)		Red	Lights when reset.	Lights off
D908	(F-3)		Green	Lights when PLD OK.	Lights on

4. VIF-40 board (BKCU-VD1) LED

The LEDs on the optional board VIF-40 allow the operator to check the status of the VIF-40 board. (Open the top panel of the machine to access the LEDs on the VIF-40 board. For the procedure of removing the top panel and the location of the VIF-40 board, refer to “Section 1. Service Overview”.)



Ref No.	Address	Name	Indication color	Function	Normal state
LED202	(A-2)	MSEN	Orange	Lights when the external monitor is connected.	Lights off
LED207	(A-2)	PLD_LED	Green	Lights when FPGA configuration is complete.	Lights on

1-9-6. Error Code List

Error code	Error summary	Possible cause and remedy
0x10010001	SYS CON connect error	The DIP switch of the front KY-631 board is not set to the Diag setting. The serial cable is not connected to the front RS-232C connector. If the conditions above are normal, SYS CON may not be running. Settings of the front DIP switch 1: OFF 2: OFF 3: OFF 4: OFF 5: OFF 6: OFF 7: OFF 8: ON
0x10010002	Bringup error	The serial cable is not connected to the front RS-232C connector. If it is connected, the KY-631 or BE-28 board may be defective.
0x10010003	Hours meter data save error	SYS CON may not be running, or EEPROM cannot be read. The SYS CON circuit may be defective.
0x10010004	exist error log	An error log exists in SYS CON EEPROM.
0x10010005	FAN check error	The fan revolution speed may be defective. The damaged fan can be identified by referring to the log file. e.g.) [ERROR] FAN1 ...NG
0x10010006	Hours meter data restore error	SYS CON may not be running, or EEPROM cannot be read. The SYS CON circuit may be defective.
0x10010007	Read RTC error Error when the rtc_r command could not be executed normally	SYS CON may not be running, or the EEPROM cannot be read. The SYS CON circuit may be defective.
0x10010008	Set RTC error Error when the rtc_w command could not be executed normally	SYS CON may not be running, or the EEPROM cannot be read. The SYS CON circuit may be defective.
0x10020001	Main Device Check error	Displayed when the Main Device Check is not finished normally. Inside of either Cell/B.E., SCC, or RSX chip may be defective.
0x10020002	HDD Write check error Error when the HDD write/read/verify check is not finished normally	The "Error" item in the log file causes defect. The inside of the SCC chip may be defective.
0x10030001	Boot select set error	The DIP switch of the front KY-631 board is not set to the Diag setting. Serial cables are not connected to the front RS-232C connector.
0x10030002	Firm Memory test error	The DDR2 or XDR memory may be defective. A defective device may be identified by executing the Main Device Check.
0x10030003	Firm command error	The DIP switch of the front KY-631 board is not set to the Diag setting. Serial cables are not connected to the front RS-232C connector. When these settings are set correctly, the Firmware may have not started normally.
0x10030004	Firm connect error	The DIP switch of the front KY-631 board is not set to the Diag setting. Serial cables are not connected to the front RS-232C connector. If the conditions above are normal, the Firmware may not be running.
0x10040001	data not found error	The specified data may be wrong when restoring the data to the BE-28 board.
0x0a010001	HDD type mismatch error	The model name of the replaced HDD may differ from the initial one.
0x0a010002	read test error of ATA0 device	The HDD may be defective.
0x0c040003	Error when the USB memory storage is not recognized	Check that the USB memories are connected to the two rear USB connectors and the front MAINTENANCE connector. If they are connected correctly, the KY-631 board or the BE-28 board may be defective.
0x0c040004	read test error of USB memory storage	Check if the memory is connected to all three USB connectors. If it is connected, the KY-631 or BE-28 board may be defective.
0x0c090002	PCIE memory test error	The memory of the MEM-122/MEM-126 board may be defective.
0x0c090004	xramdrv timeout error	The MEM-122/MEM-126 board may be defective or have connection failure.
0x0c090005	xramdrv device driver error	The MEM-122/MEM-126 board may be defective or have connection failure.

Error code	Error summary	Possible cause and remedy
0x0c090006	MEM-122/MEM-126 board memory program error	The MEM-122/MEM-126 board may be defective or have connection failure.
0x0c090007	Cannot obtain memory size error	The error check program (xram uty) did not operate correctly. Or the MEM-122/MEM-126 board may be defective.
0x0c090008	Memory size error	The MEM-122/MEM-126 board may be defective or have connection failure.
0x0c09000a	Temperature sensing error of FPGA on the MEM-122/MEM-126 board	The heat sink on the MEM-122/MEM-126 board may not be installed correctly. Or it may be used in the circumstance where the exhaust or intake surface is covered.
0x0c09000b	Temperature sensing error on the MEM-122/MEM-126 board	The heat sink on the MEM-122/MEM-126 board may not be installed correctly. Or it may be used in the circumstance where the exhaust or intake surface is covered.
0x0c09000d	Device file error	The MEM-122/MEM-126 board may not be connected correctly. Or the MEM-122/MEM-126 board may be defective.
0x0d120001	EDID read error Error when the EDID data is unable to read.	Monitor is not connected to the DVI connector. Alternately, an error in between I2C0 and DDC of the VIF-40 board is probable.
0x0d120002	Hot Plug error Error when the Hot Plug Detect signal cannot be sent via transmission.	Monitor is not connected to the DVI connector. Alternately, an error in between I2C1, FPGA and SII1178 of the VIF-40 board is probable.
0x0d120003	EDID Structure version error Error when the EDID Structure version is "0".	Monitor supporting DDC is not connected. Alternately, the defective VIF-40 board is probable.
0x0d120004	Unknown error of the VIF-40 board check Error if version is null when reading the EDID Structure version.	Monitor supporting DDC is not connected. Alternately, the defective VIF-40 board is probable.
0x0d120005	EDID checksum error	Defective VIF-40 board is probable.
0xE0xxxxxx	Peripherals of main devices error	Defect of Cell/B.E., RSX, SCC, or peripherals, or defect of supply power or clock system.
0xE1xxxxxx	BE error	Operation defect of Cell/B.E., memory (XDR), or SPU, or defect of supply power or clock system.
0xE2xxxxxx	XDR memory test error using PPU/SPU	Defect of the memory (XDR) or Cell/B.E., or defect of the power supply or clock system.
0xE3xxxxxx	RSX error	Defect of RSX, such as internal logic defect, GDDR3 defect, or RRAC defect, defect of supply power or clock system.
0xE4xxxxxx	SB error	Error such as the power supply system for the SB is defective, an error in between GBE and PHY, inappropriate USB (HS) device is inserted in the port.

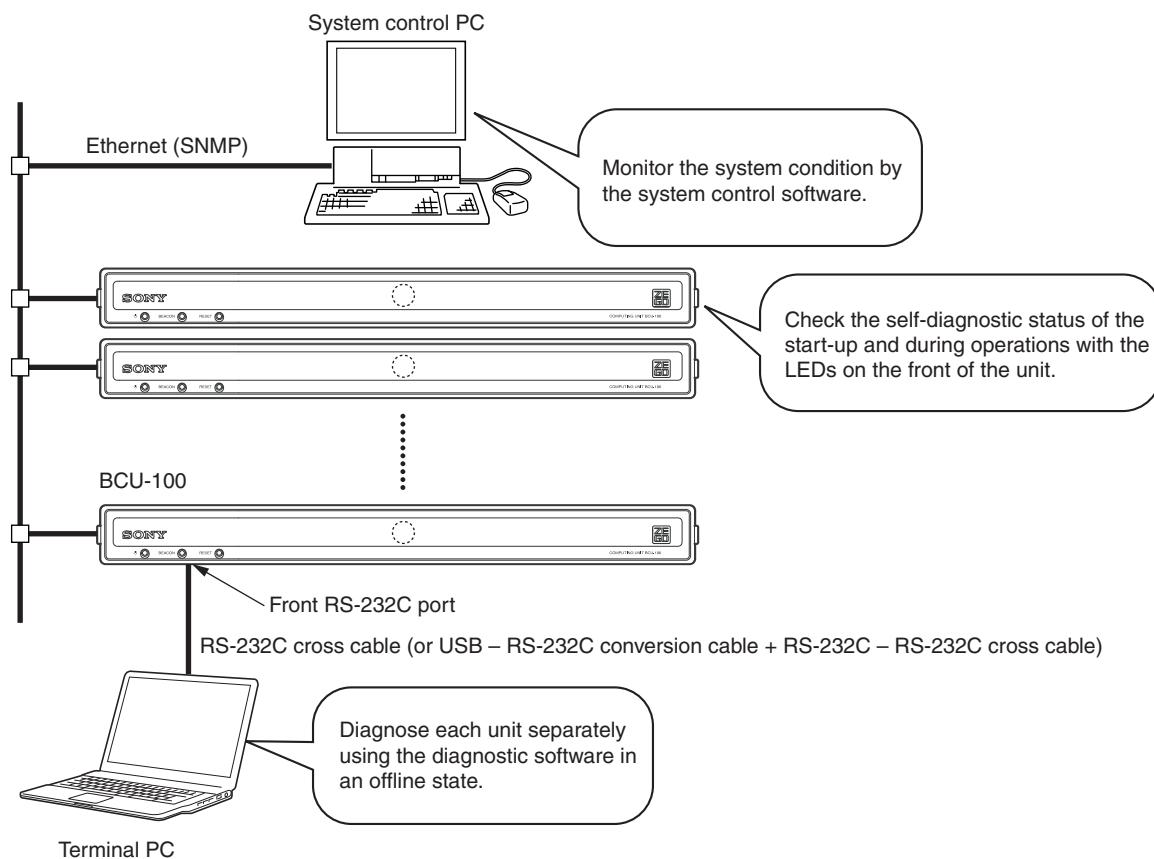
1-9-7. System

System check

When forming a cluster system using the BCU-100, the status of each unit can be monitored by SNMP. In addition, when a control PC is mounted, the system can be monitored as a cluster system by the open source and commercial system control software.

By connecting the terminal PC to the Syscon Controller via RS-232C, the power on/off operation for the BCU-100 can be controlled, and the information such as temperature and fan rotation speed can be obtained.

For details, refer to the vendor who designed the system.



Section 2

Spare Parts

2-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked △ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Harness

Harnesses with no part number are not registered as spare parts.

2-1. 補修部品注意事項

1. 安全重要部品

△警告

△印のついた部品は安全性を維持するために重要な部品です。したがって、交換する時は必ず指定の部品を使ってください。

2. 部品の共通化

ソニーから供給する補修用部品は、セットに使われているものと異なることがあります。
これは部品の共通化、改良等によるものです。

3. 部品の在庫

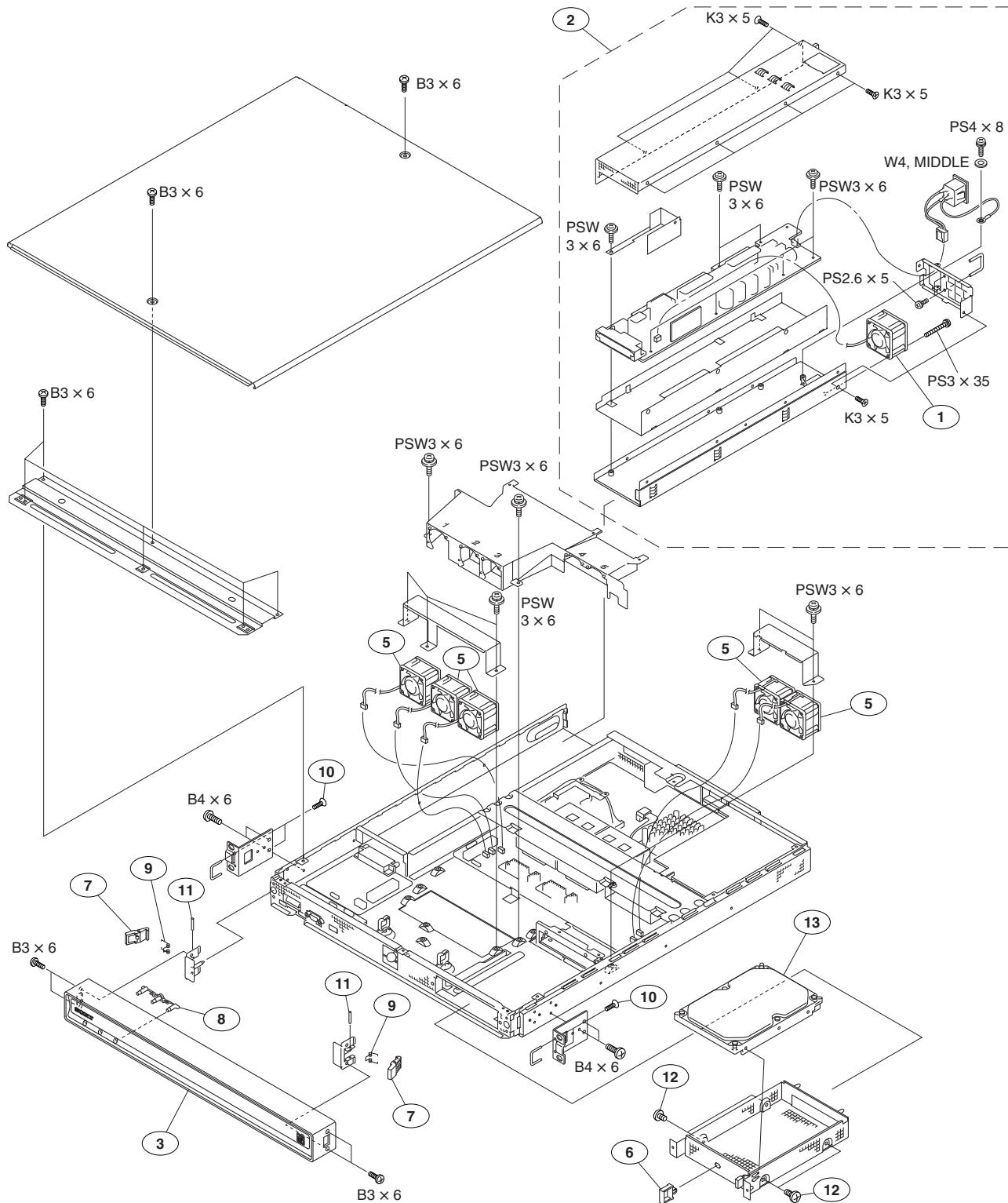
部品表のSP (Supply code) 欄に “o” で示される部品は在庫していないことがあります、納期が長くなることがあります。

4. ハーネス

部品番号が記載されていないハーネスは、サービス部品として登録されません。

Chassis Block-1

2-2. Exploded Views



No. Part No. SP Description

1 △ A-1528-326-A s FAN ASSY, POWER
2 A-1531-936-A s POWER ASSY
3 X-2189-783-1 s PANEL SUB ASSY, FRONT
5 △ 1-787-737-11 s FAN, DC (SQUARE 40)
6 3-172-089-01 o HANDLE

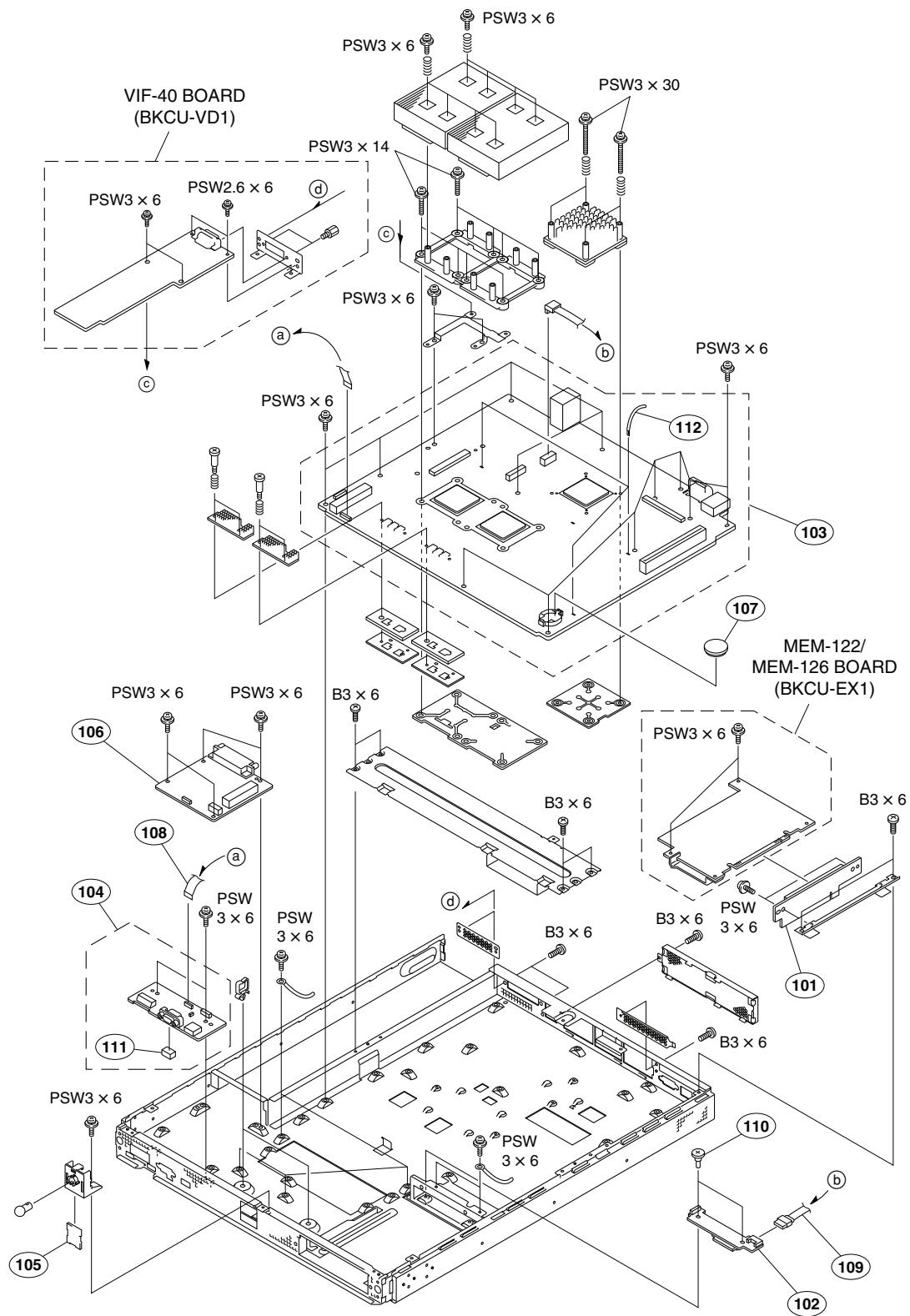
7 3-299-006-02 s LEVER(F),LOCK
8 3-299-007-01 s KEY TOP 1
9 3-299-033-01 s SPRING (F), TORSION COIL
10 3-345-461-01 s SCREW (+K) (2.6X6)
11 3-649-266-01 s PIN, PARALLEL

12 4-613-955-11 s SCREW
13 A-1544-877-A s HDD ASSY

7-628-254-05 s SCREW +PS 2.6X5
7-682-246-04 s SCREW +K 3X5
7-682-547-09 s SCREW +B 3X6
7-682-560-09 s SCREW +B 4X6
7-682-656-01 s SCREW +PS 3X35

7-682-661-01 s SCREW +PS 4X8
7-682-947-01 s SCREW +PSW 3X6
7-688-004-11 o W 4, MIDDLE

Chassis Block-2



No.	Part No.	SP Description
101	A-1283-776-A	S MOUNTED CIRCUIT BOARD, EX-1076
102	A-1334-381-A	S MOUNTED CIRCUIT BOARD, CN-3056
103	A-1506-777-A	S MOUNTED CIRCUIT BOARD, BE-28
104	A-1506-786-A	S MOUNTED CIRCUIT BOARD, KY-631
105	A-1506-787-A	S MOUNTED CIRCUIT BOARD, LED-471
106	A-1506-788-A	S MOUNTED CIRCUIT BOARD, RE-255
107	▲ 1-528-174-11	S BATTERY, LITHIUM (CR2032 TYPE)
108	1-835-075-11	S CABLE, FLEXIBLE FLAT (20 CORE)
109	1-835-198-11	S CABLE, SATA
110	3-299-010-01	S SHAFT, STEP
111	3-561-426-01	S CUSHION
112	3-683-631-01	O CLAMP

7-621-759-45 S SCREW +PSW 2.6X6
7-682-547-09 S SCREW +B 3X6
7-682-947-01 S SCREW +PSW 3X6
7-682-951-01 S SCREW +PSW 3X14
7-682-955-01 S SCREW +PSW 3X30

2-3. Electrical Parts List

2-3-1. BCU-100

BE-28 BOARD

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1506-777-A	s MOUNTED CIRCUIT BOARD, BE-28	C1533	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
1pc	▲ 1-528-174-11	s BATTERY, LITHIUM (CR2032 TYPE)	C1801	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
3pcs	3-683-631-01	o CLAMP	C1802	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
8pcs	7-682-947-01	s +PSW 3X6	C1803	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
8pcs	7-682-951-01	s +PSW 3X14	C1804	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
4pcs	7-682-955-01	s +PSW 3X30	C1805	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1001	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1806	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1004	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1807	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1005	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1808	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1006	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1809	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1009	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1810	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1010	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1811	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1011	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1812	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1012	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1813	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1014	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1814	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1015	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1815	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1016	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1816	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1017	1-100-574-81	s CAP, CHIP CERAMIC 270PF B 1005	C1817	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1018	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005	C1818	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1019	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1819	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1020	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1820	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1021	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1821	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1022	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1822	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1023	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1823	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1024	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1824	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1025	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1825	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1026	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1826	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1027	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1830	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C1028	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1831	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C1029	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1835	1-114-256-21	s CAP, CHIP ELECT 390MF
C1108	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1838	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1113	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1839	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1119	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1840	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1124	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1841	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1501	1-165-798-21	s CAP, CHIP ELECT 100MF (7343)	C1842	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1502	1-165-989-91	s CAP, CERAMIC 10MF (2012)	C1843	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1503	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1844	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1504	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1845	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1505	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1846	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1506	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1847	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1507	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1848	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1508	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1849	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1509	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1850	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1510	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1851	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1511	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1852	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1512	1-100-611-91	s CAP, CERAMIC 22MF C (2012)	C1853	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1513	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1854	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1514	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1855	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1515	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1856	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1516	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1857	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1517	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1858	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1518	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1859	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1519	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1860	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1520	1-112-717-91	s CAP, CERAMIC 1UF B (1005)	C1861	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1527	1-100-611-91	s CAP, CERAMIC 22MF C (2012)	C1866	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1530	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1867	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1531	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1868	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C1532	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	C1869	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
			C1870	1-112-717-91	s CAP, CERAMIC 1UF B (1005)

(BE-28 BOARD)

(BE-28 BOARD)

(BE-28 BOARD)

(BE-28 BOARD)

(BE-28 BOARD)

Ref. No.
or Q'ty Part No. SP Description

C5016	1-112-692-81	s	CAP, CHIP CERAMIC	1000PF	CH	1005
C5018	1-164-173-91	s	CAP, CERAMIC	3900PF	B	1608
C5019	1-164-173-91	s	CAP, CERAMIC	3900PF	B	1608
C5020	1-164-850-81	s	CAP, CHIP CERAMIC	10PF	CH	1005
C5021	1-164-850-81	s	CAP, CHIP CERAMIC	10PF	CH	1005

C5032	1-165-989-91	s	CAP,	CERAMIC	10MF	(2012)		
C5033	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C5034	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C5035	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C5036	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005

C5037	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B	1005
C5038	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B	1005
C5039	1-165-989-91	s CAP, CERAMIC 10MF (2012)	
C5040	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH	1005
C5041	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH	1005

C5042	1-112-692-81	s	CAP, CHIP CERAMIC1000PF CH 1005
C5043	1-112-692-81	s	CAP, CHIP CERAMIC1000PF CH 1005
C5044	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C5045	1-112-692-81	s	CAP, CHIP CERAMIC1000PF CH 1005
C5046	1-125-777-81	s	CAP, CHIP CERAMIC 0.1MF B 1005

C5048 1-165-989-91 s CAP, CERAMIC 10MF (2012)
C5054 1-165-989-91 s CAP, CERAMIC 10MF (2012)
C5055 1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C5056 1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C5057 1-165-989-91 s CAP, CERAMIC 10MF (2012)

C5058	1-112-692-81	s	CAP, CHIP	CERAMIC1000PF	CH	1005
C5059	1-112-692-81	s	CAP, CHIP	CERAMIC1000PF	CH	1005
C5060	1-112-692-81	s	CAP, CHIP	CERAMIC1000PF	CH	1005
C5061	1-112-692-81	s	CAP, CHIP	CERAMIC1000PF	CH	1005
C5062	1-112-717-91	s	CAP, CERAMIC	1UF	B (1005)	

C5063	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5064	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C5065	1-162-979-91	s CAP,CERAMIC 2700PF B 1608
C5066	1-162-979-91	s CAP,CERAMIC 2700PF B 1608
C5069	1-162-979-91	s CAP,CERAMIC 2700PF B 1608

C5070	1-162-979-91	s	CAP, CERAMIC	2700PF	B	1608
C5071	1-162-979-91	s	CAP, CERAMIC	2700PF	B	1608
C5072	1-162-979-91	s	CAP, CERAMIC	2700PF	B	1608
C5073	1-162-979-91	s	CAP, CERAMIC	2700PF	B	1608
C5074	1-162-979-91	s	CAP, CERAMIC	2700PF	B	1608

C5075	1-162-979-91	s	CAP, CERAMIC	2700PF	B	1608
C5076	1-162-979-91	s	CAP, CERAMIC	2700PF	B	1608
C5082	1-162-979-91	s	CAP, CERAMIC	2700PF	B	1608
C5083	1-162-979-91	s	CAP, CERAMIC	2700PF	B	1608
C5087	1-125-777-81	s	CAP, CHIP, CERAMIC	0.1MF	B	1005

C5091	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B	1005
C5093	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B	1005
C5095	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B	1005
C5101	1-112-692-81	s CAP, CHIP CERAMIC1000PF CH	1005
C5102	1-112-692-81	s CAP CHIP CERAMIC1000PF CH	1005

C5103	1-112-692-81	s	CAP, CHIP CERAMIC1000PF CH 1005
C5226	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C5227	1-112-746-91	s	CAP, CERAMIC 4.7MF B (1608)
C5228	1-125-777-81	s	CAP, CHIP CERAMIC 0.1MF B 1005
C5423	1-125-777-81	s	CAP, CHIP CERAMIC 0.1MF B 1005

C5424 1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C5425 1-165-989-91 s CAP, CERAMIC 10MF (2012)
C5426 1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C5427 1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005

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C5428	1-100-567-81	s	CAP,CHIP	CERAMIC	0.01MF	B	1005
C5429	1-100-567-81	s	CAP,CHIP	CERAMIC	0.01MF	B	1005
C5430	1-100-567-81	s	CAP,CHIP	CERAMIC	0.01MF	B	1005
C5431	1-100-567-81	s	CAP,CHIP	CERAMIC	0.01MF	B	1005
C5432	1-100-567-81	s	CAP,CHIP	CERAMIC	0.01MF	B	1005

C5433	1-100-567-81	s	CAP, CHIP	CERAMIC	0.01MF	B	1005
C5434	1-100-567-81	s	CAP, CHIP	CERAMIC	0.01MF	B	1005
C5435	1-100-567-81	s	CAP, CHIP	CERAMIC	0.01MF	B	1005
C5436	1-100-567-81	s	CAP, CHIP	CERAMIC	0.01MF	B	1005
C5437	1-165-989-91	s	CAP, CERAMIC	10MF	(2012)		

C5438	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5439	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C5440	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5441	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5442	1-165-989-91	s CAP, CERAMIC 10MF (2012)

C5443	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5444	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C5445	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C5446	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5447	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005

C5448	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C5449	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C5450	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C5451	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C5452	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005

C5453	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C5454	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5455	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5610	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C5611	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005

C5620	1-164-850-81	s	CAP, CHIP CERAMIC	10PF	CH	1005
C5621	1-164-850-81	s	CAP, CHIP CERAMIC	10PF	CH	1005
C5625	1-164-850-81	s	CAP, CHIP CERAMIC	10PF	CH	1005
C5626	1-164-850-81	s	CAP, CHIP CERAMIC	10PF	CH	1005
C5628	1-117-692-81	s	CAP, CHIP CERAMIC	1000PF	CH	1005

C5629	1-112-692-81	s	CAP,CHIP	CERAMIC1000PF	CH	1005
C5630	1-112-692-81	s	CAP,CHIP	CERAMIC1000PF	CH	1005
C6021	1-100-415-91	s	CAP,	CHIP	CERAMIC	0.47MF (1005)
C6022	1-100-415-91	s	CAP,	CHIP	CERAMIC	0.47MF (1005)
C6023	1-100-415-91	s	CAP,	CHIP	CERAMIC	0.47MF (1005)

C6024	1-164-850-81	s	CAP,	CHIP	CERAMIC	10PF	CH	1005
C6025	1-164-850-81	s	CAP,	CHIP	CERAMIC	10PF	CH	1005
C6026	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6027	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6028	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005

C6046	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6047	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6048	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6049	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6053	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005

C6054	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6060	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6061	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6062	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005
C6063	1-125-777-81	s	CAP,	CHIP	CERAMIC	0.1MF	B	1005

C6064	1-125-777-81	s CAP, CHIP CERAMIC	0.1MF	B	1005
C6065	1-125-777-81	s CAP, CHIP CERAMIC	0.1MF	B	1005
C6066	1-125-777-81	s CAP, CHIP CERAMIC	0.1MF	B	1005
C6067	1-125-777-81	s CAP, CHIP CERAMIC	0.1MF	B	1005

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C7131	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7132	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7133	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7134	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7135	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7136	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7137	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7138	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7139	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7140	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7141	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7142	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7143	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7144	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7145	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7146	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7147	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7148	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7149	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7150	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7151	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7152	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7153	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7154	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7155	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7156	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7157	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7158	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7159	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7160	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7161	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7162	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225
C7163	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225
C7164	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225
C7166	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7167	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7168	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7169	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7170	1-112-298-91 o CAP, CERAMIC 1MF B (1608)
C7171	1-112-692-81 s CAP, CHIP CERAMIC1000PF CH 1005
C7172	1-112-692-81 s CAP, CHIP CERAMIC1000PF CH 1005
C7173	1-112-692-81 s CAP, CHIP CERAMIC1000PF CH 1005
C7174	1-114-167-21 s CAP, ELECT 1200MF 105
C7175	1-114-167-21 s CAP, ELECT 1200MF 105
C7176	1-114-167-21 s CAP, ELECT 1200MF 105
C7177	1-114-167-21 s CAP, ELECT 1200MF 105
C7178	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7180	1-112-692-81 s CAP, CHIP CERAMIC1000PF CH 1005
C7181	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608
C7182	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7183	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7200	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7201	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608
C7202	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608
C7203	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608
C7204	1-112-015-91 s CAP, CHIP CERAMIC 47MF B 3225
C7205	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7206	1-112-015-91 s CAP, CHIP CERAMIC 47MF B 3225
C7207	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608

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C7209	1-100-567-81 s CAP,CHIP CERAMIC 0.01MF B 1005
C7210	1-164-874-81 s CAP,CHIP CERAMIC 100PF CH 1005
C7211	1-112-861-11 s CAP, ELECT 150MF (8X7.7)
C7212	1-112-861-11 s CAP, ELECT 150MF (8X7.7)
C7213	1-112-861-11 s CAP, ELECT 150MF (8X7.7)
C7214	1-112-861-11 s CAP, ELECT 150MF (8X7.7)
C7215	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7216	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7217	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7219	1-112-692-81 s CAP,CHIP CERAMIC1000PF CH 1005
C7220	1-112-692-81 s CAP,CHIP CERAMIC1000PF CH 1005
C7221	1-112-692-81 s CAP,CHIP CERAMIC1000PF CH 1005
C7222	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7223	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7224	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7225	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7226	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005
C7227	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608
C7228	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7229	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7230	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7231	1-112-692-81 s CAP,CHIP CERAMIC1000PF CH 1005
C7232	1-112-298-91 o CAP, CERAMIC 1MF B (1608)
C7233	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7234	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7235	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7237	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225
C7238	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225
C7239	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225
C7240	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7242	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216
C7243	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7244	1-112-692-81 s CAP,CHIP CERAMIC1000PF CH 1005
C7245	1-112-692-81 s CAP,CHIP CERAMIC1000PF CH 1005
C7246	1-112-692-81 s CAP,CHIP CERAMIC1000PF CH 1005
C7248	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7249	1-164-379-91 s CAP, CERAMIC 43PF CH 1608
C7250	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608
C7252	1-100-567-81 s CAP,CHIP CERAMIC 0.01MF B 1005
C7253	1-100-567-81 s CAP,CHIP CERAMIC 0.01MF B 1005
C7254	1-107-819-81 s CAP,CHIP CERAMIC 22000PF B1005
C7255	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7256	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225
C7258	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608
C7259	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608
C7260	1-114-167-21 s CAP, ELECT 1200MF 105
C7261	1-114-167-21 s CAP, ELECT 1200MF 105
C7262	1-114-167-21 s CAP, ELECT 1200MF 105
C7264	1-114-167-21 s CAP, ELECT 1200MF 105
C7265	1-112-717-91 s CAP, CERAMIC 1UF B (1005)
C7266	1-112-717-91 s CAP, CERAMIC 1UF B (1005)
C7267	1-112-717-91 s CAP, CERAMIC 1UF B (1005)
C7268	1-112-717-91 s CAP, CERAMIC 1UF B (1005)
C7269	1-112-717-91 s CAP, CERAMIC 1UF B (1005)
C7270	1-112-298-91 o CAP, CERAMIC 1MF B (1608)
C7271	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216
C7272	1-100-391-21 s CAP, ELECT 180MF (5X6)
C7273	1-112-717-91 s CAP, CERAMIC 1UF B (1005)
C7274	1-112-717-91 s CAP, CERAMIC 1UF B (1005)

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C7275	1-112-717-91 s CAP, CERAMIC 1UF B (1005)	C7345	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7276	1-100-391-21 s CAP, ELECT 180MF (5X6)	C7346	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7277	1-112-717-91 s CAP, CERAMIC 1UF B (1005)	C7347	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)		
C7278	1-112-717-91 s CAP, CERAMIC 1UF B (1005)	C7348	1-114-256-21 s CAP, CHIP ELECT 390MF		
C7280	1-100-391-21 s CAP, ELECT 180MF (5X6)	C7349	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7285	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C7350	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7292	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7351	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7293	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7352	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)		
C7294	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7353	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)		
C7295	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7354	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)		
C7296	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7355	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)		
C7297	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7356	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)		
C7298	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7363	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7299	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7400	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7300	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7401	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7301	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7402	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225		
C7302	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7403	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225		
C7303	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7407	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216		
C7304	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7408	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216		
C7305	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7409	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216		
C7306	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7410	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7307	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7412	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7308	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)	C7415	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7309	1-112-717-91 s CAP, CERAMIC 1UF B (1005)	C7416	1-107-819-81 s CAP, CHIP CERAMIC 22000PF B1005		
C7310	1-112-746-91 s CAP, CERAMIC 4.7MF B (1608)	C7417	1-107-819-81 s CAP, CHIP CERAMIC 22000PF B1005		
C7311	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7418	1-107-819-81 s CAP, CHIP CERAMIC 22000PF B1005		
C7312	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7419	1-164-379-91 s CAP, CERAMIC 43PF CH 1608		
C7313	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7420	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7314	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7421	1-164-379-91 s CAP, CERAMIC 43PF CH 1608		
C7315	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)	C7422	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7316	1-112-717-91 s CAP, CERAMIC 1UF B (1005)	C7423	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7317	1-112-746-91 s CAP, CERAMIC 4.7MF B (1608)	C7424	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7318	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7425	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7319	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7426	1-100-567-81 s CAP, CHIP CERAMIC 0.01MF B 1005		
C7320	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7427	1-100-567-81 s CAP, CHIP CERAMIC 0.01MF B 1005		
C7321	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7428	1-100-567-81 s CAP, CHIP CERAMIC 0.01MF B 1005		
C7322	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)	C7429	1-100-567-81 s CAP, CHIP CERAMIC 0.01MF B 1005		
C7323	1-112-717-91 s CAP, CERAMIC 1UF B (1005)	C7430	1-100-567-81 s CAP, CHIP CERAMIC 0.01MF B 1005		
C7324	1-112-746-91 s CAP, CERAMIC 4.7MF B (1608)	C7431	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7325	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7432	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7326	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7433	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7327	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7434	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7328	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7435	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7329	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)	C7436	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7330	1-112-717-91 s CAP, CERAMIC 1UF B (1005)	C7437	1-112-298-91 o CAP, CERAMIC 1MF B (1608)		
C7331	1-112-015-91 s CAP, CHIP CERAMIC 47MF B 3225	C7438	1-112-298-91 o CAP, CERAMIC 1MF B (1608)		
C7332	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7439	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7333	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7440	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7334	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7441	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7335	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7442	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7336	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)	C7443	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7337	1-112-717-91 s CAP, CERAMIC 1UF B (1005)	C7444	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7338	1-114-256-21 s CAP, CHIP ELECT 390MF	C7445	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216		
C7339	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7446	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216		
C7340	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7447	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7341	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7448	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7342	1-100-415-91 s CAP, CHIP CERAMIC 0.47MF(1005)	C7449	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7343	1-114-256-21 s CAP, CHIP ELECT 390MF	C7450	1-100-391-21 s CAP, ELECT 180MF (5X6)		
C7344	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7451	1-100-391-21 s CAP, ELECT 180MF (5X6)		

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
C7664	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225	C7762	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7665	1-107-819-81 s CAP, CHIP CERAMIC 22000PF B1005	C7808	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7666	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225	C7809	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7667	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225	C7811	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7668	1-112-298-91 o CAP, CERAMIC 1MF B (1608)	C7813	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7669	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C7814	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7670	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216	C7815	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7671	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C7816	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7672	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C7817	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7673	1-100-391-21 s CAP, ELECT 180MF (5X6)	C7818	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7674	1-100-391-21 s CAP, ELECT 180MF (5X6)	C7820	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7675	1-100-391-21 s CAP, ELECT 180MF (5X6)	C7821	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7676	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C7823	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7684	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225	C8001	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7685	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8002	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7686	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8003	1-112-861-11 s CAP, ELECT 150MF (8X7.7)		
C7687	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225	C8006	1-112-861-11 s CAP, ELECT 150MF (8X7.7)		
C7688	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225	C8007	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7689	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8008	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225		
C7690	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8009	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225		
C7691	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225	C8010	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7708	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C8101	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216		
C7709	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8102	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7710	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8103	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7711	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C8104	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7712	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C8105	1-100-391-21 s CAP, ELECT 180MF (5X6)		
C7713	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C8106	1-100-391-21 s CAP, ELECT 180MF (5X6)		
C7714	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225	C8107	1-100-391-21 s CAP, ELECT 180MF (5X6)		
C7715	1-112-015-91 s CAP, CHIP CERAMIC 47MF B 3225	C8108	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7716	1-112-015-91 s CAP, CHIP CERAMIC 47MF B 3225	C8109	1-164-939-81 s CAP, CHIP CERAMIC 22000PF B 1005		
C7717	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C8110	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7718	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8112	1-107-819-81 s CAP, CHIP CERAMIC 22000PF B1005		
C7719	1-112-015-91 s CAP, CHIP CERAMIC 47MF B 3225	C8113	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7720	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C8114	1-164-379-91 s CAP, CERAMIC 43PF CH 1608		
C7721	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C8115	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608		
C7722	1-164-874-81 s CAP, CHIP CERAMIC 100PF CH 1005	C8116	1-100-567-81 s CAP, CHIP CERAMIC 0.01MF B 1005		
C7723	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225	C8117	1-100-567-81 s CAP, CHIP CERAMIC 0.01MF B 1005		
C7725	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8118	1-112-298-91 o CAP, CERAMIC 1MF B (1608)		
C7726	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8119	1-127-820-91 s CAP, CHIP CERAMIC 4.7MF B 3216		
C7730	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8144	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7732	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225	C8145	1-100-055-21 s CAP, CHIP CERAMIC 22MF B 3225		
C7733	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225	C8146	1-114-256-21 s CAP, CHIP ELECT 390MF		
C7734	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8701	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7739	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8702	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7740	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8703	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7741	1-112-015-91 s CAP, CHIP CERAMIC 47MF B 3225	C8704	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7746	1-165-798-21 s CAP, CHIP ELECT 100MF (7343)	C8705	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7747	1-165-798-21 s CAP, CHIP ELECT 100MF (7343)	C8706	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7750	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8707	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7751	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225	C8708	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7752	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8709	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7753	1-164-874-81 s CAP, CHIP CERAMIC 100PF CH 1005	C8710	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7754	1-165-798-21 s CAP, CHIP ELECT 100MF (7343)	C8711	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7755	1-127-692-91 s CAP, CHIP CERAMIC 10MF B 3225	C8712	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7756	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8713	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7757	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8714	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7758	1-112-015-91 s CAP, CHIP CERAMIC 47MF B 3225	C8715	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7759	1-165-989-91 s CAP, CERAMIC 10MF (2012)	C8716	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C7761	1-100-566-91 s CAP, CHIP CERAMIC 0.1MF B 1608	C8717	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
C8839	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8907	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8840	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8908	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8841	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8909	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8842	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8910	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8843	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8911	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8844	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8912	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8845	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8913	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8846	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8914	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8847	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8915	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8848	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8916	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8849	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8917	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8850	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8918	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8851	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8919	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8852	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8920	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8853	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8921	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8854	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8922	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8855	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8923	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8856	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8924	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8857	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8925	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8858	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8926	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8859	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8927	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8860	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8928	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8861	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8929	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8862	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8930	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8863	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8931	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8864	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8932	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8867	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8933	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8868	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8934	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005		
C8869	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8935	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8870	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	C8936	1-112-815-91 s CAP, CERAMIC 10MF C (1608)		
C8871	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN4100	1-821-800-11 s JACK, MODULAR(GIGA)WITH USB A*2		
C8872	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN4201	1-819-876-21 s CONNECTOR, SATA SMT (7P)		
C8873	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN4204	1-770-468-21 s PIN, CONNECTOR (PC BOARD) 10P		
C8874	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN4302	1-821-090-11 s MODULAR JACK(LOW PROFILE GIGA)		
C8875	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN4310	1-565-388-11 o CONNECTOR, D-SUB 9P		
C8876	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN4401	1-778-648-31 s CONNECTOR, FFC/FPC(ZIF) ST 20P		
C8877	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6105	1-779-884-21 s CONNECTOR 4P		
C8878	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6106	1-779-884-21 s CONNECTOR 4P		
C8879	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6107	1-779-884-21 s CONNECTOR 4P		
C8880	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6108	1-779-884-21 s CONNECTOR 4P		
C8881	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6109	1-779-884-21 s CONNECTOR 4P		
C8882	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6110	1-779-884-21 s CONNECTOR 4P		
C8883	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6111	1-779-884-21 s CONNECTOR 4P		
C8884	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6500	1-756-076-21 s HOLDER, LITHIUM BATTERY		
C8885	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6537	1-779-884-21 s CONNECTOR 4P		
C8886	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN6538	1-779-884-21 s CONNECTOR 4P		
C8887	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	CN7803	1-778-965-21 s CONNECTOR 12P		
C8888	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	D4105	6-500-701-01 s DIODE PGB1010603NR		
C8889	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	D4106	6-500-701-01 s DIODE PGB1010603NR		
C8890	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	D4107	6-500-701-01 s DIODE PGB1010603NR		
C8891	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	D4108	6-500-701-01 s DIODE PGB1010603NR		
C8892	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	D6501	8-719-056-22 s DIODE MA2S728-(K8).SO		
C8900	1-112-815-91 s CAP, CERAMIC 10MF C (1608)	D6502	8-719-056-22 s DIODE MA2S728-(K8).SO		
C8901	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	D6503	8-719-056-22 s DIODE MA2S728-(K8).SO		
C8902	1-112-815-91 s CAP, CERAMIC 10MF C (1608)	D6510	8-719-056-22 s DIODE MA2S728-(K8).SO		
C8903	1-112-815-91 s CAP, CERAMIC 10MF C (1608)	D6511	6-501-689-01 s DIODE CL-271HB1-D-TS		
C8904	1-125-777-81 s CAP, CHIP CERAMIC 0.1MF B 1005	D7200	6-501-067-01 s DIODE CMS05-TE12R		
C8905	1-112-815-91 s CAP, CERAMIC 10MF C (1608)	D7400	6-501-067-01 s DIODE CMS05-TE12R		
C8906	1-112-815-91 s CAP, CERAMIC 10MF C (1608)				

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Ref. No.
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D7401 6-501-067-01 s DIODE CMS05-TE12R
 D7402 6-501-067-01 s DIODE CMS05-TE12R
 D7501 6-501-067-01 s DIODE CMS05-TE12R
 D7502 6-501-067-01 s DIODE CMS05-TE12R
 D7600 6-501-067-01 s DIODE CMS05-TE12R

D7601 6-501-067-01 s DIODE CMS05-TE12R
 D7602 6-501-067-01 s DIODE CMS05-TE12R
 D7603 6-501-067-01 s DIODE CMS05-TE12R
 D7604 6-501-067-01 s DIODE CMS05-TE12R
 D7605 6-501-067-01 s DIODE CMS05-TE12R

D8101 6-501-067-01 s DIODE CMS05-TE12R

E3001 1-535-757-21 s CHIP, CHECKER
 E3002 1-535-757-21 s CHIP, CHECKER
 E3003 1-535-757-21 s CHIP, CHECKER
 E4001 1-535-757-21 s CHIP, CHECKER
 E4002 1-535-757-21 s CHIP, CHECKER

E4003 1-535-757-21 s CHIP, CHECKER
 E4004 1-535-757-21 s CHIP, CHECKER
 E7102 1-535-757-21 s CHIP, CHECKER
 E7202 1-535-757-21 s CHIP, CHECKER
 E7800 1-535-757-21 s CHIP, CHECKER

E7801 1-535-757-21 s CHIP, CHECKER
 E7802 1-535-757-21 s CHIP, CHECKER
 E7803 1-535-757-21 s CHIP, CHECKER
 E7804 1-535-757-21 s CHIP, CHECKER
 E7805 1-535-757-21 s CHIP, CHECKER

E7806 1-535-757-21 s CHIP, CHECKER
 E7807 1-535-757-21 s CHIP, CHECKER

F7200 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F7700 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F7701 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F7702 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F7703 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)

F7800 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F7801 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F7802 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F7804 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F7806 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)

F7807 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F7808 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)
 F8001 △ 1-576-700-21 s FUSE-LINKS (10A) (10A/72V)

FB1501 1-400-772-21 s INDUCTOR, FERRITE BEAD
 FB1502 1-400-772-21 s INDUCTOR, FERRITE BEAD
 FB1801 1-481-194-21 s BEAD, FERRITE (SMD)
 FB1802 1-400-150-21 s FERRITE, EMI (SMD) (4516)
 FB3002 1-481-195-21 s FERRITE, EMI (SMD)

FB3101 1-469-127-21 s FERRITE, EMI (SMD) (1608)
 FB3102 1-469-127-21 s FERRITE, EMI (SMD) (1608)
 FB4100 1-481-195-21 s FERRITE, EMI (SMD)
 FB4101 1-481-195-21 s FERRITE, EMI (SMD)
 FB4102 1-400-580-21 s FERRITE, EMI (SMD)

FB4103 1-400-580-21 s FERRITE, EMI (SMD)
 FB4104 1-400-580-21 s FERRITE, EMI (SMD)
 FB4105 1-400-580-21 s FERRITE, EMI (SMD)
 FB4106 1-481-195-21 s FERRITE, EMI (SMD)
 FB4107 1-469-094-21 s FERRITE, EMI (SMD) (1608)

FB4108 1-469-094-21 s FERRITE, EMI (SMD) (1608)

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Ref. No.
or Q'ty Part No. SP Description

FB4201 1-469-094-21 s FERRITE, EMI (SMD) (1608)
 FB4301 1-481-195-21 s FERRITE, EMI (SMD)
 FB4302 1-469-127-21 s FERRITE, EMI (SMD) (1608)
 FB4801 1-481-195-21 s FERRITE, EMI (SMD)
 FB5001 1-481-195-21 s FERRITE, EMI (SMD)

FB5003 1-481-195-21 s FERRITE, EMI (SMD)
 FB5004 1-481-195-21 s FERRITE, EMI (SMD)
 FB5017 1-469-670-21 s FERRITE, EMI (SMD) (2012)
 FB5018 1-469-670-21 s FERRITE, EMI (SMD) (2012)
 FB5019 1-481-196-21 o FERRITE, EMI (SMD) (3216)

FB6500 1-400-382-21 s EMI FERRITE (SMD) (1608)

FB6501 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6502 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6503 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6504 1-400-382-21 s EMI FERRITE (SMD) (1608)

FB6505 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6506 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6507 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6508 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6509 1-400-382-21 s EMI FERRITE (SMD) (1608)

FB6510 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6511 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6512 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6513 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6514 1-400-382-21 s EMI FERRITE (SMD) (1608)

FB6515 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6516 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB6517 1-400-382-21 s EMI FERRITE (SMD) (1608)
 FB7500 1-469-670-21 s FERRITE, EMI (SMD) (2012)
 FB7501 1-469-670-21 s FERRITE, EMI (SMD) (2012)

FB7502 1-400-580-21 s FERRITE, EMI (SMD)
 FB7503 1-400-580-21 s FERRITE, EMI (SMD)
 FB7601 1-400-580-21 s FERRITE, EMI (SMD)
 FB7603 1-400-580-21 s FERRITE, EMI (SMD)
 FB7606 1-481-194-21 s BEAD, FERRITE (SMD)

FB7607 1-481-194-21 s BEAD, FERRITE (SMD)
 FB7608 1-481-194-21 s BEAD, FERRITE (SMD)
 FB7705 1-400-580-21 s FERRITE, EMI (SMD)

FL4301 1-239-897-22 s FILTER, EMI (SMD)
 FL4302 1-239-897-22 s FILTER, EMI (SMD)
 FL4303 1-239-897-22 s FILTER, EMI (SMD)
 FL4304 1-239-897-22 s FILTER, EMI (SMD)

IC1008 6-710-183-01 s IC SN74AUC1G125DCKR
 IC1009 6-702-948-01 s IC SN74AUC1G08DCKR
 IC1010 6-710-238-01 s IC SN74AUC1G06DCKR
 IC1011 6-702-948-01 s IC SN74AUC1G08DCKR
 IC3010 6-702-948-01 s IC SN74AUC1G08DCKR

IC3011 6-702-948-01 s IC SN74AUC1G08DCKR
 IC3100 6-710-158-01 s IC ICS422AG-07LFT
 IC4002 8-759-592-48 s IC TC7SZ32FU(TE85R)
 IC4003 8-759-592-48 s IC TC7SZ32FU(TE85R)
 IC4102 6-704-030-01 s IC TC7SA04FU(TE85R)

IC4103 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC4104 6-707-066-01 s IC BD6517F
 IC4105 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC4107 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC4108 8-759-592-48 s IC TC7SZ32FU(TE85R)

IC4109 6-710-775-01 s IC UPD720114GA-9EU-A

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Ref. No.
or Q'ty Part No. SP Description

IC4204 6-710-237-01 s IC SN74LVC1G07DCKR
 IC4214 6-706-379-01 s IC BD6516F
 IC4301 6-705-514-01 s IC MAX3222IPWR
 IC4302 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC4305 6-702-879-01 s IC R3112N281A-TR-FA

IC4306 6-712-176-01 s IC M93C46-WDW6TP(B)
 IC4404 6-710-237-01 s IC SN74LVC1G07DCKR
 IC4405 8-759-592-49 s IC TC7SZ125FU(TE85R)
 IC4407 8-759-592-49 s IC TC7SZ125FU(TE85R)
 IC4408 8-759-592-49 s IC TC7SZ125FU(TE85R)

IC4409 8-759-592-49 s IC TC7SZ125FU(TE85R)
 IC4501 6-707-035-01 s IC LP2996MRX
 IC4502 6-707-035-01 s IC LP2996MRX
 IC4601 6-709-954-01 s IC STK14CA8-NF45-B
 IC4602 6-808-071-01 s IC S29GL512N10TFI020-BE28V01

IC4603 6-706-491-01 s IC TC7SH86FU(T5RSOYJF)
 IC4604 8-759-669-42 s IC SN74LVC138APWR-12
 IC4608 6-710-237-01 s IC SN74LVC1G07DCKR
 IC4611 8-759-592-49 s IC TC7SZ125FU(TE85R)
 IC4612 6-704-030-01 s IC TC7SA04FU(TE85R)

IC4614 8-759-592-48 s IC TC7SZ32FU(TE85R)
 IC4615 6-704-030-01 s IC TC7SA04FU(TE85R)
 IC4616 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC5003 6-710-154-01 s IC ICS9214DGLFT
 IC5005 6-704-350-01 s IC SN74LVC1G66DCKR

IC5006 6-704-350-01 s IC SN74LVC1G66DCKR
 IC5010 6-710-157-01 s IC ICS9218AGLFT
 IC5012 6-710-157-01 s IC ICS9218AGLFT
 IC5601 6-710-156-01 s IC ICS1493G-18LFT
 IC6002 6-712-731-01 s IC PCA9548APWR

IC6003 6-710-168-01 s IC NCP5661DTADJRKG
 IC6004 6-808-072-01 s IC EPCS4SI8N(15)-BE28V01
 IC6005 6-808-070-01 s IC R5F70845AN80FPV-BE28V01
 IC6006 8-759-679-55 s IC SN74LVC08APWR
 IC6007 6-706-949-01 s IC IDT71V416S12PHG-TL

IC6008 6-702-879-01 s IC R3112N281A-TR-FA
 IC6046 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC6133 6-710-148-01 s IC ADT7467ARQZ-R7
 IC6134 6-710-148-01 s IC ADT7467ARQZ-R7
 IC6526 6-709-220-01 s IC SN74AVC2T45DCUR

IC6527 6-702-879-01 s IC R3112N281A-TR-FA
 IC6528 6-709-220-01 s IC SN74AVC2T45DCUR
 IC6529 6-709-220-01 s IC SN74AVC2T45DCUR
 IC6530 6-709-220-01 s IC SN74AVC2T45DCUR
 IC6531 6-709-220-01 s IC SN74AVC2T45DCUR

IC6532 6-709-220-01 s IC SN74AVC2T45DCUR
 IC6533 6-709-220-01 s IC SN74AVC2T45DCUR
 IC6534 6-709-220-01 s IC SN74AVC2T45DCUR
 IC6535 6-709-220-01 s IC SN74AVC2T45DCUR
 IC6536 6-709-220-01 s IC SN74AVC2T45DCUR

IC6563 6-710-238-01 s IC SN74AUC1G06DCKR
 IC6565 6-710-237-01 s IC SN74LVC1G07DCKR
 IC6573 6-710-239-01 s IC SN74AUC1G07DCKR
 IC6578 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC6579 6-710-237-01 s IC SN74LVC1G07DCKR

IC6580 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC6581 6-710-196-01 s IC AD51/007Z-0REEL
 IC6582 6-710-196-01 s IC AD51/007Z-0REEL
 IC6583 6-710-196-01 s IC AD51/007Z-0REEL

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Ref. No.
or Q'ty Part No. SP Description

IC6586 6-710-148-01 s IC ADT7467ARQZ-R7
 IC6587 6-710-121-01 s IC M24256-BWMN6TP(A)
 IC6588 6-710-121-01 s IC M24256-BWMN6TP(A)
 IC6589 6-710-148-01 s IC ADT7467ARQZ-R7
 IC6590 6-700-108-01 s IC RV5C387A-E2-FB

IC7100 6-710-177-01 s IC NCP5318FTR2G
 IC7112 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC7200 6-710-177-01 s IC NCP5318FTR2G
 IC7205 6-703-249-01 s IC SN105233DBTR
 IC7207 6-704-350-01 s IC SN74LVC1G66DCKR

IC7208 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC7400 6-703-249-01 s IC SN105233DBTR
 IC7401 6-703-249-01 s IC SN105233DBTR
 IC7500 6-710-253-01 s IC NCP5663DSADJR4G
 IC7502 6-710-251-01 s IC SI-3012KS-TL

IC7503 6-710-251-01 s IC SI-3012KS-TL
 IC7504 6-710-251-01 s IC SI-3012KS-TL
 IC7506 6-710-253-01 s IC NCP5663DSADJR4G
 IC7507 6-710-253-01 s IC NCP5663DSADJR4G
 IC7508 6-707-986-01 s IC SI-3012LU-TL

IC7509 6-710-251-01 s IC SI-3012KS-TL
 IC7510 6-707-986-01 s IC SI-3012LU-TL
 IC7511 6-710-253-01 s IC NCP5663DSADJR4G
 IC7512 6-710-168-01 s IC NCP5661DTADJRKG
 IC7513 6-710-253-01 s IC NCP5663DSADJR4G

IC7514 6-710-168-01 s IC NCP5661DTADJRKG
 IC7515 6-707-986-01 s IC SI-3012LU-TL
 IC7517 6-707-986-01 s IC SI-3012LU-TL
 IC7600 6-710-253-01 s IC NCP5663DSADJR4G
 IC7601 6-710-253-01 s IC NCP5663DSADJR4G

IC7602 6-710-253-01 s IC NCP5663DSADJR4G
 IC7603 6-710-168-01 s IC NCP5661DTADJRKG
 IC7604 6-703-249-01 s IC SN105233DBTR
 IC7605 6-710-253-01 s IC NCP5663DSADJR4G
 IC7607 6-707-986-01 s IC SI-3012LU-TL

IC7608 6-710-253-01 s IC NCP5663DSADJR4G
 IC7616 6-707-986-01 s IC SI-3012LU-TL
 IC7617 6-707-986-01 s IC SI-3012LU-TL
 IC7701 6-710-251-01 s IC SI-3012KS-TL
 IC7702 6-708-606-01 s IC LTC4300A-1IMS8#TR

IC7703 6-710-168-01 s IC NCP5661DTADJRKG
 IC7704 6-710-251-01 s IC SI-3012KS-TL
 IC7706 6-710-168-01 s IC NCP5661DTADJRKG
 IC7707 6-707-986-01 s IC SI-3012LU-TL
 IC7804 6-700-599-01 s IC TC7SA08FU(TE85R)

IC7806 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC7807 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC7808 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC7809 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC7810 6-700-599-01 s IC TC7SA08FU(TE85R)

IC7811 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC7813 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC7814 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC7816 6-700-599-01 s IC TC7SA08FU(TE85R)
 IC8101 6-703-249-01 s IC SN105233DBTR

L1001 1-481-197-21 s INDUCTOR, CHIP 270NH (1608)
 L4002 1-481-197-21 s INDUCTOR, CHIP 270NH (1608)
 L4100 1-813-308-11 o COMMON MODE CHOKE
 L4101 1-813-308-11 o COMMON MODE CHOKE

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Ref. No.
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L7100 1-457-331-11 s COIL, CHOKE 0.66UH
 L7101 1-457-342-11 s COIL, CHOKE 0.33UH
 L7102 1-457-342-11 s COIL, CHOKE 0.33UH
 L7103 1-457-342-11 s COIL, CHOKE 0.33UH
 L7201 1-456-043-11 s COIL, CHOKE (SMD) 12UH

L7202 1-457-342-11 s COIL, CHOKE 0.33UH
 L7203 1-457-342-11 s COIL, CHOKE 0.33UH
 L7204 1-457-342-11 s COIL, CHOKE 0.33UH
 L7206 1-457-341-11 s COIL, CHOKE 1.4UH
 L7207 1-457-331-11 s COIL, CHOKE 0.66UH

L7400 1-456-043-11 s COIL, CHOKE (SMD) 12UH
 L7401 1-456-043-11 s COIL, CHOKE (SMD) 12UH
 L7402 1-456-043-11 s COIL, CHOKE (SMD) 12UH
 L7403 1-457-341-11 s COIL, CHOKE 1.4UH
 L7404 1-457-341-11 s COIL, CHOKE 1.4UH

L7405 1-457-341-11 s COIL, CHOKE 1.4UH
 L7601 1-456-043-11 s COIL, CHOKE (SMD) 12UH
 L7602 1-457-341-11 s COIL, CHOKE 1.4UH
 L8101 1-456-043-11 s COIL, CHOKE (SMD) 12UH
 L8102 1-457-341-11 s COIL, CHOKE 1.4UH

Q1101 8-729-929-09 s TRANSISTOR DTC123JE-TL
 Q2007 6-551-185-01 s TRANSISTOR RK7002AT116
 Q2008 8-729-928-05 s TRANSISTOR 2SC4617TL-QR
 Q2009 6-551-185-01 s TRANSISTOR RK7002AT116
 Q2010 8-729-928-05 s TRANSISTOR 2SC4617TL-QR

Q4001 8-729-929-09 s TRANSISTOR DTC123JE-TL
 Q4301 8-729-029-14 s TRANSISTOR DTC144EUA-T106
 Q6001 6-551-589-01 s TRANSISTOR SI2312BDS-T1-E3
 Q6003 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q6004 8-729-928-82 s TRANSISTOR DTC144EE-TL

Q7200 6-551-571-01 s TRANSISTOR SI4392DY-T1-E3
 Q7201 6-551-572-01 s TRANSISTOR SI4336DY-T1-E3
 Q7202 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q7400 6-551-571-01 s TRANSISTOR SI4392DY-T1-E3
 Q7401 6-551-571-01 s TRANSISTOR SI4392DY-T1-E3

Q7402 6-551-571-01 s TRANSISTOR SI4392DY-T1-E3
 Q7403 6-551-572-01 s TRANSISTOR SI4336DY-T1-E3
 Q7404 6-551-572-01 s TRANSISTOR SI4336DY-T1-E3
 Q7405 6-551-572-01 s TRANSISTOR SI4336DY-T1-E3
 Q7502 8-729-928-82 s TRANSISTOR DTC144EE-TL

Q7504 6-550-558-01 s TRANSISTOR SI3493DV-T1
 Q7506 8-729-929-27 s TRANSISTOR DTC114TE-TL
 Q7507 8-729-929-27 s TRANSISTOR DTC114TE-TL
 Q7509 6-550-558-01 s TRANSISTOR SI3493DV-T1
 Q7510 8-729-928-82 s TRANSISTOR DTC144EE-TL

Q7600 8-729-929-27 s TRANSISTOR DTC114TE-TL
 Q7601 8-729-929-27 s TRANSISTOR DTC114TE-TL
 Q7602 8-729-929-27 s TRANSISTOR DTC114TE-TL
 Q7604 8-729-929-27 s TRANSISTOR DTC114TE-TL
 Q7611 6-551-571-01 s TRANSISTOR SI4392DY-T1-E3

Q7612 6-551-572-01 s TRANSISTOR SI4336DY-T1-E3
 Q7623 8-729-929-27 s TRANSISTOR DTC114TE-TL
 Q7701 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q7702 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q7703 8-729-928-82 s TRANSISTOR DTC144EE-TL

Q7704 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q7705 6-551-380-01 s TRANSISTOR SI4425BDY-T1
 Q7706 6-550-558-01 s TRANSISTOR SI3493DV-T1
 Q7707 8-729-928-82 s TRANSISTOR DTC144EE-TL

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Ref. No.
or Q'ty Part No. SP Description

Q7708 6-550-558-01 s TRANSISTOR SI3493DV-T1
 Q7709 6-550-558-01 s TRANSISTOR SI3493DV-T1
 Q7710 6-551-380-01 s TRANSISTOR SI4425BDY-T1
 Q7803 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q7805 8-729-928-82 s TRANSISTOR DTC144EE-TL

Q7806 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q7807 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q7848 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q7849 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q8001 6-551-380-01 s TRANSISTOR SI4425BDY-T1

Q8002 8-729-928-82 s TRANSISTOR DTC144EE-TL
 Q8101 6-551-571-01 s TRANSISTOR SI4392DY-T1-E3
 Q8102 6-551-572-01 s TRANSISTOR SI4336DY-T1-E3
 Q8103 6-551-589-01 s TRANSISTOR SI2312BDS-T1-E3
 Q8104 6-551-589-01 s TRANSISTOR SI2312BDS-T1-E3

R1001 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1002 1-246-138-21 s RES, CHIP 95.3 (1005)
 R1004 1-246-135-21 s RES, CHIP 191 (1005)
 R1005 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1006 1-246-129-21 s RES, CHIP 49.9 (1005)

R1007 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1008 1-246-138-21 s RES, CHIP 95.3 (1005)
 R1010 1-246-135-21 s RES, CHIP 191 (1005)
 R1011 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1012 1-246-129-21 s RES, CHIP 49.9 (1005)

R1013 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1014 1-246-131-21 s RES, CHIP 56.2 (1005)
 R1016 1-246-137-21 s RES, CHIP 137 (1005)
 R1017 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1018 1-246-131-21 s RES, CHIP 56.2 (1005)

R1020 1-246-137-21 s RES, CHIP 137 (1005)
 R1021 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1023 1-208-911-81 s RES, CHIP 10K (1005)
 R1024 1-208-911-81 s RES, CHIP 10K (1005)
 R1025 1-208-911-81 s RES, CHIP 10K (1005)

R1027 1-208-863-81 s RES, CHIP 100 (1005)
 R1031 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1034 1-208-863-81 s RES, CHIP 100 (1005)
 R1035 1-208-863-81 s RES, CHIP 100 (1005)
 R1037 1-208-863-81 s RES, CHIP 100 (1005)

R1039 1-208-863-81 s RES, CHIP 100 (1005)
 R1040 1-208-863-81 s RES, CHIP 100 (1005)
 R1041 1-208-863-81 s RES, CHIP 100 (1005)
 R1042 1-208-863-81 s RES, CHIP 100 (1005)
 R1043 1-218-990-81 s CONDUCTOR, CHIP (1005)

R1053 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1056 1-208-911-81 s RES, CHIP 10K (1005)
 R1057 1-208-911-81 s RES, CHIP 10K (1005)
 R1058 1-208-863-81 s RES, CHIP 100 (1005)
 R1059 1-208-911-81 s RES, CHIP 10K (1005)

R1067 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1068 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1069 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1070 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1071 1-218-990-81 s CONDUCTOR, CHIP (1005)

R1072 1-208-951-81 s RES, CHIP 470K (1005)
 R1073 1-208-951-81 s RES, CHIP 470K (1005)
 R1074 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1075 1-208-951-81 s RES, CHIP 470K (1005)

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R1076 1-208-951-81 s RES, CHIP 470K (1005)
 R1077 1-208-951-81 s RES, CHIP 470K (1005)
 R1078 1-208-951-81 s RES, CHIP 470K (1005)
 R1079 1-208-951-81 s RES, CHIP 470K (1005)
 R1080 1-208-951-81 s RES, CHIP 470K (1005)

R1081 1-208-951-81 s RES, CHIP 470K (1005)
 R1082 1-208-951-81 s RES, CHIP 470K (1005)
 R1083 1-208-951-81 s RES, CHIP 470K (1005)
 R1084 1-208-951-81 s RES, CHIP 470K (1005)
 R1085 1-218-990-81 s CONDUCTOR, CHIP (1005)

R1086 1-208-911-81 s RES, CHIP 10K (1005)
 R1087 1-208-911-81 s RES, CHIP 10K (1005)
 R1104 1-208-911-81 s RES, CHIP 10K (1005)
 R1105 1-208-911-81 s RES, CHIP 10K (1005)
 R1107 1-208-863-81 s RES, CHIP 100 (1005)

R1108 1-208-863-81 s RES, CHIP 100 (1005)
 R1113 1-208-863-81 s RES, CHIP 100 (1005)
 R1123 1-208-911-81 s RES, CHIP 10K (1005)
 R1124 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1125 1-218-990-81 s CONDUCTOR, CHIP (1005)

R1127 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1128 1-208-911-81 s RES, CHIP 10K (1005)
 R1135 1-208-911-81 s RES, CHIP 10K (1005)
 R1136 1-208-927-81 s RES, CHIP 47K (1005)
 R1140 1-218-990-81 s CONDUCTOR, CHIP (1005)

R1150 1-208-911-81 s RES, CHIP 10K (1005)
 R1161 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1166 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R1801 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1802 1-246-129-21 s RES, CHIP 49.9 (1005)

R1803 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1804 1-246-129-21 s RES, CHIP 49.9 (1005)
 R1809 1-208-911-81 s RES, CHIP 10K (1005)
 R1810 1-208-911-81 s RES, CHIP 10K (1005)
 R1811 1-208-911-81 s RES, CHIP 10K (1005)

R1812 1-208-911-81 s RES, CHIP 10K (1005)
 R1813 1-208-911-81 s RES, CHIP 10K (1005)
 R1814 1-208-911-81 s RES, CHIP 10K (1005)
 R1815 1-208-911-81 s RES, CHIP 10K (1005)
 R2021 1-246-128-21 s RES, CHIP 39.2 (1005)

R2022 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2023 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2024 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2025 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2026 1-246-128-21 s RES, CHIP 39.2 (1005)

R2027 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2028 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2029 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2030 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2031 1-246-128-21 s RES, CHIP 39.2 (1005)

R2032 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2033 1-208-911-81 s RES, CHIP 10K (1005)
 R2034 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2035 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2036 1-246-128-21 s RES, CHIP 39.2 (1005)

R2037 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2038 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2039 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2040 1-246-128-21 s RES, CHIP 39.2 (1005)

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R2041 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2042 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2043 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2044 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2045 1-246-128-21 s RES, CHIP 39.2 (1005)

R2046 1-208-911-81 s RES, CHIP 10K (1005)
 R2087 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R2088 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R2603 1-246-130-21 s RES, CHIP 51.1 (1005)
 R2604 1-246-130-21 s RES, CHIP 51.1 (1005)

R2605 1-246-136-21 s RES, CHIP 165 (1005)
 R2606 1-246-136-21 s RES, CHIP 165 (1005)
 R2607 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2608 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2609 1-246-133-21 s RES, CHIP 499 (1005)

R2615 1-246-130-21 s RES, CHIP 51.1 (1005)
 R2616 1-246-130-21 s RES, CHIP 51.1 (1005)
 R2617 1-246-136-21 s RES, CHIP 165 (1005)
 R2618 1-246-136-21 s RES, CHIP 165 (1005)
 R2619 1-246-128-21 s RES, CHIP 39.2 (1005)

R2620 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2621 1-246-133-21 s RES, CHIP 499 (1005)
 R2622 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R2623 1-208-887-81 s RES, CHIP 1.0K (1005)
 R2629 1-208-863-81 s RES, CHIP 100 (1005)

R2630 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R2631 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R2632 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2633 1-246-139-21 s RES, CHIP 64.9 (1005)
 R2638 1-208-863-81 s RES, CHIP 100 (1005)

R2639 1-208-887-81 s RES, CHIP 1.0K (1005)
 R2640 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R2641 1-246-128-21 s RES, CHIP 39.2 (1005)
 R2642 1-246-139-21 s RES, CHIP 64.9 (1005)
 R2645 1-220-870-81 s RES, CHIP 10 (1005)

R2646 1-220-870-81 s RES, CHIP 10 (1005)
 R2647 1-220-870-81 s RES, CHIP 10 (1005)
 R2648 1-220-870-81 s RES, CHIP 10 (1005)
 R2649 1-220-870-81 s RES, CHIP 10 (1005)
 R2650 1-244-161-81 s RES, CHIP 2.2 (1005)

R2651 1-220-870-81 s RES, CHIP 10 (1005)
 R2652 1-244-161-81 s RES, CHIP 2.2 (1005)
 R3008 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R3009 1-208-911-81 s RES, CHIP 10K (1005)
 R3010 1-208-911-81 s RES, CHIP 10K (1005)

R3011 1-208-880-81 s RES, CHIP 510 (1005)
 R3012 1-208-880-81 s RES, CHIP 510 (1005)
 R3013 1-208-911-81 s RES, CHIP 10K (1005)
 R3014 1-208-911-81 s RES, CHIP 10K (1005)
 R3015 1-208-911-81 s RES, CHIP 10K (1005)

R3016 1-246-129-21 s RES, CHIP 49.9 (1005)
 R3017 1-208-911-81 s RES, CHIP 10K (1005)
 R3018 1-208-911-81 s RES, CHIP 10K (1005)
 R3019 1-208-880-81 s RES, CHIP 510 (1005)
 R3020 1-208-880-81 s RES, CHIP 510 (1005)

R3021 1-208-911-81 s RES, CHIP 10K (1005)
 R3022 1-208-911-81 s RES, CHIP 10K (1005)
 R3023 1-208-911-81 s RES, CHIP 10K (1005)
 R3024 1-246-131-21 s RES, CHIP 56.2 (1005)

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R3025	1-246-137-21	s RES, CHIP 137 (1005)
R3026	1-208-911-81	s RES, CHIP 10K (1005)
R3027	1-208-911-81	s RES, CHIP 10K (1005)
R3028	1-208-911-81	s RES, CHIP 10K (1005)
R3029	1-208-911-81	s RES, CHIP 10K (1005)
R3030	1-208-911-81	s RES, CHIP 10K (1005)
R3031	1-208-911-81	s RES, CHIP 10K (1005)
R3032	1-208-911-81	s RES, CHIP 10K (1005)
R3033	1-208-911-81	s RES, CHIP 10K (1005)
R3034	1-208-935-81	s RES, CHIP 100K (1005)
R3035	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3037	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3038	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3043	1-246-140-21	s RES, CHIP 60.4 (1005)
R3044	1-208-911-81	s RES, CHIP 10K (1005)
R3045	1-208-872-81	s RES, CHIP 240 (1005)
R3046	1-208-872-81	s RES, CHIP 240 (1005)
R3047	1-208-872-81	s RES, CHIP 240 (1005)
R3048	1-208-872-81	s RES, CHIP 240 (1005)
R3049	1-246-128-21	s RES, CHIP 39.2 (1005)
R3050	1-246-128-21	s RES, CHIP 39.2 (1005)
R3051	1-208-903-81	s RES, CHIP 4.7K (1005)
R3052	1-208-911-81	s RES, CHIP 10K (1005)
R3053	1-208-911-81	s RES, CHIP 10K (1005)
R3055	1-208-911-81	s RES, CHIP 10K (1005)
R3061	1-208-903-81	s RES, CHIP 4.7K (1005)
R3062	1-208-911-81	s RES, CHIP 10K (1005)
R3064	1-208-911-81	s RES, CHIP 10K (1005)
R3065	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3066	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3067	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3068	1-208-911-81	s RES, CHIP 10K (1005)
R3070	1-208-911-81	s RES, CHIP 10K (1005)
R3072	1-208-911-81	s RES, CHIP 10K (1005)
R3074	1-208-911-81	s RES, CHIP 10K (1005)
R3076	1-208-880-81	s RES, CHIP 510 (1005)
R3077	1-208-880-81	s RES, CHIP 510 (1005)
R3078	1-208-880-81	s RES, CHIP 510 (1005)
R3079	1-208-880-81	s RES, CHIP 510 (1005)
R3081	1-208-890-81	s RES, CHIP 1.3K (1005)
R3082	1-208-890-81	s RES, CHIP 1.3K (1005)
R3083	1-208-890-81	s RES, CHIP 1.3K (1005)
R3084	1-208-890-81	s RES, CHIP 1.3K (1005)
R3085	1-246-125-21	s RES, CHIP 45.3 (1005)
R3086	1-246-125-21	s RES, CHIP 45.3 (1005)
R3087	1-246-128-21	s RES, CHIP 39.2 (1005)
R3088	1-246-129-21	s RES, CHIP 49.9 (1005)
R3089	1-246-129-21	s RES, CHIP 49.9 (1005)
R3090	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3091	1-246-129-21	s RES, CHIP 49.9 (1005)
R3092	1-208-911-81	s RES, CHIP 10K (1005)
R3093	1-208-911-81	s RES, CHIP 10K (1005)
R3094	1-208-911-81	s RES, CHIP 10K (1005)
R3095	1-208-911-81	s RES, CHIP 10K (1005)
R3100	1-220-882-81	s RES, CHIP 33 (1005)
R3101	1-220-882-81	s RES, CHIP 33 (1005)
R3103	1-208-911-81	s RES, CHIP 10K (1005)
R3104	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3105	1-220-882-81	s RES, CHIP 33 (1005)

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R3106	1-220-882-81	s RES, CHIP 33 (1005)
R3121	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3125	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3127	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3128	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3501	1-246-129-21	s RES, CHIP 49.9 (1005)
R3502	1-246-129-21	s RES, CHIP 49.9 (1005)
R3503	1-208-911-81	s RES, CHIP 10K (1005)
R3506	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3507	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3508	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3509	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3510	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3511	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4001	1-246-129-21	s RES, CHIP 49.9 (1005)
R4002	1-246-131-21	s RES, CHIP 56.2 (1005)
R4004	1-246-137-21	s RES, CHIP 137 (1005)
R4005	1-208-911-81	s RES, CHIP 10K (1005)
R4010	1-208-911-81	s RES, CHIP 10K (1005)
R4011	1-208-911-81	s RES, CHIP 10K (1005)
R4012	1-208-911-81	s RES, CHIP 10K (1005)
R4013	1-208-903-81	s RES, CHIP 4.7K (1005)
R4014	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4015	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4024	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4025	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4028	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4029	1-220-878-81	s RES, CHIP 22 (1005)
R4032	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4034	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4035	1-220-878-81	s RES, CHIP 22 (1005)
R4036	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4083	1-208-951-81	s RES, CHIP 470K (1005)
R4084	1-208-894-81	s RES, CHIP 2.0K (1005)
R4085	1-208-911-81	s RES, CHIP 10K (1005)
R4087	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4089	1-208-911-81	s RES, CHIP 10K (1005)
R4090	1-208-911-81	s RES, CHIP 10K (1005)
R4091	1-208-911-81	s RES, CHIP 10K (1005)
R4097	1-208-887-81	s RES, CHIP 1.0K (1005)
R4100	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4102	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4104	1-208-895-81	s RES, CHIP 2.2K (1005)
R4105	1-208-894-81	s RES, CHIP 2.0K (1005)
R4106	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4107	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4108	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4109	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4110	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4111	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4112	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4113	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4114	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4115	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4116	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4117	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4118	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4119	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4120	1-218-990-81	s CONDUCTOR, CHIP (1005)

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R4121 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4122 1-208-911-81 s RES, CHIP 10K (1005)
 R4123 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4124 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4126 1-208-911-81 s RES, CHIP 10K (1005)

R4127 1-208-875-81 s RES, CHIP 330 (1005)
 R4128 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4129 1-208-863-81 s RES, CHIP 100 (1005)
 R4132 1-220-882-81 s RES, CHIP 33 (1005)
 R4134 1-208-951-81 s RES, CHIP 470K (1005)

R4136 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4139 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4140 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4141 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4142 1-218-990-81 s CONDUCTOR, CHIP (1005)

R4143 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4144 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4145 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4146 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4147 1-218-990-81 s CONDUCTOR, CHIP (1005)

R4148 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4149 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4151 1-208-911-81 s RES, CHIP 10K (1005)
 R4152 1-208-911-81 s RES, CHIP 10K (1005)
 R4155 1-220-882-81 s RES, CHIP 33 (1005)

R4156 1-208-911-81 s RES, CHIP 10K (1005)
 R4158 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4160 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4161 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4162 1-246-129-21 s RES, CHIP 49.9 (1005)

R4163 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4164 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4165 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4166 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4167 1-246-129-21 s RES, CHIP 49.9 (1005)

R4168 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4169 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4170 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4171 1-208-873-81 s RES, CHIP 270 (1005)
 R4172 1-208-873-81 s RES, CHIP 270 (1005)

R4173 1-208-873-81 s RES, CHIP 270 (1005)
 R4174 1-208-911-81 s RES, CHIP 10K (1005)
 R4175 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R4176 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4177 1-218-990-81 s CONDUCTOR, CHIP (1005)

R4178 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4179 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4180 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4181 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4182 1-218-990-81 s CONDUCTOR, CHIP (1005)

R4183 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4189 1-208-911-81 s RES, CHIP 10K (1005)
 R4190 1-208-911-81 s RES, CHIP 10K (1005)
 R4191 1-208-911-81 s RES, CHIP 10K (1005)
 R4192 1-208-911-81 s RES, CHIP 10K (1005)

R4193 1-208-911-81 s RES, CHIP 10K (1005)
 R4194 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4195 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4196 1-246-129-21 s RES, CHIP 49.9 (1005)

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R4197 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4198 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4199 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4200 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4201 1-208-911-81 s RES, CHIP 10K (1005)

R4202 1-220-882-81 s RES, CHIP 33 (1005)
 R4203 1-220-882-81 s RES, CHIP 33 (1005)
 R4204 1-220-882-81 s RES, CHIP 33 (1005)
 R4205 1-208-911-81 s RES, CHIP 10K (1005)
 R4206 1-208-861-81 s RES, CHIP 82 (1005)

R4207 1-220-878-81 s RES, CHIP 22 (1005)
 R4208 1-220-870-81 s RES, CHIP 10 (1005)
 R4209 1-220-878-81 s RES, CHIP 22 (1005)
 R4210 1-220-878-81 s RES, CHIP 22 (1005)
 R4211 1-208-861-81 s RES, CHIP 82 (1005)

R4212 1-220-882-81 s RES, CHIP 33 (1005)
 R4213 1-220-882-81 s RES, CHIP 33 (1005)
 R4214 1-220-882-81 s RES, CHIP 33 (1005)
 R4215 1-220-882-81 s RES, CHIP 33 (1005)
 R4216 1-220-882-81 s RES, CHIP 33 (1005)

R4217 1-220-882-81 s RES, CHIP 33 (1005)
 R4218 1-220-882-81 s RES, CHIP 33 (1005)
 R4219 1-220-882-81 s RES, CHIP 33 (1005)
 R4220 1-220-882-81 s RES, CHIP 33 (1005)
 R4221 1-220-882-81 s RES, CHIP 33 (1005)

R4222 1-220-882-81 s RES, CHIP 33 (1005)
 R4223 1-220-882-81 s RES, CHIP 33 (1005)
 R4224 1-220-882-81 s RES, CHIP 33 (1005)
 R4225 1-220-882-81 s RES, CHIP 33 (1005)
 R4226 1-220-882-81 s RES, CHIP 33 (1005)

R4227 1-220-882-81 s RES, CHIP 33 (1005)
 R4228 1-220-882-81 s RES, CHIP 33 (1005)
 R4229 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4231 1-208-863-81 s RES, CHIP 100 (1005)
 R4232 1-220-882-81 s RES, CHIP 33 (1005)

R4233 1-220-882-81 s RES, CHIP 33 (1005)
 R4234 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4235 1-208-913-81 s RES, CHIP 12K (1005)
 R4238 1-208-911-81 s RES, CHIP 10K (1005)
 R4239 1-208-903-81 s RES, CHIP 4.7K (1005)

R4257 1-208-861-81 s RES, CHIP 82 (1005)
 R4260 1-208-861-81 s RES, CHIP 82 (1005)
 R4270 1-208-911-81 s RES, CHIP 10K (1005)
 R4271 1-208-863-81 s RES, CHIP 100 (1005)
 R4272 1-208-919-81 s RES, CHIP 22K (1005)

R4273 1-208-911-81 s RES, CHIP 10K (1005)
 R4274 1-208-905-81 s RES, CHIP 5.6K (1005)
 R4275 1-208-911-81 s RES, CHIP 10K (1005)
 R4277 1-208-911-81 s RES, CHIP 10K (1005)
 R4278 1-208-911-81 s RES, CHIP 10K (1005)

R4280 1-246-143-91 s RES, CHIP 3.48K (1608)
 R4281 1-246-143-91 s RES, CHIP 3.48K (1608)
 R4282 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4283 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4284 1-208-905-81 s RES, CHIP 5.6K (1005)

R4285 1-220-882-81 s RES, CHIP 33 (1005)
 R4286 1-220-882-81 s RES, CHIP 33 (1005)
 R4289 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4290 1-208-911-81 s RES, CHIP 10K (1005)

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R4294 1-208-887-81 s RES, CHIP 1.0K (1005)
 R4301 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4302 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4303 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4304 1-208-903-81 s RES, CHIP 4.7K (1005)

R4305 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4306 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4307 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4308 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4309 1-208-903-81 s RES, CHIP 4.7K (1005)

R4310 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4311 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4312 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4313 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4314 1-208-903-81 s RES, CHIP 4.7K (1005)

R4315 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4316 1-208-887-81 s RES, CHIP 1.0K (1005)
 R4317 1-208-887-81 s RES, CHIP 1.0K (1005)
 R4318 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4324 1-208-903-81 s RES, CHIP 4.7K (1005)

R4326 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4327 1-208-863-81 s RES, CHIP 100 (1005)
 R4328 1-208-911-81 s RES, CHIP 10K (1005)
 R4329 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4330 1-220-878-81 s RES, CHIP 22 (1005)

R4331 1-208-911-81 s RES, CHIP 10K (1005)
 R4332 1-220-878-81 s RES, CHIP 22 (1005)
 R4333 1-220-878-81 s RES, CHIP 22 (1005)
 R4334 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4335 1-220-878-81 s RES, CHIP 22 (1005)

R4336 1-220-878-81 s RES, CHIP 22 (1005)
 R4337 1-220-878-81 s RES, CHIP 22 (1005)
 R4338 1-220-878-81 s RES, CHIP 22 (1005)
 R4339 1-208-911-81 s RES, CHIP 10K (1005)
 R4340 1-218-990-81 s CONDUCTOR, CHIP (1005)

R4341 1-208-911-81 s RES, CHIP 10K (1005)
 R4342 1-220-878-81 s RES, CHIP 22 (1005)
 R4343 1-220-878-81 s RES, CHIP 22 (1005)
 R4344 1-220-878-81 s RES, CHIP 22 (1005)
 R4345 1-220-878-81 s RES, CHIP 22 (1005)

R4346 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4348 1-208-911-81 s RES, CHIP 10K (1005)
 R4349 1-208-911-81 s RES, CHIP 10K (1005)
 R4365 1-208-899-81 s RES, CHIP 3.3K (1005)
 R4366 1-208-927-81 s RES, CHIP 47K (1005)

R4367 1-208-899-81 s RES, CHIP 3.3K (1005)
 R4368 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4412 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4413 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4414 1-208-903-81 s RES, CHIP 4.7K (1005)

R4415 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4417 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4418 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4419 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4421 1-208-903-81 s RES, CHIP 4.7K (1005)

R4422 1-208-911-81 s RES, CHIP 10K (1005)
 R4423 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4424 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4425 1-218-990-81 s CONDUCTOR, CHIP (1005)

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R4426 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4427 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4430 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R4436 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4447 1-246-129-21 s RES, CHIP 49.9 (1005)

R4448 1-246-129-21 s RES, CHIP 49.9 (1005)
 R4451 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4453 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4454 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4455 1-208-872-81 s RES, CHIP 240 (1005)

R4456 1-208-872-81 s RES, CHIP 240 (1005)
 R4457 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R4458 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R4459 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4460 1-208-903-81 s RES, CHIP 4.7K (1005)

R4462 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4463 1-208-863-81 s RES, CHIP 100 (1005)
 R4464 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4466 1-208-911-81 s RES, CHIP 10K (1005)
 R4468 1-208-911-81 s RES, CHIP 10K (1005)

R4472 1-220-878-81 s RES, CHIP 22 (1005)
 R4473 1-220-878-81 s RES, CHIP 22 (1005)
 R4474 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4475 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R4478 1-208-935-81 s RES, CHIP 100K (1005)

R4479 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4480 1-208-887-81 s RES, CHIP 1.0K (1005)
 R4483 1-208-903-81 s RES, CHIP 4.7K (1005)
 R4484 1-246-137-21 s RES, CHIP 137 (1005)
 R4485 1-246-137-21 s RES, CHIP 137 (1005)

R4488 1-208-863-81 s RES, CHIP 100 (1005)
 R4490 1-208-911-81 s RES, CHIP 10K (1005)
 R4491 1-208-911-81 s RES, CHIP 10K (1005)
 R4492 1-208-911-81 s RES, CHIP 10K (1005)
 R4493 1-208-911-81 s RES, CHIP 10K (1005)

R4494 1-208-911-81 s RES, CHIP 10K (1005)
 R4495 1-208-911-81 s RES, CHIP 10K (1005)
 R4496 1-208-911-81 s RES, CHIP 10K (1005)
 R4497 1-208-911-81 s RES, CHIP 10K (1005)
 R4498 1-208-911-81 s RES, CHIP 10K (1005)

R4499 1-208-887-81 s RES, CHIP 1.0K (1005)
 R4501 1-220-878-81 s RES, CHIP 22 (1005)
 R4502 1-220-878-81 s RES, CHIP 22 (1005)
 R4503 1-220-878-81 s RES, CHIP 22 (1005)
 R4504 1-220-878-81 s RES, CHIP 22 (1005)

R4505 1-220-880-81 s RES, CHIP 27 (1005)
 R4506 1-220-880-81 s RES, CHIP 27 (1005)
 R4507 1-220-880-81 s RES, CHIP 27 (1005)
 R4508 1-220-880-81 s RES, CHIP 27 (1005)
 R4509 1-208-855-81 s RES, CHIP 47 (1005)

R4510 1-208-855-81 s RES, CHIP 47 (1005)
 R4511 1-208-855-81 s RES, CHIP 47 (1005)
 R4512 1-208-855-81 s RES, CHIP 47 (1005)
 R4513 1-208-855-81 s RES, CHIP 47 (1005)
 R4514 1-208-855-81 s RES, CHIP 47 (1005)

R4515 1-208-855-81 s RES, CHIP 47 (1005)
 R4516 1-208-855-81 s RES, CHIP 47 (1005)
 R4517 1-220-880-81 s RES, CHIP 27 (1005)
 R4518 1-220-880-81 s RES, CHIP 27 (1005)

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R5016	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5017	1-244-161-81	s RES, CHIP 2.2 (1005)
R5018	1-208-911-81	s RES, CHIP 10K (1005)
R5020	1-208-911-81	s RES, CHIP 10K (1005)
R5022	1-208-911-81	s RES, CHIP 10K (1005)
R5025	1-208-899-81	s RES, CHIP 3.3K (1005)
R5026	1-208-879-81	s RES, CHIP 470 (1005)
R5034	1-208-911-81	s RES, CHIP 10K (1005)
R5035	1-208-911-81	s RES, CHIP 10K (1005)
R5039	1-220-870-81	s RES, CHIP 10 (1005)
R5040	1-220-870-81	s RES, CHIP 10 (1005)
R5042	1-208-875-81	s RES, CHIP 330 (1005)
R5043	1-244-161-81	s RES, CHIP 2.2 (1005)
R5045	1-208-911-81	s RES, CHIP 10K (1005)
R5046	1-208-911-81	s RES, CHIP 10K (1005)
R5050	1-220-870-81	s RES, CHIP 10 (1005)
R5051	1-220-870-81	s RES, CHIP 10 (1005)
R5053	1-208-875-81	s RES, CHIP 330 (1005)
R5055	1-216-864-91	s CONDUCTOR, CHIP (1608)
R5058	1-244-161-81	s RES, CHIP 2.2 (1005)
R5059	1-220-882-81	s RES, CHIP 33 (1005)
R5060	1-246-132-21	s RES, CHIP 17.4 (1005)
R5063	1-208-863-81	s RES, CHIP 100 (1005)
R5064	1-208-863-81	s RES, CHIP 100 (1005)
R5066	1-220-882-81	s RES, CHIP 33 (1005)
R5067	1-246-132-21	s RES, CHIP 17.4 (1005)
R5069	1-220-878-81	s RES, CHIP 22 (1005)
R5070	1-208-863-81	s RES, CHIP 100 (1005)
R5071	1-208-863-81	s RES, CHIP 100 (1005)
R5073	1-246-129-21	s RES, CHIP 49.9 (1005)
R5077	1-246-129-21	s RES, CHIP 49.9 (1005)
R5078	1-208-911-81	s RES, CHIP 10K (1005)
R5079	1-208-911-81	s RES, CHIP 10K (1005)
R5080	1-208-911-81	s RES, CHIP 10K (1005)
R5084	1-220-878-81	s RES, CHIP 22 (1005)
R5103	1-246-129-21	s RES, CHIP 49.9 (1005)
R5107	1-246-129-21	s RES, CHIP 49.9 (1005)
R5111	1-220-882-81	s RES, CHIP 33 (1005)
R5112	1-246-132-21	s RES, CHIP 17.4 (1005)
R5115	1-246-140-21	s RES, CHIP 60.4 (1005)
R5116	1-246-134-21	s RES, CHIP 301 (1005)
R5118	1-220-882-81	s RES, CHIP 33 (1005)
R5119	1-246-132-21	s RES, CHIP 17.4 (1005)
R5122	1-246-140-21	s RES, CHIP 60.4 (1005)
R5123	1-246-134-21	s RES, CHIP 301 (1005)
R5125	1-220-882-81	s RES, CHIP 33 (1005)
R5126	1-246-132-21	s RES, CHIP 17.4 (1005)
R5129	1-246-140-21	s RES, CHIP 60.4 (1005)
R5130	1-246-134-21	s RES, CHIP 301 (1005)
R5132	1-220-882-81	s RES, CHIP 33 (1005)
R5133	1-246-132-21	s RES, CHIP 17.4 (1005)
R5135	1-220-878-81	s RES, CHIP 22 (1005)
R5136	1-246-140-21	s RES, CHIP 60.4 (1005)
R5137	1-246-134-21	s RES, CHIP 301 (1005)
R5139	1-220-882-81	s RES, CHIP 33 (1005)
R5140	1-246-132-21	s RES, CHIP 17.4 (1005)
R5142	1-220-878-81	s RES, CHIP 22 (1005)
R5143	1-246-140-21	s RES, CHIP 60.4 (1005)
R5144	1-246-134-21	s RES, CHIP 301 (1005)

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R5146	1-220-882-81	s RES, CHIP 33 (1005)
R5147	1-246-132-21	s RES, CHIP 17.4 (1005)
R5149	1-220-878-81	s RES, CHIP 22 (1005)
R5150	1-246-140-21	s RES, CHIP 60.4 (1005)
R5151	1-246-134-21	s RES, CHIP 301 (1005)
R5153	1-220-882-81	s RES, CHIP 33 (1005)
R5154	1-240-582-81	s RES, CHIP 6.8 (1005)
R5157	1-220-882-81	s RES, CHIP 33 (1005)
R5158	1-240-582-81	s RES, CHIP 6.8 (1005)
R5161	1-220-882-81	s RES, CHIP 33 (1005)
R5162	1-240-582-81	s RES, CHIP 6.8 (1005)
R5165	1-220-882-81	s RES, CHIP 33 (1005)
R5166	1-240-582-81	s RES, CHIP 6.8 (1005)
R5172	1-220-878-81	s RES, CHIP 22 (1005)
R5176	1-220-878-81	s RES, CHIP 22 (1005)
R5185	1-220-878-81	s RES, CHIP 22 (1005)
R5186	1-220-878-81	s RES, CHIP 22 (1005)
R5187	1-220-878-81	s RES, CHIP 22 (1005)
R5188	1-220-878-81	s RES, CHIP 22 (1005)
R5189	1-220-878-81	s RES, CHIP 22 (1005)
R5277	1-220-882-81	s RES, CHIP 33 (1005)
R5279	1-220-882-81	s RES, CHIP 33 (1005)
R5289	1-220-882-81	s RES, CHIP 33 (1005)
R5290	1-246-129-21	s RES, CHIP 49.9 (1005)
R5291	1-220-882-81	s RES, CHIP 33 (1005)
R5292	1-246-129-21	s RES, CHIP 49.9 (1005)
R5297	1-246-129-21	s RES, CHIP 49.9 (1005)
R5298	1-246-129-21	s RES, CHIP 49.9 (1005)
R5604	1-208-903-81	s RES, CHIP 4.7K (1005)
R5605	1-208-903-81	s RES, CHIP 4.7K (1005)
R5606	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5607	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5608	1-208-911-81	s RES, CHIP 10K (1005)
R5611	1-220-882-81	s RES, CHIP 33 (1005)
R5612	1-246-129-21	s RES, CHIP 49.9 (1005)
R5613	1-220-882-81	s RES, CHIP 33 (1005)
R5614	1-246-129-21	s RES, CHIP 49.9 (1005)
R5615	1-220-882-81	s RES, CHIP 33 (1005)
R5616	1-246-129-21	s RES, CHIP 49.9 (1005)
R5617	1-220-882-81	s RES, CHIP 33 (1005)
R5618	1-246-129-21	s RES, CHIP 49.9 (1005)
R5619	1-220-878-81	s RES, CHIP 22 (1005)
R5620	1-220-878-81	s RES, CHIP 22 (1005)
R5621	1-220-878-81	s RES, CHIP 22 (1005)
R5622	1-220-878-81	s RES, CHIP 22 (1005)
R5623	1-220-878-81	s RES, CHIP 22 (1005)
R5624	1-220-878-81	s RES, CHIP 22 (1005)
R5625	1-220-878-81	s RES, CHIP 22 (1005)
R5626	1-220-878-81	s RES, CHIP 22 (1005)
R5628	1-220-878-81	s RES, CHIP 22 (1005)
R5629	1-220-878-81	s RES, CHIP 22 (1005)
R5631	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5632	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5633	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5634	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5638	1-246-129-21	s RES, CHIP 49.9 (1005)
R5640	1-246-129-21	s RES, CHIP 49.9 (1005)
R5642	1-220-882-81	s RES, CHIP 33 (1005)
R5643	1-220-882-81	s RES, CHIP 33 (1005)

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R5644	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6001	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6002	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6003	1-208-911-81	s RES, CHIP 10K (1005)
R6004	1-218-990-81	s CONDUCTOR, CHIP (1005)

R6005	1-208-915-81	s	RES,	CHIP	15K	(1005)
R6010	1-208-887-81	s	RES,	CHIP	1.0K	(1005)
R6011	1-208-887-81	s	RES,	CHIP	1.0K	(1005)
R6012	1-208-887-81	s	RES,	CHIP	1.0K	(1005)
R6014	1-208-887-81	s	RES,	CHIP	1.0K	(1005)

R6016	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6017	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6018	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6019	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6021	1-208-903-81	s	RES,	CHIP	4.7K	(1005)

R6022	1-208-903-81	s	RES,	CHIP	4.7K	(1005)
R6023	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6024	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6027	1-208-887-81	s	RES,	CHIP	1.0K	(1005)
R6029	1-208-911-81	s	RES,	CHIP	10K	(1005)

R6034	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6035	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6036	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6037	1-208-887-81	s	RES,	CHIP	1.0K	(1005)
R6038	1-208-887-81	s	RES,	CHIP	1.0K	(1005)

R6039	1-208-903-81	s	RES, CHIP	4.7K	(1005)
R6040	1-218-990-81	s	CONDUCTOR, CHIP		(1005)
R6041	1-208-911-81	s	RES, CHIP	10K	(1005)
R6042	1-208-911-81	s	RES, CHIP	10K	(1005)
R6043	1-208-911-81	s	RES, CHIP	10K	(1005)

R6044	1-208-911-81	s	RES, CHIP	10K (1005)
R6045	1-218-990-81	s	CONDUCTOR, CHIP	(1005)
R6046	1-218-990-81	s	CONDUCTOR, CHIP	(1005)
R6047	1-208-911-81	s	RES, CHIP	10K (1005)
R6048	1-208-911-81	s	RES, CHIP	10K (1005)

R6049	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6050	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6051	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6052	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6053	1-208-911-81	s	RES,	CHIP	10K	(1005)

R6058	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6059	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6060	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6061	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6062	1-218-990-81	s	CONDUCTOR	CHIP		(1005)

R6063	1-218-990-81	s CONDUCTOR, CHIP	(1005)
R6066	1-218-990-81	s CONDUCTOR, CHIP	(1005)
R6067	1-218-990-81	s CONDUCTOR, CHIP	(1005)
R6068	1-218-990-81	s CONDUCTOR, CHIP	(1005)
R6069	1-218-990-81	s CONDUCTOR, CHIP	(1005)

R6102	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6103	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6104	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6105	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6106	1-208-911-81	s	RES,	CHIP	10K	(1005)

R6107 1-208-907-81 s RES, CHIP 6.8K (1005)
R6109 1-208-911-81 s RES, CHIP 10K (1005)
R6110 1-208-911-81 s RES, CHIP 10K (1005)
R6111 1-208-911-81 s RES, CHIP 10K (1005)

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R6112	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6113	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6114	1-208-907-81	s	RES,	CHIP	6.8K	(1005)
R6115	1-208-911-81	s	RES,	CHIP	10K	(1005)
R6119	1-208-911-81	s	RES,	CHIP	10K	(1005)

R6120	1-208-911-81	s RES, CHIP	10K	(1005)
R6121	1-208-907-81	s RES, CHIP	6.8K	(1005)
R6122	1-208-863-81	s RES, CHIP	100	(1005)
R6123	1-208-863-81	s RES, CHIP	100	(1005)
R6124	1-208-863-81	s RES, CHIP	100	(1005)

R6125	1-208-863-81	s RES, CHIP	100	(1005)
R6134	1-208-911-81	s RES, CHIP	10K	(1005)
R6135	1-208-911-81	s RES, CHIP	10K	(1005)
R6136	1-208-907-81	s RES, CHIP	6.8K	(1005)
R6139	1-208-917-81	s RES, CHIP	18K	(1005)

R6140	1-218-990-81	s CONDUCTOR, CHIP	(1005)
R6141	1-208-907-81	s RES, CHIP	6.8K (1005)
R6142	1-208-907-81	s RES, CHIP	6.8K (1005)
R6143	1-208-911-81	s RES, CHIP	10K (1005)
R6144	1-208-911-81	s RES, CHIP	10K (1005)

R6145	1-220-878-81	s RES, CHIP 22	(1005)
R6146	1-220-878-81	s RES, CHIP 22	(1005)
R6151	1-208-911-81	s RES, CHIP 10K	(1005)
R6156	1-208-911-81	s RES, CHIP 10K	(1005)
R6158	1-208-911-81	s RES, CHTP 10K	(1005)

R6159	1-208-911-81	s RES, CHIP	10K	(1005)
R6232	1-208-911-81	s RES, CHIP	10K	(1005)
R6233	1-208-911-81	s RES, CHIP	10K	(1005)
R6281	1-208-911-81	s RES, CHIP	10K	(1005)
R6282	1-208-911-81	s RES, CHTP	10K	(1005)

R6505	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6508	1-220-878-81	s RES, CHIP 22 (1005)
R6509	1-220-878-81	s RES, CHIP 22 (1005)
R6510	1-220-878-81	s RES, CHIP 22 (1005)
R6511	1-220-878-81	s RES, CHIP 22 (1005)

R6512	1-220-878-81	s	RES,	CHIP	22	(1005)
R6513	1-220-878-81	s	RES,	CHIP	22	(1005)
R6514	1-220-878-81	s	RES,	CHIP	22	(1005)
R6515	1-220-878-81	s	RES,	CHIP	22	(1005)
R6516	1-220-878-81	s	RES,	CHIP	22	(1005)

R6517	1-220-878-81	s	RES,	CHIP	22	(1005)
R6518	1-220-878-81	s	RES,	CHIP	22	(1005)
R6519	1-220-878-81	s	RES,	CHIP	22	(1005)
R6567	1-208-927-81	s	RES,	CHIP	47K	(1005)
R6570	1-218-990-81	s	CONDUCTOR	CHIP		(1005)

R6580	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6581	1-208-887-81	s RES, CHIP 1.0K (1005)
R6582	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6583	1-208-887-81	s RES, CHIP 1.0K (1005)
R6584	1-218-990-81	s CONDUCTOR, CHIP (1005)

R6585 1-208-887-81 s RES, CHIP 1.0K (1005)
R6588 1-218-990-81 s CONDUCTOR, CHIP (1005)
R6591 1-218-990-81 s CONDUCTOR, CHIP (1005)
R6595 1-218-990-81 s CONDUCTOR, CHIP (1005)
R6598 1-218-990-81 s CONDUCTOR CHIP (1005)

R6600 1-218-990-81 s CONDUCTOR, CHIP (1005)
R6601 1-218-990-81 s CONDUCTOR, CHIP (1005)
R6604 1-208-903-81 s RES, CHIP 4.7K (1005)
R6612 1-208-903-81 s RES, CHIP 4.7K (1005)

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R6613	1-208-903-81	s RES, CHIP 4.7K (1005)
R6616	1-208-927-81	s RES, CHIP 47K (1005)
R6667	1-208-887-81	s RES, CHIP 1.0K (1005)
R6670	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6671	1-218-990-81	s CONDUCTOR, CHIP (1005)

R6754	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6755	1-208-903-81	s RES, CHIP 4.7K (1005)
R6756	1-220-882-81	s RES, CHIP 33 (1005)
R6757	1-220-882-81	s RES, CHIP 33 (1005)
R6759	1-220-870-81	s RES, CHIP 10 (1005)

R6763	1-220-878-81	s RES, CHIP 22 (1005)
R6764	1-220-878-81	s RES, CHIP 22 (1005)
R6765	1-208-911-81	s RES, CHIP 10K (1005)
R6766	1-208-911-81	s RES, CHIP 10K (1005)
R6767	1-208-907-81	s RES, CHIP 6.8K (1005)

R6768	1-208-907-81	s RES, CHIP 6.8K (1005)
R6769	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6770	1-208-917-81	s RES, CHIP 18K (1005)
R6771	1-208-917-81	s RES, CHIP 18K (1005)
R6772	1-218-990-81	s CONDUCTOR, CHIP (1005)

R6773	1-208-907-81	s RES, CHIP 6.8K (1005)
R6774	1-208-917-81	s RES, CHIP 18K (1005)
R6775	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6776	1-208-907-81	s RES, CHIP 6.8K (1005)
R6777	1-208-917-81	s RES, CHIP 18K (1005)

R6778	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6779	1-208-907-81	s RES, CHIP 6.8K (1005)
R6805	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6860	1-208-911-81	s RES, CHIP 10K (1005)
R6865	1-218-990-81	s CONDUCTOR, CHIP (1005)

R6870	1-208-917-81	s RES, CHIP 18K (1005)
R6871	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6872	1-208-907-81	s RES, CHIP 6.8K (1005)
R6873	1-208-917-81	s RES, CHIP 18K (1005)
R6874	1-218-990-81	s CONDUCTOR, CHIP (1005)

R6875	1-208-907-81	s RES, CHIP 6.8K (1005)
R6876	1-208-907-81	s RES, CHIP 6.8K (1005)
R6877	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6878	1-208-917-81	s RES, CHIP 18K (1005)
R6898	1-208-863-81	s RES, CHIP 100 (1005)

R6899	1-208-863-81	s RES, CHIP 100 (1005)
R6901	1-208-911-81	s RES, CHIP 10K (1005)
R6902	1-208-907-81	s RES, CHIP 6.8K (1005)
R6903	1-208-911-81	s RES, CHIP 10K (1005)
R6904	1-208-911-81	s RES, CHIP 10K (1005)

R6905	1-208-907-81	s RES, CHIP 6.8K (1005)
R6906	1-208-911-81	s RES, CHIP 10K (1005)
R6907	1-208-911-81	s RES, CHIP 10K (1005)
R6911	1-246-137-21	s RES, CHIP 137 (1005)
R6912	1-208-911-81	s RES, CHIP 10K (1005)

R6913	1-246-137-21	s RES, CHIP 137 (1005)
R6914	1-208-911-81	s RES, CHIP 10K (1005)
R6923	1-208-911-81	s RES, CHIP 10K (1005)
R6924	1-208-911-81	s RES, CHIP 10K (1005)
R6925	1-208-911-81	s RES, CHIP 10K (1005)

R6933	1-208-903-81	s RES, CHIP 4.7K (1005)
R6934	1-208-903-81	s RES, CHIP 4.7K (1005)
R6935	1-208-903-81	s RES, CHIP 4.7K (1005)
R6936	1-208-903-81	s RES, CHIP 4.7K (1005)

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R6937	1-208-903-81	s RES, CHIP 4.7K (1005)
R6938	1-208-903-81	s RES, CHIP 4.7K (1005)
R6939	1-208-903-81	s RES, CHIP 4.7K (1005)
R6940	1-208-903-81	s RES, CHIP 4.7K (1005)
R6941	1-208-903-81	s RES, CHIP 4.7K (1005)

R6942	1-208-903-81	s RES, CHIP 4.7K (1005)
R6943	1-208-903-81	s RES, CHIP 4.7K (1005)
R6944	1-208-903-81	s RES, CHIP 4.7K (1005)
R6945	1-208-895-81	s RES, CHIP 2.2K (1005)
R6946	1-208-895-81	s RES, CHIP 2.2K (1005)

R6947	1-208-895-81	s RES, CHIP 2.2K (1005)
R6948	1-208-895-81	s RES, CHIP 2.2K (1005)
R6949	1-208-887-81	s RES, CHIP 1.0K (1005)
R6956	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6957	1-218-990-81	s CONDUCTOR, CHIP (1005)

R6958	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6961	1-208-907-81	s RES, CHIP 6.8K (1005)
R6962	1-208-907-81	s RES, CHIP 6.8K (1005)
R6963	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6964	1-208-917-81	s RES, CHIP 18K (1005)

R6970	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6973	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6974	1-208-911-81	s RES, CHIP 10K (1005)
R6976	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6978	1-218-990-81	s CONDUCTOR, CHIP (1005)

R6981	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6982	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6983	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6985	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6986	1-218-990-81	s CONDUCTOR, CHIP (1005)

R6987	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6988	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6989	1-220-878-81	s RES, CHIP 22 (1005)
R6990	1-220-878-81	s RES, CHIP 22 (1005)
R6991	1-208-911-81	s RES, CHIP 10K (1005)

R6992	1-208-911-81	s RES, CHIP 10K (1005)
R6996	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6997	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6998	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7101	1-208-891-81	s RES, CHIP 1.5K (1005)

R7102	1-208-891-81	s RES, CHIP 1.5K (1005)
R7103	1-208-891-81	s RES, CHIP 1.5K (1005)
R7104	1-208-891-81	s RES, CHIP 1.5K (1005)
R7105	1-218-878-91	s RES, CHIP 20K (1608)
R7106	1-208-891-81	s RES, CHIP 1.5K (1005)

R7107	1-208-915-81	s RES, CHIP 15K (1005)
R7108	1-208-891-81	s RES, CHIP 1.5K (1005)
R7111	1-208-891-81	s RES, CHIP 1.5K (1005)
R7112	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7113	1-208-906-81	s RES, CHIP 6.2K (1005)

R7114	1-208-880-81	s RES, CHIP 510 (1005)
R7117	1-208-884-81	s RES, CHIP 750 (1005)
R7118	1-211-987-91	s RES, CHIP 56 (1608)
R7119	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7120	1-218-990-81	s CONDUCTOR, CHIP (1005)

R7121	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7123	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7124	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7125	1-218-990-81	s CONDUCTOR, CHIP (1005)

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R7127	1-208-881-81	s RES, CHIP 560 (1005)	R7243	1-216-864-91	s CONDUCTOR, CHIP (1608)
R7128	1-208-881-81	s RES, CHIP 560 (1005)	R7244	1-216-789-91	s RES, CHIP 2.2 (1608)
R7129	1-208-881-81	s RES, CHIP 560 (1005)	R7245	1-216-864-91	s CONDUCTOR, CHIP (1608)
R7131	1-220-870-81	s RES, CHIP 10 (1005)	R7246	1-216-789-91	s RES, CHIP 2.2 (1608)
R7132	1-208-881-81	s RES, CHIP 560 (1005)	R7247	1-216-864-91	s CONDUCTOR, CHIP (1608)
R7133	1-208-909-81	s RES, CHIP 8.2K (1005)	R7255	1-208-901-81	s RES, CHIP 3.9K (1005)
R7134	1-208-917-81	s RES, CHIP 18K (1005)	R7256	1-208-923-81	s RES, CHIP 33K (1005)
R7135	1-208-891-81	s RES, CHIP 1.5K (1005)	R7257	1-208-923-81	s RES, CHIP 33K (1005)
R7138	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7258	1-216-789-91	s RES, CHIP 2.2 (1608)
R7139	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7259	1-216-789-91	s RES, CHIP 2.2 (1608)
R7140	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7260	1-216-789-91	s RES, CHIP 2.2 (1608)
R7142	1-216-789-91	s RES, CHIP 2.2 (1608)	R7262	1-208-919-81	s RES, CHIP 22K (1005)
R7143	1-216-864-91	s CONDUCTOR, CHIP (1608)	R7263	1-246-121-11	s RES, METAL PLATE CHIP 0.001
R7144	1-216-789-91	s RES, CHIP 2.2 (1608)	R7264	1-246-121-11	s RES, METAL PLATE CHIP 0.001
R7145	1-216-864-91	s CONDUCTOR, CHIP (1608)	R7265	1-246-121-11	s RES, METAL PLATE CHIP 0.001
R7146	1-216-789-91	s RES, CHIP 2.2 (1608)	R7267	1-216-789-91	s RES, CHIP 2.2 (1608)
R7147	1-216-864-91	s CONDUCTOR, CHIP (1608)	R7268	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7154	1-216-789-91	s RES, CHIP 2.2 (1608)	R7270	1-220-870-81	s RES, CHIP 10 (1005)
R7155	1-216-789-91	s RES, CHIP 2.2 (1608)	R7272	1-246-121-11	s RES, METAL PLATE CHIP 0.001
R7156	1-216-789-91	s RES, CHIP 2.2 (1608)	R7277	1-208-887-81	s RES, CHIP 1.0K (1005)
R7158	1-246-121-11	s RES, METAL PLATE CHIP 0.001	R7278	1-208-905-81	s RES, CHIP 5.6K (1005)
R7159	1-246-121-11	s RES, METAL PLATE CHIP 0.001	R7279	1-220-870-81	s RES, CHIP 10 (1005)
R7161	1-246-121-11	s RES, METAL PLATE CHIP 0.001	R7403	1-208-931-81	s RES, CHIP 68K (1005)
R7177	1-208-887-81	s RES, CHIP 1.0K (1005)	R7404	1-208-931-81	s RES, CHIP 68K (1005)
R7178	1-208-905-81	s RES, CHIP 5.6K (1005)	R7410	1-208-921-81	s RES, CHIP 27K (1005)
R7201	1-208-891-81	s RES, CHIP 1.5K (1005)	R7411	1-208-905-81	s RES, CHIP 5.6K (1005)
R7202	1-208-891-81	s RES, CHIP 1.5K (1005)	R7412	1-208-905-81	s RES, CHIP 5.6K (1005)
R7203	1-208-891-81	s RES, CHIP 1.5K (1005)	R7413	1-208-881-81	s RES, CHIP 560 (1005)
R7204	1-208-891-81	s RES, CHIP 1.5K (1005)	R7414	1-208-923-81	s RES, CHIP 33K (1005)
R7205	1-218-878-91	s RES, CHIP 20K (1608)	R7415	1-208-922-81	s RES, CHIP 30K (1005)
R7206	1-208-891-81	s RES, CHIP 1.5K (1005)	R7416	1-208-922-81	s RES, CHIP 30K (1005)
R7207	1-208-915-81	s RES, CHIP 15K (1005)	R7417	1-208-923-81	s RES, CHIP 33K (1005)
R7208	1-208-891-81	s RES, CHIP 1.5K (1005)	R7418	1-208-881-81	s RES, CHIP 560 (1005)
R7211	1-208-891-81	s RES, CHIP 1.5K (1005)	R7419	1-208-919-81	s RES, CHIP 22K (1005)
R7212	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7420	1-208-919-81	s RES, CHIP 22K (1005)
R7213	1-208-906-81	s RES, CHIP 6.2K (1005)	R7421	1-208-919-81	s RES, CHIP 22K (1005)
R7214	1-208-880-81	s RES, CHIP 510 (1005)	R7422	1-208-891-81	s RES, CHIP 1.5K (1005)
R7217	1-208-884-81	s RES, CHIP 750 (1005)	R7423	1-208-891-81	s RES, CHIP 1.5K (1005)
R7218	1-211-987-91	s RES, CHIP 56 (1608)	R7424	1-208-891-81	s RES, CHIP 1.5K (1005)
R7219	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7425	1-216-789-91	s RES, CHIP 2.2 (1608)
R7220	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7426	1-216-789-91	s RES, CHIP 2.2 (1608)
R7221	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7427	1-216-789-91	s RES, CHIP 2.2 (1608)
R7223	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7428	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7224	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7429	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7225	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7430	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7226	1-208-909-81	s RES, CHIP 8.2K (1005)	R7431	1-208-911-81	s RES, CHIP 10K (1005)
R7227	1-208-881-81	s RES, CHIP 560 (1005)	R7435	1-220-870-81	s RES, CHIP 10 (1005)
R7228	1-208-881-81	s RES, CHIP 560 (1005)	R7439	1-220-870-81	s RES, CHIP 10 (1005)
R7229	1-208-881-81	s RES, CHIP 560 (1005)	R7472	1-220-870-81	s RES, CHIP 10 (1005)
R7230	1-208-911-81	s RES, CHIP 10K (1005)	R7473	1-220-870-81	s RES, CHIP 10 (1005)
R7231	1-220-870-81	s RES, CHIP 10 (1005)	R7505	1-208-923-81	s RES, CHIP 33K (1005)
R7232	1-208-881-81	s RES, CHIP 560 (1005)	R7506	1-208-913-81	s RES, CHIP 12K (1005)
R7233	1-208-909-81	s RES, CHIP 8.2K (1005)	R7507	1-208-875-81	s RES, CHIP 330 (1005)
R7234	1-208-917-81	s RES, CHIP 18K (1005)	R7508	1-208-911-81	s RES, CHIP 10K (1005)
R7235	1-208-891-81	s RES, CHIP 1.5K (1005)	R7509	1-208-911-81	s RES, CHIP 10K (1005)
R7238	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7511	1-208-893-81	s RES, CHIP 1.8K (1005)
R7239	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7512	1-208-923-81	s RES, CHIP 33K (1005)
R7240	1-218-990-81	s CONDUCTOR, CHIP (1005)	R7513	1-208-919-81	s RES, CHIP 22K (1005)
R7242	1-216-789-91	s RES, CHIP 2.2 (1608)	R7514	1-208-911-81	s RES, CHIP 10K (1005)

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R7515 1-208-919-81 s RES, CHIP 22K (1005)
 R7516 1-208-923-81 s RES, CHIP 33K (1005)
 R7517 1-208-903-81 s RES, CHIP 4.7K (1005)
 R7518 1-208-917-81 s RES, CHIP 18K (1005)
 R7519 1-208-919-81 s RES, CHIP 22K (1005)

R7520 1-208-873-81 s RES, CHIP 270 (1005)
 R7525 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R7526 1-208-935-81 s RES, CHIP 100K (1005)
 R7527 1-208-935-81 s RES, CHIP 100K (1005)
 R7528 1-208-911-81 s RES, CHIP 10K (1005)

R7533 1-208-923-81 s RES, CHIP 33K (1005)
 R7534 1-208-913-81 s RES, CHIP 12K (1005)
 R7535 1-208-875-81 s RES, CHIP 330 (1005)
 R7536 1-208-887-81 s RES, CHIP 1.0K (1005)
 R7537 1-208-911-81 s RES, CHIP 10K (1005)

R7538 1-208-923-81 s RES, CHIP 33K (1005)
 R7539 1-208-893-81 s RES, CHIP 1.8K (1005)
 R7540 1-208-923-81 s RES, CHIP 33K (1005)
 R7541 1-208-919-81 s RES, CHIP 22K (1005)
 R7542 1-208-911-81 s RES, CHIP 10K (1005)

R7543 1-208-911-81 s RES, CHIP 10K (1005)
 R7544 1-208-935-81 s RES, CHIP 100K (1005)
 R7545 1-208-973-81 s RES, CHIP 270 (1005)
 R7553 1-208-911-81 s RES, CHIP 10K (1005)
 R7554 1-208-911-81 s RES, CHIP 10K (1005)

R7556 1-208-887-81 s RES, CHIP 1.0K (1005)
 R7557 1-208-911-81 s RES, CHIP 10K (1005)
 R7558 1-208-923-81 s RES, CHIP 33K (1005)
 R7559 1-208-887-81 s RES, CHIP 1.0K (1005)
 R7560 1-208-911-81 s RES, CHIP 10K (1005)

R7561 1-208-923-81 s RES, CHIP 33K (1005)
 R7562 1-208-887-81 s RES, CHIP 1.0K (1005)
 R7563 1-208-911-81 s RES, CHIP 10K (1005)
 R7564 1-208-923-81 s RES, CHIP 33K (1005)
 R7565 1-208-887-81 s RES, CHIP 1.0K (1005)

R7566 1-208-911-81 s RES, CHIP 10K (1005)
 R7567 1-208-923-81 s RES, CHIP 33K (1005)
 R7568 1-208-913-81 s RES, CHIP 12K (1005)
 R7569 1-208-913-81 s RES, CHIP 12K (1005)
 R7570 1-208-935-81 s RES, CHIP 100K (1005)

R7580 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R7586 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7587 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7588 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7589 1-216-864-91 s CONDUCTOR, CHIP (1608)

R7590 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7591 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7592 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7593 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7594 1-216-864-91 s CONDUCTOR, CHIP (1608)

R7595 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7597 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7598 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7599 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7600 1-208-911-81 s RES, CHIP 10K (1005)

R7601 1-208-911-81 s RES, CHIP 10K (1005)
 R7602 1-208-911-81 s RES, CHIP 10K (1005)
 R7603 1-208-911-81 s RES, CHIP 10K (1005)
 R7604 1-218-990-81 s CONDUCTOR, CHIP (1005)

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Ref. No.
or Q'ty Part No. SP Description

R7605 1-208-915-81 s RES, CHIP 15K (1005)
 R7606 1-208-911-81 s RES, CHIP 10K (1005)
 R7607 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R7608 1-208-915-81 s RES, CHIP 15K (1005)
 R7609 1-208-911-81 s RES, CHIP 10K (1005)

R7610 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R7611 1-208-915-81 s RES, CHIP 15K (1005)
 R7612 1-208-911-81 s RES, CHIP 10K (1005)
 R7613 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R7614 1-208-915-81 s RES, CHIP 15K (1005)

R7623 1-208-911-81 s RES, CHIP 10K (1005)
 R7624 1-208-911-81 s RES, CHIP 10K (1005)
 R7626 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7627 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7628 1-216-864-91 s CONDUCTOR, CHIP (1608)

R7629 1-218-990-81 s CONDUCTOR, CHIP (1005)
 R7630 1-208-911-81 s RES, CHIP 10K (1005)
 R7631 1-208-915-81 s RES, CHIP 15K (1005)
 R7633 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7635 1-208-919-81 s RES, CHIP 22K (1005)

R7636 1-208-919-81 s RES, CHIP 22K (1005)
 R7637 1-208-935-81 s RES, CHIP 100K (1005)
 R7638 1-208-887-81 s RES, CHIP 1.0K (1005)
 R7639 1-208-911-81 s RES, CHIP 10K (1005)
 R7640 1-208-923-81 s RES, CHIP 33K (1005)

R7641 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7650 1-208-919-81 s RES, CHIP 22K (1005)
 R7651 1-208-919-81 s RES, CHIP 22K (1005)
 R7652 1-208-935-81 s RES, CHIP 100K (1005)
 R7656 1-208-931-81 s RES, CHIP 68K (1005)

R7658 1-208-922-81 s RES, CHIP 30K (1005)
 R7659 1-208-923-81 s RES, CHIP 33K (1005)
 R7660 1-208-881-81 s RES, CHIP 560 (1005)
 R7661 1-208-891-81 s RES, CHIP 1.5K (1005)
 R7662 1-208-919-81 s RES, CHIP 22K (1005)

R7663 1-216-789-91 s RES, CHIP 2.2 (1608)
 R7664 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7666 1-220-870-81 s RES, CHIP 10 (1005)
 R7668 1-220-870-81 s RES, CHIP 10 (1005)
 R7677 1-208-927-81 s RES, CHIP 47K (1005)

R7678 1-208-917-81 s RES, CHIP 18K (1005)
 R7679 1-208-935-81 s RES, CHIP 100K (1005)
 R7681 1-208-911-81 s RES, CHIP 10K (1005)
 R7682 1-208-911-81 s RES, CHIP 10K (1005)
 R7683 1-208-935-81 s RES, CHIP 100K (1005)

R7685 1-208-935-81 s RES, CHIP 100K (1005)
 R7688 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7690 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7691 1-216-864-91 s CONDUCTOR, CHIP (1608)
 R7692 1-216-864-91 s CONDUCTOR, CHIP (1608)

R7701 1-208-911-81 s RES, CHIP 10K (1005)
 R7702 1-208-911-81 s RES, CHIP 10K (1005)
 R7703 1-208-911-81 s RES, CHIP 10K (1005)
 R7704 1-208-911-81 s RES, CHIP 10K (1005)
 R7705 1-208-911-81 s RES, CHIP 10K (1005)

R7706 1-208-911-81 s RES, CHIP 10K (1005)
 R7707 1-208-911-81 s RES, CHIP 10K (1005)
 R7708 1-208-911-81 s RES, CHIP 10K (1005)
 R7709 1-216-864-91 s CONDUCTOR, CHIP (1608)

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Ref. No. or Q'ty	Part No.	SP Description
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R7710	1-208-911-81	s RES, CHIP 10K (1005)	R8118	1-216-864-91	s CONDUCTOR, CHIP (1608)
R7711	1-208-911-81	s RES, CHIP 10K (1005)	R8119	1-208-893-81	s RES, CHIP 1.8K (1005)
R7712	1-208-911-81	s RES, CHIP 10K (1005)	R8120	1-218-856-91	s RES, CHIP 2.4K (1608)
R7713	1-208-911-81	s RES, CHIP 10K (1005)	R8121	1-208-906-81	s RES, CHIP 6.2K (1005)
R7714	1-208-911-81	s RES, CHIP 10K (1005)	R8122	1-220-870-81	s RES, CHIP 10 (1005)
R7715	1-208-911-81	s RES, CHIP 10K (1005)	R8123	1-208-915-81	s RES, CHIP 15K (1005)
R7716	1-208-911-81	s RES, CHIP 10K (1005)	R8124	1-208-919-81	s RES, CHIP 22K (1005)
R7717	1-208-911-81	s RES, CHIP 10K (1005)	R8126	1-208-911-81	s RES, CHIP 10K (1005)
R7718	1-208-911-81	s RES, CHIP 10K (1005)	R8127	1-208-894-81	s RES, CHIP 2.0K (1005)
R7719	1-208-911-81	s RES, CHIP 10K (1005)	R8129	1-208-895-81	s RES, CHIP 2.2K (1005)
R7720	1-208-911-81	s RES, CHIP 10K (1005)	R8409	1-208-911-81	s RES, CHIP 10K (1005)
R7721	1-208-911-81	s RES, CHIP 10K (1005)	R8410	1-208-911-81	s RES, CHIP 10K (1005)
R7722	1-208-887-81	s RES, CHIP 1.0K (1005)	R8411	1-208-911-81	s RES, CHIP 10K (1005)
R7723	1-208-917-81	s RES, CHIP 18K (1005)	R8412	1-208-911-81	s RES, CHIP 10K (1005)
R7724	1-208-913-81	s RES, CHIP 12K (1005)	R8413	1-208-911-81	s RES, CHIP 10K (1005)
R7725	1-216-864-91	s CONDUCTOR, CHIP (1608)	R8414	1-208-911-81	s RES, CHIP 10K (1005)
R7726	1-208-911-81	s RES, CHIP 10K (1005)	R8415	1-208-911-81	s RES, CHIP 10K (1005)
R7728	1-208-911-81	s RES, CHIP 10K (1005)	R8416	1-208-911-81	s RES, CHIP 10K (1005)
R7729	1-208-911-81	s RES, CHIP 10K (1005)	R8456	1-208-911-81	s RES, CHIP 10K (1005)
R7730	1-208-911-81	s RES, CHIP 10K (1005)	R8457	1-208-911-81	s RES, CHIP 10K (1005)
R7731	1-208-911-81	s RES, CHIP 10K (1005)	R8458	1-208-911-81	s RES, CHIP 10K (1005)
R7732	1-208-911-81	s RES, CHIP 10K (1005)	R8463	1-208-911-81	s RES, CHIP 10K (1005)
R7737	1-208-903-81	s RES, CHIP 4.7K (1005)	R8650	1-208-903-81	s RES, CHIP 4.7K (1005)
R7738	1-216-864-91	s CONDUCTOR, CHIP (1608)	RB4501	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7739	1-208-903-81	s RES, CHIP 4.7K (1005)	RB4502	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7740	1-218-990-81	s CONDUCTOR, CHIP (1005)	RB4503	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7741	1-208-935-81	s RES, CHIP 100K (1005)	RB4504	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7742	1-208-935-81	s RES, CHIP 100K (1005)	RB4505	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7749	1-208-873-81	s RES, CHIP 270 (1005)	RB4506	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7750	1-216-864-91	s CONDUCTOR, CHIP (1608)	RB4507	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7751	1-218-990-81	s CONDUCTOR, CHIP (1005)	RB4508	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7752	1-208-887-81	s RES, CHIP 1.0K (1005)	RB4509	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7753	1-208-911-81	s RES, CHIP 10K (1005)	RB4510	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7754	1-208-923-81	s RES, CHIP 33K (1005)	RB4511	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7756	1-216-864-91	s CONDUCTOR, CHIP (1608)	RB4512	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7757	1-218-990-81	s CONDUCTOR, CHIP (1005)	RB4513	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7758	1-208-887-81	s RES, CHIP 1.0K (1005)	RB4514	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7759	1-208-911-81	s RES, CHIP 10K (1005)	RB4515	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7760	1-208-921-81	s RES, CHIP 27K (1005)	RB4516	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7762	1-216-864-91	s CONDUCTOR, CHIP (1608)	RB4517	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7767	1-208-911-81	s RES, CHIP 10K (1005)	RB4518	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7802	1-208-911-81	s RES, CHIP 10K (1005)	RB4519	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7803	1-208-911-81	s RES, CHIP 10K (1005)	RB4520	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7804	1-218-990-81	s CONDUCTOR, CHIP (1005)	RB4521	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7808	1-208-911-81	s RES, CHIP 10K (1005)	RB4522	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7809	1-208-911-81	s RES, CHIP 10K (1005)	RB4523	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7813	1-218-990-81	s CONDUCTOR, CHIP (1005)	RB4524	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7890	1-208-911-81	s RES, CHIP 10K (1005)	RB4525	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7891	1-208-911-81	s RES, CHIP 10K (1005)	RB4526	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7892	1-208-911-81	s RES, CHIP 10K (1005)	RB4527	1-234-370-21	s RES, NETWORK 22 (1005X4)
R7902	1-218-990-81	s CONDUCTOR, CHIP (1005)	RB4528	1-234-370-21	s RES, NETWORK 22 (1005X4)
R8001	1-208-911-81	s RES, CHIP 10K (1005)	RB4529	1-234-370-21	s RES, NETWORK 22 (1005X4)
R8002	1-208-911-81	s RES, CHIP 10K (1005)	RB4530	1-234-370-21	s RES, NETWORK 22 (1005X4)
R8003	1-208-911-81	s RES, CHIP 10K (1005)	RB4531	1-234-370-21	s RES, NETWORK 22 (1005X4)
R8022	1-218-990-81	s CONDUCTOR, CHIP (1005)	RB4532	1-234-370-21	s RES, NETWORK 22 (1005X4)
R8113	1-220-870-81	s RES, CHIP 10 (1005)	RV4301	1-803-974-21	s VARISTOR, CHIP (1608)
R8114	1-208-931-81	s RES, CHIP 68K (1005)	RV4303	1-803-974-21	s VARISTOR, CHIP (1608)
R8115	1-208-891-81	s RES, CHIP 1.5K (1005)	RV4305	1-803-974-21	s VARISTOR, CHIP (1608)
R8117	1-216-789-91	s RES, CHIP 2.2 (1608)			

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Ref. No. or Q'ty	Part No.	SP Description
RV4307	1-803-974-21 s	VARISTOR, CHIP (1608)
S6001	1-572-595-21 s	SWITCH, TACTILE (REFLOW TYPE)
S6002	1-692-270-41 s	SWITCH, SLIDE
S6003	1-692-270-41 s	SWITCH, SLIDE
S6501	1-572-595-21 s	SWITCH, TACTILE (REFLOW TYPE)
S6503	1-572-595-21 s	SWITCH, TACTILE (REFLOW TYPE)
TH4101	△ 1-802-243-11 s	THERMISTOR, POSITIVE
TH4201	△ 1-802-243-11 s	THERMISTOR, POSITIVE
TH6001	△ 1-802-243-11 s	THERMISTOR, POSITIVE
TH6002	△ 1-802-243-11 s	THERMISTOR, POSITIVE
TH6003	△ 1-802-243-11 s	THERMISTOR, POSITIVE
X3100	1-813-049-21 s	VIBRATOR, CRYSTAL (24.576 MHz)
X4001	1-813-264-11 s	OSCILLATOR, CRYSTAL
X4100	1-813-052-21 s	VIBRATOR, CRYSTAL (25 MHz)
X4101	1-813-640-11 s	OSCILLATOR, CRYSTAL (125MHz)
X4102	1-813-345-21 s	VIBRATOR, CRYSTAL (30 MHz)
X4201	1-795-983-11 s	OSCILLATOR, CRYSTAL
X4301	1-813-052-21 s	VIBRATOR, CRYSTAL (25 MHz)
X5002	1-795-981-21 s	VIBRATOR, CRYSTAL (14.31818 MHz)
X6001	1-781-696-31 s	VIBRATOR, CRYSTAL (32.768 KHz)
X6002	1-813-497-21 s	VIBRATOR, CRYSTAL (10.000MHz) (10 MHz)

CN-3056 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1334-381-A s	OUNTED CIRCUIT BOARD, CN-3056
2pcs	7-621-771-06 s	SCREW +B 2X5
CN2	1-770-470-21 o	PIN, CONNECTOR (PC BOARD) 6P
1pc	A-1283-776-A s	OUNTED CIRCUIT BOARD, EX-1076

EX-1076 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1283-776-A s	OUNTED CIRCUIT BOARD, EX-1076

KY-631 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1506-786-A s	MOUNTED CIRCUIT BOARD, KY-631
1pc	3-561-426-01 s	CUSHION
BZ100	1-826-530-11 s	BUZZER, PIEZOELECTRIC
C100	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C101	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C104	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C105	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C106	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C107	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C108	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C200	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C201	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C202	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C203	1-107-823-91 s	CAP, CERAMIC 470000PF B (2012)
C204	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C205	1-107-823-91 s	CAP, CERAMIC 470000PF B (2012)
C206	1-125-777-81 s	CAP, CHIP CERAMIC 0.1MF B 1005
C207	1-107-823-91 s	CAP, CERAMIC 470000PF B (2012)
C208	1-107-823-91 s	CAP, CERAMIC 470000PF B (2012)
CN100	1-778-648-31 s	CONNECTOR, FFC/FPC(ZIF) ST 20P
CN101	1-779-884-21 s	CONNECTOR 4P
CN200	1-779-993-21 s	PIN, CONNECTOR (PWB) 5P
CN201	1-817-109-11 s	CONNECTOR, USB (A)
CN202	1-565-388-11 o	CONNECTOR, D-SUB 9P
D100	8-719-989-04 s	DIODE DAN222-TL
D106	6-500-122-01 s	DIODE CL-375HR/YG-D-TS
D107	8-719-077-09 s	DIODE CL-196HR-CD-T
D108	8-719-074-31 s	DIODE CL-196YG-CD-T
D109	8-719-074-31 s	DIODE CL-196YG-CD-T
D110	8-719-074-31 s	DIODE CL-196YG-CD-T
D111	8-719-074-31 s	DIODE CL-196YG-CD-T
D112	6-501-689-01 s	DIODE CL-271HB1-D-TS
D200	6-500-701-01 s	DIODE PGB1010603NR
D201	6-500-701-01 s	DIODE PGB1010603NR
E100	1-535-757-21 s	CHIP, CHECKER
FB100	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB101	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB102	1-469-094-21 s	FERRITE, EMI (SMD) (1608)
FB200	1-481-195-21 s	FERRITE, EMI (SMD)
FL200	1-239-825-31 s	FILTER, CHIP EMI
FL201	1-239-825-31 s	FILTER, CHIP EMI
FL202	1-239-825-31 s	FILTER, CHIP EMI
FL203	1-239-825-31 s	FILTER, CHIP EMI
IC100	6-712-634-01 s	IC PCA9539PWR
IC101	6-712-634-01 s	IC PCA9539PWR
IC200	8-759-549-01 s	IC SN74LV125APWR
IC201	8-759-549-01 s	IC SN74LV125APWR
IC202	8-759-592-44 s	IC TC7SZ04FU(TE85R)
IC203	6-705-514-01 s	IC MAX3222IPWR
L200	1-813-308-11 o	COMMON MODE CHOKE
Q100	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q101	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q102	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q103	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q104	8-729-929-09 s	TRANSISTOR DTC123JE-TL

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Ref. No. or Q'ty	Part No.	SP Description
Q105	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q106	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q107	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q108	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q109	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q110	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q111	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q112	8-729-929-09 s	TRANSISTOR DTC123JE-TL
R100	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R101	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R102	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R103	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R104	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R105	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R106	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R108	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R109	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R110	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R111	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R112	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R115	1-208-887-81 s	RES, CHIP 1.0K (1005)
R117	1-208-887-81 s	RES, CHIP 1.0K (1005)
R119	1-208-903-81 s	RES, CHIP 4.7K (1005)
R121	1-220-878-81 s	RES, CHIP 22 (1005)
R123	1-208-871-81 s	RES, CHIP 220 (1005)
R126	1-208-855-81 s	RES, CHIP 47 (1005)
R127	1-208-871-81 s	RES, CHIP 220 (1005)
R128	1-208-863-81 s	RES, CHIP 100 (1005)
R129	1-208-863-81 s	RES, CHIP 100 (1005)
R130	1-208-863-81 s	RES, CHIP 100 (1005)
R131	1-208-863-81 s	RES, CHIP 100 (1005)
R134	1-220-870-81 s	RES, CHIP 10 (1005)
R135	1-208-887-81 s	RES, CHIP 1.0K (1005)
R136	1-208-887-81 s	RES, CHIP 1.0K (1005)
R139	1-208-887-81 s	RES, CHIP 1.0K (1005)
R200	1-208-887-81 s	RES, CHIP 1.0K (1005)
R201	1-208-887-81 s	RES, CHIP 1.0K (1005)
R202	1-208-887-81 s	RES, CHIP 1.0K (1005)
R203	1-208-887-81 s	RES, CHIP 1.0K (1005)
R204	1-208-887-81 s	RES, CHIP 1.0K (1005)
R205	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R206	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R207	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R208	1-220-878-81 s	RES, CHIP 22 (1005)
R209	1-220-878-81 s	RES, CHIP 22 (1005)
R210	1-220-878-81 s	RES, CHIP 22 (1005)
R211	1-220-878-81 s	RES, CHIP 22 (1005)
R212	1-208-911-81 s	RES, CHIP 10K (1005)
R213	1-220-878-81 s	RES, CHIP 22 (1005)
R214	1-220-878-81 s	RES, CHIP 22 (1005)
R215	1-220-878-81 s	RES, CHIP 22 (1005)
R216	1-220-878-81 s	RES, CHIP 22 (1005)
R217	1-218-990-81 s	CONDUCTOR, CHIP (1005)
RB100	1-234-378-21 s	RES, NETWORK 10K (1005X4)
RB101	1-234-378-21 s	RES, NETWORK 10K (1005X4)
S100	1-786-933-11 s	SWITCH, TACTILE
S101	1-786-933-11 s	SWITCH, TACTILE
S102	1-771-881-21 s	SWITCH, DIGITAL (SMD)

(KY-631 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
S103	1-786-933-11 s	SWITCH, TACTILE
VDR200	1-803-974-21 s	VARISTOR, CHIP (1608)
VDR201	1-803-974-21 s	VARISTOR, CHIP (1608)
VDR202	1-803-974-21 s	VARISTOR, CHIP (1608)
VDR203	1-803-974-21 s	VARISTOR, CHIP (1608)

Ref. No. or Q'ty	Part No.	SP Description
-----	LED-471 BOARD	-----
-----	CN1	1-779-884-21 s CONNECTOR 4P
D1	6-501-052-02 s	DIODE CL-197HB1-D-T
D2	8-719-077-09 s	DIODE CL-196HR-CD-T
D3	6-501-052-02 s	DIODE CL-197HB1-D-T
D4	8-719-077-09 s	DIODE CL-196HR-CD-T
D5	6-501-052-02 s	DIODE CL-197HB1-D-T
D6	8-719-077-09 s	DIODE CL-196HR-CD-T
D7	6-501-052-02 s	DIODE CL-197HB1-D-T
D8	8-719-077-09 s	DIODE CL-196HR-CD-T
D9	6-501-052-02 s	DIODE CL-197HB1-D-T
D10	8-719-077-09 s	DIODE CL-196HR-CD-T
D11	6-501-052-02 s	DIODE CL-197HB1-D-T
D12	8-719-077-09 s	DIODE CL-196HR-CD-T
R1	1-208-859-81 s	RES, CHIP 68 (1005)
R2	1-208-859-81 s	RES, CHIP 68 (1005)
R3	1-208-859-81 s	RES, CHIP 68 (1005)
R4	1-208-859-81 s	RES, CHIP 68 (1005)
R5	1-208-859-81 s	RES, CHIP 68 (1005)
R6	1-208-859-81 s	RES, CHIP 68 (1005)
R7	1-208-879-81 s	RES, CHIP 470 (1005)
R8	1-208-879-81 s	RES, CHIP 470 (1005)
R9	1-208-879-81 s	RES, CHIP 470 (1005)
R10	1-208-879-81 s	RES, CHIP 470 (1005)
R11	1-208-879-81 s	RES, CHIP 470 (1005)
R12	1-208-879-81 s	RES, CHIP 470 (1005)

RE-255 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1506-788-A	s MOUNTED CIRCUIT BOARD, RE-255
C3	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C5	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
C6	1-107-819-81	s CAP, CHIP CERAMIC 22000PF B1005
C7	1-164-866-81	s CAP, CHIP CERAMIC 47PF CH 1005
C8	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C9	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C10	1-112-692-81	s CAP, CHIP CERAMIC 1000PF CH 1005
C11	1-112-692-81	s CAP, CHIP CERAMIC 1000PF CH 1005
C12	1-164-874-81	s CAP, CHIP CERAMIC 100PF CH 1005
C13	1-107-823-91	s CAP, CERAMIC 470000PF B (2012)
C14	1-107-823-91	s CAP, CERAMIC 470000PF B (2012)
C15	1-107-819-81	s CAP, CHIP CERAMIC 22000PF B1005
C16	1-107-819-81	s CAP, CHIP CERAMIC 22000PF B1005
C17	1-164-935-81	s CAP, CHIP CERAMIC 470PF B 1005
C18	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C19	1-162-969-91	s CAP, CERAMIC 6800PF B 1608
C21	1-112-298-91	o CAP, CERAMIC 1MF B (1608)
C22	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C23	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C24	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C25	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C26	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C27	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C28	1-112-861-11	s CAP, ELECT 150MF (8X7.7)
C29	1-112-298-91	o CAP, CERAMIC 1MF B (1608)
C30	1-112-298-91	o CAP, CERAMIC 1MF B (1608)
C31	1-112-861-11	s CAP, ELECT 150MF (8X7.7)
C32	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C33	1-112-861-11	s CAP, ELECT 150MF (8X7.7)
C34	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C35	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C36	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C37	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C38	1-114-510-11	s CAP, ELECT 39MF (5X5.8)
C39	1-114-510-11	s CAP, ELECT 39MF (5X5.8)
C41	1-100-421-21	s CAP, ELECT 220MF (6.3X5.9)
C42	1-100-421-21	s CAP, ELECT 220MF (6.3X5.9)
C43	1-100-421-21	s CAP, ELECT 220MF (6.3X5.9)
C44	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C45	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C47	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C48	1-100-986-21	s CAP, ELECT 330MF
C49	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C50	1-100-986-21	s CAP, ELECT 330MF
C51	1-100-421-21	s CAP, ELECT 220MF (6.3X5.9)
C52	1-100-986-21	s CAP, ELECT 330MF
C53	1-100-421-21	s CAP, ELECT 220MF (6.3X5.9)
C54	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C55	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C56	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
CN2	1-778-965-21	s CONNECTOR 12P
CN4	1-770-470-21	o PIN, CONNECTOR (PC BOARD) 6P
D1	8-719-069-28	s DIODE 1SS400TE-61
D2	8-719-069-28	s DIODE 1SS400TE-61
D3	8-719-938-77	s DIODE SB05-05C-TB-E
D4	8-719-056-48	s DIODE 1SS388(TPL3)
D5	8-719-056-48	s DIODE 1SS388(TPL3)

(RE-255 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D6	8-719-072-83	s DIODE MBRS340T3
D7	8-719-072-83	s DIODE MBRS340T3
D8	8-719-072-83	s DIODE MBRS340T3
D9	8-719-069-28	s DIODE 1SS400TE-61
D10	8-719-069-28	s DIODE 1SS400TE-61
IC3	8-759-338-95	s IC NJM2903V(TE2)
IC4	6-707-828-01	s IC MM1431ANRE
IC5	6-700-648-01	s IC LTC1929CG#TR
IC6	6-702-510-01	s IC TPS5120DBTRG4
IC7	8-759-338-95	s IC NJM2903V(TE2)
IC8	8-759-338-95	s IC NJM2903V(TE2)
IC9	6-707-828-01	s IC MM1431ANRE
L3	1-481-407-11	s COIL, CHOKE 3.3UH
L4	1-400-159-21	s COIL, CHOKE 1.0UH
L5	1-456-046-21	s COIL, CHOKE (SMD) 10UH(10X10)
L6	1-456-046-21	s COIL, CHOKE (SMD) 10UH(10X10)
Q1	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q2	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q3	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q4	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q5	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q6	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
Q7	8-729-928-28	s TRANSISTOR DTA144EE-TL
Q8	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q9	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q10	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q11	6-550-657-01	s TRANSISTOR NTD20N03L27-T4
Q12	6-551-952-01	s TR NTD4804NT4G
Q13	6-551-952-01	s TR NTD4804NT4G
Q14	6-551-952-01	s TR NTD4804NT4G
Q15	6-551-952-01	s TR NTD4804NT4G
Q16	6-550-657-01	s TRANSISTOR NTD20N03L27-T4
Q17	8-729-928-82	s TRANSISTOR DTC144EE-TL
Q19	8-729-929-27	s TRANSISTOR DTC114TE-TL
R1	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7	1-218-990-81	s CONDUCTOR, CHIP (1005)
R8	1-218-990-81	s CONDUCTOR, CHIP (1005)
R9	1-218-990-81	s CONDUCTOR, CHIP (1005)
R10	1-218-990-81	s CONDUCTOR, CHIP (1005)
R11	1-218-990-81	s CONDUCTOR, CHIP (1005)
R17	1-208-927-81	s RES, CHIP 47K (1005)
R18	1-218-990-81	s CONDUCTOR, CHIP (1005)
R20	1-218-990-81	s CONDUCTOR, CHIP (1005)
R22	1-208-919-81	s RES, CHIP 22K (1005)
R23	1-208-903-81	s RES, CHIP 4.7K (1005)
R24	1-208-903-81	s RES, CHIP 4.7K (1005)
R26	1-208-935-81	s RES, CHIP 100K (1005)
R27	1-208-923-81	s RES, CHIP 33K (1005)
R28	1-218-990-81	s CONDUCTOR, CHIP (1005)
R29	1-218-990-81	s CONDUCTOR, CHIP (1005)
R30	1-208-903-81	s RES, CHIP 4.7K (1005)
R31	1-208-915-81	s RES, CHIP 15K (1005)
R32	1-218-990-81	s CONDUCTOR, CHIP (1005)

(RE-255 BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
R33	1-208-923-81	s RES, CHIP 33K (1005)	R95	1-208-915-81	s RES, CHIP 15K (1005)
R34	1-208-855-81	s RES, CHIP 47 (1005)	R96	1-208-903-81	s RES, CHIP 4.7K (1005)
R35	1-218-990-81	s CONDUCTOR, CHIP (1005)	R97	1-208-911-81	s RES, CHIP 10K (1005)
R36	1-208-899-81	s RES, CHIP 3.3K (1005)	R100	1-208-927-81	s RES, CHIP 47K (1005)
R37	1-208-871-81	s RES, CHIP 220 (1005)	R101	1-208-891-81	s RES, CHIP 1.5K (1005)
R38	1-208-863-81	s RES, CHIP 100 (1005)	R102	1-208-919-81	s RES, CHIP 22K (1005)
R39	1-208-863-81	s RES, CHIP 100 (1005)	R103	1-208-883-81	s RES, CHIP 680 (1005)
R40	1-208-887-81	s RES, CHIP 1.0K (1005)	R104	1-218-990-81	s CONDUCTOR, CHIP (1005)
R41	1-208-919-81	s RES, CHIP 22K (1005)	R105	1-208-911-81	s RES, CHIP 10K (1005)
R42	1-208-875-81	s RES, CHIP 330 (1005)	R106	1-208-915-81	s RES, CHIP 15K (1005)
R43	1-208-863-81	s RES, CHIP 100 (1005)	R107	1-208-891-81	s RES, CHIP 1.5K (1005)
R44	1-208-899-81	s RES, CHIP 3.3K (1005)	R112	1-208-919-81	s RES, CHIP 22K (1005)
R45	1-208-863-81	s RES, CHIP 100 (1005)	R119	1-208-923-81	s RES, CHIP 33K (1005)
R46	1-208-907-81	s RES, CHIP 6.8K (1005)	R120	1-208-919-81	s RES, CHIP 22K (1005)
R47	1-218-990-81	s CONDUCTOR, CHIP (1005)	R121	1-208-883-81	s RES, CHIP 680 (1005)
R48	1-218-990-81	s CONDUCTOR, CHIP (1005)	R122	1-208-911-81	s RES, CHIP 10K (1005)
R49	1-208-915-81	s RES, CHIP 15K (1005)	R123	1-208-875-81	s RES, CHIP 330 (1005)
R50	1-208-911-81	s RES, CHIP 10K (1005)	THP1	▲ 1-802-108-11	s THERMISTOR, POSITIVE
R51	1-208-931-81	s RES, CHIP 68K (1005)	THP2	▲ 1-802-108-11	s THERMISTOR, POSITIVE
R52	1-208-863-81	s RES, CHIP 100 (1005)			
R53	1-208-863-81	s RES, CHIP 100 (1005)			
R54	1-208-863-81	s RES, CHIP 100 (1005)			
R55	1-218-990-81	s CONDUCTOR, CHIP (1005)			
R56	1-208-887-81	s RES, CHIP 1.0K (1005)			
R57	1-208-911-81	s RES, CHIP 10K (1005)			
R58	1-218-990-81	s CONDUCTOR, CHIP (1005)			
R59	1-208-935-81	s RES, CHIP 100K (1005)			
R60	1-208-951-81	s RES, CHIP 470K (1005)			
R61	1-208-923-81	s RES, CHIP 33K (1005)			
R62	1-208-895-81	s RES, CHIP 2.2K (1005)			
R63	1-208-895-81	s RES, CHIP 2.2K (1005)			
R64	1-208-895-81	s RES, CHIP 2.2K (1005)			
R65	1-208-895-81	s RES, CHIP 2.2K (1005)			
R66	1-208-883-81	s RES, CHIP 680 (1005)			
R67	1-208-887-81	s RES, CHIP 1.0K (1005)			
R68	1-220-870-81	s RES, CHIP 10 (1005)			
R69	1-218-990-81	s CONDUCTOR, CHIP (1005)			
R71	1-218-990-81	s CONDUCTOR, CHIP (1005)			
R73	1-208-927-81	s RES, CHIP 47K (1005)			
R74	1-208-923-81	s RES, CHIP 33K (1005)			
R75	1-218-990-81	s CONDUCTOR, CHIP (1005)			
R76	1-220-870-81	s RES, CHIP 10 (1005)			
R77	1-220-870-81	s RES, CHIP 10 (1005)			
R78	1-220-870-81	s RES, CHIP 10 (1005)			
R79	1-220-870-81	s RES, CHIP 10 (1005)			
R80	1-218-990-81	s CONDUCTOR, CHIP (1005)			
R82	1-208-903-81	s RES, CHIP 4.7K (1005)			
R83	1-208-903-81	s RES, CHIP 4.7K (1005)			
R84	1-219-684-21	s RES, CHIP (SQUARE TYPE) 0.01			
R85	1-219-684-21	s RES, CHIP (SQUARE TYPE) 0.01			
R86	1-219-684-21	s RES, CHIP (SQUARE TYPE) 0.01			
R87	1-219-684-21	s RES, CHIP (SQUARE TYPE) 0.01			
R88	1-219-684-21	s RES, CHIP (SQUARE TYPE) 0.01			
R89	1-219-684-21	s RES, CHIP (SQUARE TYPE) 0.01			
R90	1-220-870-81	s RES, CHIP 10 (1005)			
R91	1-208-927-81	s RES, CHIP 47K (1005)			
R92	1-208-911-81	s RES, CHIP 10K (1005)			
R93	1-208-911-81	s RES, CHIP 10K (1005)			
R94	1-218-990-81	s CONDUCTOR, CHIP (1005)			

2-3-2. BKCU-EX1

MEM-122 BOARD

Ref. No. or Q'ty	Part No.	SP Description
2pcs	7-682-948-01	s SCREW +PSW 3X8
C10	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C11	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C12	1-100-165-21	s CAP, ELECT 47MF (8X7)
C13	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C14	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C15	1-100-165-21	s CAP, ELECT 47MF (8X7)
C16	1-100-581-81	s CAP,CHIP CERAMICO.0047MF B1005
C17	1-100-581-81	s CAP,CHIP CERAMICO.0047MF B1005
C18	1-107-819-81	s CAP,CHIP CERAMIC 22000PF B1005
C19	1-107-819-81	s CAP,CHIP CERAMIC 22000PF B1005
C20	1-100-581-81	s CAP,CHIP CERAMICO.0047MF B1005
C21	1-107-819-81	s CAP,CHIP CERAMIC 22000PF B1005
C22	1-164-882-81	s CAP,CHIP CERAMIC 220PF CH 1005
C23	1-164-882-81	s CAP,CHIP CERAMIC 220PF CH 1005
C24	1-164-882-81	s CAP,CHIP CERAMIC 220PF CH 1005
C25	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C26	1-164-866-81	s CAP, CHIP CERAMIC 47PF CH 1005
C27	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C28	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C29	1-164-939-81	s CAP, CHIP CERAMIC 2200PF B 1005
C30	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C31	1-164-866-81	s CAP, CHIP CERAMIC 47PF CH 1005
C32	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C33	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C34	1-162-969-91	s CAP, CERAMIC 6800PF B 1608
C35	1-162-969-91	s CAP, CERAMIC 6800PF B 1608
C36	1-162-969-91	s CAP, CERAMIC 6800PF B 1608
C37	1-100-165-21	s CAP, ELECT 47MF (8X7)
C38	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C39	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C40	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C41	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C42	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C43	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C44	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C45	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C46	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C47	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C48	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C49	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C50	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C51	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C52	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C53	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C54	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C55	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C56	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C57	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C58	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C59	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C60	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C61	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C62	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C63	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C64	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C65	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C66	1-100-880-91	s CAP, CERAMIC 100MF C (3225)

(MEM-122 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C67	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C68	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C69	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C70	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C71	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C72	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C73	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C74	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C75	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C76	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C77	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C78	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C79	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C80	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C81	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C82	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C83	1-164-940-81	s CAP,CHIP CERAMIC 3300PF B 1005
C84	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C85	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C86	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C87	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C88	1-165-176-91	s CAP,CERAMIC 47000PF B 1608
C89	1-165-176-91	s CAP,CERAMIC 47000PF B 1608
C90	1-164-940-81	s CAP,CHIP CERAMIC 3300PF B 1005
C91	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C92	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C93	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C94	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C95	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C96	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C97	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C98	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C99	1-164-872-81	s CAP, CHIP CERAMIC 82PF CH 1005
C100	1-164-872-81	s CAP, CHIP CERAMIC 82PF CH 1005
C101	1-164-730-91	s CAP,CERAMIC 1200PF B 1608
C102	1-164-730-91	s CAP,CERAMIC 1200PF B 1608
C103	1-117-949-81	s CAP, CHIP CERAMIC 820PF B1005
C104	1-117-949-81	s CAP, CHIP CERAMIC 820PF B1005
C105	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C106	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C107	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C108	1-125-777-81	s CAP, CHIP CERAMTC 0.1MF B 1005
C109	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C110	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C111	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C112	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C113	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C114	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C115	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C200	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C201	1-100-670-91	s CAP, CERAMIC 4.7MF C (2012)
C202	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C203	1-107-819-81	s CAP,CHIP CERAMIC 22000PF B1005
C204	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C205	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C206	1-164-882-81	s CAP,CHIP CERAMIC 220PF CH 1005
C207	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C208	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C209	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005

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Ref. No. or Q'ty	Part No.	SP Description
C921	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C922	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C923	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C924	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C925	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C926	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C927	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C928	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C929	1-112-692-81	s CAP, CHIP CERAMIC 1000PF CH 1005
C930	1-112-692-81	s CAP, CHIP CERAMIC 1000PF CH 1005
C931	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C932	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C933	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C934	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C935	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
CN900	1-764-093-21	o PIN, CONNECTOR (PC BOARD) 8P
CN902	1-784-254-21	s CONNECTOR 10P
D10	8-719-065-59	s DIODE MBR0530T1
D11	8-719-065-59	s DIODE MBR0530T1
D12	8-719-065-59	s DIODE MBR0530T1
D13	8-719-072-43	s DIODE RB050L-40TE25
D14	8-719-072-43	s DIODE RB050L-40TE25
D15	8-719-072-43	s DIODE RB050L-40TE25
D400	8-719-074-31	s DIODE CL-196YG-CD-T
D401	8-719-074-31	s DIODE CL-196YG-CD-T
D402	8-719-074-31	s DIODE CL-196YG-CD-T
D403	8-719-074-31	s DIODE CL-196YG-CD-T
D404	8-719-074-31	s DIODE CL-196YG-CD-T
D405	8-719-074-31	s DIODE CL-196YG-CD-T
D406	8-719-074-31	s DIODE CL-196YG-CD-T
D407	8-719-077-09	s DIODE CL-196HR-CD-T
D900	8-719-074-31	s DIODE CL-196YG-CD-T
D901	8-719-074-31	s DIODE CL-196YG-CD-T
D902	8-719-074-31	s DIODE CL-196YG-CD-T
D903	8-719-074-31	s DIODE CL-196YG-CD-T
D904	8-719-074-31	s DIODE CL-196YG-CD-T
D905	8-719-074-31	s DIODE CL-196YG-CD-T
D906	8-719-074-31	s DIODE CL-196YG-CD-T
D907	8-719-077-09	s DIODE CL-196HR-CD-T
D908	8-719-074-31	s DIODE CL-196YG-CD-T
DD10	1-479-567-11	s CONVERTER, DC-DC (UNIT)
E10	1-535-877-22	s CHIP, CHECKER
E15	1-535-877-22	s CHIP, CHECKER
E17	1-535-877-22	s CHIP, CHECKER
E18	1-535-877-22	s CHIP, CHECKER
E19	1-535-877-22	s CHIP, CHECKER
F10	△ 1-533-627-21	s FUSE (SMD) (5A/125V)
F400	△ 1-533-627-21	s FUSE (SMD) (5A/125V)
FB10	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB11	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB200	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB201	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB202	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB900	1-469-094-21	s FERRITE, EMI (SMD) (1608)

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Ref. No. or Q'ty	Part No.	SP Description
FB901	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB902	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB903	1-469-094-21	s FERRITE, EMI (SMD) (1608)
IC10	6-702-510-01	s IC TPS5120DBTRG4
IC11	6-702-510-01	s IC TPS5120DBTRG4
IC12	6-703-722-01	s IC TPS54372PWPR
IC13	6-703-722-01	s IC TPS54372PWPR
IC14	6-702-217-01	s IC MAX1792EUA33+TG069
IC15	6-702-217-01	s IC MAX1792EUA33+TG069
IC16	6-702-217-01	s IC MAX1792EUA33+TG069
IC17	6-702-217-01	s IC MAX1792EUA33+TG069
IC200	6-702-879-01	s IC R3112N281A-TR-FA
IC201	8-759-330-14	s IC TL7700CPS-E20
IC202	8-759-679-54	s IC SN74LVC14APWR
IC203	6-704-643-01	s IC R3112N221A-TR-FA
IC204	8-759-694-36	s IC SN74CBTLV3257PWR
IC205	6-710-614-01	s IC ICS9DB104BGLFT
IC206	8-759-592-47	s IC TC7SZ08FU(TE85R)
IC207	8-759-592-47	s IC TC7SZ08FU(TE85R)
IC401	6-706-224-01	s IC ADM1032ARMZ-REEL7
IC900	6-808-073-01	s IC S29JL064H70TFI000-MEM122V01
IC901	6-808-074-01	s IC EPCS4S18N(15)-MEM122V01
IC903	8-759-694-36	s IC SN74CBTLV3257PWR
IC904	8-759-592-42	s IC TC7SZ00FU(TE85R)
IC905	6-703-875-01	s IC CDCVF2505PWR
IC906	6-703-875-01	s IC CDCVF2505PWR
L10	1-419-939-21	s COIL, CHOKE 4.7UH
L11	1-419-939-21	s COIL, CHOKE 4.7UH
L12	1-419-939-21	s COIL, CHOKE 4.7UH
L13	1-419-939-21	s COIL, CHOKE 4.7UH
L14	1-456-622-21	s COIL, CHOKE 1UH
L15	1-456-622-21	s COIL, CHOKE 1UH
L900	1-412-947-21	s INDUCTOR 4.7UH (2520)
Q10	6-551-736-01	s TRANSISTOR FDS6690AS
Q11	6-551-736-01	s TRANSISTOR FDS6690AS
Q12	6-551-736-01	s TRANSISTOR FDS6690AS
Q13	6-551-736-01	s TRANSISTOR FDS6690AS
Q14	6-551-736-01	s TRANSISTOR FDS6690AS
Q15	6-551-736-01	s TRANSISTOR FDS6690AS
Q200	8-729-928-91	s TRANSISTOR DTC114EE-TL
Q201	8-729-928-91	s TRANSISTOR DTC114EE-TL
R11	1-218-990-81	s CONDUCTOR, CHIP (1005)
R13	1-218-990-81	s CONDUCTOR, CHIP (1005)
R14	1-218-990-81	s CONDUCTOR, CHIP (1005)
R15	1-208-935-81	s RES, CHIP 100K (1005)
R16	1-208-935-81	s RES, CHIP 100K (1005)
R17	1-208-935-81	s RES, CHIP 100K (1005)
R18	1-208-935-81	s RES, CHIP 100K (1005)
R19	1-208-895-81	s RES, CHIP 2.2K (1005)
R20	1-208-911-81	s RES, CHIP 10K (1005)
R21	1-208-919-81	s RES, CHIP 22K (1005)
R22	1-208-903-81	s RES, CHIP 4.7K (1005)
R23	1-208-889-81	s RES, CHIP 1.2K (1005)
R24	1-208-889-81	s RES, CHIP 1.2K (1005)
R25	1-208-889-81	s RES, CHIP 1.2K (1005)
R26	1-208-911-81	s RES, CHIP 10K (1005)
R27	1-208-863-81	s RES, CHIP 100 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R28	1-208-935-81	s RES, CHIP 100K (1005)
R29	1-208-863-81	s RES, CHIP 100 (1005)
R30	1-208-911-81	s RES, CHIP 10K (1005)
R31	1-208-907-81	s RES, CHIP 6.8K (1005)
R32	1-208-863-81	s RES, CHIP 100 (1005)
R33	1-218-990-81	s CONDUCTOR, CHIP (1005)
R34	1-208-911-81	s RES, CHIP 10K (1005)
R35	1-208-883-81	s RES, CHIP 680 (1005)
R36	1-208-907-81	s RES, CHIP 6.8K (1005)
R37	1-208-935-81	s RES, CHIP 100K (1005)
R39	1-218-990-81	s CONDUCTOR, CHIP (1005)
R40	1-218-990-81	s CONDUCTOR, CHIP (1005)
R41	1-208-911-81	s RES, CHIP 10K (1005)
R42	1-208-911-81	s RES, CHIP 10K (1005)
R43	1-208-911-81	s RES, CHIP 10K (1005)
R44	1-208-907-81	s RES, CHIP 6.8K (1005)
R45	1-208-887-81	s RES, CHIP 1.0K (1005)
R46	1-208-887-81	s RES, CHIP 1.0K (1005)
R47	1-244-161-81	s RES, CHIP 2.2 (1005)
R48	1-244-161-81	s RES, CHIP 2.2 (1005)
R49	1-244-161-81	s RES, CHIP 2.2 (1005)
R50	1-208-911-81	s RES, CHIP 10K (1005)
R51	1-208-911-81	s RES, CHIP 10K (1005)
R52	1-208-911-81	s RES, CHIP 10K (1005)
R53	1-208-911-81	s RES, CHIP 10K (1005)
R54	1-208-935-81	s RES, CHIP 100K (1005)
R55	1-208-935-81	s RES, CHIP 100K (1005)
R56	1-218-990-81	s CONDUCTOR, CHIP (1005)
R57	1-218-990-81	s CONDUCTOR, CHIP (1005)
R62	1-244-161-81	s RES, CHIP 2.2 (1005)
R63	1-218-990-81	s CONDUCTOR, CHIP (1005)
R64	1-218-990-81	s CONDUCTOR, CHIP (1005)
R65	1-244-161-81	s RES, CHIP 2.2 (1005)
R66	1-208-927-81	s RES, CHIP 47K (1005)
R67	1-208-927-81	s RES, CHIP 47K (1005)
R68	1-208-927-81	s RES, CHIP 47K (1005)
R69	1-208-927-81	s RES, CHIP 47K (1005)
R70	1-208-919-81	s RES, CHIP 22K (1005)
R71	1-208-911-81	s RES, CHIP 10K (1005)
R72	1-208-935-81	s RES, CHIP 100K (1005)
R73	1-208-935-81	s RES, CHIP 100K (1005)
R74	1-208-935-81	s RES, CHIP 100K (1005)
R75	1-208-887-81	s RES, CHIP 1.0K (1005)
R76	1-208-863-81	s RES, CHIP 100 (1005)
R77	1-208-863-81	s RES, CHIP 100 (1005)
R78	1-208-924-81	s RES, CHIP 36K (1005)
R79	1-208-924-81	s RES, CHIP 36K (1005)
R80	1-208-883-81	s RES, CHIP 680 (1005)
R81	1-208-911-81	s RES, CHIP 10K (1005)
R82	1-208-883-81	s RES, CHIP 680 (1005)
R83	1-208-911-81	s RES, CHIP 10K (1005)
R84	1-218-990-81	s CONDUCTOR, CHIP (1005)
R85	1-218-990-81	s CONDUCTOR, CHIP (1005)
R86	1-218-990-81	s CONDUCTOR, CHIP (1005)
R87	1-208-927-81	s RES, CHIP 47K (1005)
R88	1-208-919-81	s RES, CHIP 22K (1005)
R89	1-208-935-81	s RES, CHIP 100K (1005)
R90	1-208-863-81	s RES, CHIP 100 (1005)
R91	1-218-990-81	s CONDUCTOR, CHIP (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R92	1-218-990-81	s CONDUCTOR, CHIP (1005)
R200	1-208-935-81	s RES, CHIP 100K (1005)
R201	1-208-903-81	s RES, CHIP 4.7K (1005)
R202	1-208-879-81	s RES, CHIP 470 (1005)
R205	1-208-887-81	s RES, CHIP 1.0K (1005)
R206	1-218-990-81	s CONDUCTOR, CHIP (1005)
R207	1-218-990-81	s CONDUCTOR, CHIP (1005)
R208	1-208-935-81	s RES, CHIP 100K (1005)
R209	1-208-903-81	s RES, CHIP 4.7K (1005)
R210	1-208-911-81	s RES, CHIP 10K (1005)
R212	1-208-903-81	s RES, CHIP 4.7K (1005)
R213	1-208-903-81	s RES, CHIP 4.7K (1005)
R214	1-208-911-81	s RES, CHIP 10K (1005)
R217	1-220-882-81	s RES, CHIP 33 (1005)
R218	1-220-882-81	s RES, CHIP 33 (1005)
R219	1-220-882-81	s RES, CHIP 33 (1005)
R220	1-220-882-81	s RES, CHIP 33 (1005)
R221	1-218-990-81	s CONDUCTOR, CHIP (1005)
R222	1-208-935-81	s RES, CHIP 100K (1005)
R223	1-208-903-81	s RES, CHIP 4.7K (1005)
R224	1-208-887-81	s RES, CHIP 1.0K (1005)
R225	1-208-903-81	s RES, CHIP 4.7K (1005)
R226	1-208-911-81	s RES, CHIP 10K (1005)
R227	1-208-911-81	s RES, CHIP 10K (1005)
R230	1-220-882-81	s RES, CHIP 33 (1005)
R231	1-220-882-81	s RES, CHIP 33 (1005)
R233	1-208-911-81	s RES, CHIP 10K (1005)
R235	1-208-911-81	s RES, CHIP 10K (1005)
R237	1-208-911-81	s RES, CHIP 10K (1005)
R239	1-208-879-81	s RES, CHIP 470 (1005)
R244	1-208-855-81	s RES, CHIP 47 (1005)
R245	1-208-855-81	s RES, CHIP 47 (1005)
R246	1-220-878-81	s RES, CHIP 22 (1005)
R247	1-208-855-81	s RES, CHIP 47 (1005)
R248	1-208-855-81	s RES, CHIP 47 (1005)
R249	1-208-855-81	s RES, CHIP 47 (1005)
R250	1-208-855-81	s RES, CHIP 47 (1005)
R251	1-208-855-81	s RES, CHIP 47 (1005)
R252	1-208-855-81	s RES, CHIP 47 (1005)
R253	1-208-855-81	s RES, CHIP 47 (1005)
R254	1-208-855-81	s RES, CHIP 47 (1005)
R255	1-208-855-81	s RES, CHIP 47 (1005)
R256	1-208-855-81	s RES, CHIP 47 (1005)
R257	1-208-855-81	s RES, CHIP 47 (1005)
R258	1-208-855-81	s RES, CHIP 47 (1005)
R259	1-208-855-81	s RES, CHIP 47 (1005)
R260	1-208-855-81	s RES, CHIP 47 (1005)
R261	1-208-855-81	s RES, CHIP 47 (1005)
R262	1-208-855-81	s RES, CHIP 47 (1005)
R263	1-208-855-81	s RES, CHIP 47 (1005)
R264	1-208-855-81	s RES, CHIP 47 (1005)
R265	1-208-855-81	s RES, CHIP 47 (1005)
R266	1-208-855-81	s RES, CHIP 47 (1005)
R267	1-208-855-81	s RES, CHIP 47 (1005)
R268	1-208-855-81	s RES, CHIP 47 (1005)
R269	1-208-855-81	s RES, CHIP 47 (1005)
R270	1-208-855-81	s RES, CHIP 47 (1005)
R271	1-208-855-81	s RES, CHIP 47 (1005)
R272	1-208-855-81	s RES, CHIP 47 (1005)

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Ref. No. or Q'ty	Part No.	SP Description		Ref. No. or Q'ty	Part No.	SP Description
R956	1-208-911-81	s RES, CHIP 10K (1005)	2pcs	7-682-948-01	s SCREW +PSW 3X8	
R957	1-208-911-81	s RES, CHIP 10K (1005)		C10	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
R958	1-220-878-81	s RES, CHIP 22 (1005)		C11	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
R959	1-220-878-81	s RES, CHIP 22 (1005)		C12	1-100-165-21	s CAP, ELECT 47MF (8X7)
R960	1-220-882-81	s RES, CHIP 33 (1005)		C13	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
R961	1-220-882-81	s RES, CHIP 33 (1005)		C14	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
R962	1-220-882-81	s RES, CHIP 33 (1005)		C15	1-100-165-21	s CAP, ELECT 47MF (8X7)
R964	1-220-882-81	s RES, CHIP 33 (1005)		C16	1-100-581-81	s CAP, CHIP CERAMIC 0.0047MF B1005
R965	1-220-882-81	s RES, CHIP 33 (1005)		C17	1-100-581-81	s CAP, CHIP CERAMIC 0.0047MF B1005
R966	1-208-903-81	s RES, CHIP 4.7K (1005)		C18	1-107-819-81	s CAP, CHIP CERAMIC 22000PF B1005
R967	1-208-903-81	s RES, CHIP 4.7K (1005)		C19	1-107-819-81	s CAP, CHIP CERAMIC 22000PF B1005
R970	1-220-878-81	s RES, CHIP 22 (1005)		C20	1-100-581-81	s CAP, CHIP CERAMIC 0.0047MF B1005
R971	1-220-878-81	s RES, CHIP 22 (1005)		C21	1-107-819-81	s CAP, CHIP CERAMIC 22000PF B1005
R972	1-220-878-81	s RES, CHIP 22 (1005)		C22	1-164-882-81	s CAP, CHIP CERAMIC 220PF CH 1005
R973	1-220-878-81	s RES, CHIP 22 (1005)		C23	1-164-882-81	s CAP, CHIP CERAMIC 220PF CH 1005
R974	1-218-990-81	s CONDUCTOR, CHIP (1005)		C24	1-164-882-81	s CAP, CHIP CERAMIC 220PF CH 1005
R975	1-218-990-81	s CONDUCTOR, CHIP (1005)		C25	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
RB400	1-234-378-21	s RES, NETWORK 10K (1005X4)		C26	1-164-866-81	s CAP, CHIP CERAMIC 47PF CH 1005
RB401	1-234-378-21	s RES, NETWORK 10K (1005X4)		C27	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
RB402	1-234-374-21	s RES, NETWORK 470 (1005X4)		C28	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
RB403	1-234-374-21	s RES, NETWORK 470 (1005X4)		C29	1-164-939-81	s CAP, CHIP CERAMIC 22000PF B 1005
RB900	1-234-378-21	s RES, NETWORK 10K (1005X4)		C30	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
RB901	1-234-378-21	s RES, NETWORK 10K (1005X4)		C31	1-164-866-81	s CAP, CHIP CERAMIC 47PF CH 1005
RB902	1-234-374-21	s RES, NETWORK 470 (1005X4)		C32	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
RB903	1-234-374-21	s RES, NETWORK 470 (1005X4)		C33	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
RB905	1-234-378-21	s RES, NETWORK 10K (1005X4)		C34	1-162-969-91	s CAP, CERAMIC 6800PF B 1608
S200	1-771-721-21	s SWITCH, TACTILE		C35	1-162-969-91	s CAP, CERAMIC 6800PF B 1608
S900	1-692-271-41	s SWITCH, SLIDE		C36	1-162-969-91	s CAP, CERAMIC 6800PF B 1608
X900	1-813-824-11	s OSCILLATOR, CRYSTAL		C37	1-100-165-21	s CAP, ELECT 47MF (8X7)
X901	1-795-983-11	s OSCILLATOR, CRYSTAL		C38	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
				C39	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
				C40	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
				C41	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
				C42	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
				C43	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
				C44	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
				C45	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
				C46	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
				C47	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
				C48	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
				C49	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
				C50	1-165-989-91	s CAP, CERAMIC 10MF (2012)
				C51	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
				C52	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
				C53	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
				C54	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
				C55	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
				C56	1-165-989-91	s CAP, CERAMIC 10MF (2012)
				C57	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
				C58	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
				C59	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
				C60	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
				C61	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
				C62	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
				C63	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
				C64	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
				C65	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
				C66	1-100-880-91	s CAP, CERAMIC 100MF C (3225)

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C67	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C68	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C69	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C70	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C71	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C72	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C73	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C74	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C75	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C76	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C77	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C78	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C79	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C80	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C81	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C82	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C83	1-164-940-81	s CAP,CHIP CERAMIC 3300PF B 1005
C84	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C85	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C86	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C87	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C88	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C89	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C90	1-164-940-81	s CAP,CHIP CERAMIC 3300PF B 1005
C91	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C92	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C93	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C94	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C95	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C96	1-100-880-91	s CAP, CERAMIC 100MF C (3225)
C97	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C98	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C99	1-164-872-81	s CAP, CHIP CERAMIC 82PF CH 1005
C100	1-164-872-81	s CAP, CHIP CERAMIC 82PF CH 1005
C101	1-164-730-91	s CAP, CERAMIC 1200PF B 1608
C102	1-164-730-91	s CAP, CERAMIC 1200PF B 1608
C103	1-117-949-81	s CAP, CHIP CERAMIC 820PF B1005
C104	1-117-949-81	s CAP, CHIP CERAMIC 820PF B1005
C105	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C106	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C107	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C108	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C109	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C110	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C111	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C112	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C113	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C114	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C115	1-100-055-21	s CAP, CHIP CERAMIC 22MF B 3225
C116	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C117	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C118	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C119	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C200	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C201	1-100-670-91	s CAP, CERAMIC 4.7MF C (2012)
C202	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C203	1-107-819-81	s CAP,CHIP CERAMIC 22000PF B1005
C204	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
C205	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP Description
C206	1-164-882-81	s CAP,CHIP CERAMIC 220PF CH 1005
C207	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C208	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C209	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C210	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C211	1-164-940-81	s CAP,CHIP CERAMIC 3300PF B 1005
C212	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C213	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C214	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C215	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C216	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C217	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C218	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C219	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C220	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C221	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C222	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C223	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C224	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C225	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C226	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C227	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C228	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C229	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C230	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C231	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C232	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C233	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C234	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C235	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C236	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C237	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C238	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C239	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C240	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C241	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C242	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C243	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C244	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C245	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C246	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C247	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C248	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C249	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C250	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C251	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C252	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C253	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C254	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C255	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C256	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C257	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C258	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C259	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C260	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C261	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C262	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C263	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C264	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005

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Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
C927	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	IC11	6-702-510-01	s IC TPS5120DBTRG4
C928	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	IC12	6-703-722-01	s IC TPS54372PWPR
C929	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005	IC13	6-703-722-01	s IC TPS54372PWPR
C930	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005	IC14	6-702-217-01	s IC MAX1792EUA33+TG069
C931	1-165-989-91	s CAP, CERAMIC 10MF (2012)	IC15	6-702-217-01	s IC MAX1792EUA33+TG069
C932	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	IC16	6-702-217-01	s IC MAX1792EUA33+TG069
C933	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	IC17	6-702-217-01	s IC MAX1792EUA33+TG069
C934	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	IC200	6-702-879-01	s IC R3112N281A-TR-FA
C935	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	IC201	8-759-330-14	s IC TL7700CPS-E20
C936	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	IC202	8-759-679-54	s IC SN74LVC14APWR
C937	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005	IC203	6-704-643-01	s IC R3112N221A-TR-FA
CN900	1-764-093-21	o PIN, CONNECTOR (PC BOARD) 8P	IC204	8-759-694-36	s IC SN74CBTLV3257PWR
CN902	1-784-254-21	s CONNECTOR 10P	IC205	6-710-614-01	s IC ICS9DB104BGLFT
			IC206	8-759-592-47	s IC TC7SZ08FU(TE85R)
			IC207	8-759-592-47	s IC TC7SZ08FU(TE85R)
D10	8-719-065-59	s DIODE MBR0530T1	IC401	6-706-224-01	s IC ADM1032ARMZ-R7
D11	8-719-065-59	s DIODE MBR0530T1	IC900	6-808-794-01	s IC 29LV640-MEM126V01
D12	8-719-065-59	s DIODE MBR0530T1	IC901	6-808-074-01	s IC EPCS4S18N(15)-MEM122V01
D13	8-719-072-43	s DIODE RB050L-40TE25	IC903	8-759-694-36	s IC SN74CBTLV3257PWR
D14	8-719-072-43	s DIODE RB050L-40TE25	IC904	8-759-592-42	s IC TC7SZ00FU(TE85R)
D15	8-719-072-43	s DIODE RB050L-40TE25	IC905	6-703-875-01	s IC CDCVF2505PWR
D400	6-502-197-01	s DI SML-D12M8WT86SM	IC906	6-703-875-01	s IC CDCVF2505PWR
D401	6-502-197-01	s DI SML-D12M8WT86SM	L10	1-419-939-21	s COIL, CHOKE 4.7UH
D402	6-502-197-01	s DI SML-D12M8WT86SM	L11	1-419-939-21	s COIL, CHOKE 4.7UH
D403	6-502-197-01	s DI SML-D12M8WT86SM	L12	1-419-939-21	s COIL, CHOKE 4.7UH
D404	6-502-197-01	s DI SML-D12M8WT86SM	L13	1-419-939-21	s COIL, CHOKE 4.7UH
D405	6-502-197-01	s DI SML-D12M8WT86SM	L14	1-456-622-21	s COIL, CHOKE 1UH
D406	6-502-197-01	s DI SML-D12M8WT86SM	L15	1-456-622-21	s COIL, CHOKE 1UH
D407	6-502-598-01	s DI SML-D12U8WT86	L900	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
D900	6-502-197-01	s DI SML-D12M8WT86SM	Q10	6-551-736-01	s TRANSISTOR FDS6690AS
D901	6-502-197-01	s DI SML-D12M8WT86SM	Q11	6-551-736-01	s TRANSISTOR FDS6690AS
D902	6-502-197-01	s DI SML-D12M8WT86SM	Q12	6-551-736-01	s TRANSISTOR FDS6690AS
D903	6-502-197-01	s DI SML-D12M8WT86SM	Q13	6-551-736-01	s TRANSISTOR FDS6690AS
D904	6-502-197-01	s DI SML-D12M8WT86SM	Q14	6-551-736-01	s TRANSISTOR FDS6690AS
D905	6-502-197-01	s DI SML-D12M8WT86SM	Q15	6-551-736-01	s TRANSISTOR FDS6690AS
D906	6-502-197-01	s DI SML-D12M8WT86SM	Q200	8-729-928-91	s TRANSISTOR DTC114EE-TL
D907	6-502-598-01	s DI SML-D12U8WT86	Q201	8-729-928-91	s TRANSISTOR DTC114EE-TL
D908	6-502-197-01	s DI SML-D12M8WT86SM	DD10	1-487-092-11	s DC-DC CONVERTER
E10	1-535-877-22	s CHIP, CHECKER	R11	1-218-990-81	s CONDUCTOR, CHIP (1005)
E15	1-535-877-22	s CHIP, CHECKER	R12	1-218-990-81	s CONDUCTOR, CHIP (1005)
E17	1-535-877-22	s CHIP, CHECKER	R14	1-218-990-81	s CONDUCTOR, CHIP (1005)
E18	1-535-877-22	s CHIP, CHECKER	R15	1-208-924-81	s RES, CHIP 36K (1005)
E19	1-535-877-22	s CHIP, CHECKER	R16	1-208-911-81	s RES, CHIP 10K (1005)
F10	△ 1-533-627-21	s FUSE (SMD) (5A/125V)	R17	1-208-924-81	s RES, CHIP 36K (1005)
			R18	1-208-911-81	s RES, CHIP 10K (1005)
			R19	1-208-907-81	s RES, CHIP 6.8K (1005)
FB10	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R20	1-208-903-81	s RES, CHIP 4.7K (1005)
FB11	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R21	1-208-927-81	s RES, CHIP 47K (1005)
FB12	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R22	1-208-911-81	s RES, CHIP 10K (1005)
FB13	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R23	1-208-889-81	s RES, CHIP 1.2K (1005)
FB200	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R24	1-208-889-81	s RES, CHIP 1.2K (1005)
FB201	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R25	1-208-889-81	s RES, CHIP 1.2K (1005)
FB202	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R26	1-208-907-81	s RES, CHIP 6.8K (1005)
FB900	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R27	1-208-863-81	s RES, CHIP 100 (1005)
FB901	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R28	1-208-935-81	s RES, CHIP 100K (1005)
FB902	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R29	1-208-863-81	s RES, CHIP 100 (1005)
FB903	1-469-094-21	s FERRITE, EMI (SMD) (1608)	R30	1-208-911-81	s RES, CHIP 10K (1005)
IC10	6-702-510-01	s IC TPS5120DBTRG4	R31	1-208-911-81	s RES, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
R32	1-208-863-81	s RES, CHIP 100 (1005)	R205	1-208-887-81	s RES, CHIP 1.0K (1005)
R33	1-218-990-81	s CONDUCTOR, CHIP (1005)	R206	1-218-990-81	s CONDUCTOR, CHIP (1005)
R34	1-208-907-81	s RES, CHIP 6.8K (1005)	R207	1-218-990-81	s CONDUCTOR, CHIP (1005)
R35	1-208-883-81	s RES, CHIP 680 (1005)	R208	1-208-935-81	s RES, CHIP 100K (1005)
R36	1-208-911-81	s RES, CHIP 10K (1005)	R209	1-208-903-81	s RES, CHIP 4.7K (1005)
R37	1-208-935-81	s RES, CHIP 100K (1005)	R210	1-208-911-81	s RES, CHIP 10K (1005)
R39	1-218-990-81	s CONDUCTOR, CHIP (1005)	R212	1-208-903-81	s RES, CHIP 4.7K (1005)
R40	1-218-990-81	s CONDUCTOR, CHIP (1005)	R213	1-208-903-81	s RES, CHIP 4.7K (1005)
R41	1-208-911-81	s RES, CHIP 10K (1005)	R214	1-208-911-81	s RES, CHIP 10K (1005)
R42	1-208-911-81	s RES, CHIP 10K (1005)	R217	1-220-882-81	s RES, CHIP 33 (1005)
R43	1-208-911-81	s RES, CHIP 10K (1005)	R218	1-220-882-81	s RES, CHIP 33 (1005)
R44	1-208-907-81	s RES, CHIP 6.8K (1005)	R219	1-220-882-81	s RES, CHIP 33 (1005)
R45	1-208-887-81	s RES, CHIP 1.0K (1005)	R220	1-220-882-81	s RES, CHIP 33 (1005)
R46	1-208-887-81	s RES, CHIP 1.0K (1005)	R221	1-218-990-81	s CONDUCTOR, CHIP (1005)
R47	1-244-161-81	s RES, CHIP 2.2 (1005)	R222	1-208-935-81	s RES, CHIP 100K (1005)
R48	1-244-161-81	s RES, CHIP 2.2 (1005)	R223	1-208-903-81	s RES, CHIP 4.7K (1005)
R49	1-244-161-81	s RES, CHIP 2.2 (1005)	R224	1-208-887-81	s RES, CHIP 1.0K (1005)
R50	1-208-911-81	s RES, CHIP 10K (1005)	R225	1-208-903-81	s RES, CHIP 4.7K (1005)
R51	1-208-911-81	s RES, CHIP 10K (1005)	R226	1-208-911-81	s RES, CHIP 10K (1005)
R52	1-208-911-81	s RES, CHIP 10K (1005)	R227	1-208-911-81	s RES, CHIP 10K (1005)
R53	1-208-911-81	s RES, CHIP 10K (1005)	R230	1-220-882-81	s RES, CHIP 33 (1005)
R54	1-208-935-81	s RES, CHIP 100K (1005)	R231	1-220-882-81	s RES, CHIP 33 (1005)
R55	1-208-935-81	s RES, CHIP 100K (1005)	R233	1-208-911-81	s RES, CHIP 10K (1005)
R56	1-218-990-81	s CONDUCTOR, CHIP (1005)	R235	1-208-911-81	s RES, CHIP 10K (1005)
R57	1-218-990-81	s CONDUCTOR, CHIP (1005)	R237	1-208-911-81	s RES, CHIP 10K (1005)
R61	1-218-990-81	s CONDUCTOR, CHIP (1005)	R239	1-208-879-81	s RES, CHIP 470 (1005)
R62	1-244-161-81	s RES, CHIP 2.2 (1005)	R242	1-220-878-81	s RES, CHIP 22 (1005)
R65	1-244-161-81	s RES, CHIP 2.2 (1005)	R244	1-208-855-81	s RES, CHIP 47 (1005)
R66	1-208-927-81	s RES, CHIP 47K (1005)	R245	1-208-855-81	s RES, CHIP 47 (1005)
R67	1-208-924-81	s RES, CHIP 36K (1005)	R246	1-220-878-81	s RES, CHIP 22 (1005)
R68	1-208-927-81	s RES, CHIP 47K (1005)	R247	1-208-855-81	s RES, CHIP 47 (1005)
R69	1-208-927-81	s RES, CHIP 47K (1005)	R248	1-208-855-81	s RES, CHIP 47 (1005)
R70	1-208-911-81	s RES, CHIP 10K (1005)	R249	1-208-855-81	s RES, CHIP 47 (1005)
R71	1-208-911-81	s RES, CHIP 10K (1005)	R250	1-208-855-81	s RES, CHIP 47 (1005)
R72	1-208-935-81	s RES, CHIP 100K (1005)	R251	1-208-855-81	s RES, CHIP 47 (1005)
R73	1-208-935-81	s RES, CHIP 100K (1005)	R252	1-208-855-81	s RES, CHIP 47 (1005)
R74	1-208-935-81	s RES, CHIP 100K (1005)	R253	1-208-855-81	s RES, CHIP 47 (1005)
R75	1-208-887-81	s RES, CHIP 1.0K (1005)	R254	1-208-855-81	s RES, CHIP 47 (1005)
R76	1-208-907-81	s RES, CHIP 6.8K (1005)	R255	1-208-855-81	s RES, CHIP 47 (1005)
R77	1-208-863-81	s RES, CHIP 100 (1005)	R256	1-208-855-81	s RES, CHIP 47 (1005)
R78	1-208-924-81	s RES, CHIP 36K (1005)	R257	1-208-855-81	s RES, CHIP 47 (1005)
R79	1-208-924-81	s RES, CHIP 36K (1005)	R258	1-208-855-81	s RES, CHIP 47 (1005)
R80	1-208-883-81	s RES, CHIP 680 (1005)	R259	1-208-855-81	s RES, CHIP 47 (1005)
R81	1-208-911-81	s RES, CHIP 10K (1005)	R260	1-208-855-81	s RES, CHIP 47 (1005)
R82	1-208-883-81	s RES, CHIP 680 (1005)	R261	1-208-855-81	s RES, CHIP 47 (1005)
R83	1-208-911-81	s RES, CHIP 10K (1005)	R262	1-208-855-81	s RES, CHIP 47 (1005)
R84	1-218-990-81	s CONDUCTOR, CHIP (1005)	R263	1-208-855-81	s RES, CHIP 47 (1005)
R85	1-218-990-81	s CONDUCTOR, CHIP (1005)	R264	1-208-855-81	s RES, CHIP 47 (1005)
R86	1-218-990-81	s CONDUCTOR, CHIP (1005)	R265	1-208-855-81	s RES, CHIP 47 (1005)
R87	1-208-924-81	s RES, CHIP 36K (1005)	R266	1-208-855-81	s RES, CHIP 47 (1005)
R88	1-208-911-81	s RES, CHIP 10K (1005)	R267	1-208-855-81	s RES, CHIP 47 (1005)
R89	1-208-935-81	s RES, CHIP 100K (1005)	R268	1-208-855-81	s RES, CHIP 47 (1005)
R90	1-208-907-81	s RES, CHIP 6.8K (1005)	R269	1-208-855-81	s RES, CHIP 47 (1005)
R91	1-218-990-81	s CONDUCTOR, CHIP (1005)	R270	1-208-855-81	s RES, CHIP 47 (1005)
R92	1-218-990-81	s CONDUCTOR, CHIP (1005)	R271	1-208-855-81	s RES, CHIP 47 (1005)
R94	1-218-990-81	s CONDUCTOR, CHIP (1005)	R272	1-208-855-81	s RES, CHIP 47 (1005)
R200	1-208-935-81	s RES, CHIP 100K (1005)	R273	1-208-855-81	s RES, CHIP 47 (1005)
R201	1-208-903-81	s RES, CHIP 4.7K (1005)	R274	1-208-855-81	s RES, CHIP 47 (1005)
R202	1-208-879-81	s RES, CHIP 470 (1005)	R275	1-208-855-81	s RES, CHIP 47 (1005)

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R635	1-220-878-81	s RES, CHIP 22 (1005)
R636	1-220-878-81	s RES, CHIP 22 (1005)
R637	1-220-878-81	s RES, CHIP 22 (1005)
R800	1-208-887-81	s RES, CHIP 1.0K (1005)
R801	1-208-887-81	s RES, CHIP 1.0K (1005)
R802	1-208-887-81	s RES, CHIP 1.0K (1005)
R803	1-208-887-81	s RES, CHIP 1.0K (1005)
R804	1-208-887-81	s RES, CHIP 1.0K (1005)
R805	1-208-887-81	s RES, CHIP 1.0K (1005)
R806	1-208-855-81	s RES, CHIP 47 (1005)
R807	1-208-855-81	s RES, CHIP 47 (1005)
R808	1-208-855-81	s RES, CHIP 47 (1005)
R809	1-208-855-81	s RES, CHIP 47 (1005)
R810	1-208-855-81	s RES, CHIP 47 (1005)
R811	1-208-855-81	s RES, CHIP 47 (1005)
R812	1-208-855-81	s RES, CHIP 47 (1005)
R813	1-208-855-81	s RES, CHIP 47 (1005)
R814	1-208-855-81	s RES, CHIP 47 (1005)
R815	1-208-855-81	s RES, CHIP 47 (1005)
R816	1-208-855-81	s RES, CHIP 47 (1005)
R817	1-208-855-81	s RES, CHIP 47 (1005)
R818	1-208-855-81	s RES, CHIP 47 (1005)
R819	1-208-855-81	s RES, CHIP 47 (1005)
R820	1-208-855-81	s RES, CHIP 47 (1005)
R821	1-208-855-81	s RES, CHIP 47 (1005)
R822	1-208-855-81	s RES, CHIP 47 (1005)
R823	1-208-855-81	s RES, CHIP 47 (1005)
R824	1-208-855-81	s RES, CHIP 47 (1005)
R825	1-208-855-81	s RES, CHIP 47 (1005)
R826	1-208-855-81	s RES, CHIP 47 (1005)
R827	1-208-855-81	s RES, CHIP 47 (1005)
R828	1-208-855-81	s RES, CHIP 47 (1005)
R829	1-208-855-81	s RES, CHIP 47 (1005)
R830	1-208-855-81	s RES, CHIP 47 (1005)
R831	1-208-855-81	s RES, CHIP 47 (1005)
R832	1-208-855-81	s RES, CHIP 47 (1005)
R833	1-208-855-81	s RES, CHIP 47 (1005)
R834	1-208-855-81	s RES, CHIP 47 (1005)
R835	1-208-855-81	s RES, CHIP 47 (1005)
R836	1-208-855-81	s RES, CHIP 47 (1005)
R837	1-208-855-81	s RES, CHIP 47 (1005)
R838	1-208-903-81	s RES, CHIP 4.7K (1005)
R839	1-208-903-81	s RES, CHIP 4.7K (1005)
R901	1-218-990-81	s CONDUCTOR, CHIP (1005)
R902	1-218-990-81	s CONDUCTOR, CHIP (1005)
R904	1-218-990-81	s CONDUCTOR, CHIP (1005)
R905	1-220-878-81	s RES, CHIP 22 (1005)
R906	1-208-911-81	s RES, CHIP 10K (1005)
R908	1-208-911-81	s RES, CHIP 10K (1005)
R910	1-208-911-81	s RES, CHIP 10K (1005)
R911	1-208-887-81	s RES, CHIP 1.0K (1005)
R912	1-208-911-81	s RES, CHIP 10K (1005)
R913	1-208-887-81	s RES, CHIP 1.0K (1005)
R914	1-218-990-81	s CONDUCTOR, CHIP (1005)
R915	1-208-911-81	s RES, CHIP 10K (1005)
R916	1-218-990-81	s CONDUCTOR, CHIP (1005)
R918	1-218-990-81	s CONDUCTOR, CHIP (1005)
R919	1-218-990-81	s CONDUCTOR, CHIP (1005)
R920	1-208-911-81	s RES, CHIP 10K (1005)

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R921	1-208-911-81	s RES, CHIP 10K (1005)
R922	1-208-887-81	s RES, CHIP 1.0K (1005)
R923	1-208-887-81	s RES, CHIP 1.0K (1005)
R924	1-208-887-81	s RES, CHIP 1.0K (1005)
R925	1-208-887-81	s RES, CHIP 1.0K (1005)
R926	1-208-887-81	s RES, CHIP 1.0K (1005)
R927	1-218-990-81	s CONDUCTOR, CHIP (1005)
R928	1-220-878-81	s RES, CHIP 22 (1005)
R929	1-220-878-81	s RES, CHIP 22 (1005)
R931	1-208-911-81	s RES, CHIP 10K (1005)
R934	1-218-990-81	s CONDUCTOR, CHIP (1005)
R939	1-218-990-81	s CONDUCTOR, CHIP (1005)
R940	1-218-990-81	s CONDUCTOR, CHIP (1005)
R941	1-218-990-81	s CONDUCTOR, CHIP (1005)
R942	1-218-990-81	s CONDUCTOR, CHIP (1005)
R943	1-218-990-81	s CONDUCTOR, CHIP (1005)
R944	1-218-990-81	s CONDUCTOR, CHIP (1005)
R945	1-218-990-81	s CONDUCTOR, CHIP (1005)
R946	1-218-990-81	s CONDUCTOR, CHIP (1005)
R947	1-208-911-81	s RES, CHIP 10K (1005)
R948	1-208-911-81	s RES, CHIP 10K (1005)
R950	1-208-911-81	s RES, CHIP 10K (1005)
R951	1-208-911-81	s RES, CHIP 10K (1005)
R952	1-208-911-81	s RES, CHIP 10K (1005)
R953	1-218-990-81	s CONDUCTOR, CHIP (1005)
R954	1-218-990-81	s CONDUCTOR, CHIP (1005)
R955	1-208-887-81	s RES, CHIP 1.0K (1005)
R956	1-208-911-81	s RES, CHIP 10K (1005)
R957	1-208-911-81	s RES, CHIP 10K (1005)
R958	1-220-878-81	s RES, CHIP 22 (1005)
R959	1-220-878-81	s RES, CHIP 22 (1005)
R961	1-220-882-81	s RES, CHIP 33 (1005)
R962	1-220-882-81	s RES, CHIP 33 (1005)
R964	1-220-882-81	s RES, CHIP 33 (1005)
R965	1-220-882-81	s RES, CHIP 33 (1005)
R966	1-208-903-81	s RES, CHIP 4.7K (1005)
R967	1-208-903-81	s RES, CHIP 4.7K (1005)
R970	1-220-878-81	s RES, CHIP 22 (1005)
R971	1-220-878-81	s RES, CHIP 22 (1005)
R972	1-220-878-81	s RES, CHIP 22 (1005)
R973	1-220-878-81	s RES, CHIP 22 (1005)
R974	1-218-990-81	s CONDUCTOR, CHIP (1005)
R975	1-218-990-81	s CONDUCTOR, CHIP (1005)
RB402	1-234-375-21	s RES, NETWORK 1K (1005X4)
RB403	1-234-375-21	s RES, NETWORK 1K (1005X4)
RB900	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB901	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB902	1-234-375-21	s RES, NETWORK 1K (1005X4)
RB903	1-234-375-21	s RES, NETWORK 1K (1005X4)
RB905	1-234-378-21	s RES, NETWORK 10K (1005X4)
S200	1-771-721-21	s SWITCH, TACTILE
S900	1-692-271-41	s SWITCH, SLIDE
X900	1-813-824-11	s OSCILLATOR, CRYSTAL
X901	1-795-983-11	s OSCILLATOR, CRYSTAL

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C505	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
C506	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C507	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
C508	1-164-864-81	s CAP, CHIP CERAMIC 39PF CH 1005
C509	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C510	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C511	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
C512	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
C513	1-107-819-81	s CAP, CHIP CERAMIC 22000PF B1005
C514	1-164-850-81	s CAP, CHIP CERAMIC 10PF CH 1005
C515	1-164-939-81	s CAP, CHIP CERAMIC 2200PF B 1005
C516	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C517	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C518	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C519	1-135-960-91	s CAP, CHIP CERAMIC 10MF B (3225)
C520	1-100-505-91	s CAP, CERAMIC 0.1MF C (1005)
C521	1-100-505-91	s CAP, CERAMIC 0.1MF C (1005)
C522	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C524	1-131-997-21	s CAP, ELECT 470MF (10X8)
C525	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C526	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C528	1-100-986-21	s CAP, ELECT 330MF
C529	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C530	1-114-238-91	s CAP, CERAMIC 22MF B
C531	1-164-846-81	s CAP, CHIP CERAMIC 6PF CH 1005
C532	1-165-872-21	s CAP, ELECT 47MF (5.0X6.5)
C533	1-114-238-91	s CAP, CERAMIC 22MF B
C534	1-164-846-81	s CAP, CHIP CERAMIC 6PF CH 1005
C535	1-165-872-21	s CAP, ELECT 47MF (5.0X6.5)
C536	1-114-238-91	s CAP, CERAMIC 22MF B
C537	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C538	1-100-505-91	s CAP, CERAMIC 0.1MF C (1005)
C541	1-165-798-21	s CAP, CHIP ELECT 100MF (7343)
C543	1-107-819-81	s CAP, CHIP CERAMIC 22000PF B1005
C544	1-114-238-91	s CAP, CERAMIC 22MF B
C545	1-100-505-91	s CAP, CERAMIC 0.1MF C (1005)
C546	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C547	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C548	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C549	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C550	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C601	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C602	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C603	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C604	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C605	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C606	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C607	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C608	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C609	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C610	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C611	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C612	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C613	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C614	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C615	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C616	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C617	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C618	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005

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C619	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C620	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C621	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C622	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C701	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C707	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
CN105	1-793-962-22	s CONNECTOR, DVI
CN109	1-764-080-21	o PIN, CONNECTOR (PC BOARD) 8P
D101	8-719-060-48	s DIODE RB751V-40TE-17
D102	1-802-245-11	s ESD SUPPRESSOR
D103	1-802-245-11	s ESD SUPPRESSOR
D104	1-802-245-11	s ESD SUPPRESSOR
D105	1-802-245-11	s ESD SUPPRESSOR
D106	1-802-245-11	s ESD SUPPRESSOR
D107	1-802-245-11	s ESD SUPPRESSOR
D108	1-802-245-11	s ESD SUPPRESSOR
D109	1-802-245-11	s ESD SUPPRESSOR
D116	1-802-245-11	s ESD SUPPRESSOR
D117	1-802-245-11	s ESD SUPPRESSOR
D118	1-802-245-11	s ESD SUPPRESSOR
D119	1-802-245-11	s ESD SUPPRESSOR
D501	8-719-938-77	s DIODE SB05-05C-TB-E
D502	8-719-938-77	s DIODE SB05-05C-TB-E
FB104	1-469-324-21	s FERRITE, EMI (SMD) (2012)
FB109	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB110	1-469-324-21	s FERRITE, EMI (SMD) (2012)
FB111	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB112	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FB113	1-469-094-21	s FERRITE, EMI (SMD) (1608)
FL1	1-813-646-21	s FILTER, EMI (SMD)
FL2	1-813-646-21	s FILTER, EMI (SMD)
FL3	1-813-646-21	s FILTER, EMI (SMD)
FL4	1-813-646-21	s FILTER, EMI (SMD)
FL5	1-813-646-21	s FILTER, EMI (SMD)
IC101	6-713-249-01	s IC SII1178CSU
IC210	6-708-758-01	s IC PCA9517DP.118
IC211	8-759-591-99	s IC SN74LV540APWR
IC402	6-700-743-01	s IC ADV7123JSTZ240
IC403	8-759-679-54	s IC SN74LVC14APWR
IC501	6-702-510-01	s IC TPS5120DBTRG4
IC502	6-704-567-01	s IC R3112N451A-TR-FA
IC503	6-704-512-01	s IC TPS62050DGSR
IC504	6-704-512-01	s IC TPS62050DGSR
IC505	6-703-977-01	s IC R1114Q331D-TR-FA
IC507	6-708-324-01	s IC R3112N301A-TR-FA
IC508	6-707-869-01	s IC TC74VHC14FT(EKJ)
IC509	6-703-976-01	s IC R1114Q181D-TR-FA
IC701	6-808-427-01	s IC S29JL064H70TFI000-BKCUVD1
L1	1-813-880-11	o COMMON MODE CHOKE COIL
L2	1-813-880-11	o COMMON MODE CHOKE COIL
L3	1-813-880-11	o COMMON MODE CHOKE COIL
L4	1-813-880-11	o COMMON MODE CHOKE COIL
L5	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L6	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L7	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L401	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L402	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)

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L501	1-416-949-21	s COIL, CHOKE 15UH
L502	1-416-949-21	s COIL, CHOKE 15UH
L503	1-416-344-21	s COIL, CHOKE 10UH
L504	1-416-344-21	s COIL, CHOKE 10UH
L506	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L507	1-414-396-41	s INDUCTOR (SMD) 4.7UH
LED202	8-719-053-08	s DIODE SML-310DTT86
LED207	8-719-053-07	s DIODE SML-310MTT86
PS1	△ 1-533-282-21	s LINK, IC (2A/72V)
PT101	△ 1-804-458-21	s THERMISTOR, POSITIVE
Q101	8-729-905-39	s TRANSISTOR 2SC4081T106S
Q102	8-729-048-50	s TRANSISTOR 2SK3018-T106
Q103	8-729-048-50	s TRANSISTOR 2SK3018-T106
Q501	6-551-736-01	s TRANSISTOR FDS6690AS
Q502	6-551-736-01	s TRANSISTOR FDS6690AS
Q503	6-551-736-01	s TRANSISTOR FDS6690AS
Q504	6-551-736-01	s TRANSISTOR FDS6690AS
R104	1-218-990-81	s CONDUCTOR, CHIP (1005)
R107	1-208-911-81	s RES, CHIP 10K (1005)
R108	1-208-903-81	s RES, CHIP 4.7K (1005)
R114	1-208-877-81	s RES, CHIP 390 (1005)
R116	1-208-891-81	s RES, CHIP 1.5K (1005)
R117	1-208-891-81	s RES, CHIP 1.5K (1005)
R122	1-208-895-81	s RES, CHIP 2.2K (1005)
R123	1-208-895-81	s RES, CHIP 2.2K (1005)
R124	1-208-895-81	s RES, CHIP 2.2K (1005)
R125	1-208-895-81	s RES, CHIP 2.2K (1005)
R126	1-208-911-81	s RES, CHIP 10K (1005)
R127	1-208-911-81	s RES, CHIP 10K (1005)
R128	1-218-990-81	s CONDUCTOR, CHIP (1005)
R132	1-218-834-91	s RES, CHIP 300 (1608)
R133	1-218-834-91	s RES, CHIP 300 (1608)
R134	1-218-834-91	s RES, CHIP 300 (1608)
R135	1-218-834-91	s RES, CHIP 300 (1608)
R136	1-218-990-81	s CONDUCTOR, CHIP (1005)
R193	1-208-911-81	s RES, CHIP 10K (1005)
R201	1-208-895-81	s RES, CHIP 2.2K (1005)
R202	1-208-895-81	s RES, CHIP 2.2K (1005)
R203	1-208-895-81	s RES, CHIP 2.2K (1005)
R204	1-208-895-81	s RES, CHIP 2.2K (1005)
R205	1-208-895-81	s RES, CHIP 2.2K (1005)
R206	1-208-895-81	s RES, CHIP 2.2K (1005)
R209	1-220-878-81	s RES, CHIP 22 (1005)
R211	1-220-878-81	s RES, CHIP 22 (1005)
R213	1-208-911-81	s RES, CHIP 10K (1005)
R214	1-208-911-81	s RES, CHIP 10K (1005)
R215	1-208-911-81	s RES, CHIP 10K (1005)
R216	1-208-911-81	s RES, CHIP 10K (1005)
R217	1-208-911-81	s RES, CHIP 10K (1005)
R218	1-208-911-81	s RES, CHIP 10K (1005)
R219	1-208-911-81	s RES, CHIP 10K (1005)
R223	1-220-878-81	s RES, CHIP 22 (1005)
R226	1-208-855-81	s RES, CHIP 47 (1005)
R229	1-208-871-81	s RES, CHIP 220 (1005)
R234	1-218-990-81	s CONDUCTOR, CHIP (1005)
R235	1-218-990-81	s CONDUCTOR, CHIP (1005)

(VIF-40 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R241	1-218-990-81	s CONDUCTOR, CHIP (1005)
R242	1-218-990-81	s CONDUCTOR, CHIP (1005)
R243	1-208-871-81	s RES, CHIP 220 (1005)
R245	1-220-878-81	s RES, CHIP 22 (1005)
R246	1-220-878-81	s RES, CHIP 22 (1005)
R247	1-220-878-81	s RES, CHIP 22 (1005)
R248	1-220-878-81	s RES, CHIP 22 (1005)
R407	1-208-860-81	s RES, CHIP 75 (1005)
R408	1-208-860-81	s RES, CHIP 75 (1005)
R409	1-208-860-81	s RES, CHIP 75 (1005)
R410	1-218-990-81	s CONDUCTOR, CHIP (1005)
R411	1-218-990-81	s CONDUCTOR, CHIP (1005)
R412	1-208-927-81	s RES, CHIP 47K (1005)
R413	1-208-879-81	s RES, CHIP 470 (1005)
R414	1-208-863-81	s RES, CHIP 100 (1005)
R417	1-208-867-81	s RES, CHIP 150 (1005)
R420	1-208-855-81	s RES, CHIP 47 (1005)
R421	1-208-855-81	s RES, CHIP 47 (1005)
R501	1-208-907-81	s RES, CHIP 6.8K (1005)
R502	1-208-895-81	s RES, CHIP 2.2K (1005)
R503	1-208-899-81	s RES, CHIP 3.3K (1005)
R504	1-208-879-81	s RES, CHIP 470 (1005)
R505	1-208-879-81	s RES, CHIP 470 (1005)
R506	1-208-911-81	s RES, CHIP 10K (1005)
R507	1-208-907-81	s RES, CHIP 6.8K (1005)
R508	1-208-923-81	s RES, CHIP 33K (1005)
R509	1-208-899-81	s RES, CHIP 3.3K (1005)
R510	1-208-895-81	s RES, CHIP 2.2K (1005)
R511	1-208-887-81	s RES, CHIP 1.0K (1005)
R512	1-208-887-81	s RES, CHIP 1.0K (1005)
R513	1-208-915-81	s RES, CHIP 15K (1005)
R514	1-208-915-81	s RES, CHIP 15K (1005)
R515	1-220-870-81	s RES, CHIP 10 (1005)
R516	1-220-870-81	s RES, CHIP 10 (1005)
R519	1-208-951-81	s RES, CHIP 470K (1005)
R520	1-208-951-81	s RES, CHIP 470K (1005)
R521	1-208-927-81	s RES, CHIP 47K (1005)
R522	1-208-943-81	s RES, CHIP 220K (1005)
R523	1-208-927-81	s RES, CHIP 47K (1005)
R524	1-208-939-81	s RES, CHIP 150K (1005)
R525	1-208-939-81	s RES, CHIP 150K (1005)
R526	1-208-939-81	s RES, CHIP 150K (1005)
R530	1-208-887-81	s RES, CHIP 1.0K (1005)
R534	1-208-935-81	s RES, CHIP 100K (1005)
R535	1-208-895-81	s RES, CHIP 2.2K (1005)
R536	1-218-990-81	s CONDUCTOR, CHIP (1005)
R537	1-208-879-81	s RES, CHIP 470 (1005)
R538	1-218-990-81	s CONDUCTOR, CHIP (1005)
R539	1-208-883-81	s RES, CHIP 680 (1005)
R540	1-218-990-81	s CONDUCTOR, CHIP (1005)
R541	1-218-990-81	s CONDUCTOR, CHIP (1005)
R542	1-218-990-81	s CONDUCTOR, CHIP (1005)
R601	1-220-878-81	s RES, CHIP 22 (1005)
R602	1-218-990-81	s CONDUCTOR, CHIP (1005)
R603	1-218-990-81	s CONDUCTOR, CHIP (1005)
R604	1-218-990-81	s CONDUCTOR, CHIP (1005)
R606	1-218-990-81	s CONDUCTOR, CHIP (1005)
R607	1-218-990-81	s CONDUCTOR, CHIP (1005)
R608	1-218-990-81	s CONDUCTOR, CHIP (1005)

2-4. Supplied Accessories List

(VIF-40 BOARD)

Ref. No.
or Q'ty Part No. SP Description

R701 1-208-911-81 s RES, CHIP 10K (1005)

RB101 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB102 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB103 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB104 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB105 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB106 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB107 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB201 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB202 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB203 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB204 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB205 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB206 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB207 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB208 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB209 1-234-370-21 s RES, NETWORK 22 (1005X4)

RB210 1-234-378-21 s RES, NETWORK 10K (1005X4)

RB211 1-234-378-21 s RES, NETWORK 10K (1005X4)

RB212 1-234-378-21 s RES, NETWORK 10K (1005X4)

RB601 1-234-378-21 s RES, NETWORK 10K (1005X4)

RB602 1-234-378-21 s RES, NETWORK 10K (1005X4)

S501 1-771-721-21 s SWITCH, TACTILE

TP221 1-535-757-21 s CHIP, CHECKER

TPG101 1-535-877-22 s CHIP, CHECKER

X201 1-813-419-11 s OSCILLATOR,CRYSTAL DSO321SV

BCU-100

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No.
or Q'ty Part No. SP Description

1pc \triangle 3-299-377-01 s OPERATION MANUAL

1pc \triangle 3-299-378-01 s INSTALLATION MANUAL

1pc 3-300-358-01 s STOPPER, EXTRACT

BKCU-EX1

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No.
or Q'ty Part No. SP Description

2pcs 7-682-947-01 s SCREW +PSW 3X6

BKCU-VD1

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No.
or Q'ty Part No. SP Description

2pcs 7-682-947-01 s SCREW +PSW 3X6

Section 3

Semiconductor Pin Assignments

The following describes the semiconductor types used in this unit.

For semiconductors marked with page numbers in the index, refer to the corresponding pages in this section.

However, in some cases incompatible types are also listed, therefore, when a part is to be replaced, also refer to the Spare Parts section.

In addition, for semiconductors with ID Nos., refer to the separate CD-ROM titled "Semiconductor Pin Assignments" (Sony Part No. 9-968-546-06) that allows searching for parts by semiconductor type or ID No.

The semiconductors in the manual or on the CD-ROM are listed by equivalent types. Thus the external view or the index mark indication may differ from the actual type.

Pin assignments and block diagrams are based on the IC manufacturer's data book.

本機に使用されている半導体型名の一覧を下記に示します。索引中、ページが記載されている半導体は、本章の該当ページを参照してください。ただし、互換性のない型名を併記している場合がありますので、部品を交換するときは、Spare Partsの章を参照してください。

また、ID番号が記載されている半導体は、別途発行の "Semiconductor Pin Assignments" CD-ROM版 (ソニー品番 : 9-968-546-06)を参照してください。

半導体型名またはID番号から検索ができます。

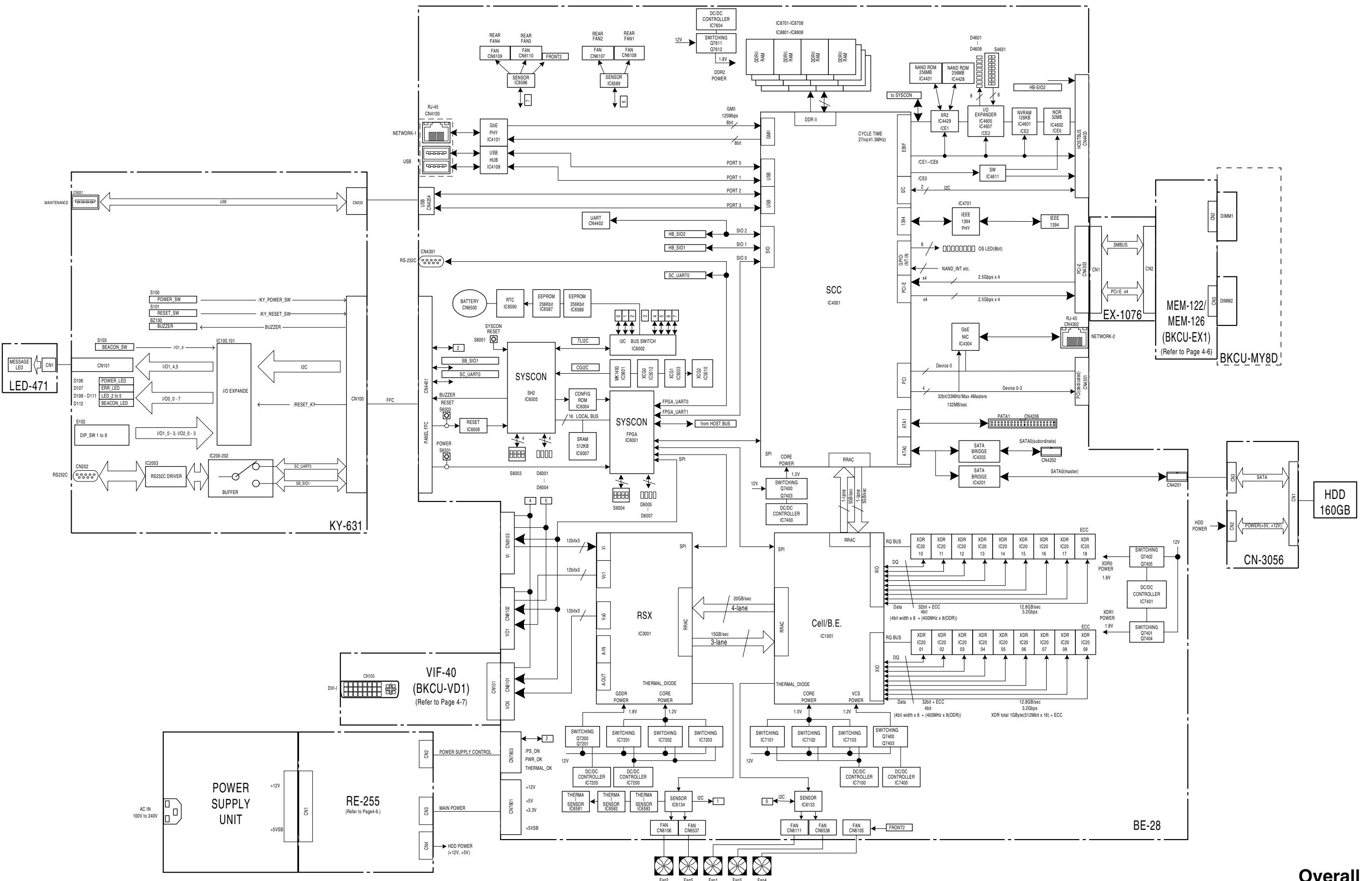
マニュアルまたはCD-ROMに掲載されている半導体は、それぞれの機能を等価的に表わしたものです。

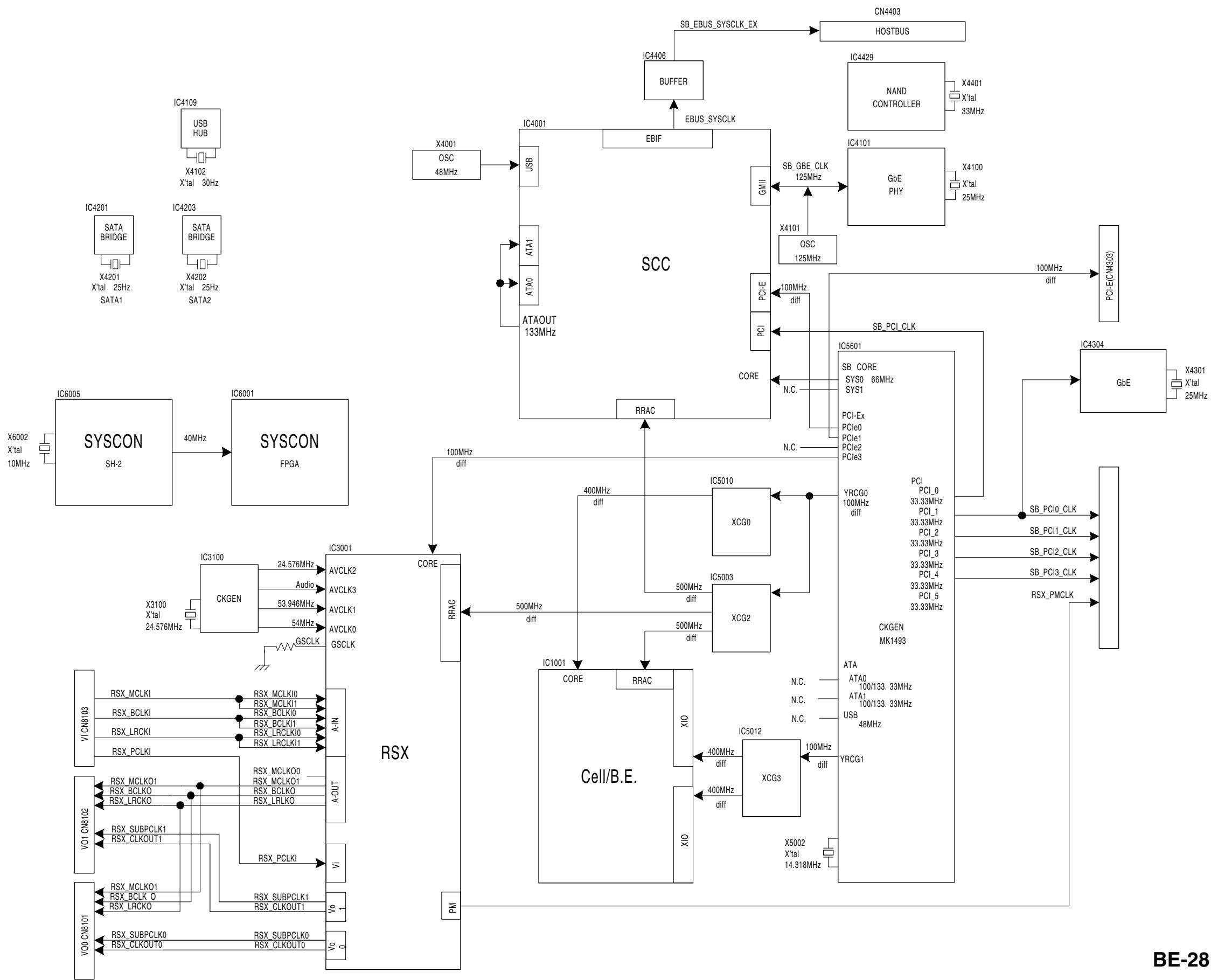
外観やインデックスマークの表示方法が実物と異なる場合があります。

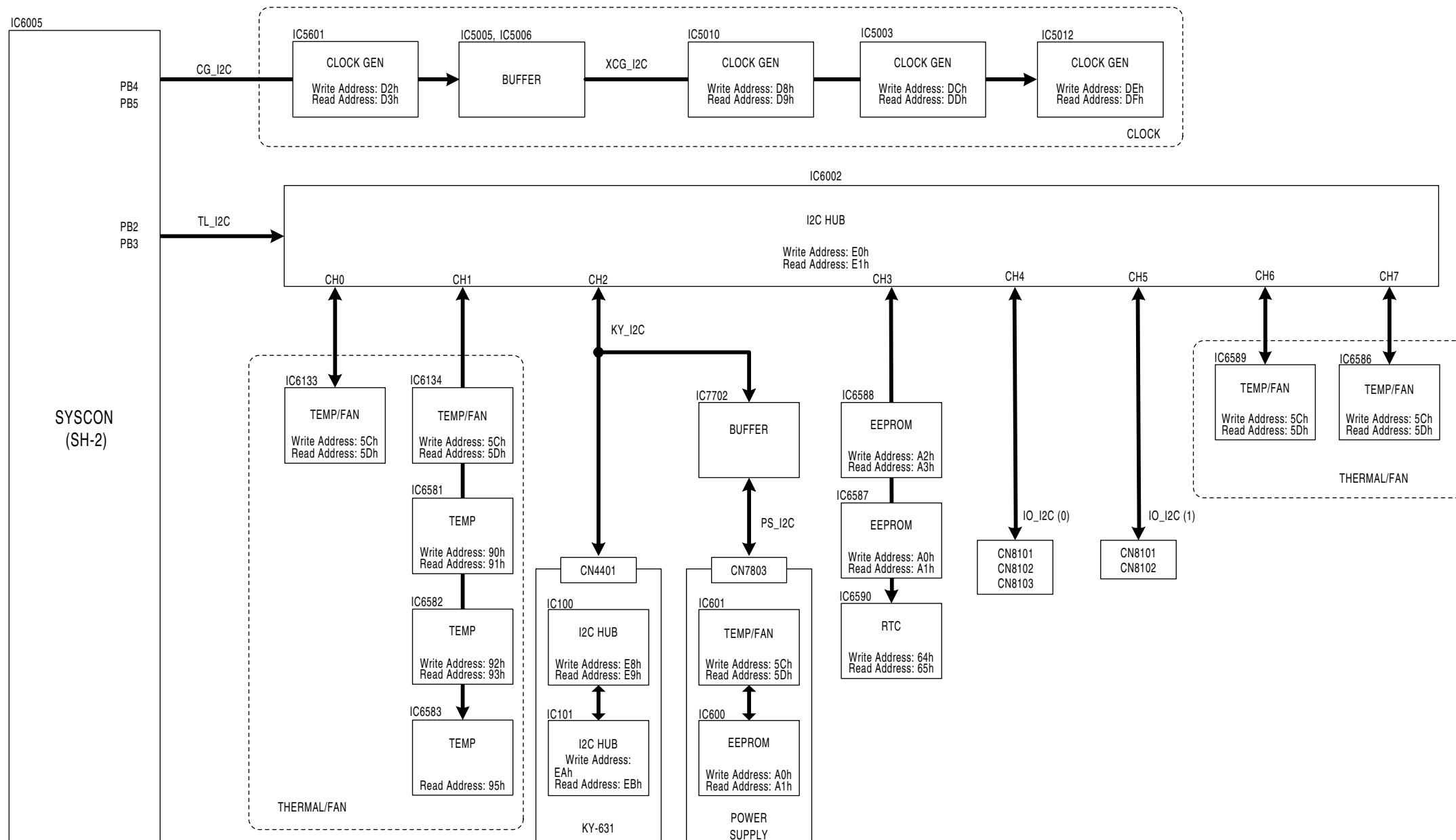
ピン配置およびブロック図はICメーカーのデータブックに従いました。

DIODE	Page or ID No.	IC	Page or ID No.
1SS357-TPH3	DC008-02	BA10339FV-E2	LM339
DAN222-TL	DC001-03	CDCVF2505PWR	CDCVF2505PWR
DAP222-TL	DC001-02	IDTQS3257Q-TL	SN74CBTLV3257PWR
MA2S728-(K8).SO	DC008-02	NJM2903V(TE2)	UA393DC
MBR0530T1	DC008-02	NJM2904V(TE2)	RC4558
MBRS340T3	DC013-01	QS3257Q	SN74CBTLV3257PWR
RB050L-40TE25	DC007-01	QS3257Q-T	SN74CBTLV3257PWR
RD20SB-T1	DC008-04	R3112N221A-TR-FA	S-80928ANMP-DDR-T2
LED	Page or ID No.	IC	Page or ID No.
CL-196HR-CD-T	LC001-01	SN74CBTLV3257PWR	SN74CBTLV3257PWR
CL-196YG-CD-T	LC001-01	SN74LV125APWR	MC74HC125N
TRANSISTOR	Page or ID No.	IC	Page or ID No.
DTA144EE-TL	TC001-04	SN74LVC08APWR	TC74HC08P
DTC114TE-TL	TC001-18	SN74LVC138APWR-12	TC74HC138P
DTC123JE-TL	TC001-03	SN74LVC14APWR	TC74HC14P
DTC144EE-TL	TC001-03	TC7SZ00FU(TE85R)	TC7S00F
DTC144EUA-T106	TC001-03	TC7SZ04FU(TE85R)	TC7S04F
NTD20N03L27-T4	TC010-01	TC7SZ08FU(TE85R)	TC7S08F
		TC7SZ125FU(TE85R)	NC7SZ125P5
		TC7SZ32FU(TE85R)	TC7S32F

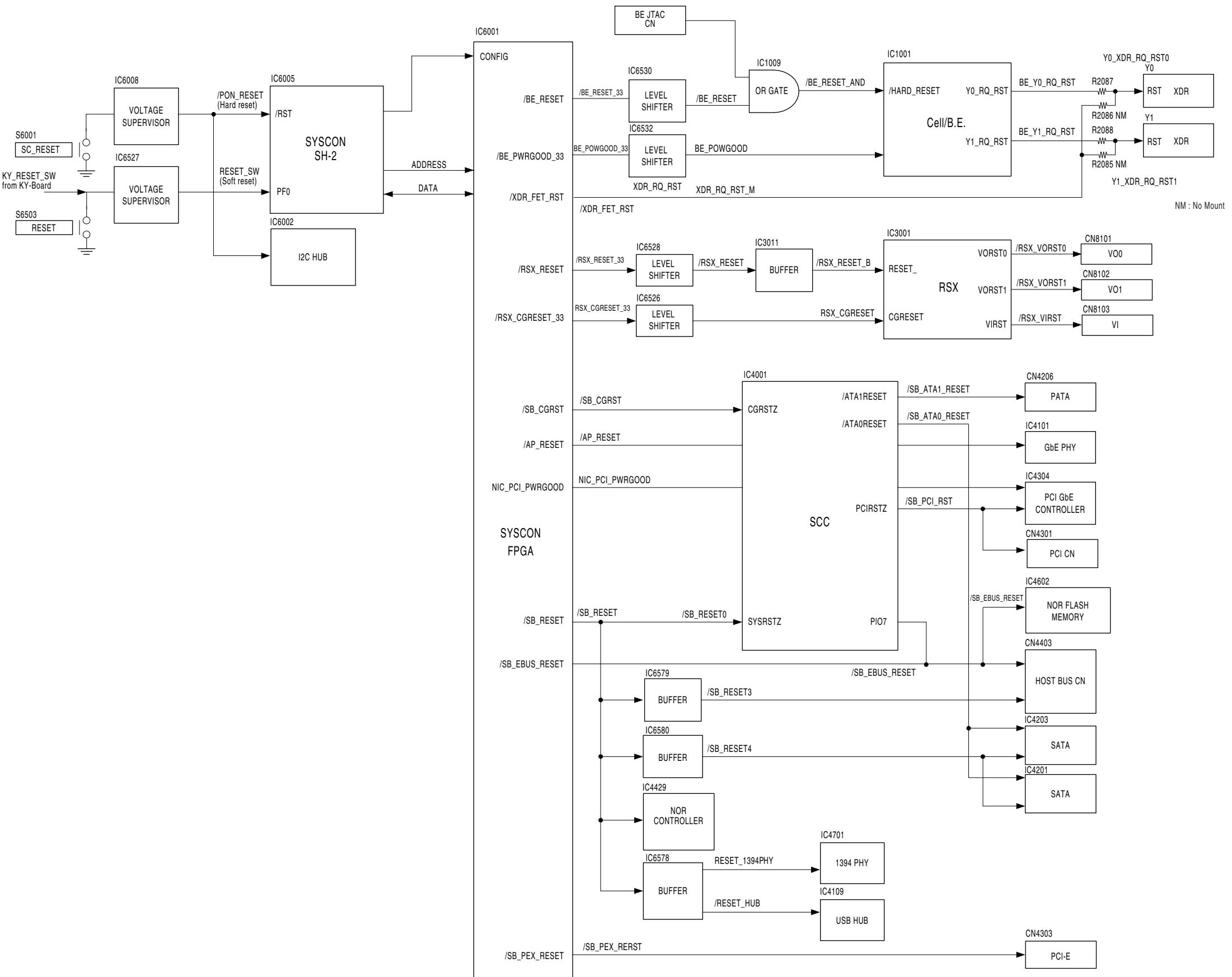
Section 4 Block Diagrams





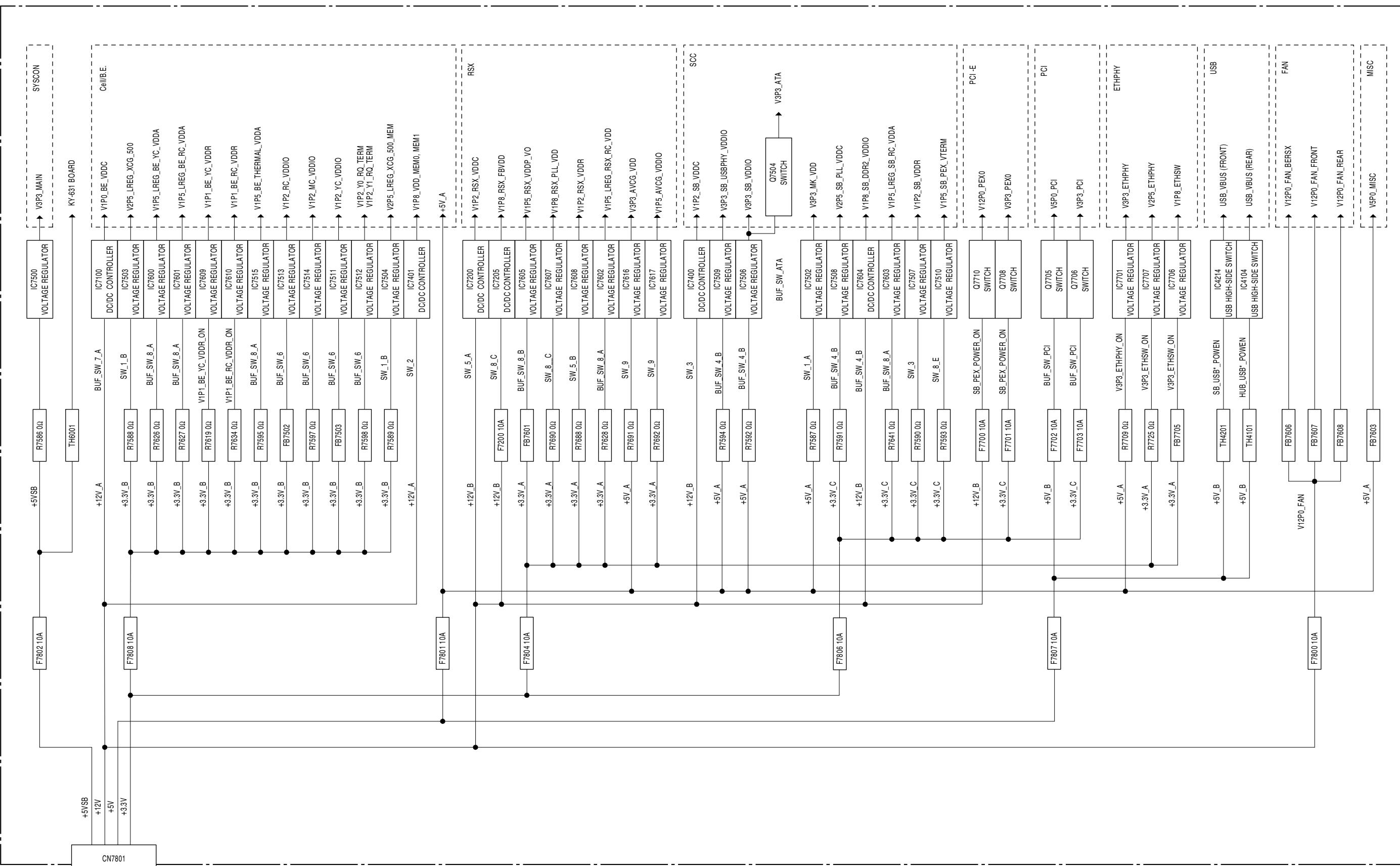


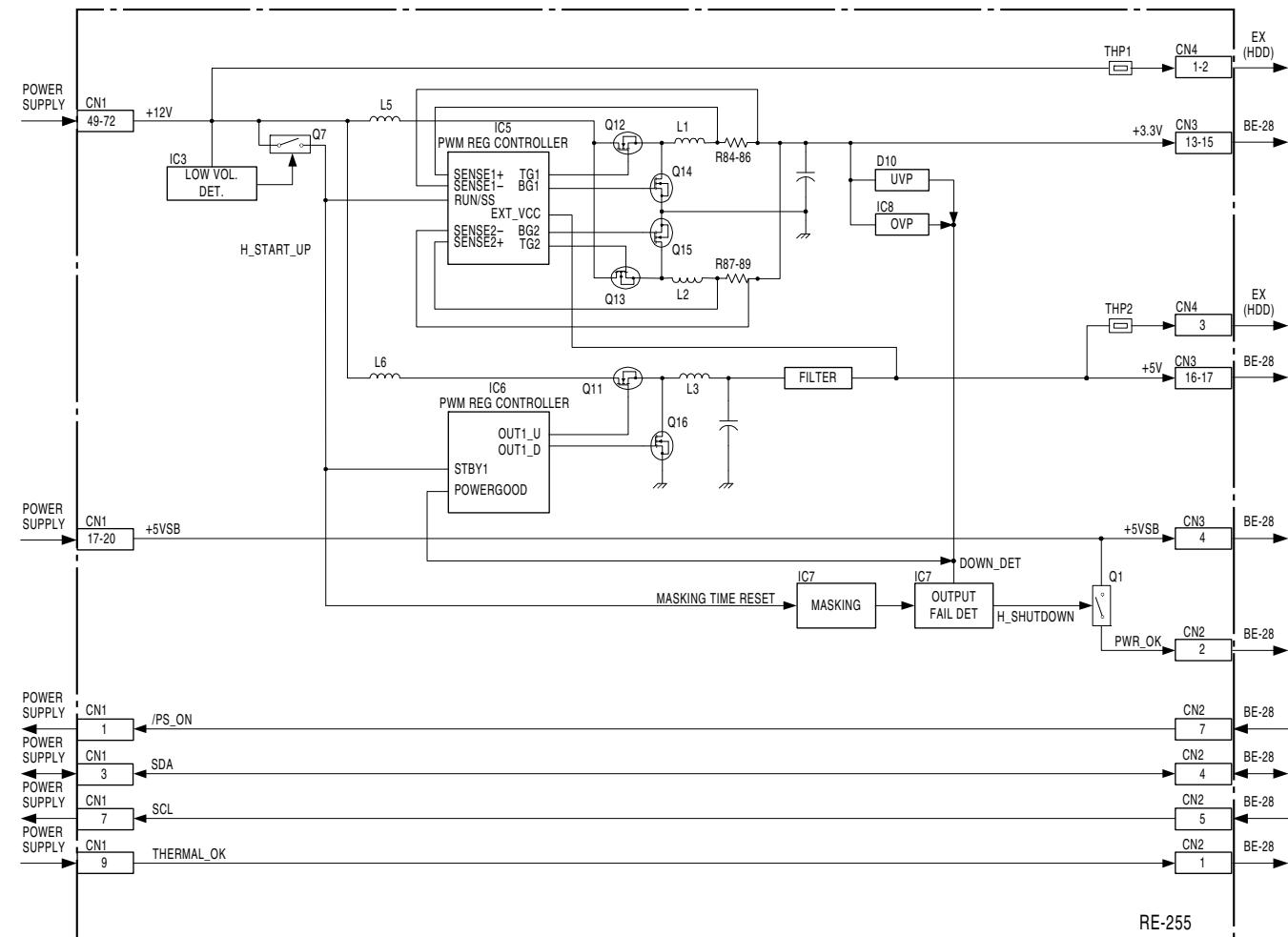
BE-28 Reset



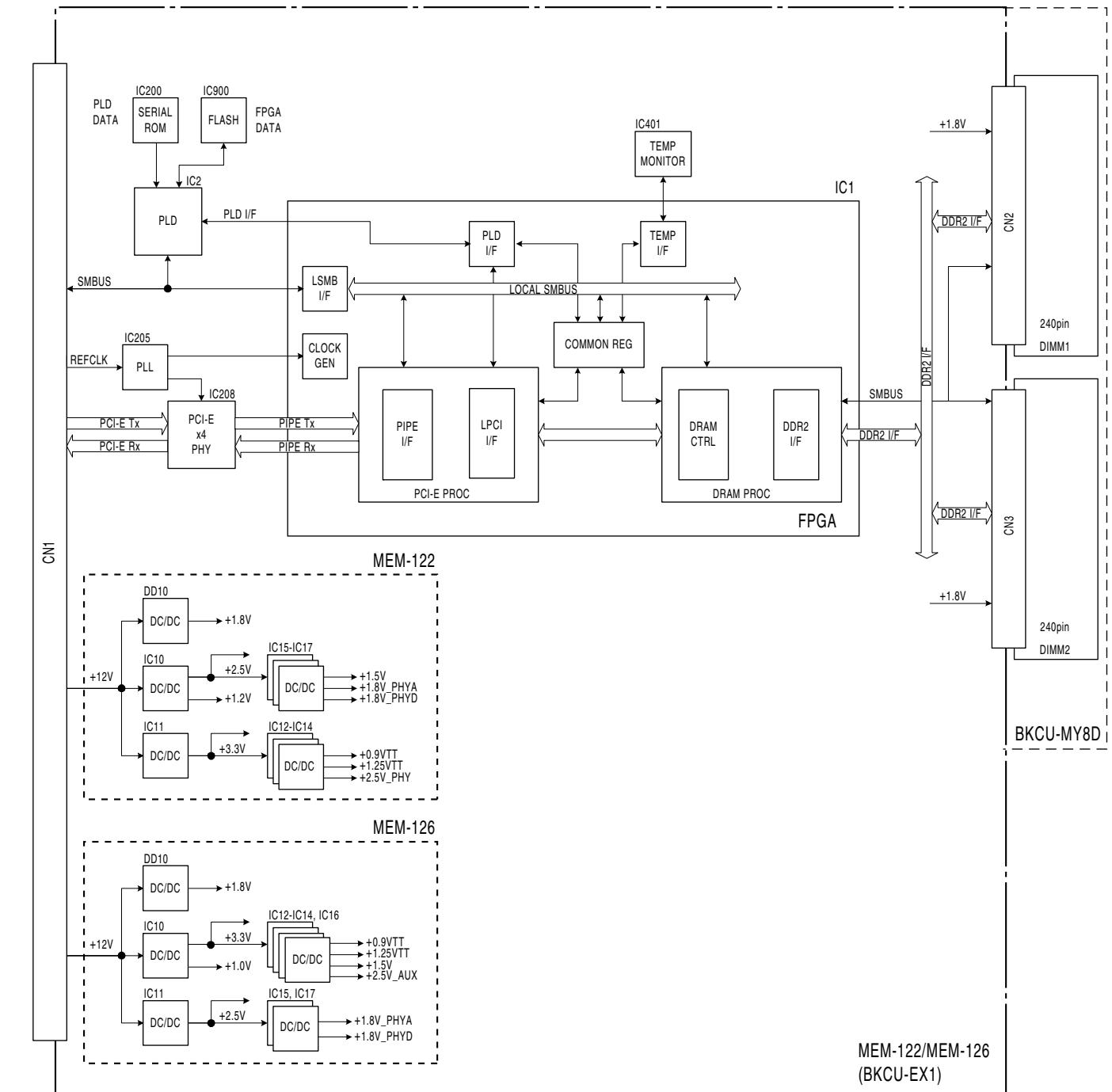
BE-28 Power Supply

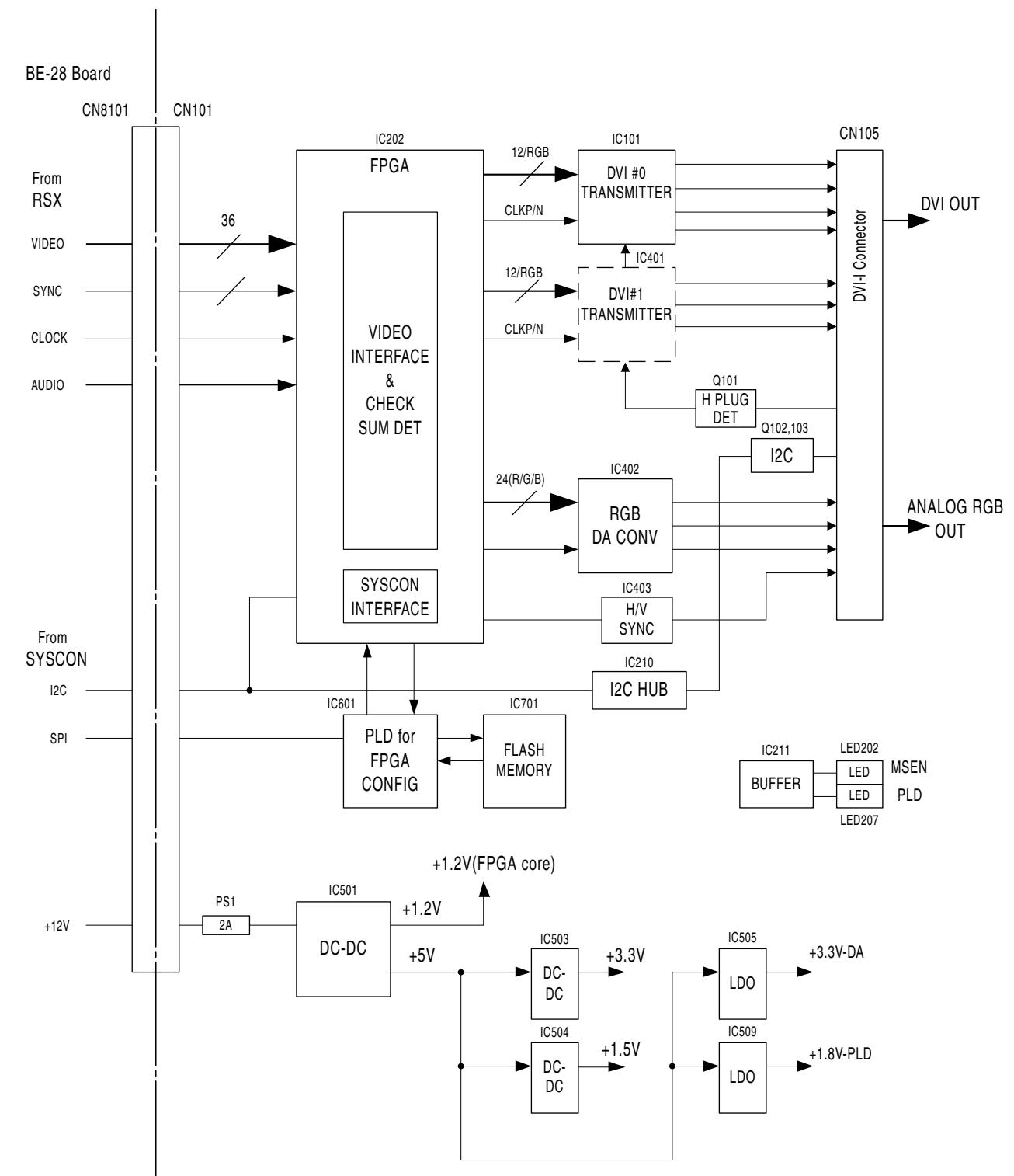
BE-28 Power Supply





RE-255

MEM-122/MEM-126
(BKCU-EX1)



Section 5

Schematic Diagrams

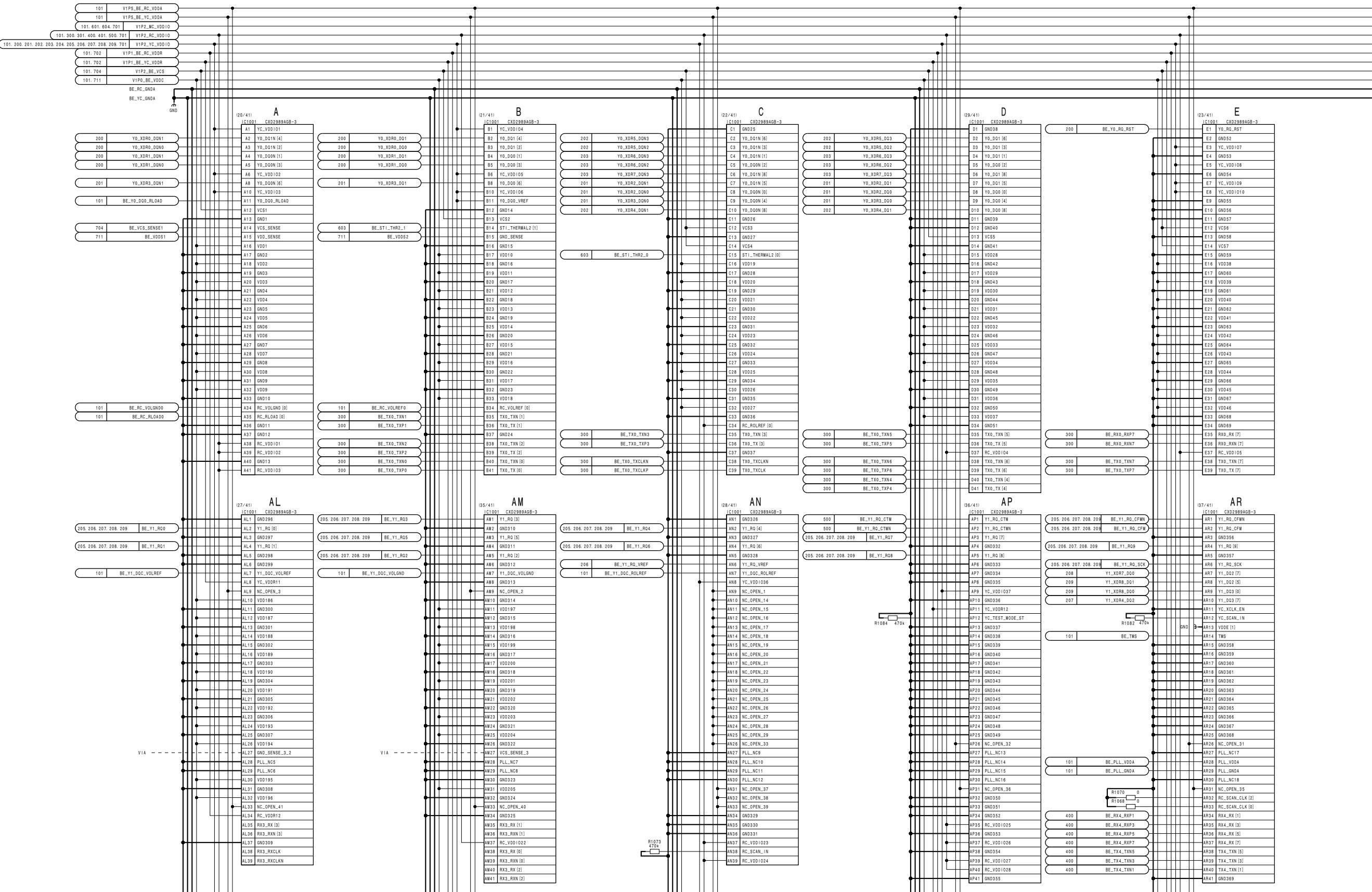
Index

Board Name	Page
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EX-1076	5-55
KY-631	5-56
LED-471	5-58
RE-255	5-59
MEM-122 (BKCU-EX1)	5-60
MEM-126 (BKCU-EX1)	5-67
VIF-40 (BKCU-VD1)	5-74
Frame Wiring	5-82

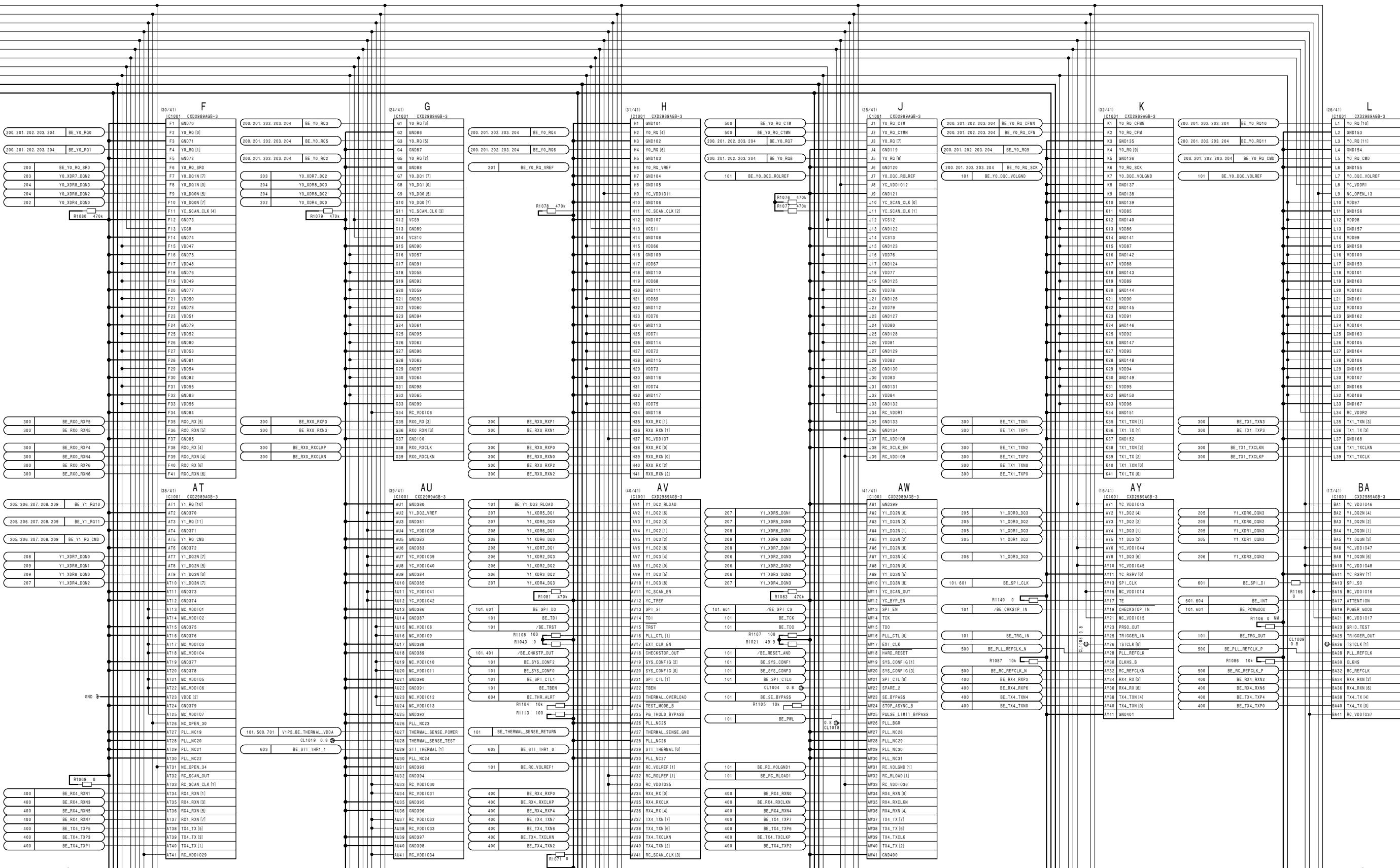
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SUFFIX: -12

BE-28 (1/44)

SUFFIX: -12

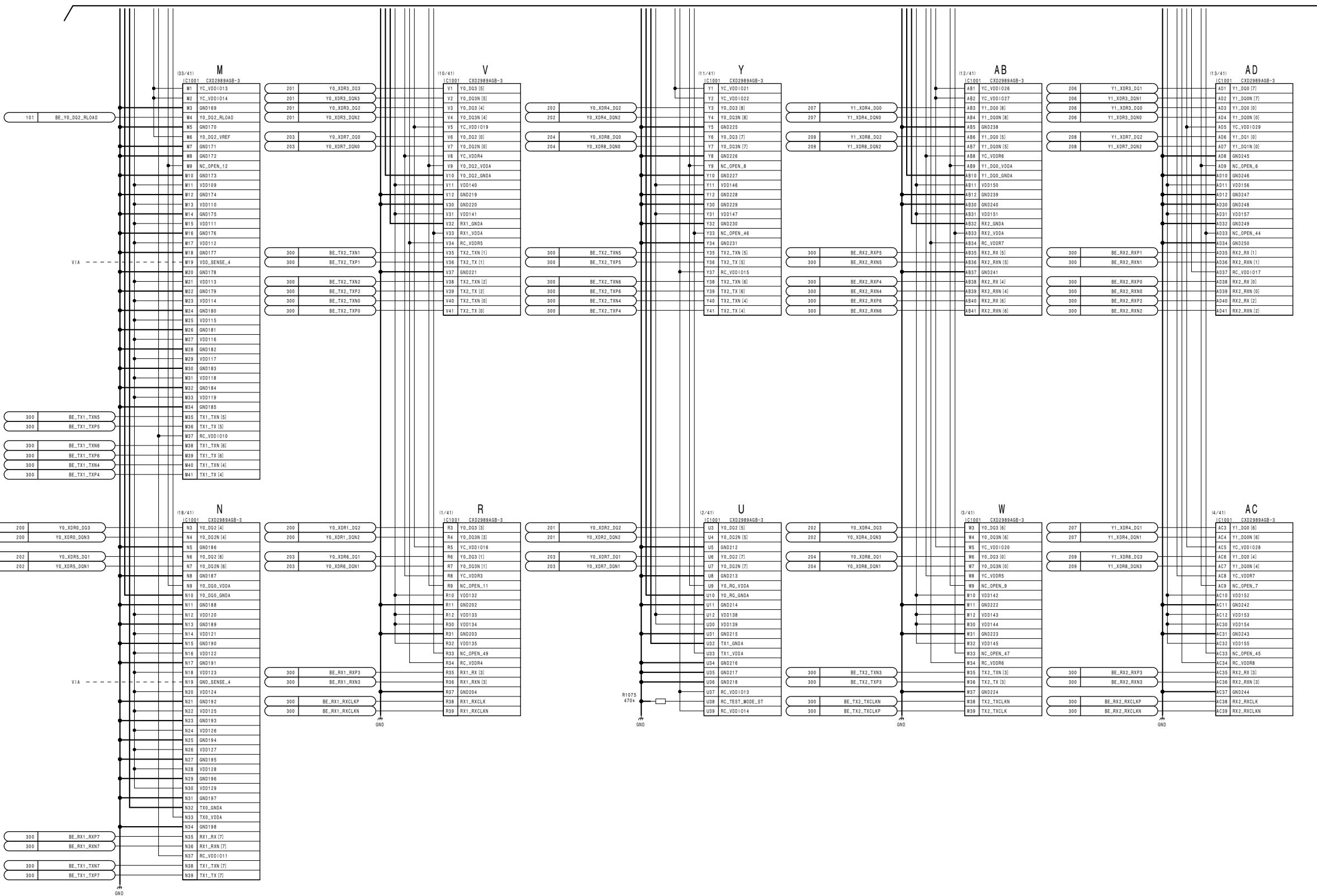


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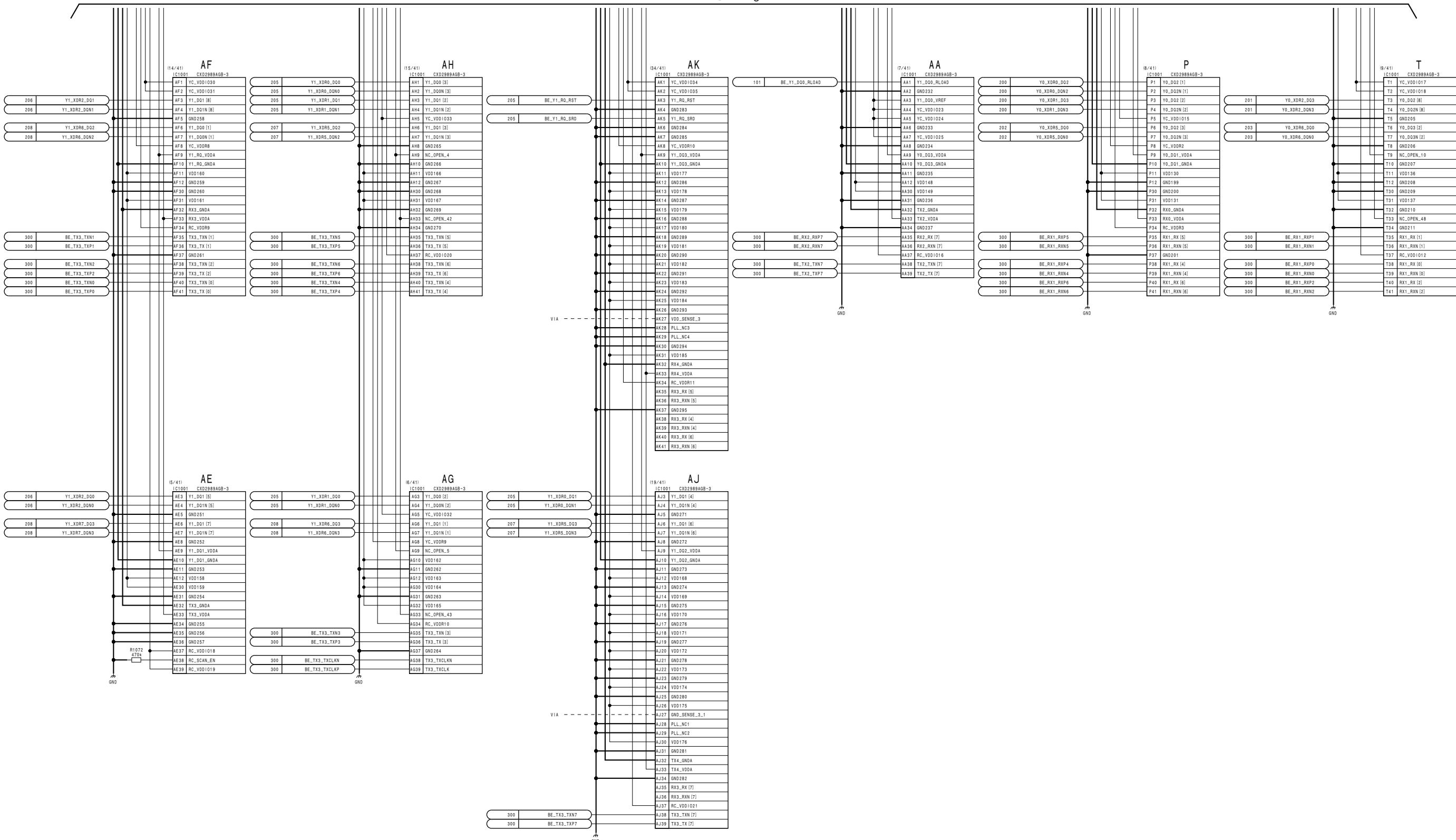


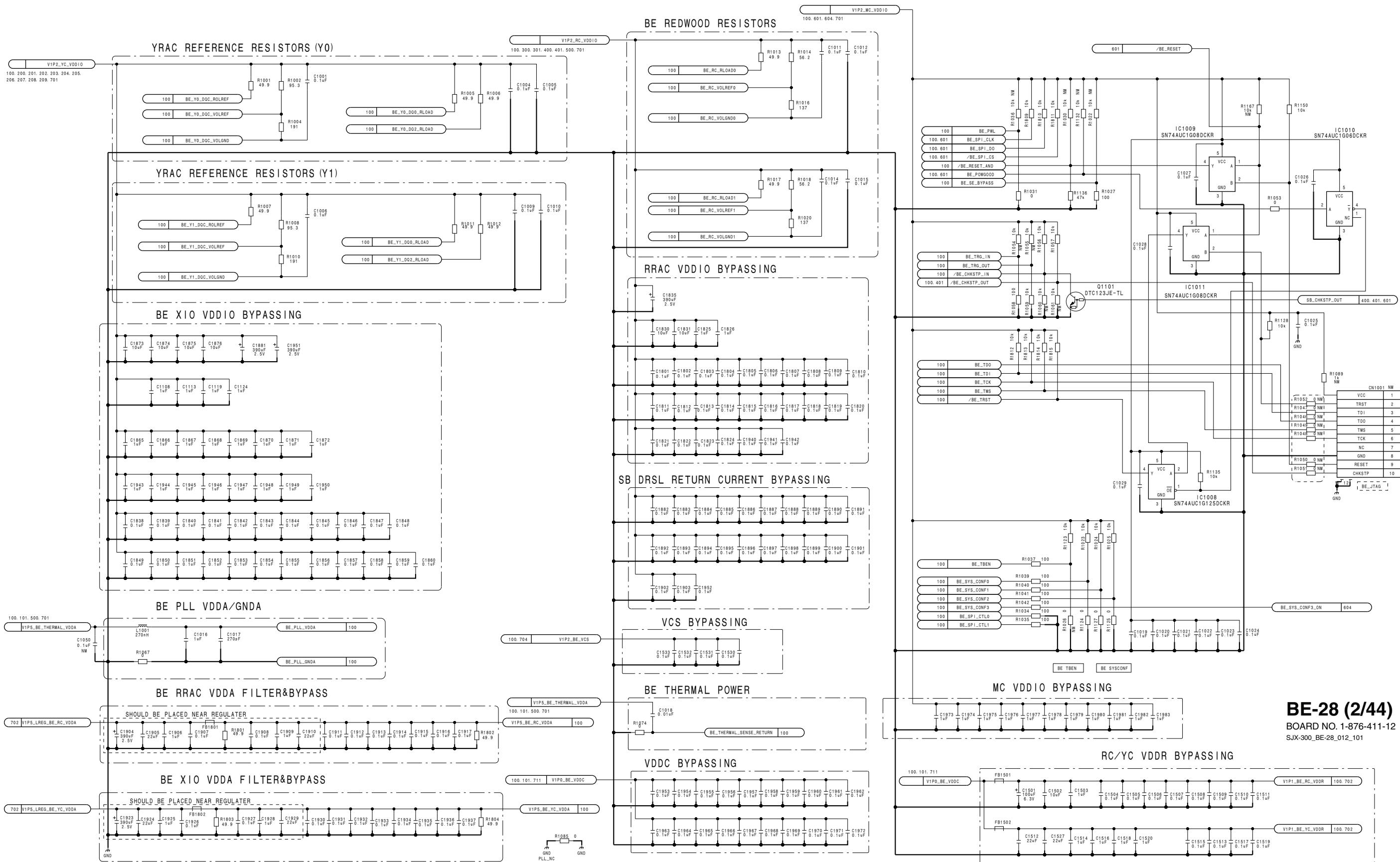
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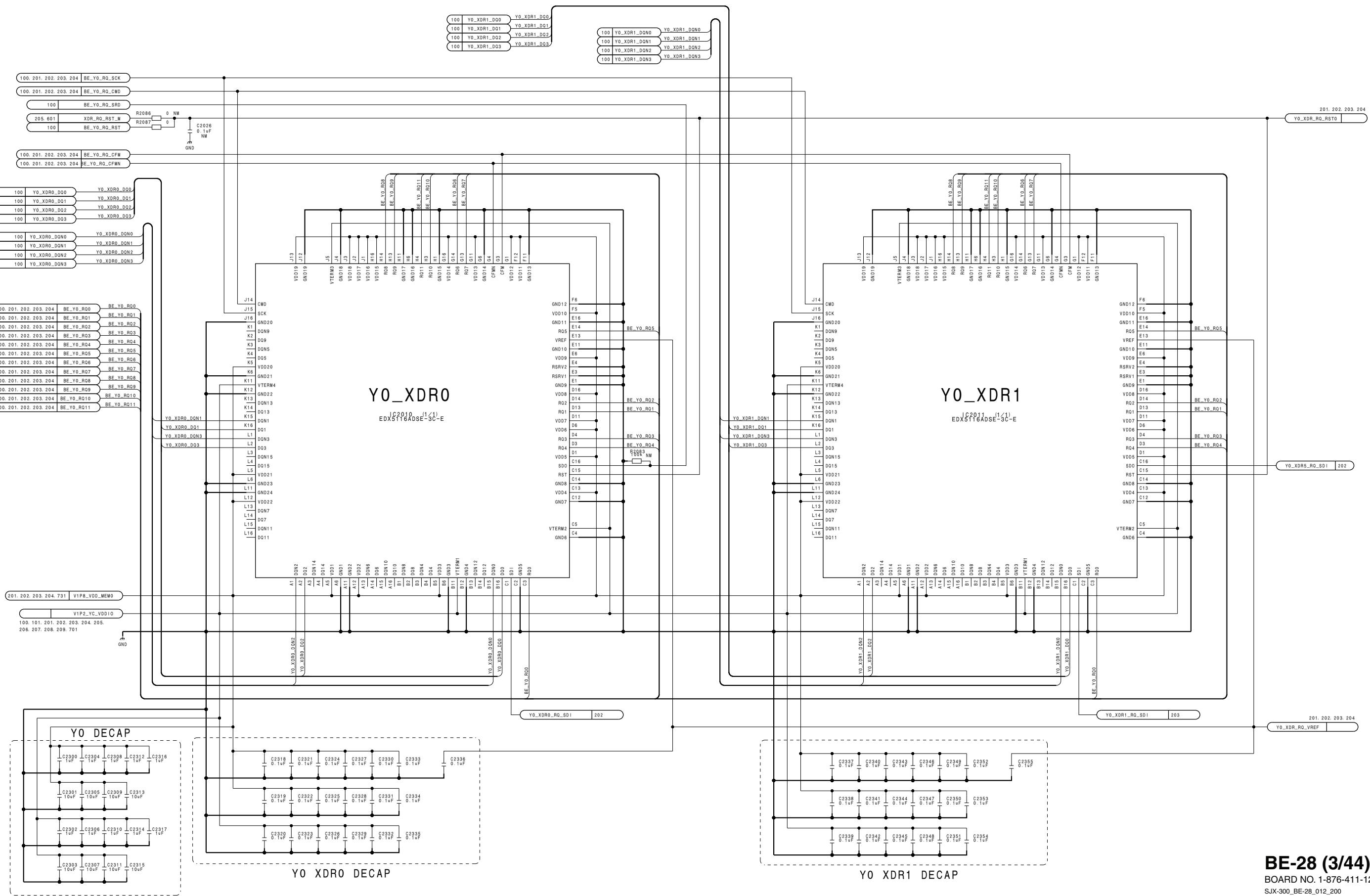
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Page 5-3

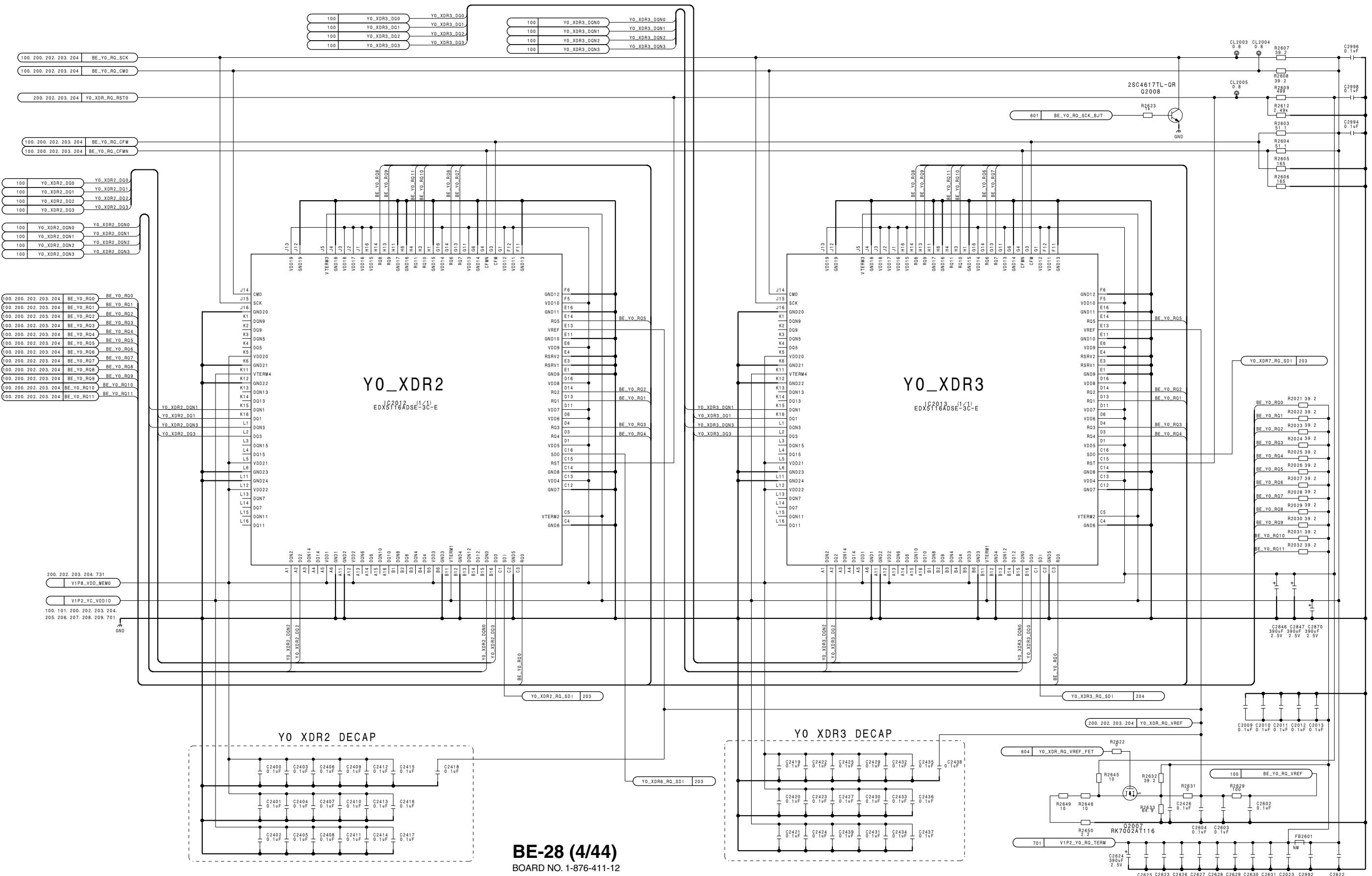


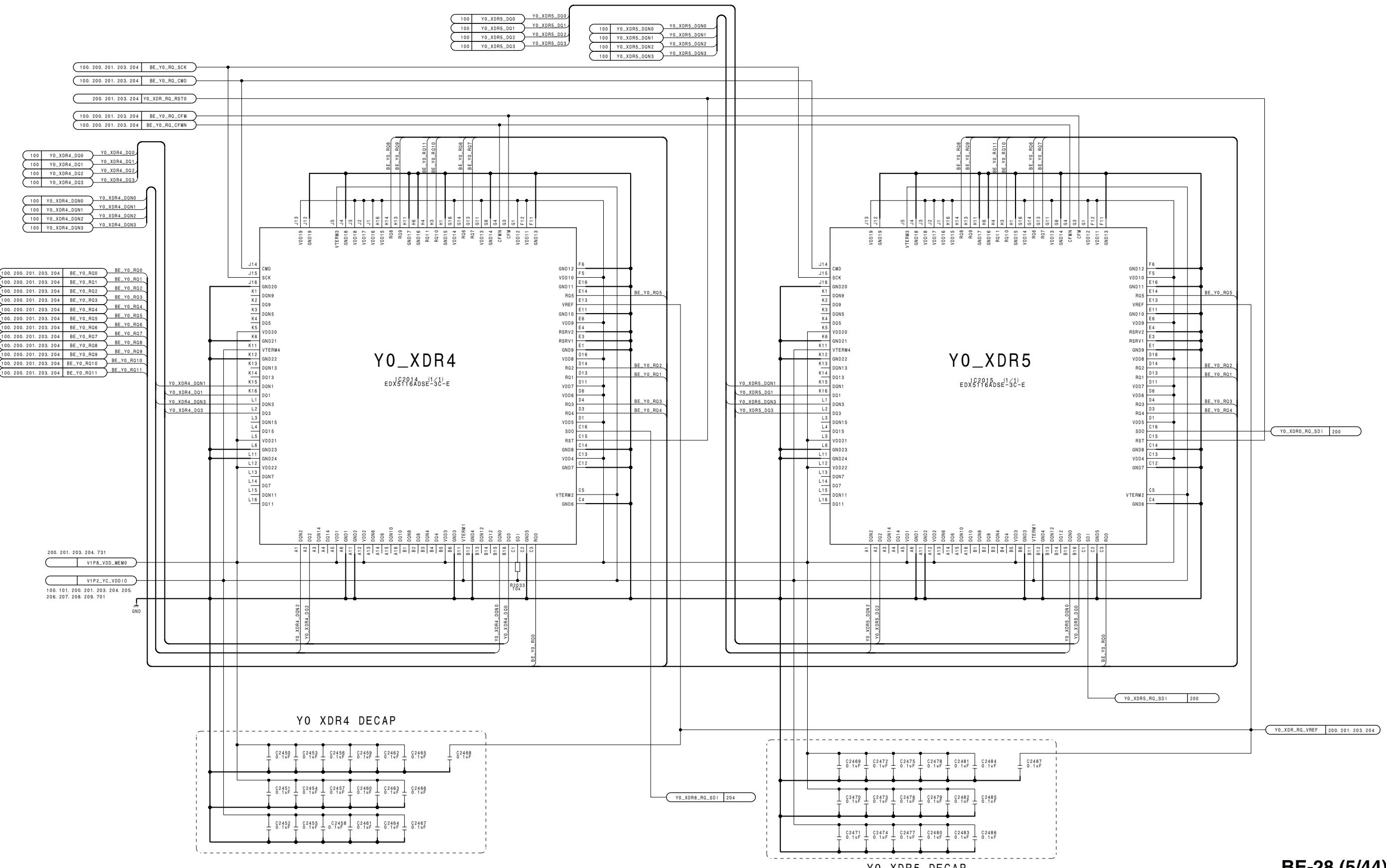




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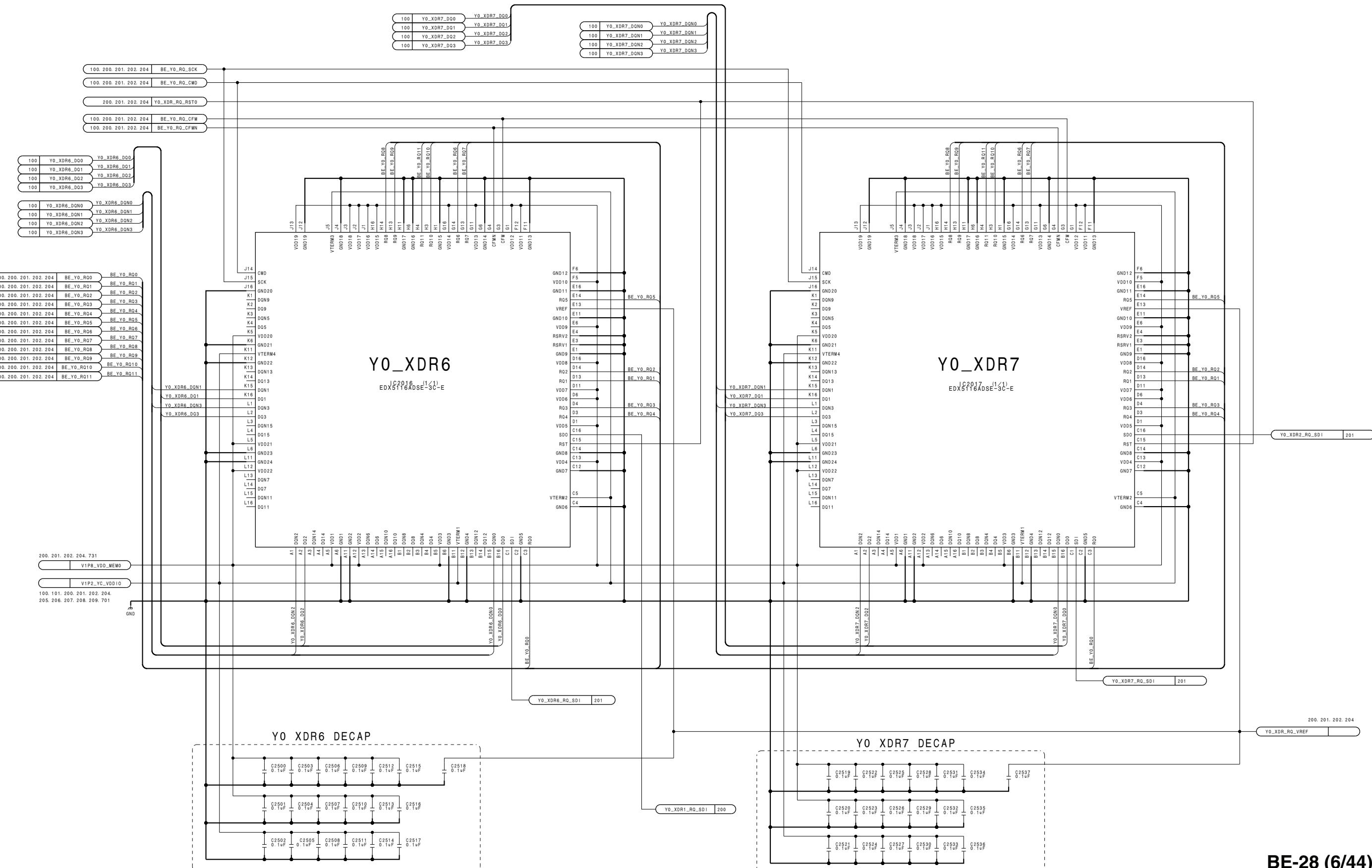
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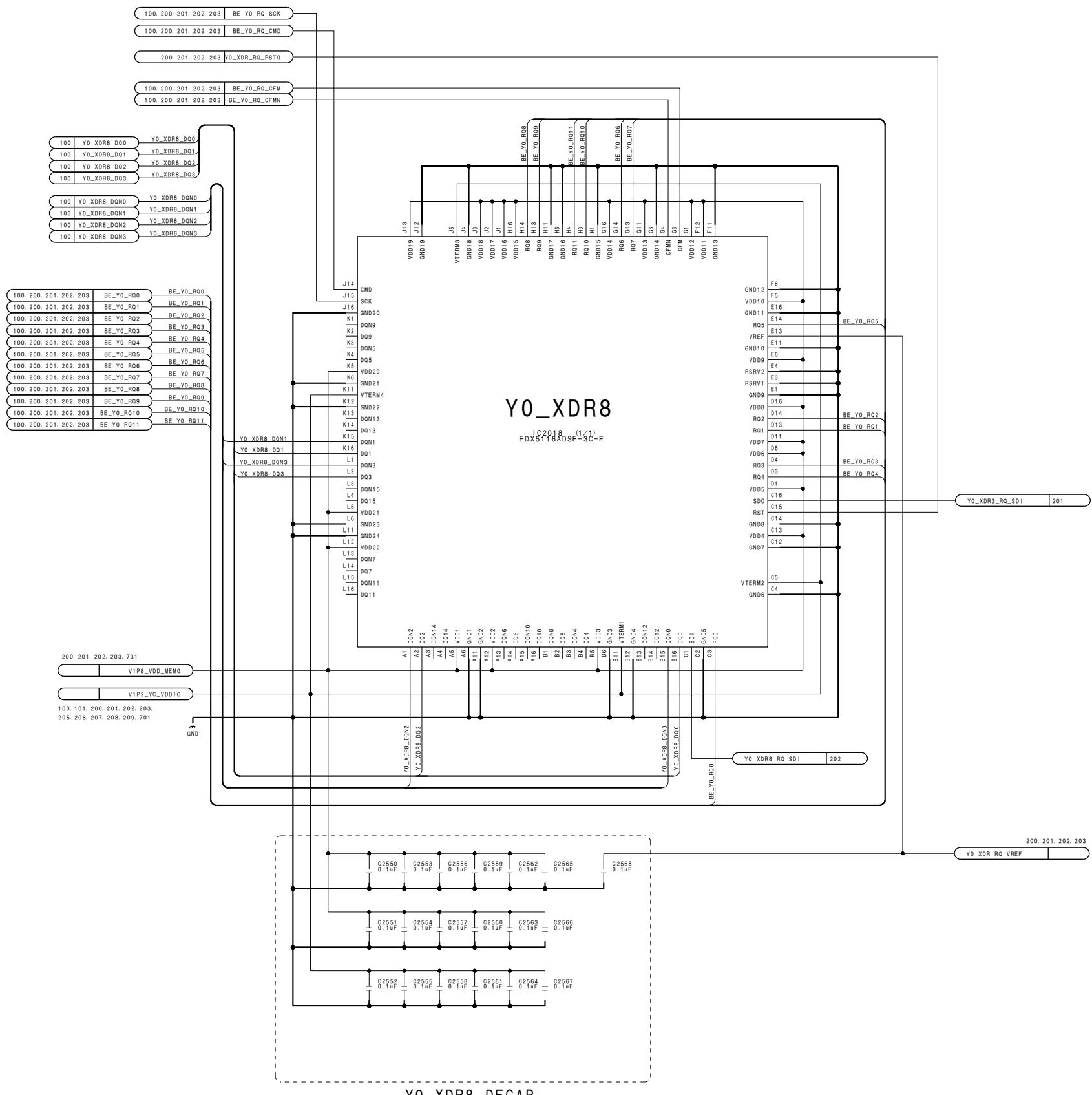


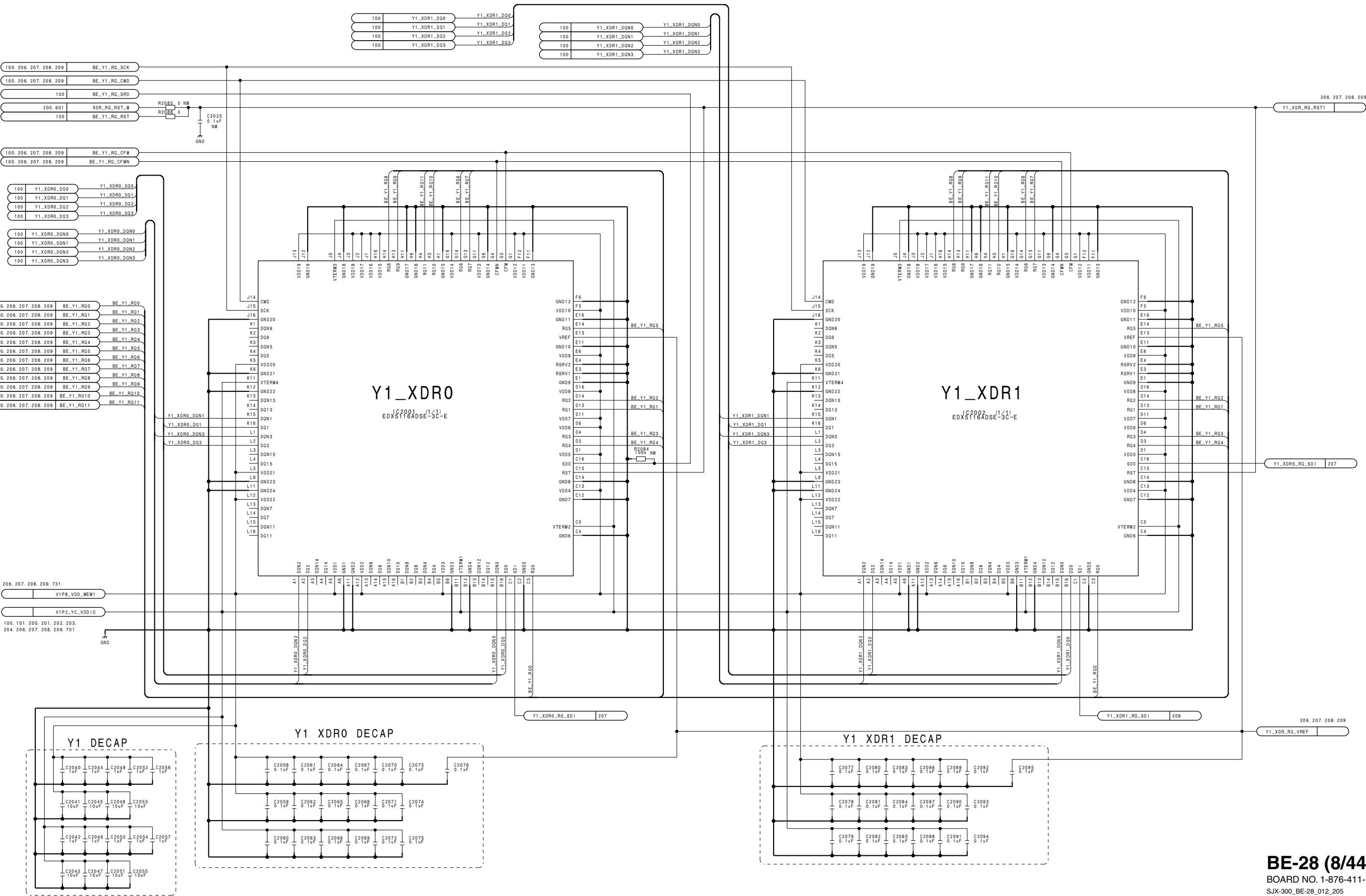
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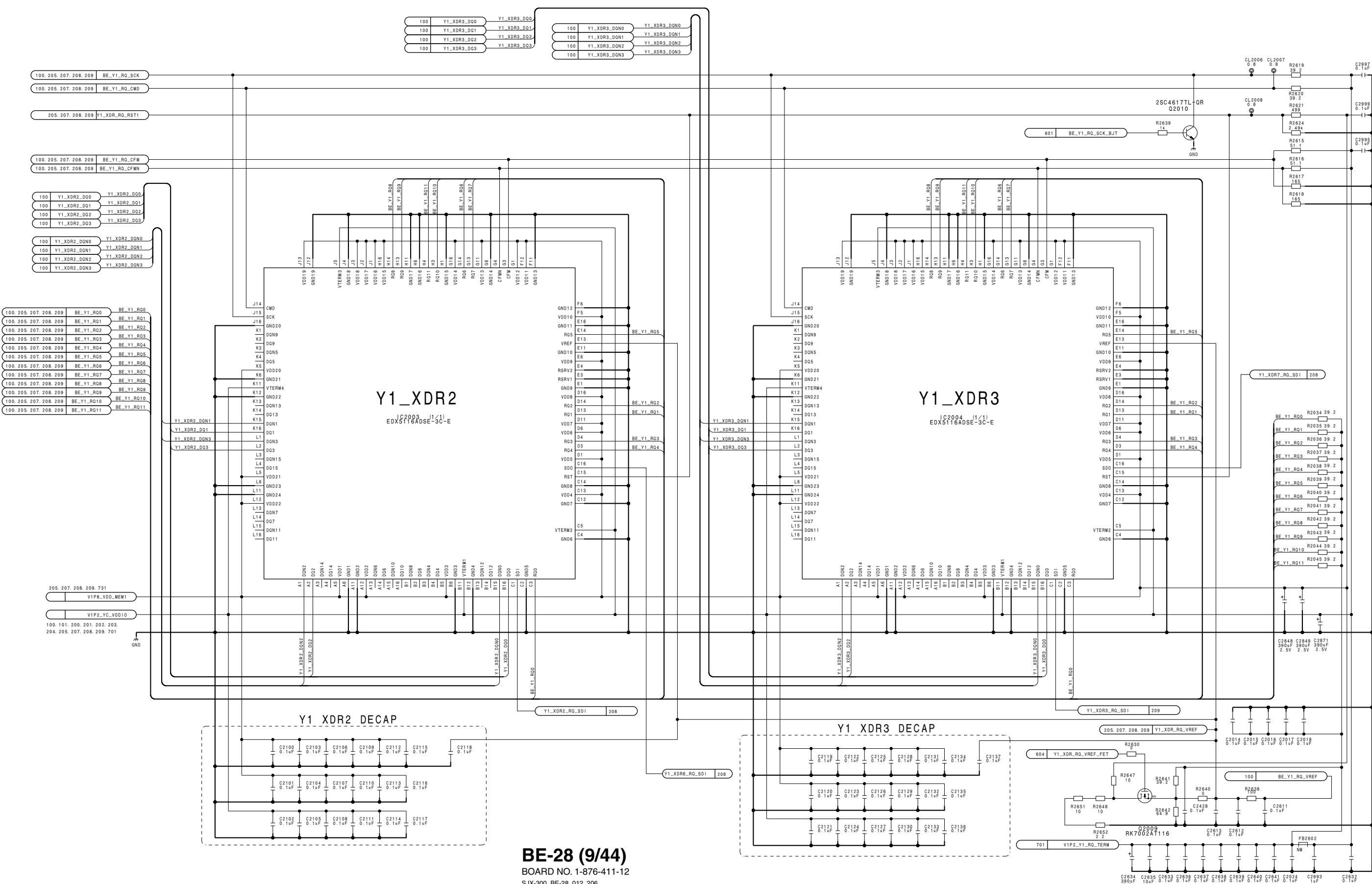
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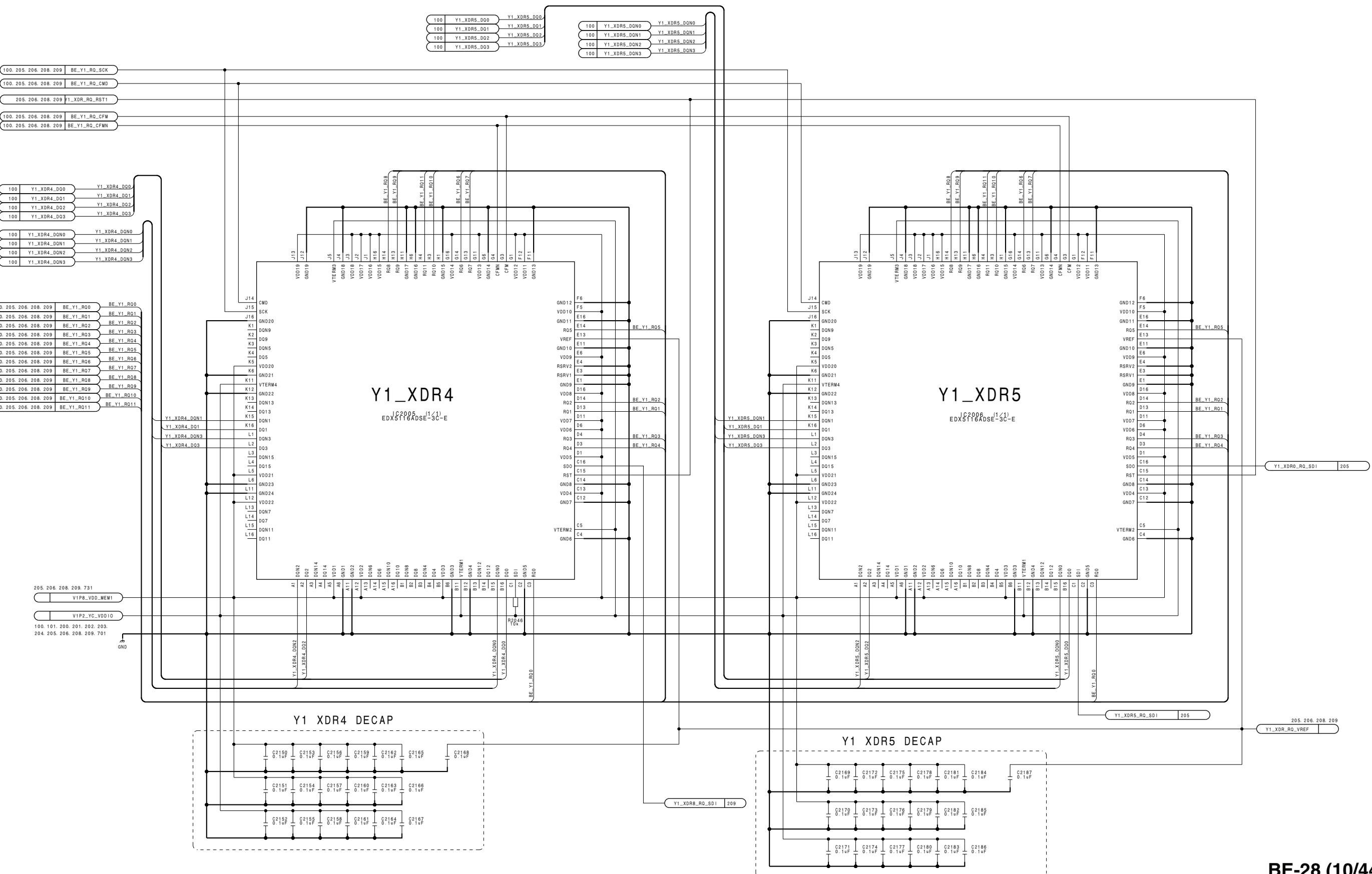


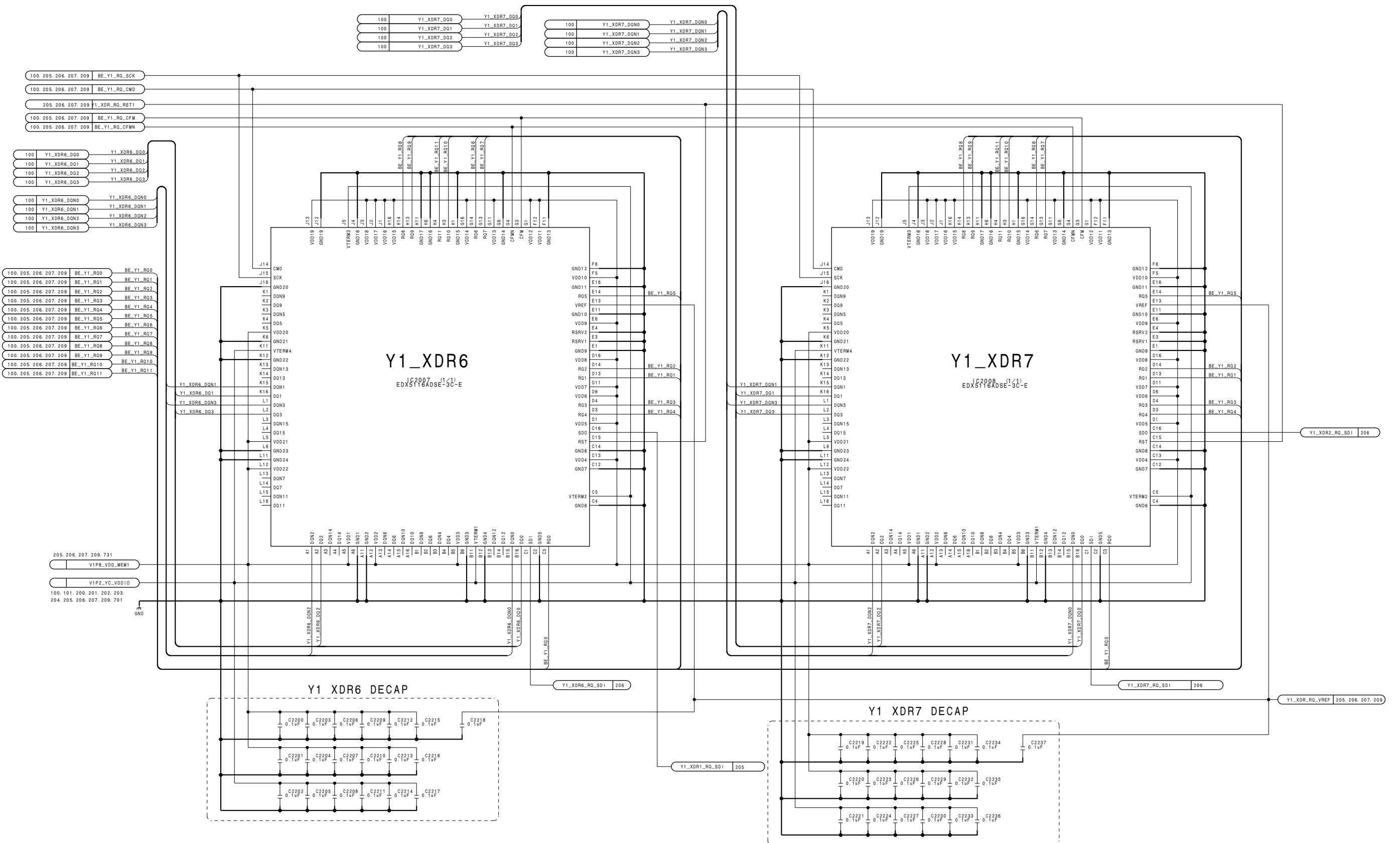
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SJX-300_BE-28_012_203



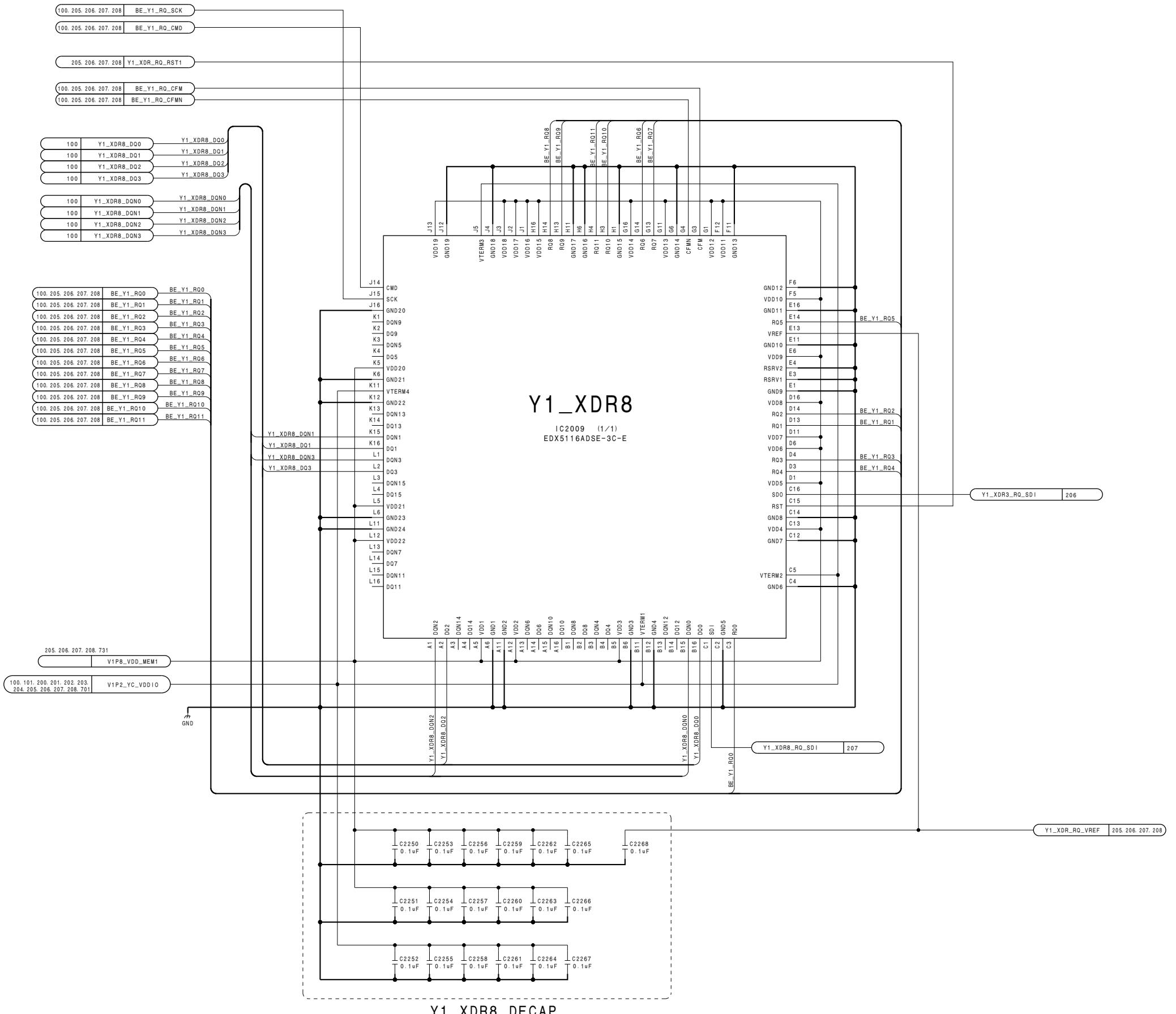








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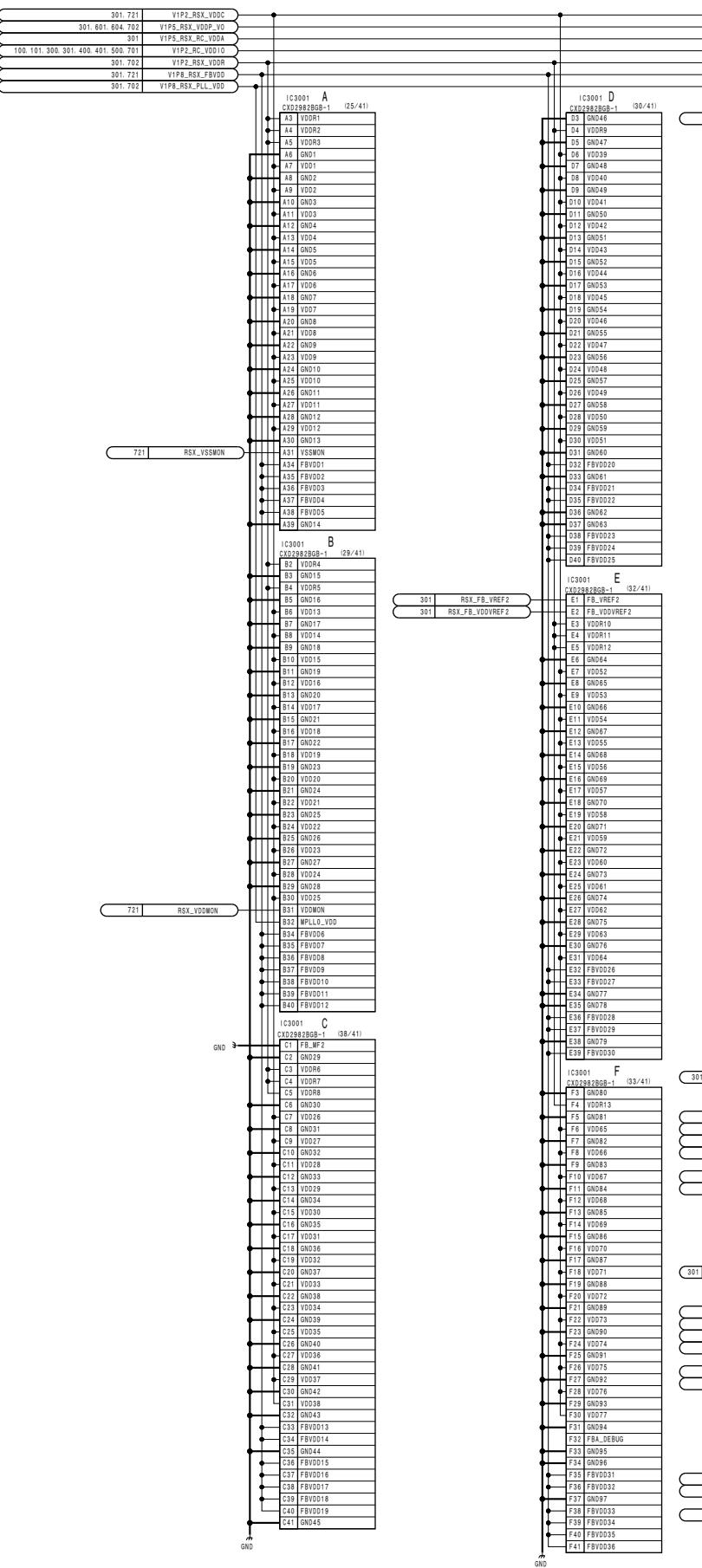
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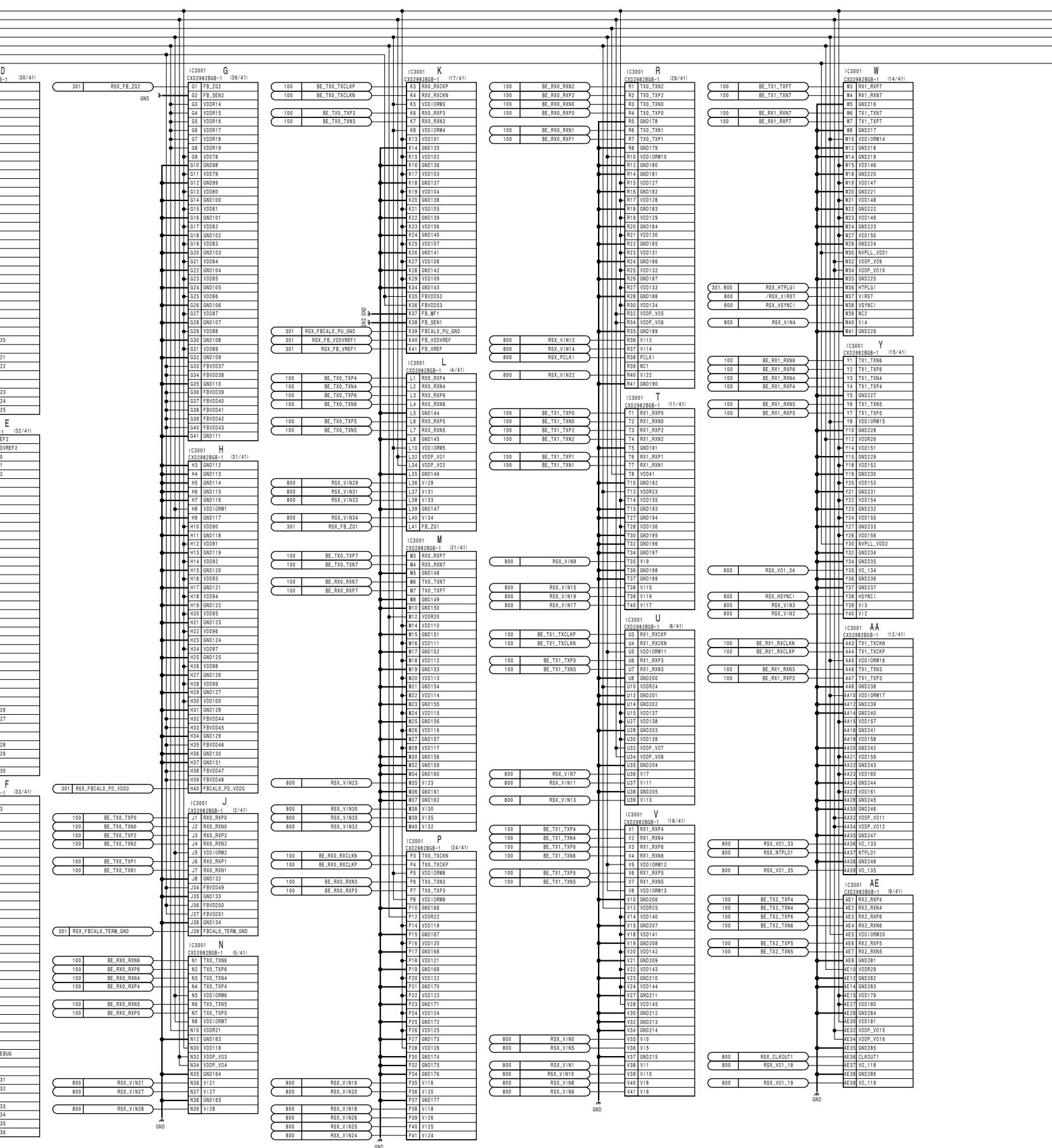
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BE-28 (13/44)
SUFFIX: -12



BE-28 (13/44)
SUFFIX: -12



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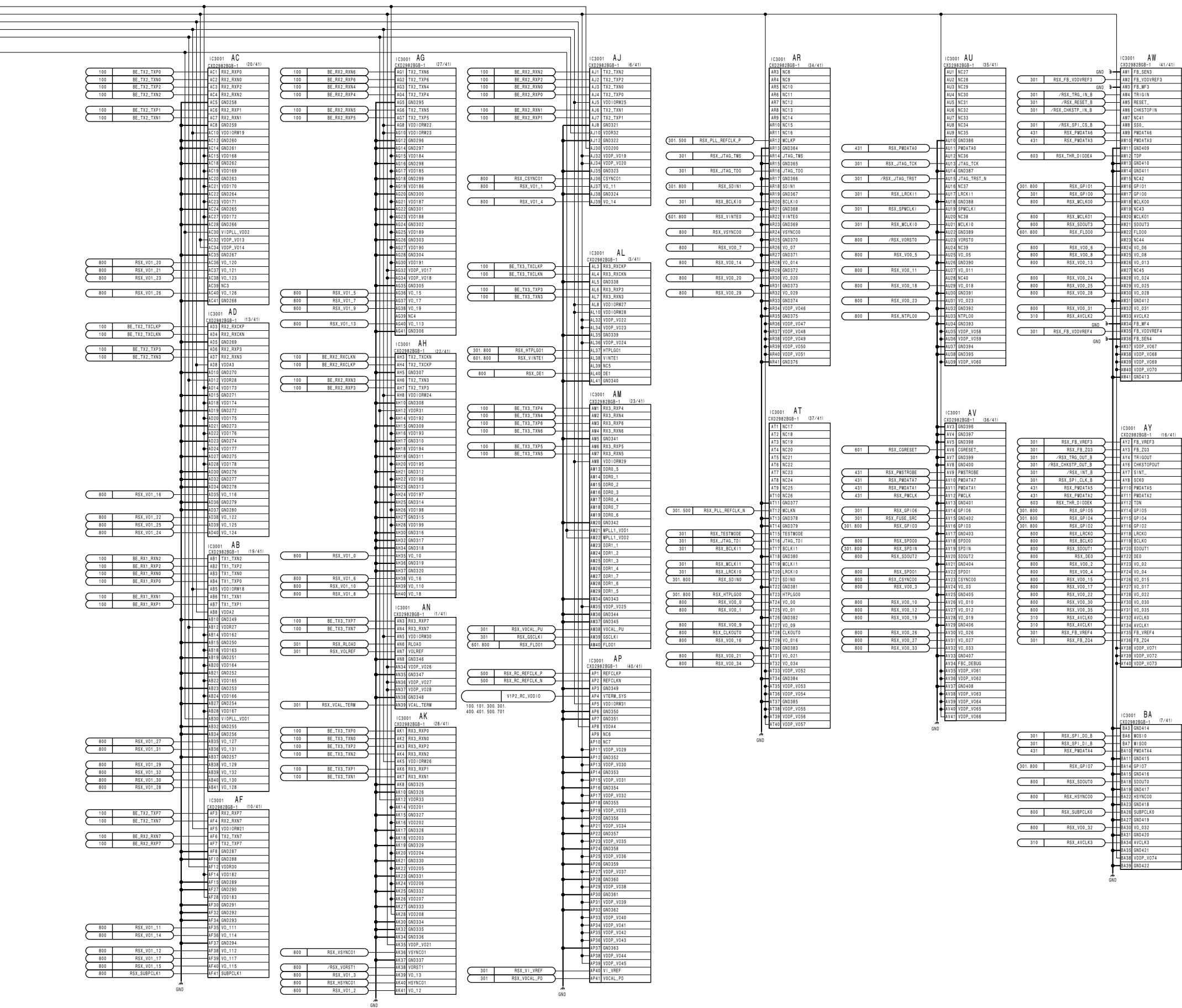
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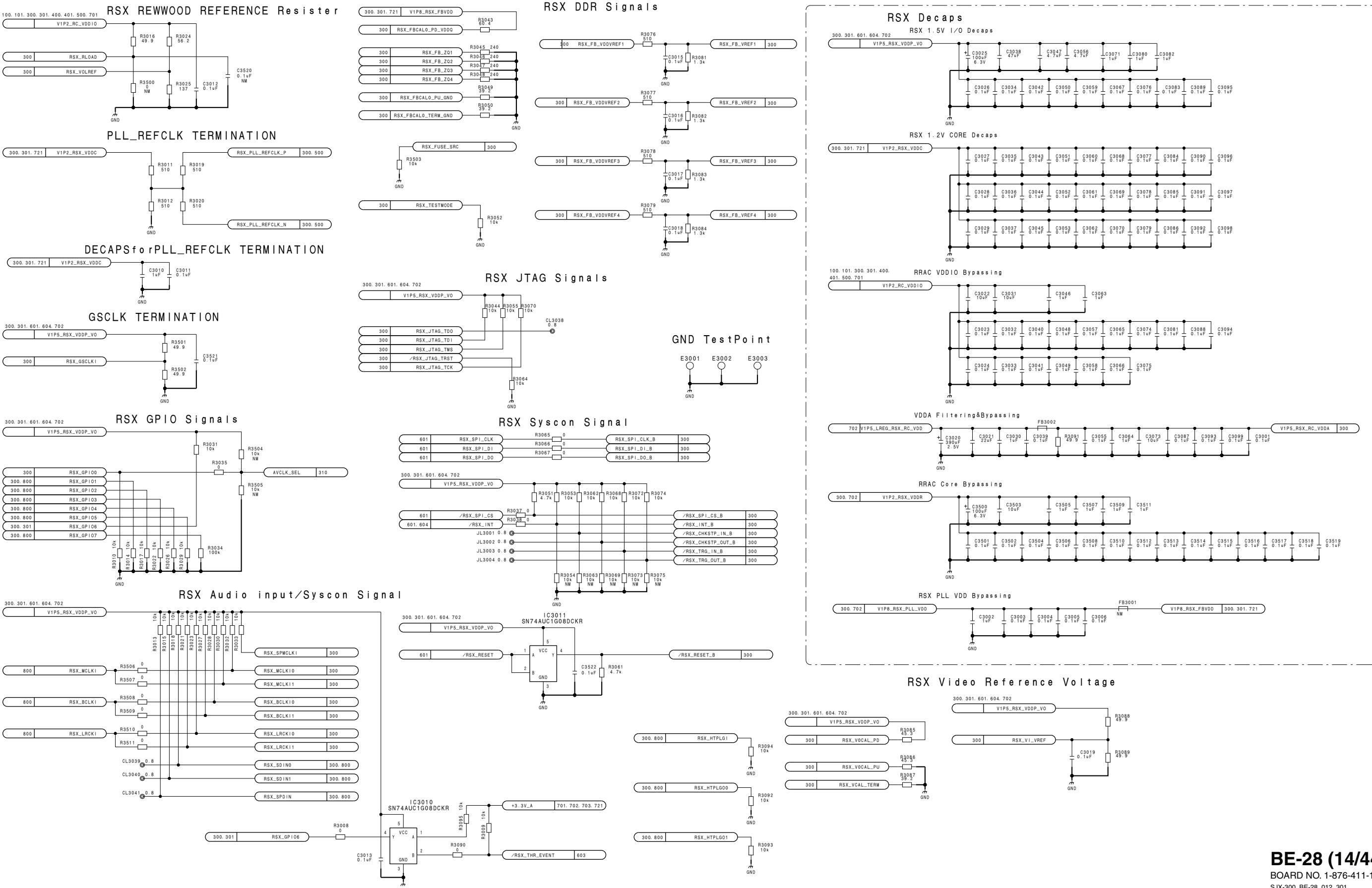
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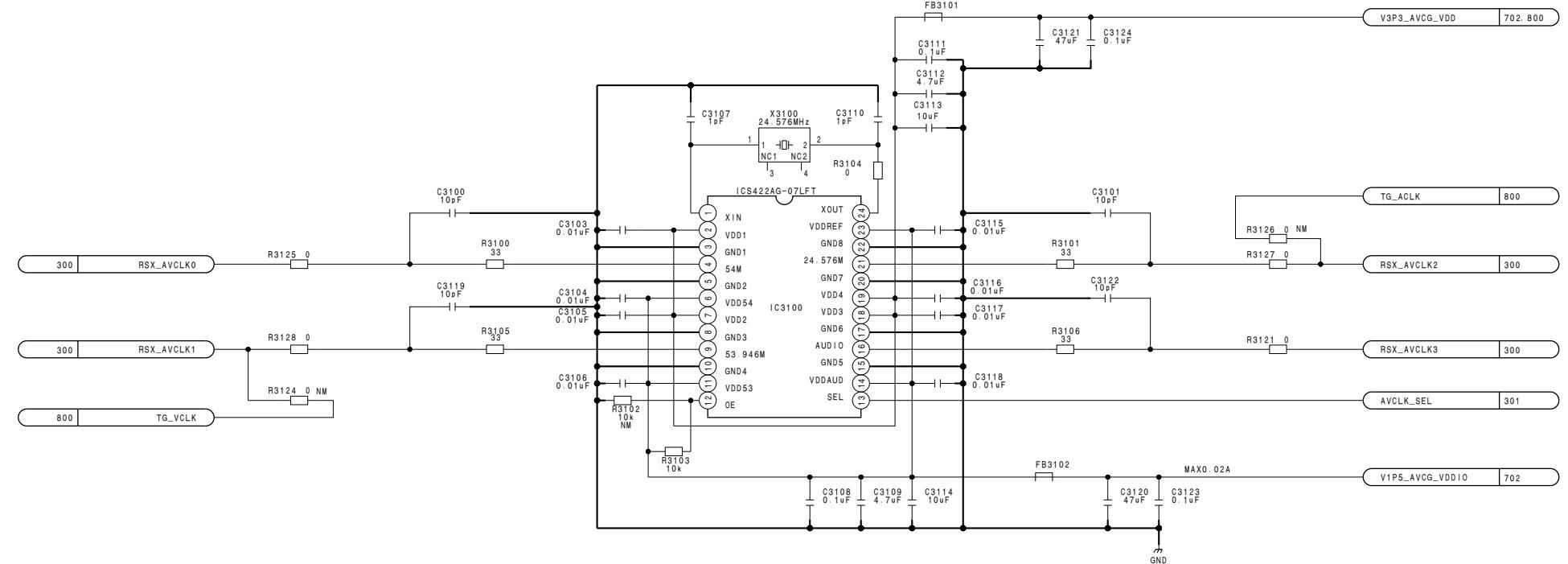
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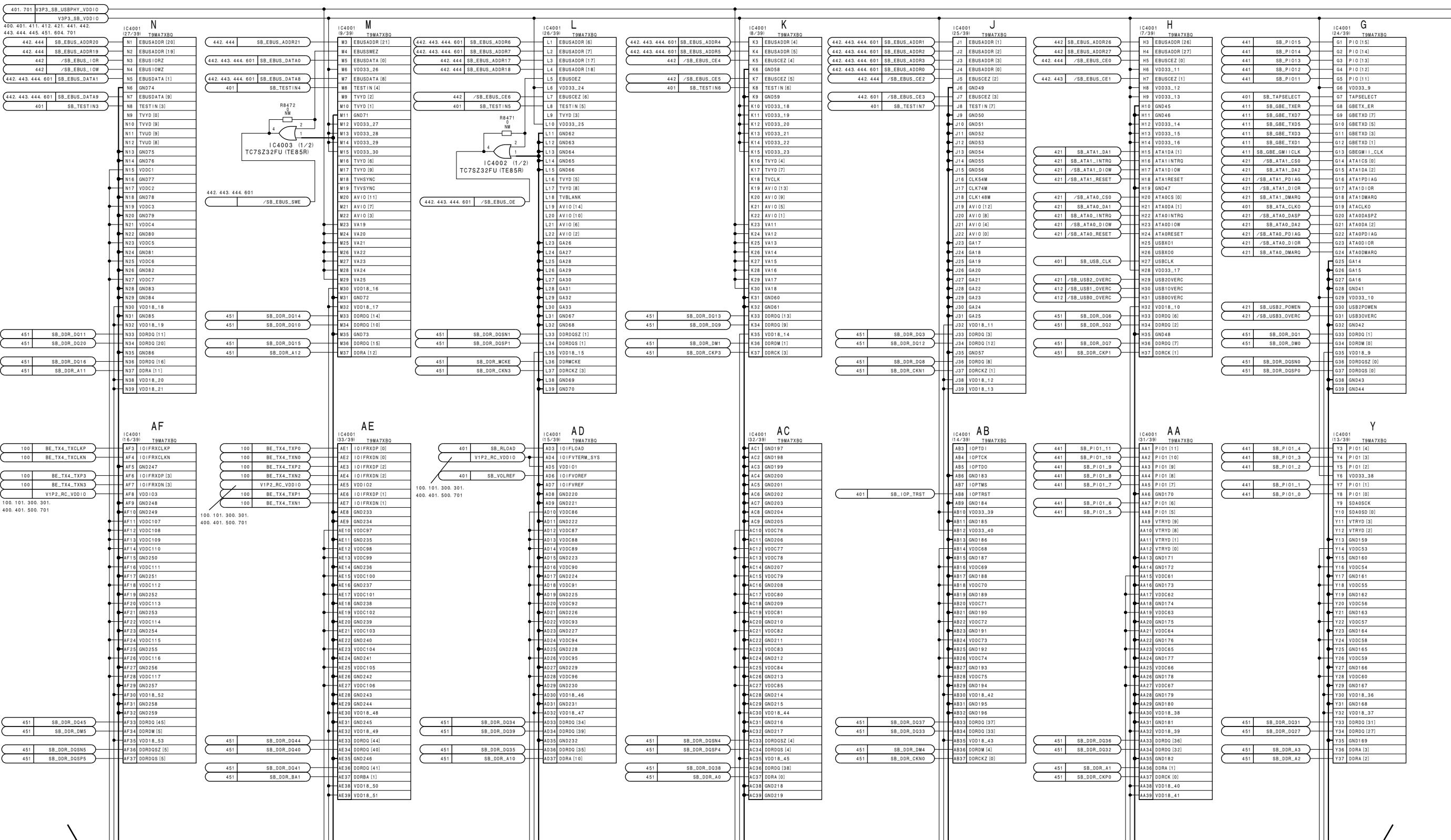




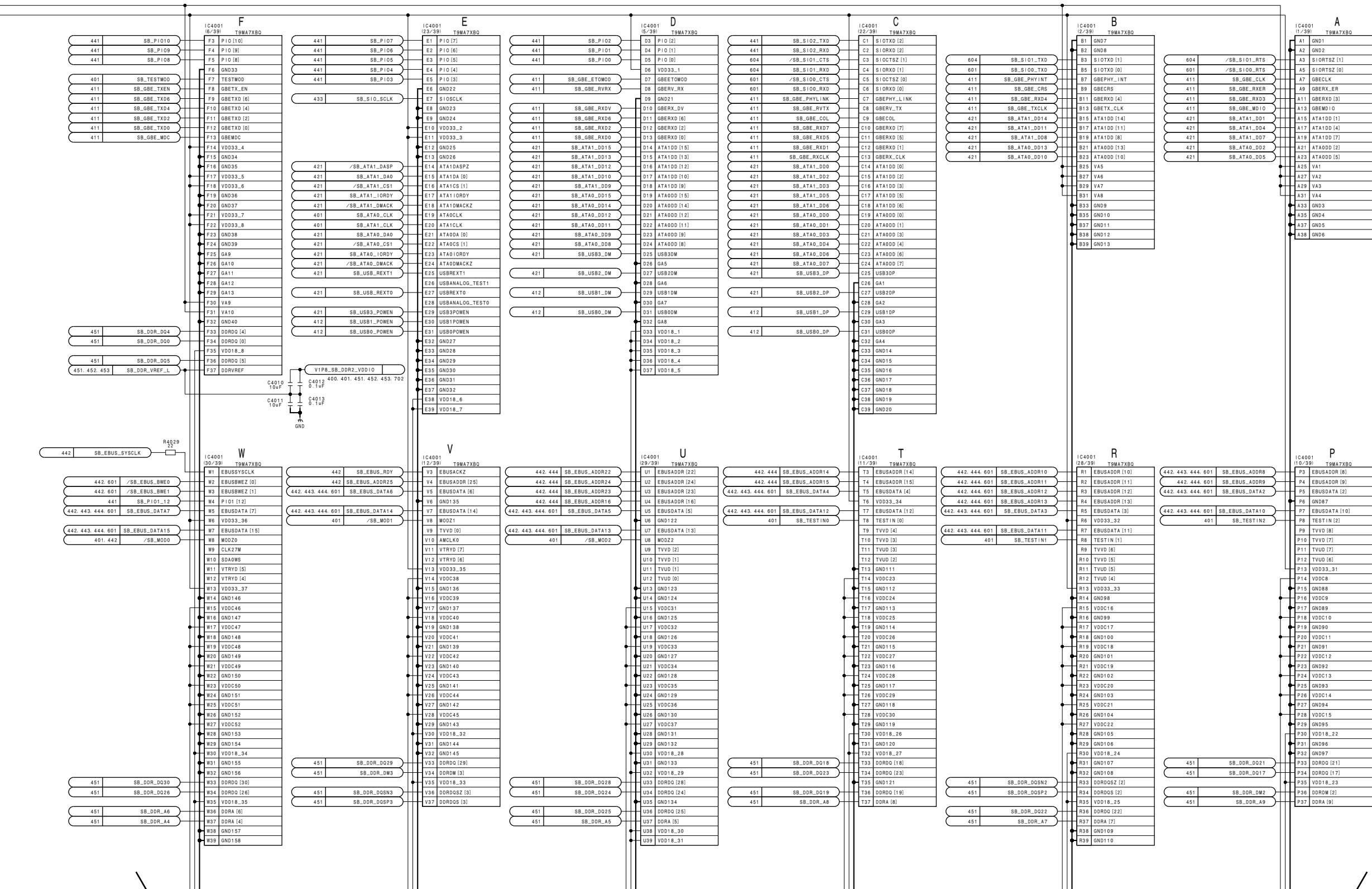


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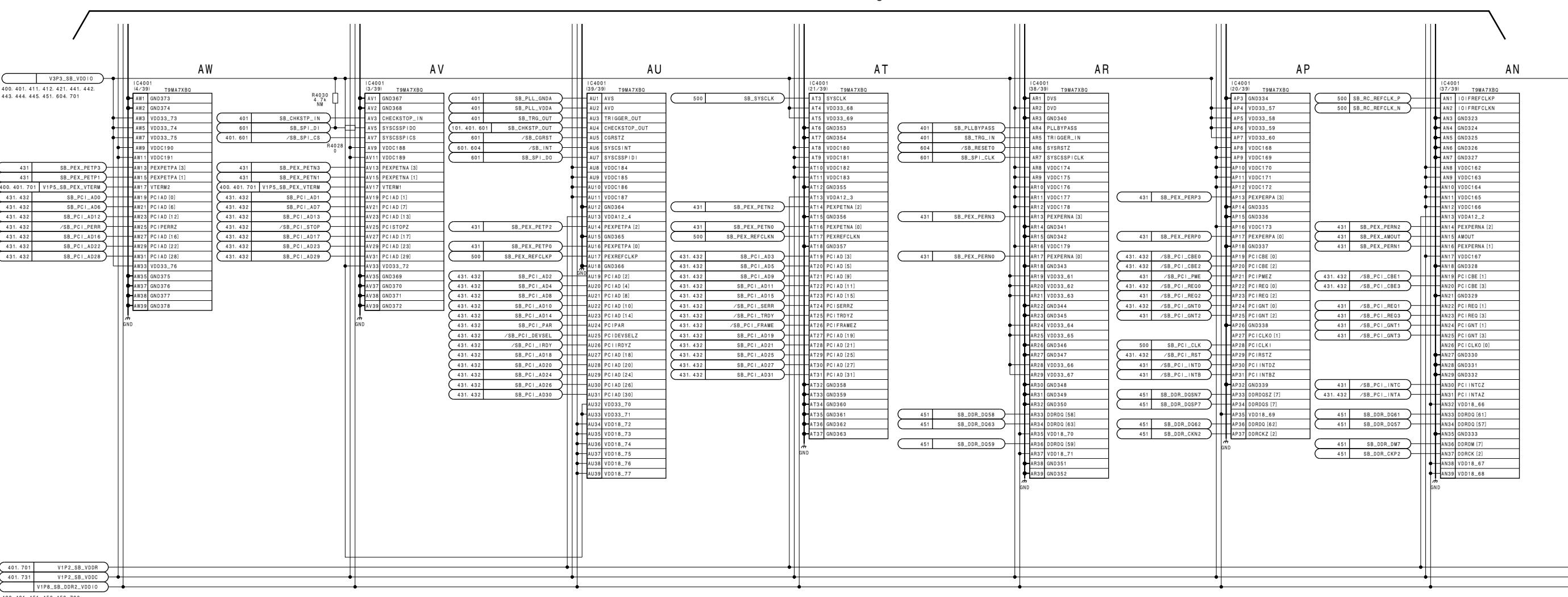


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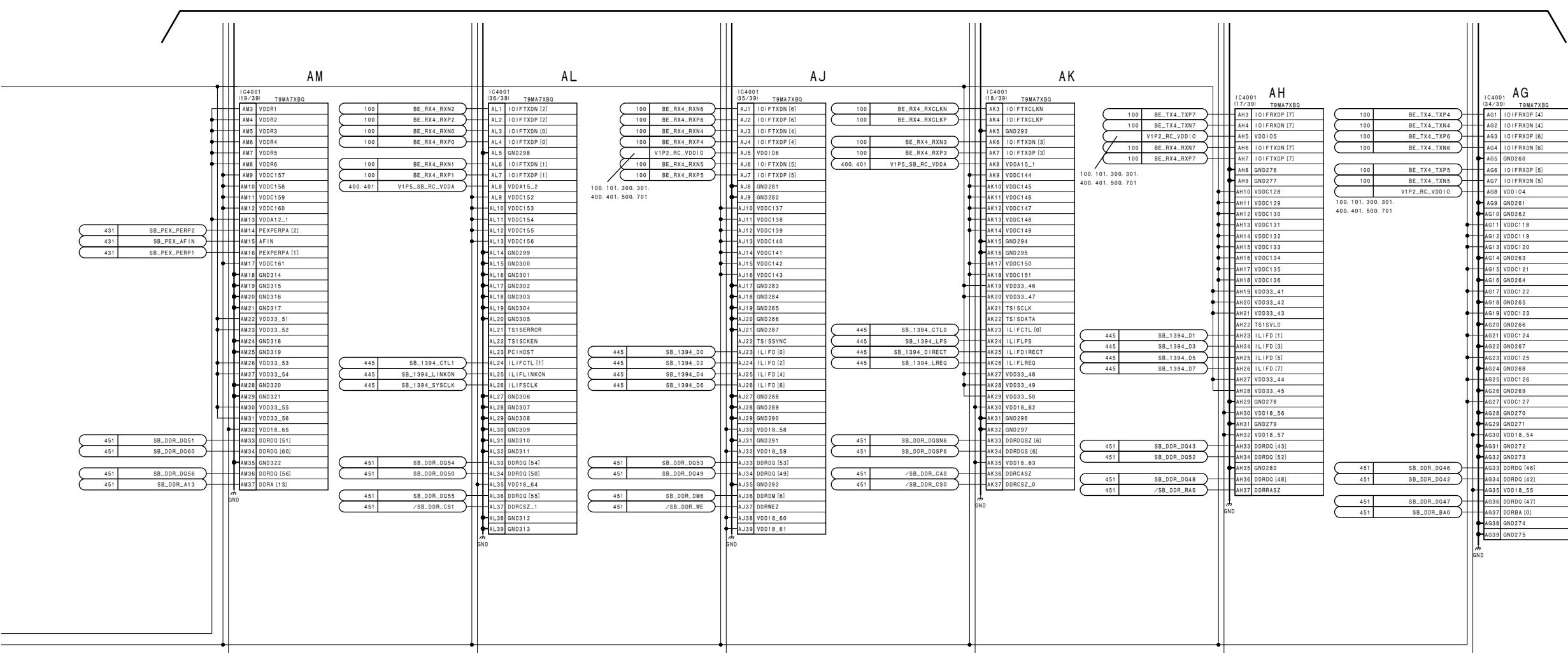


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(A) Refer to
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(B) Refer to
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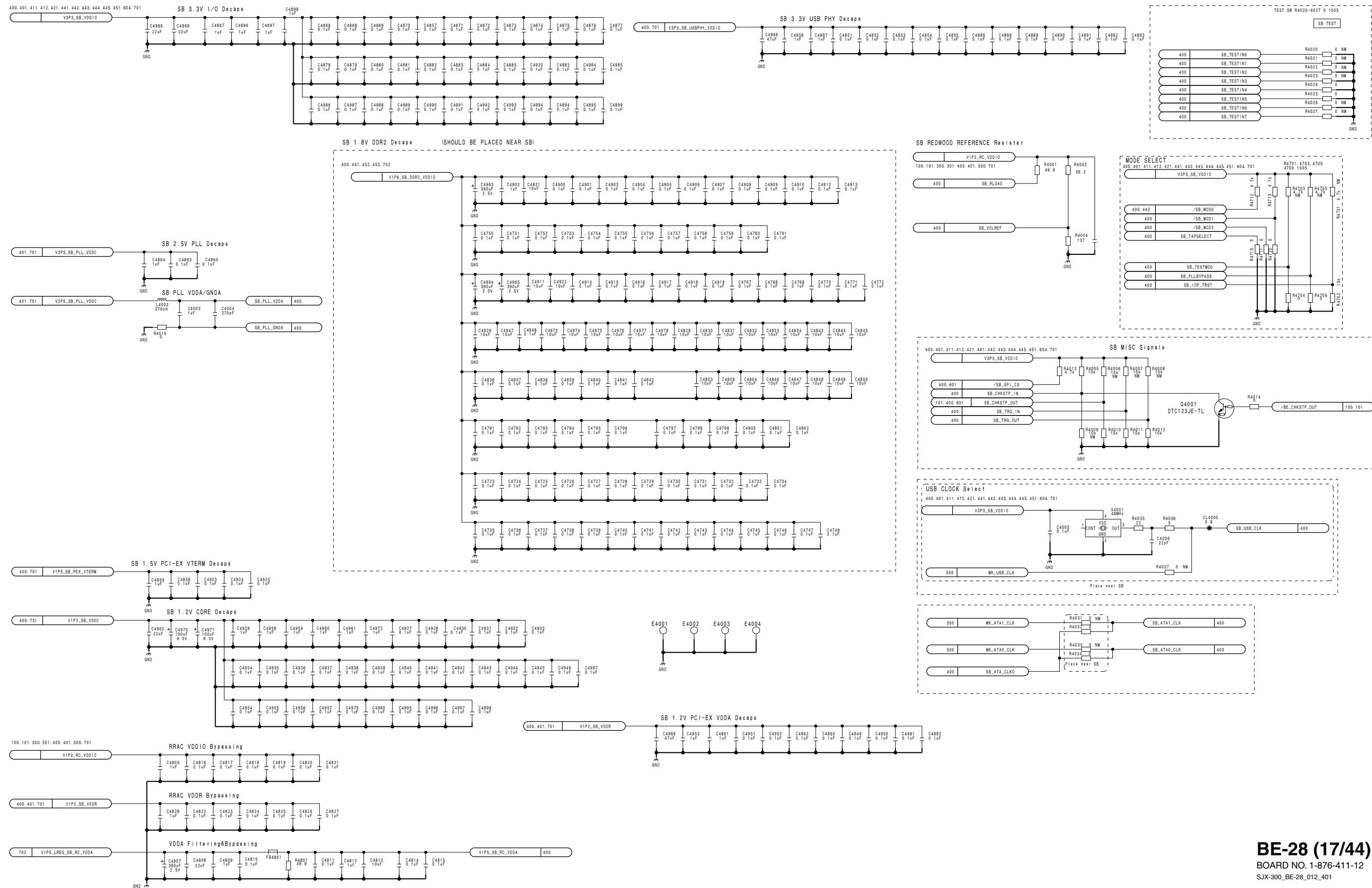
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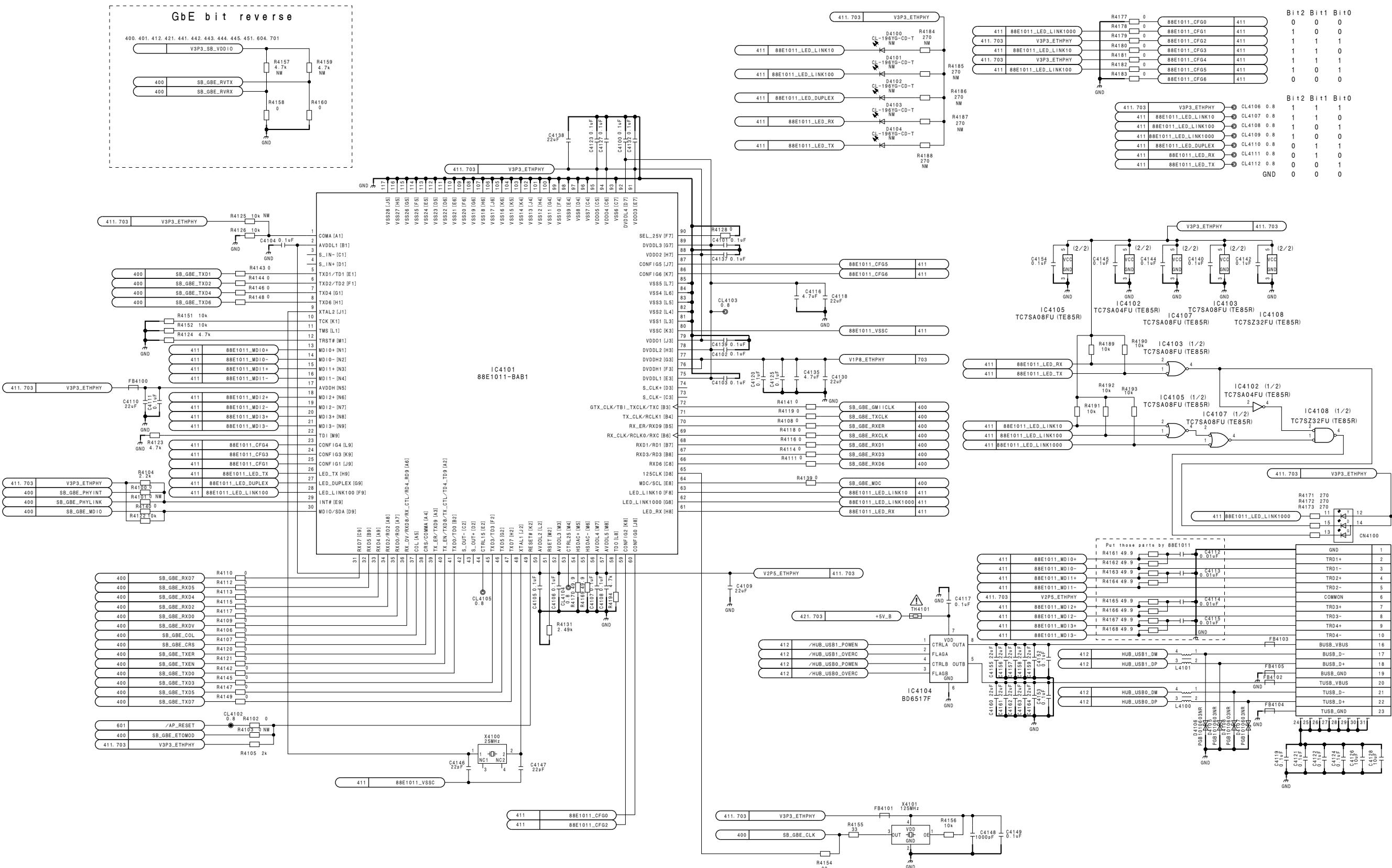
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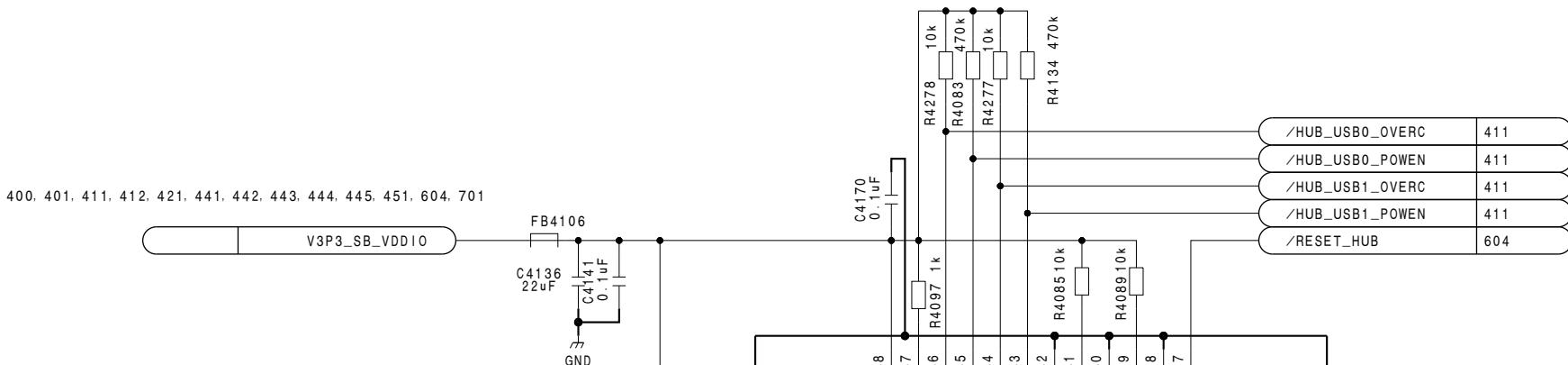
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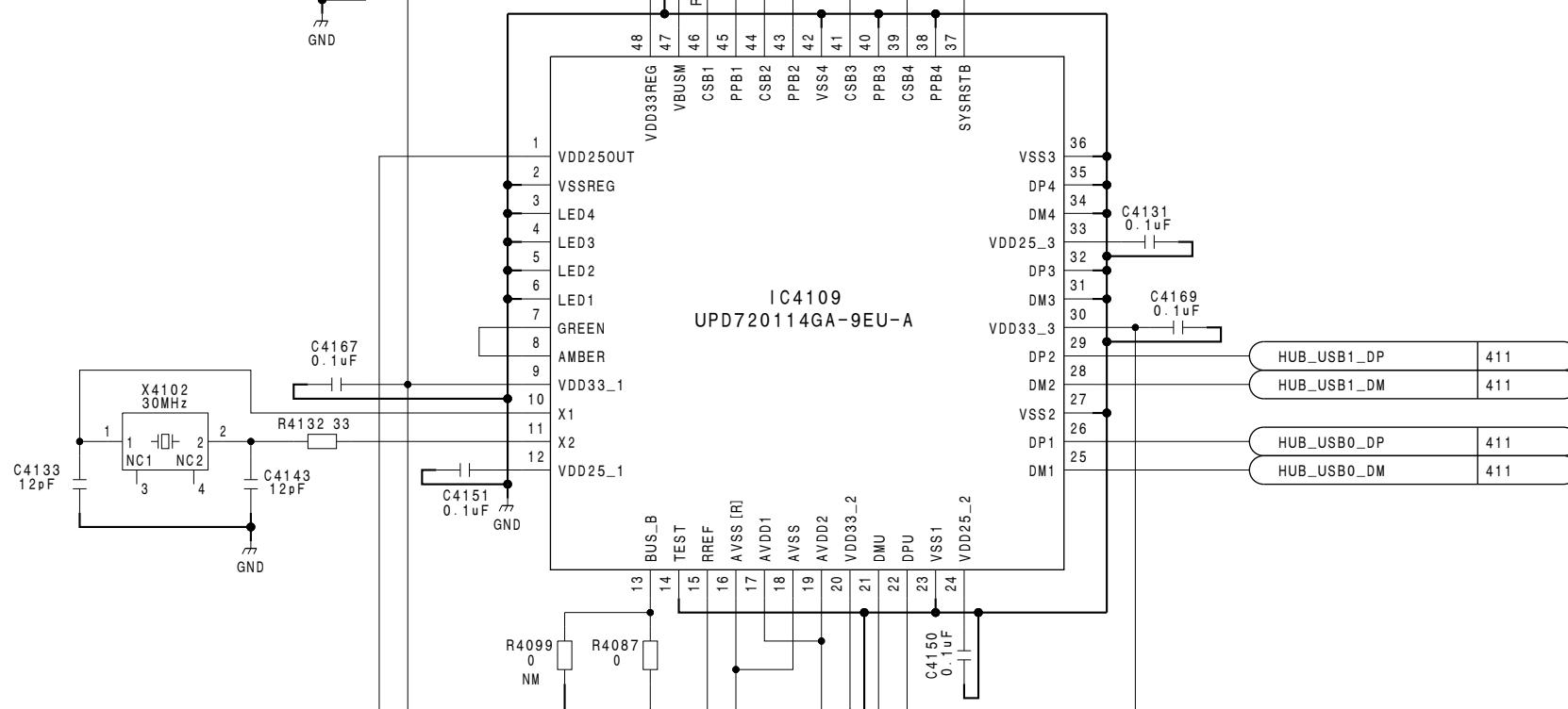




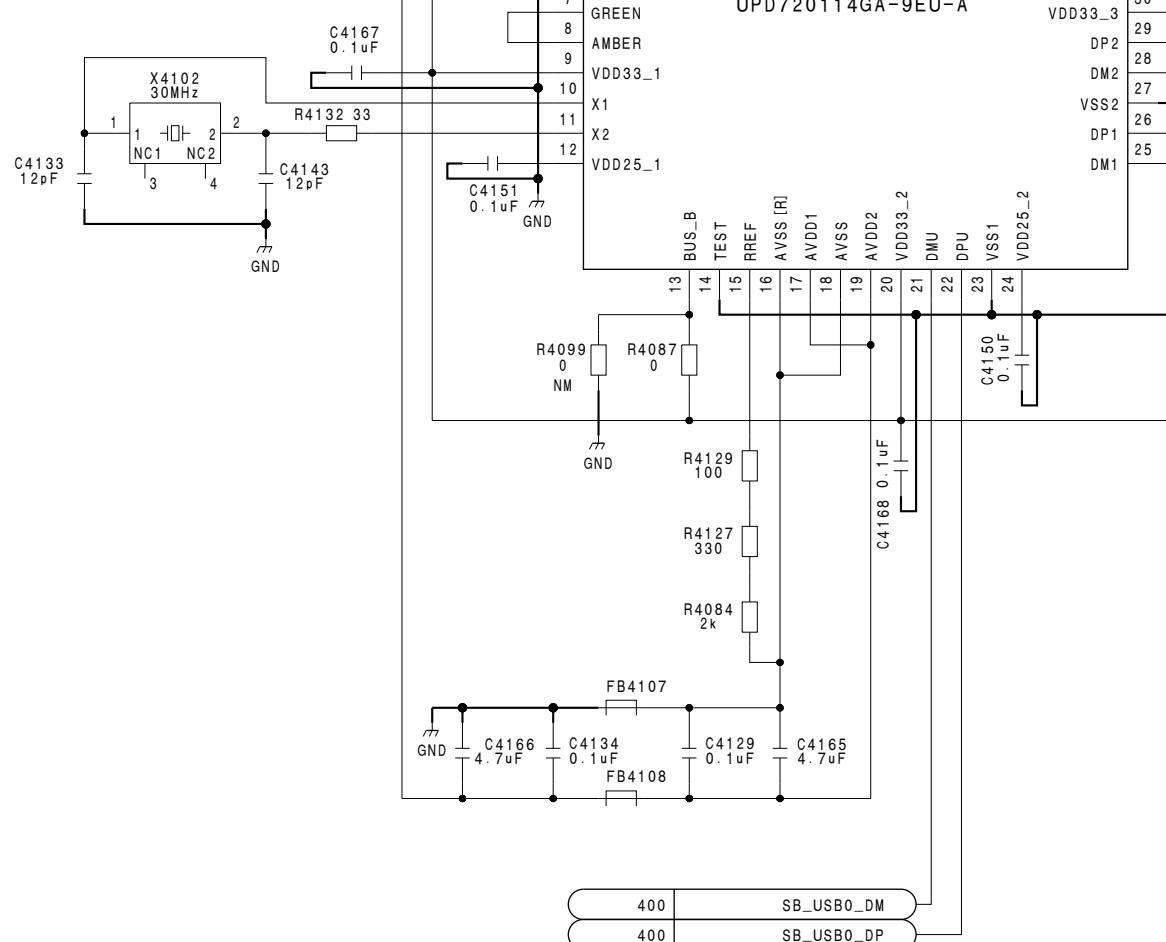
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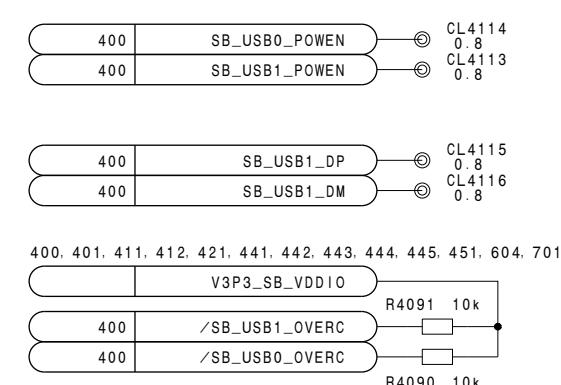
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5-28

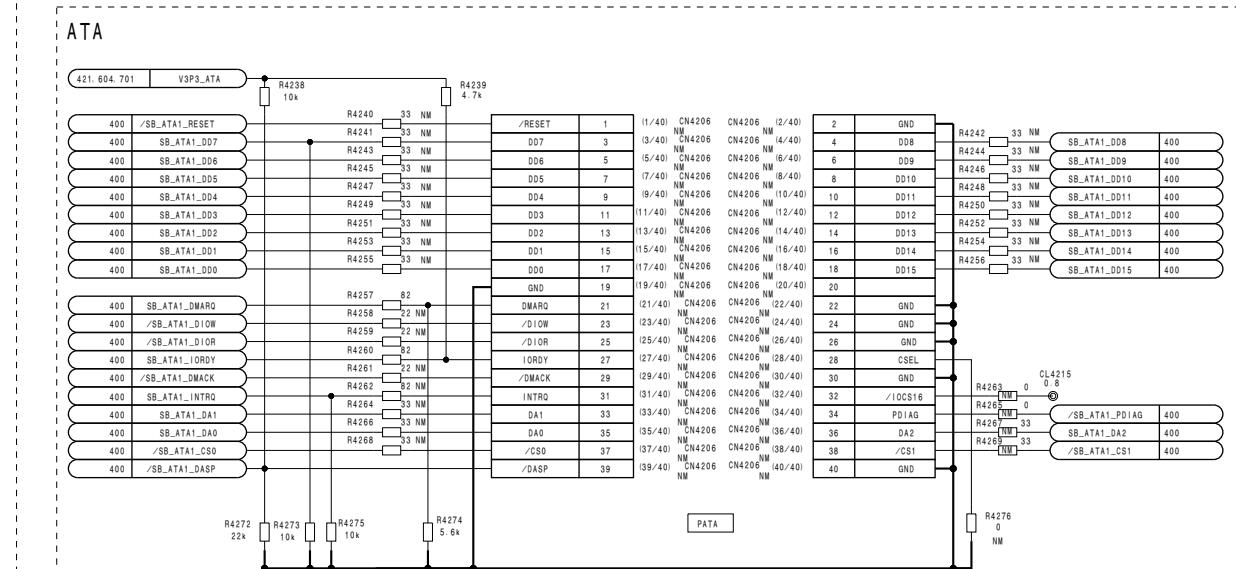
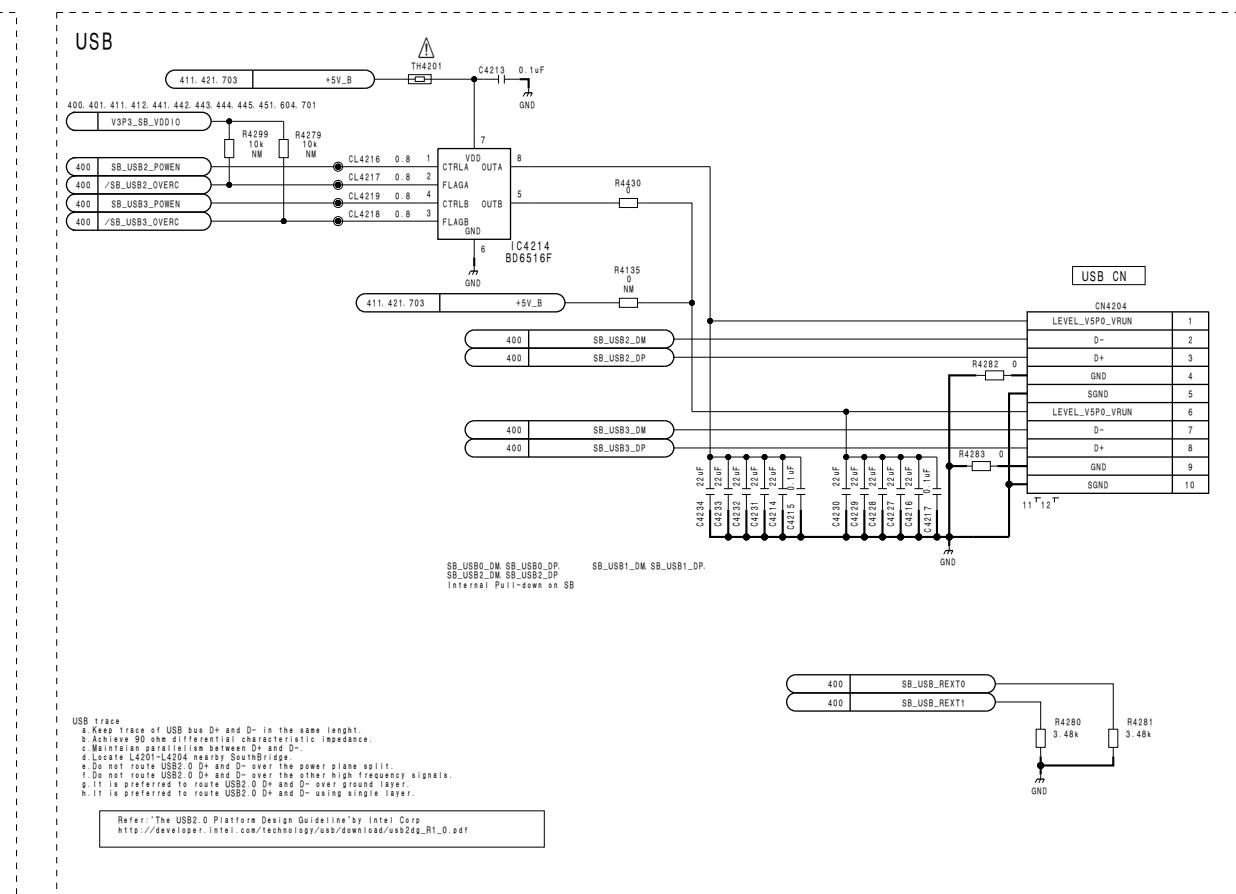
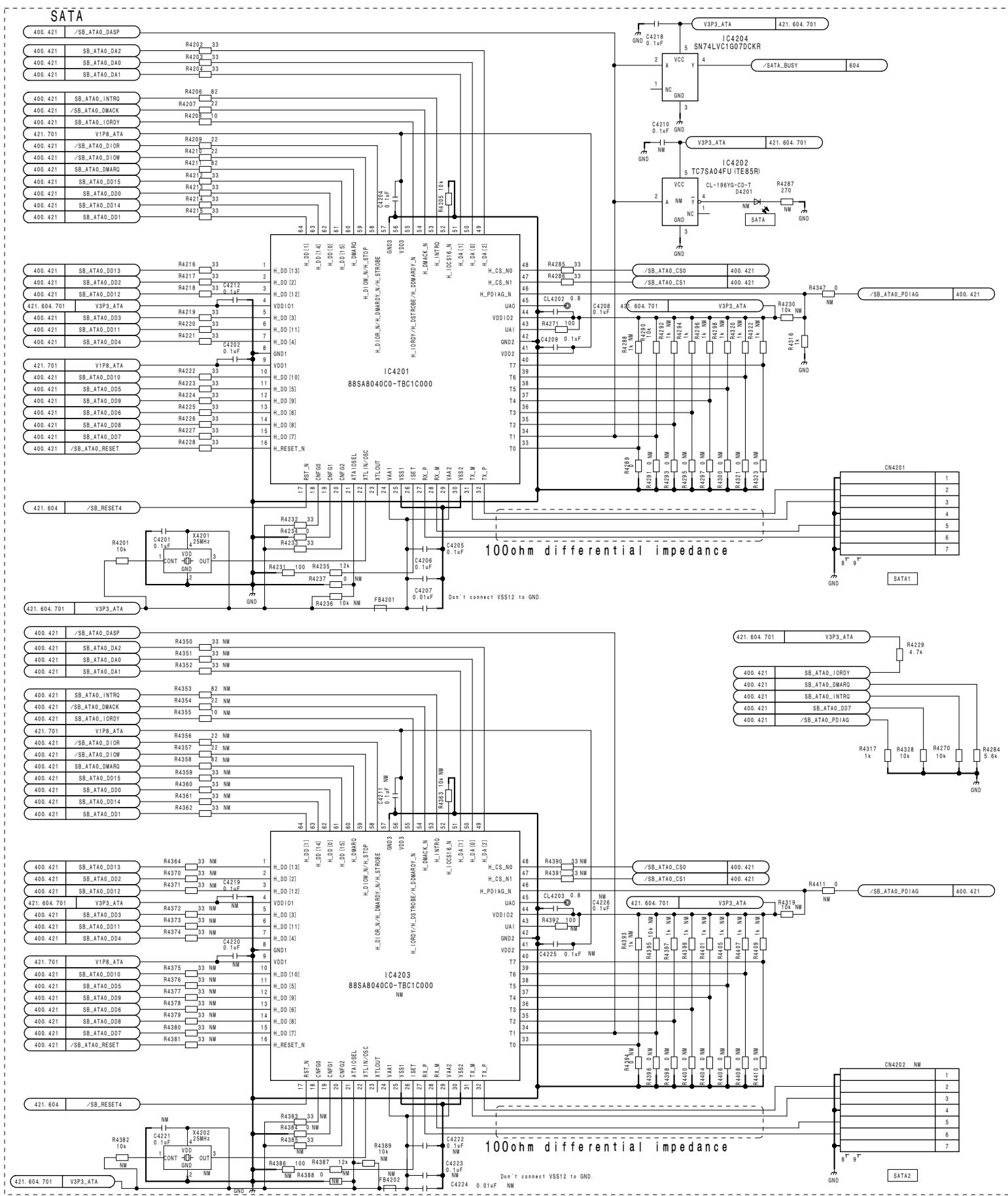
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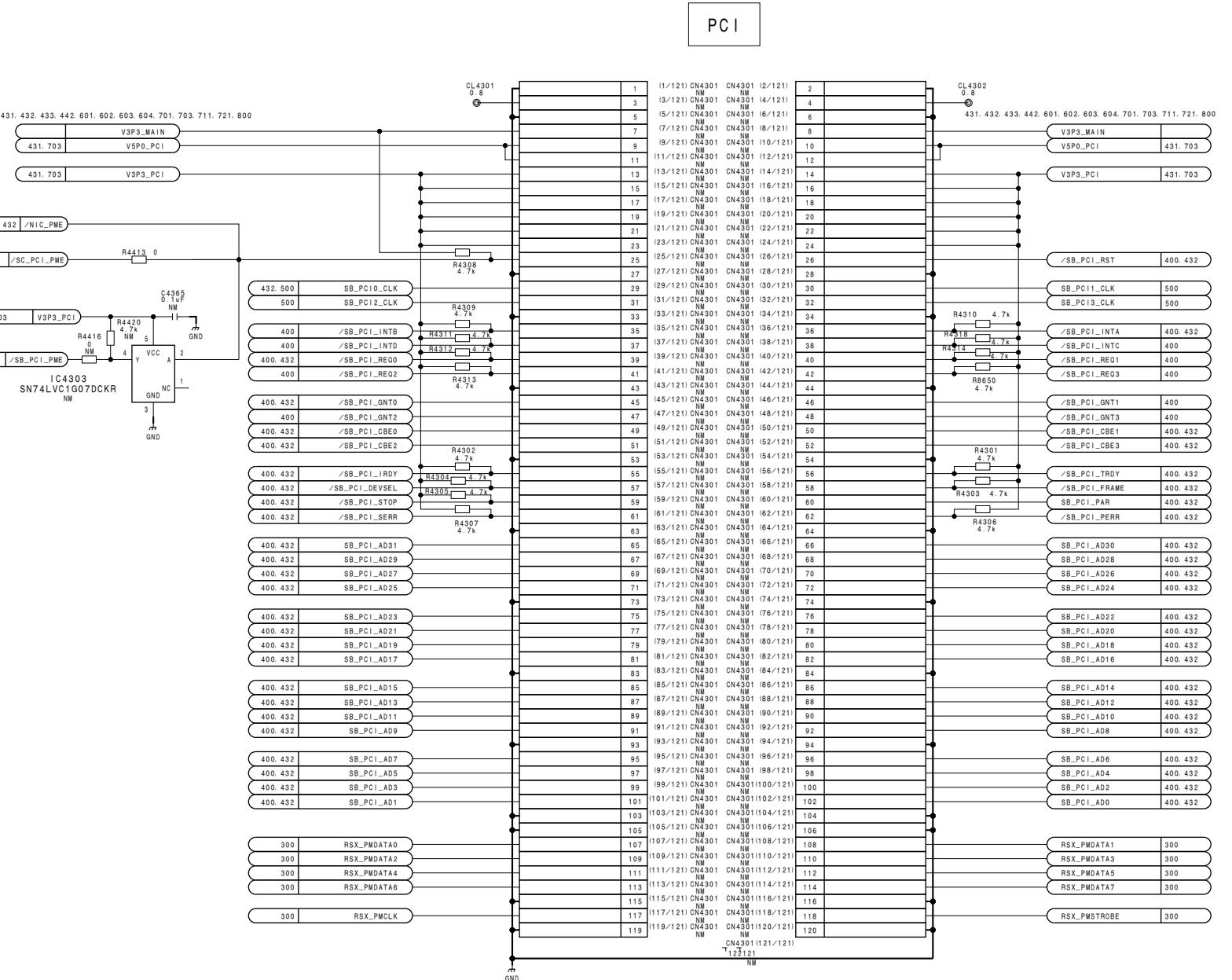
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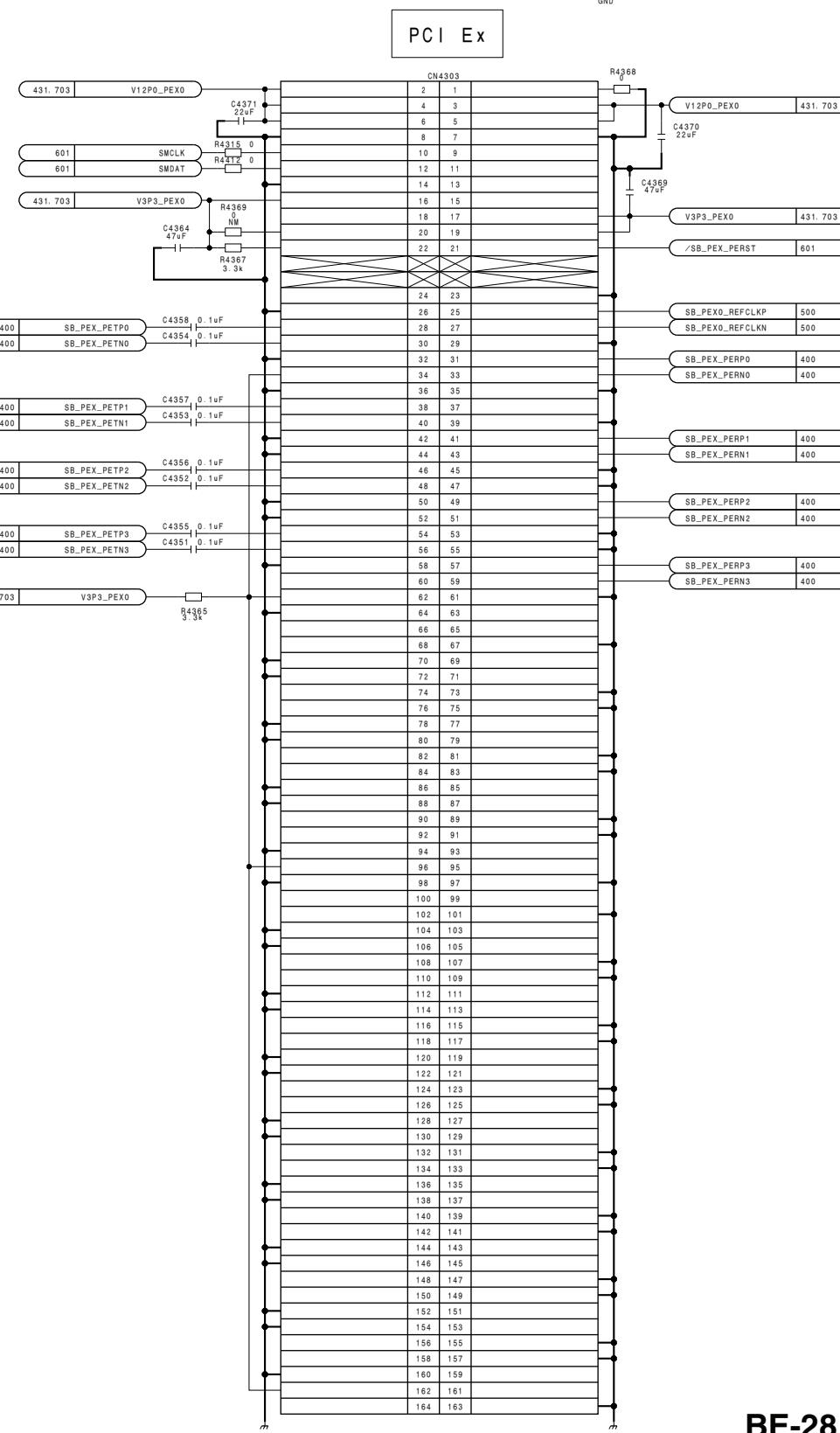
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1



2



3

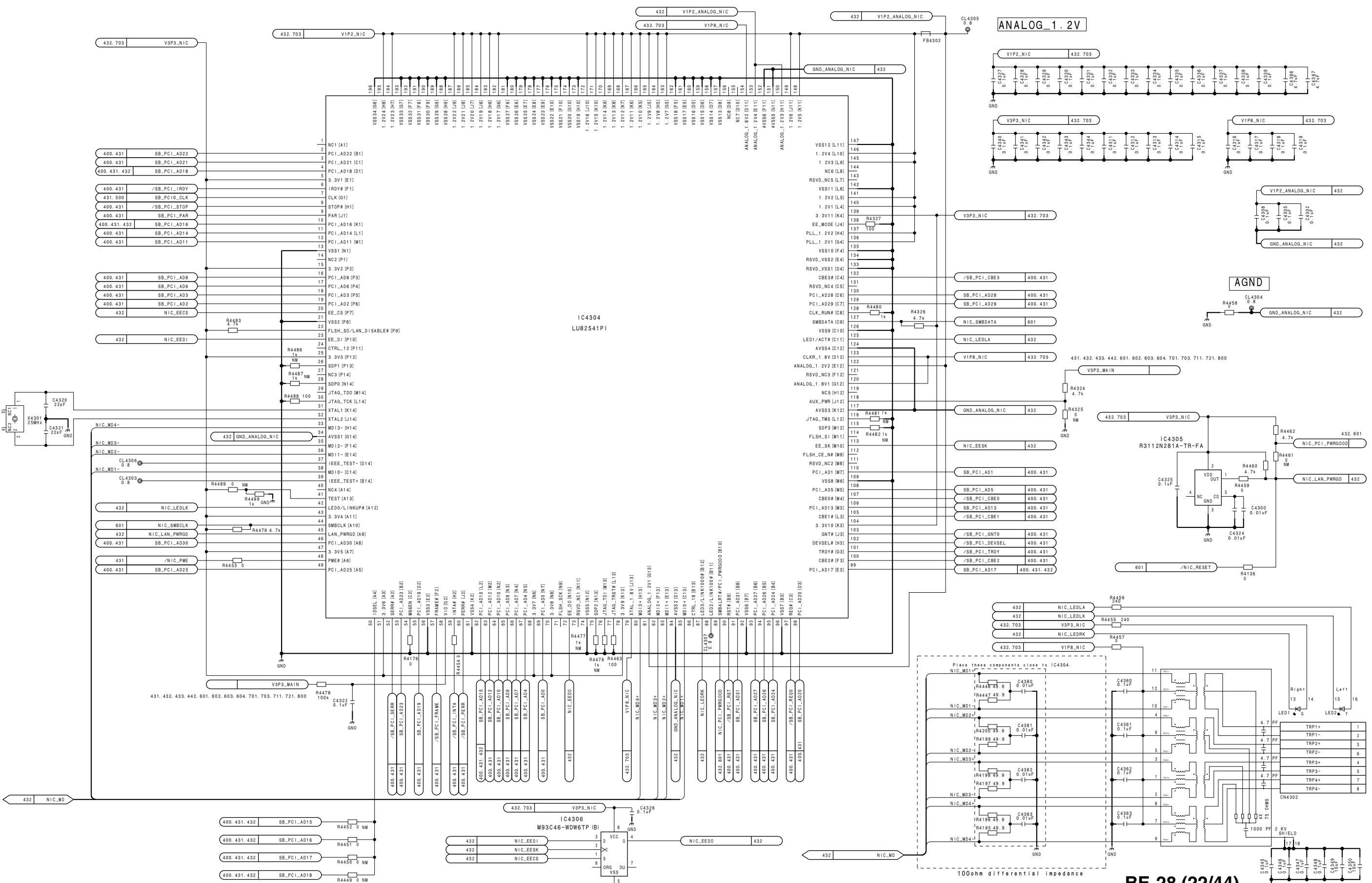
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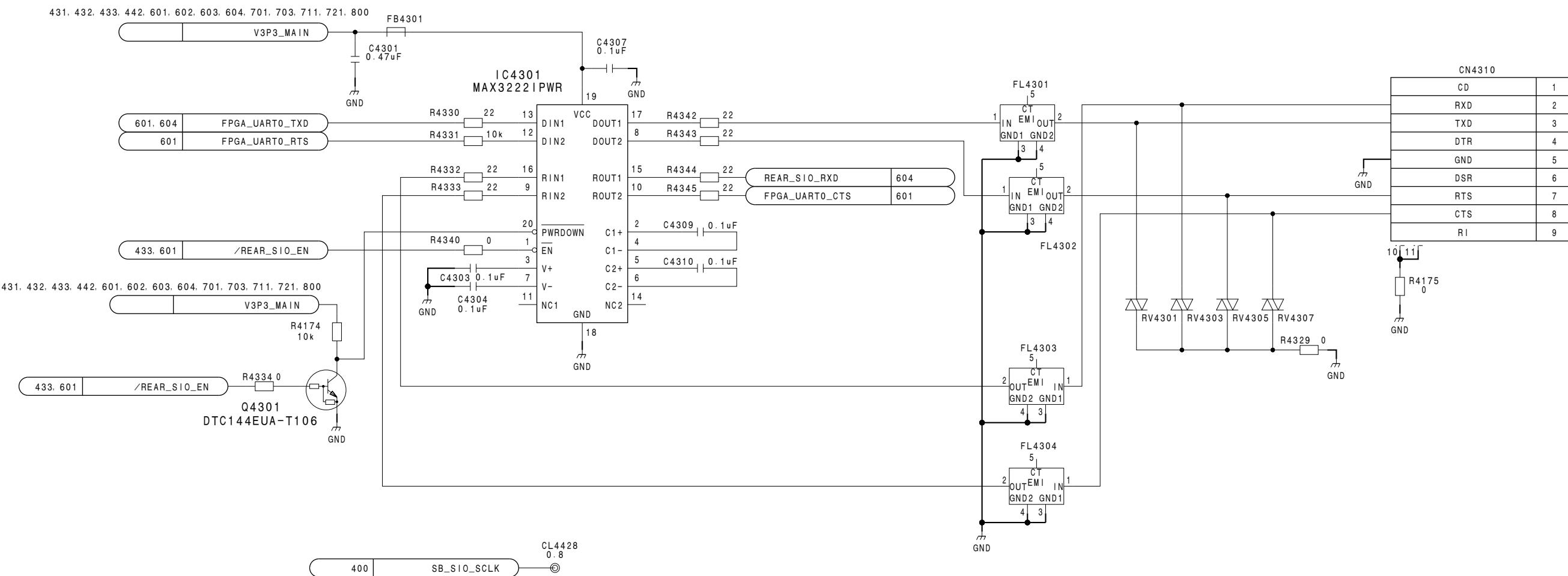
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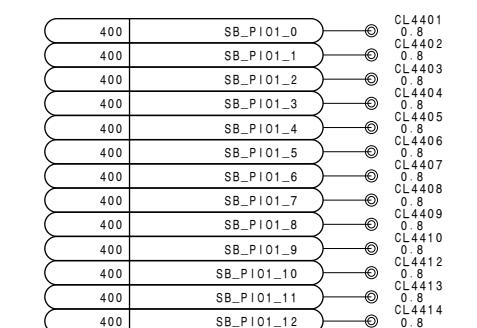
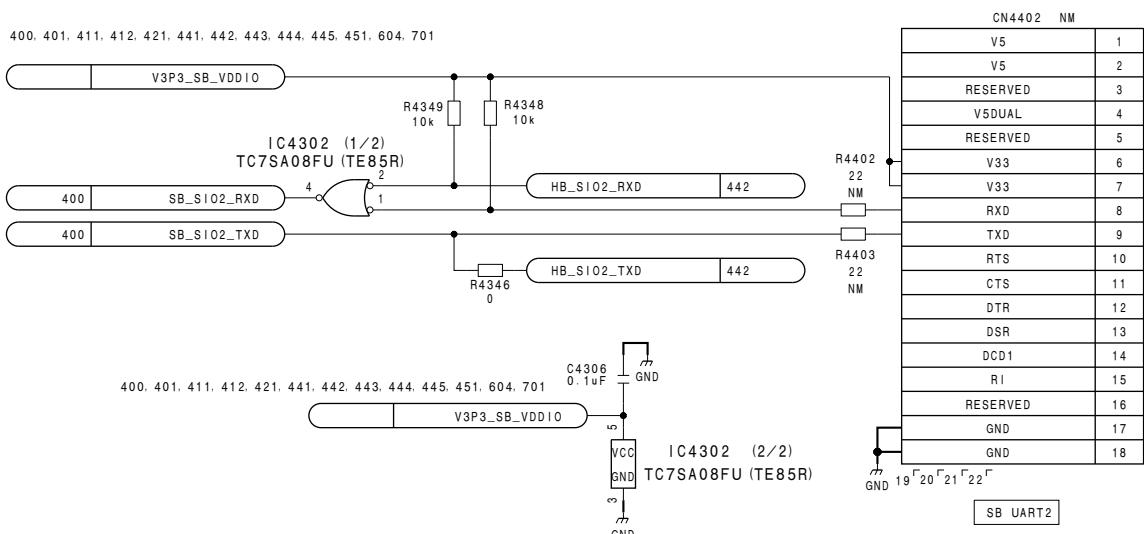
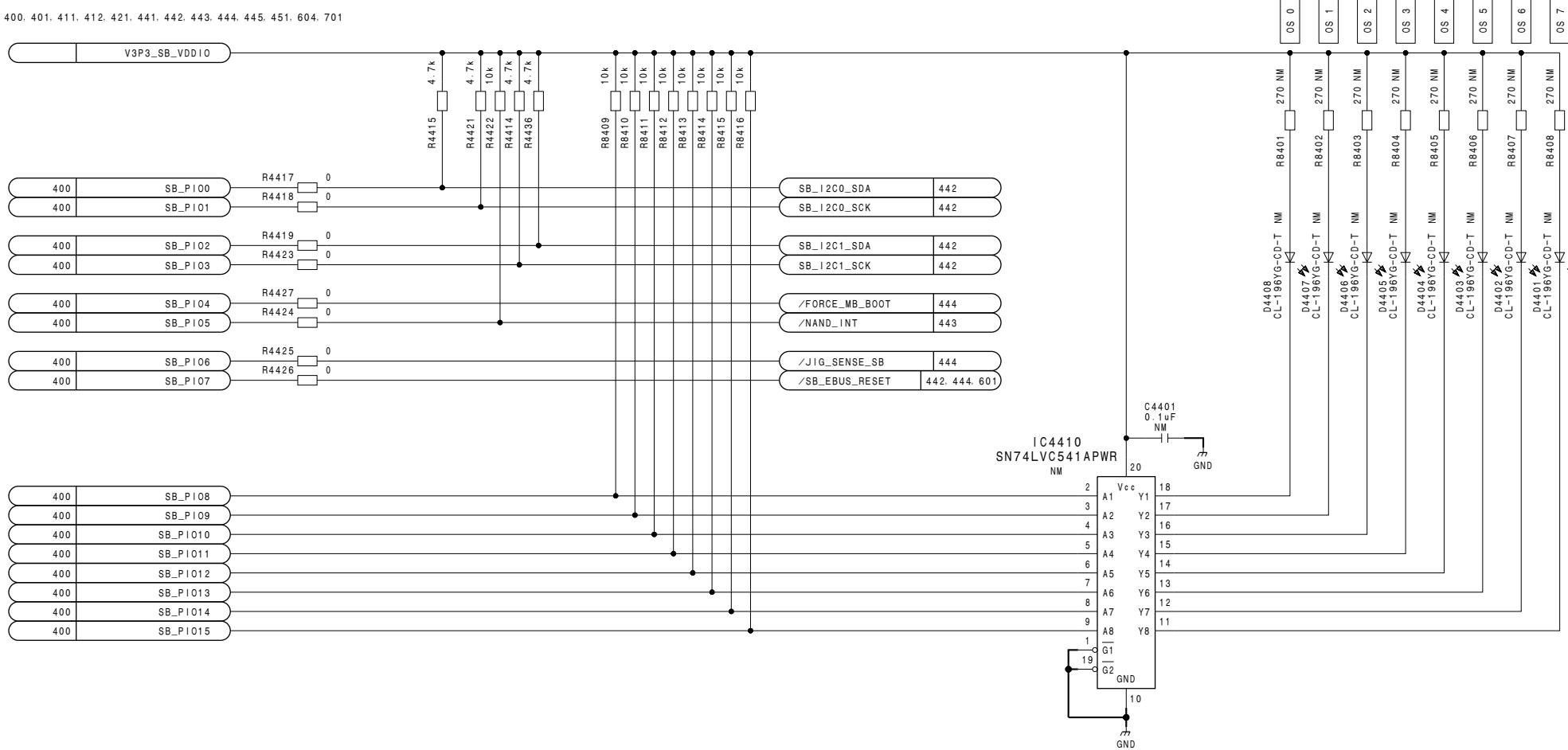
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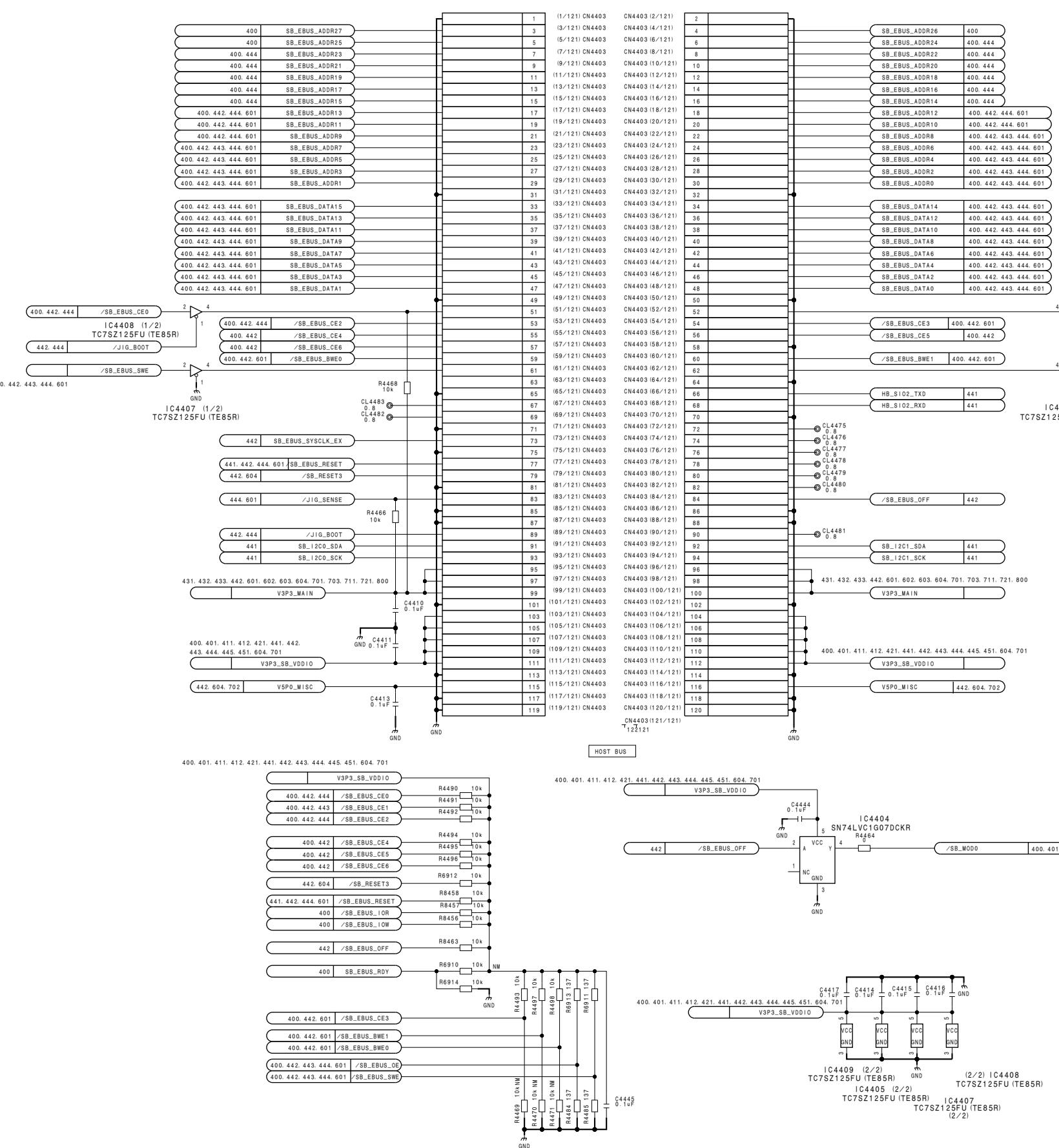
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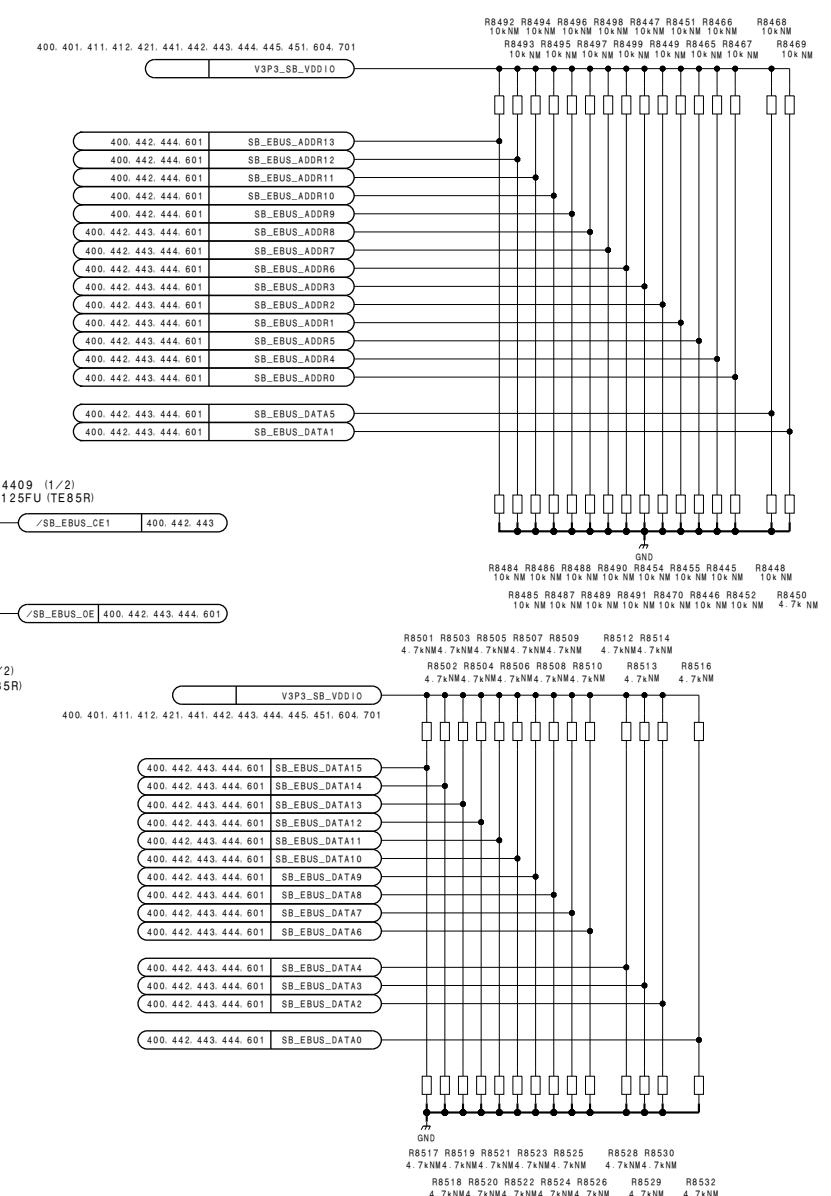




BE-28 (25/44)
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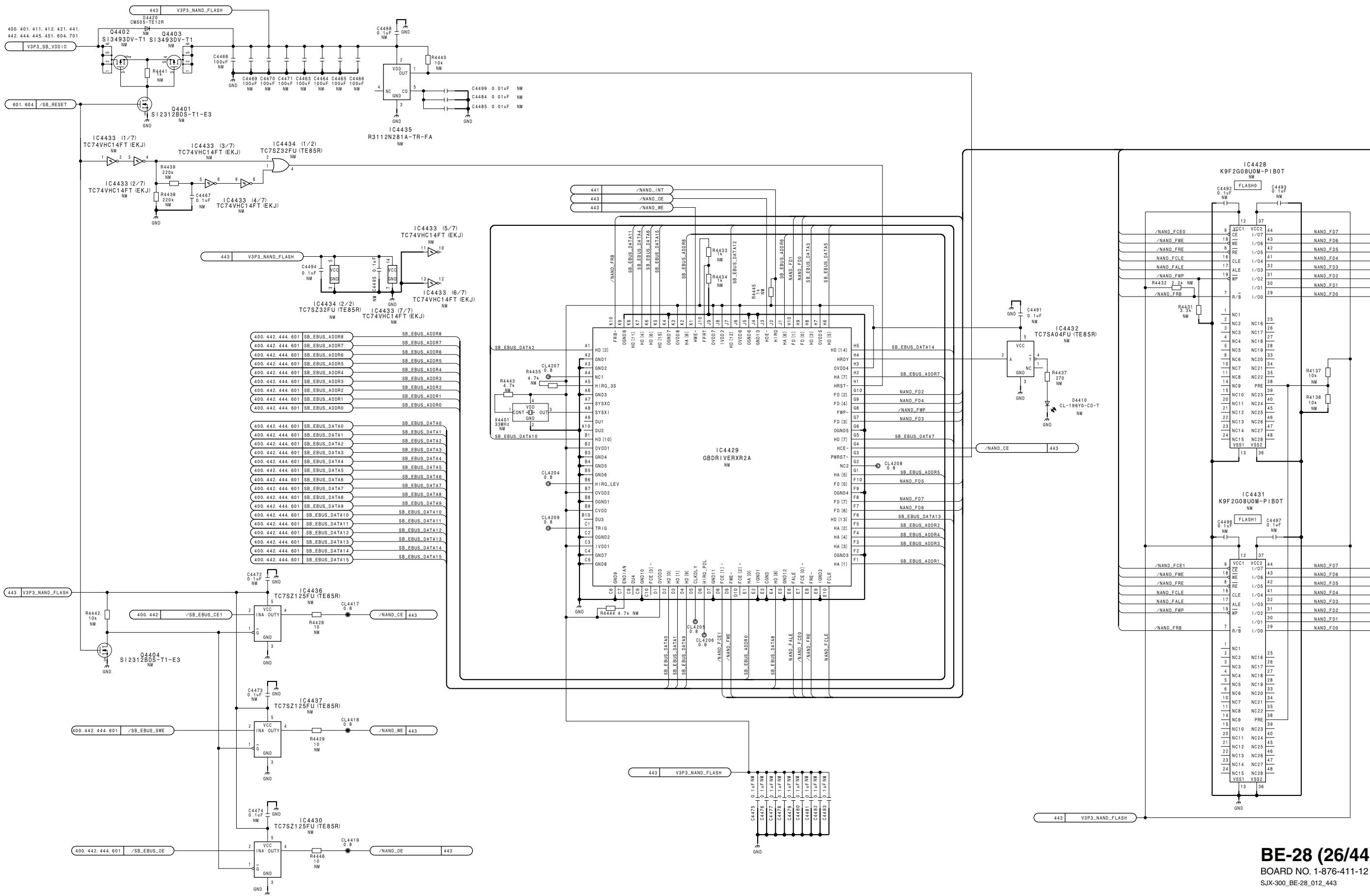


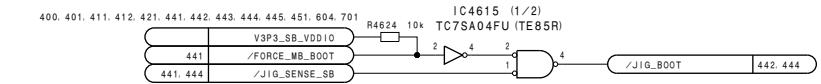
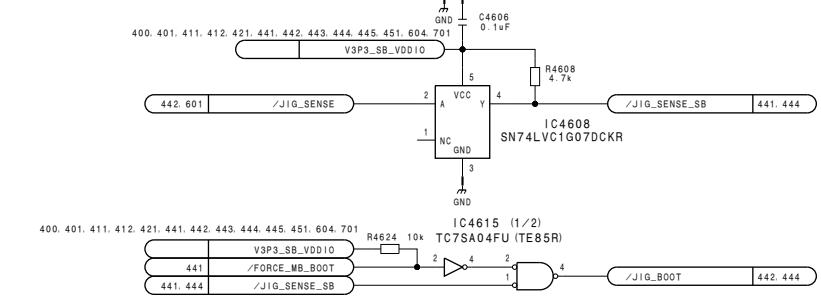
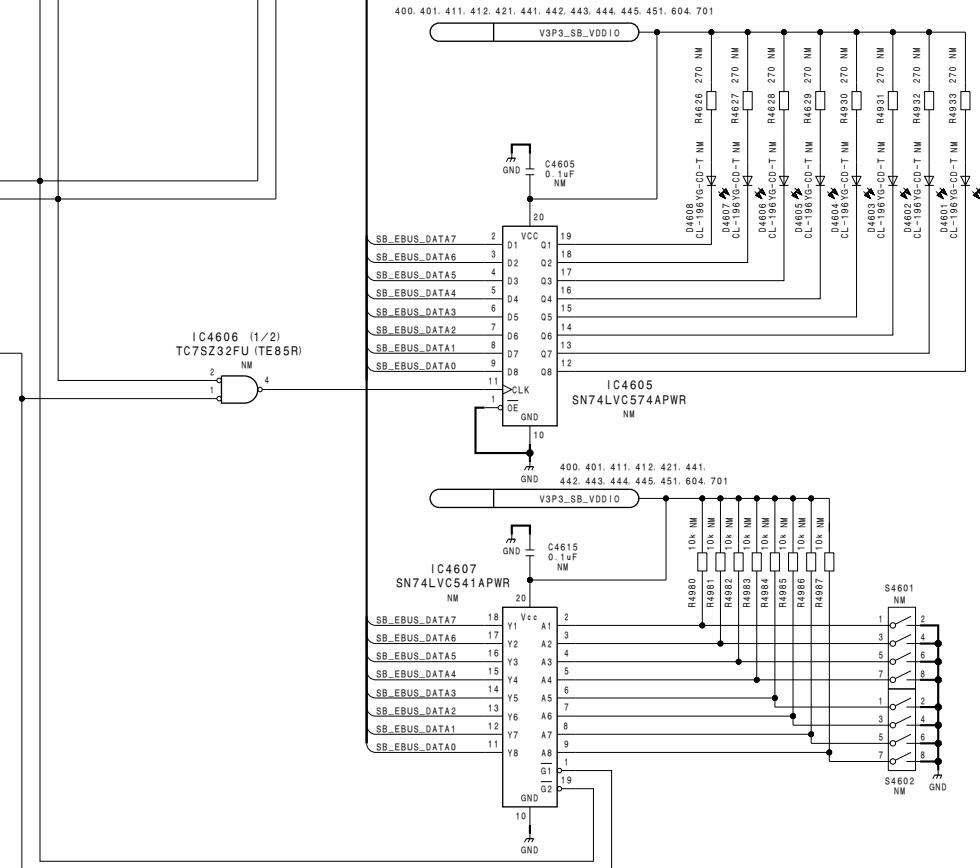
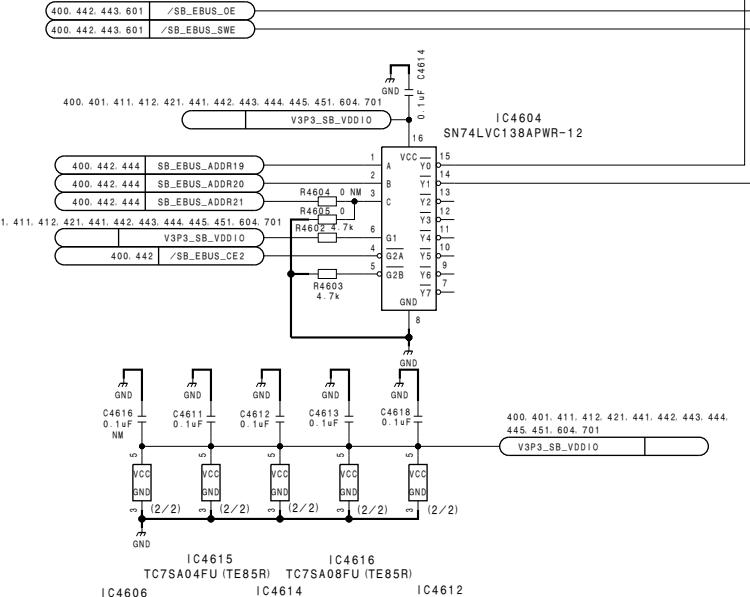
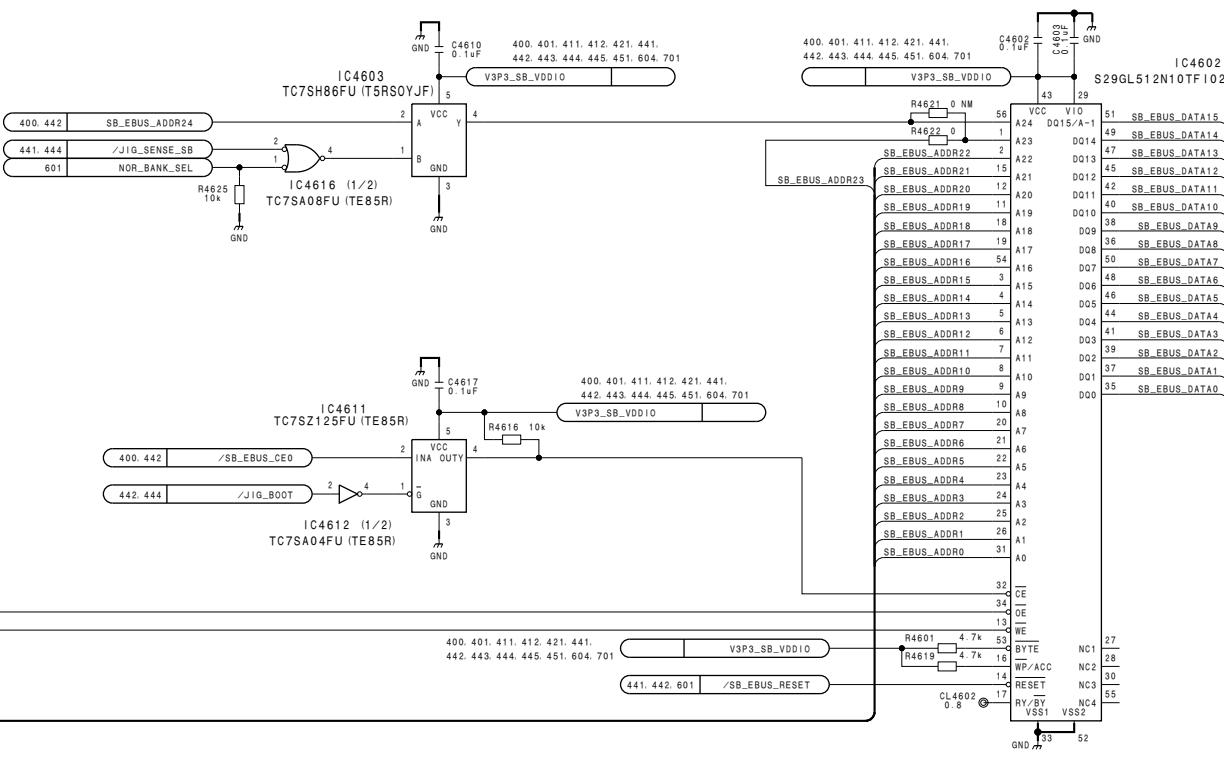
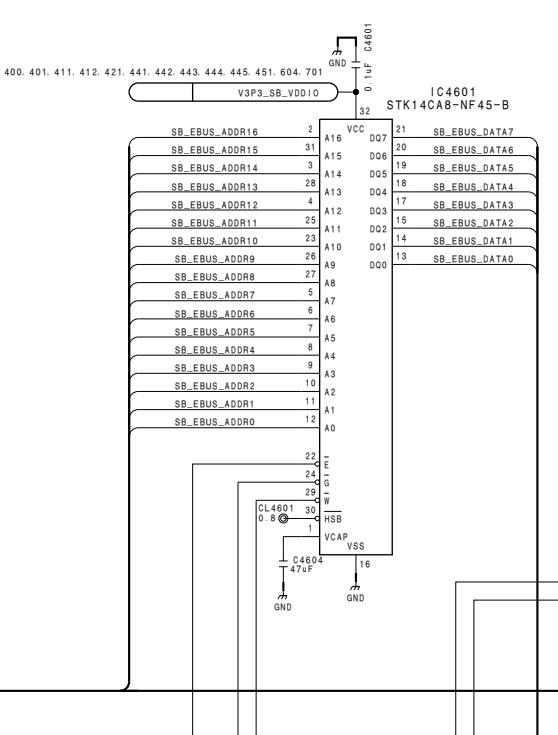
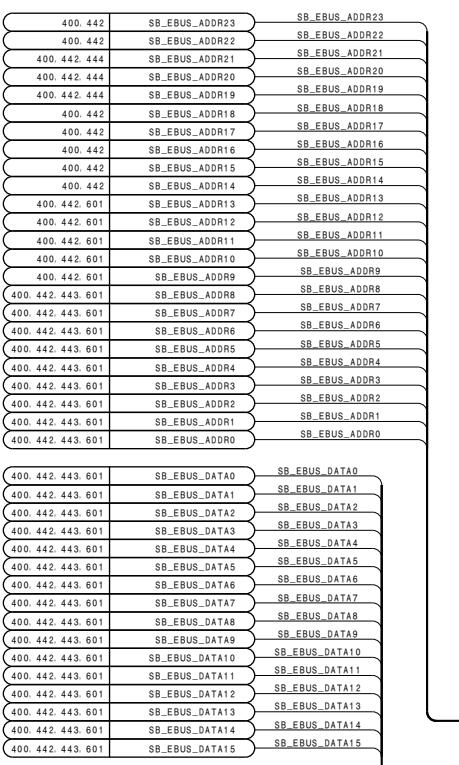
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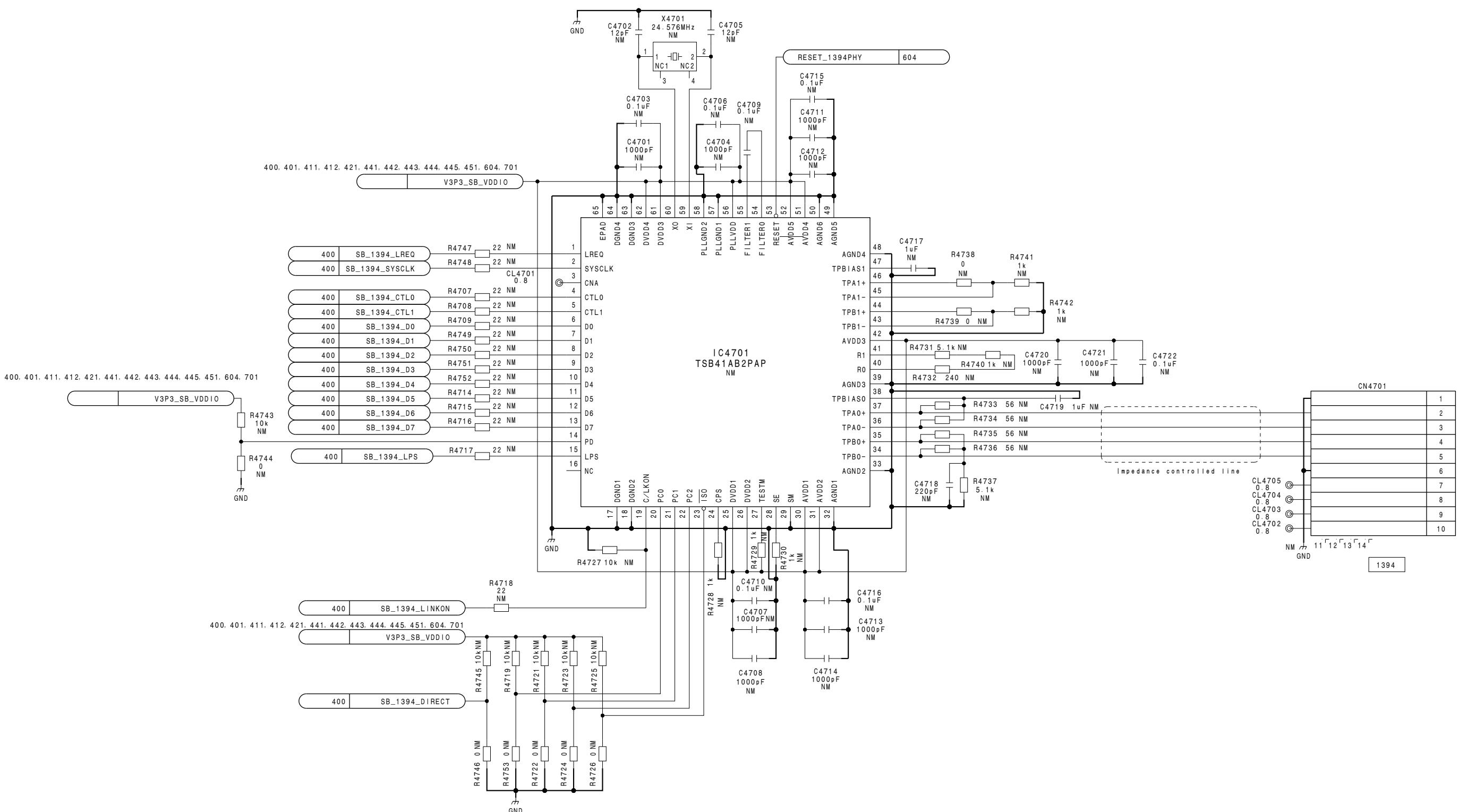


BE-28 (25/44)
BOARD NO. 1-876-411-12
SJX-300_BE-28_012_442

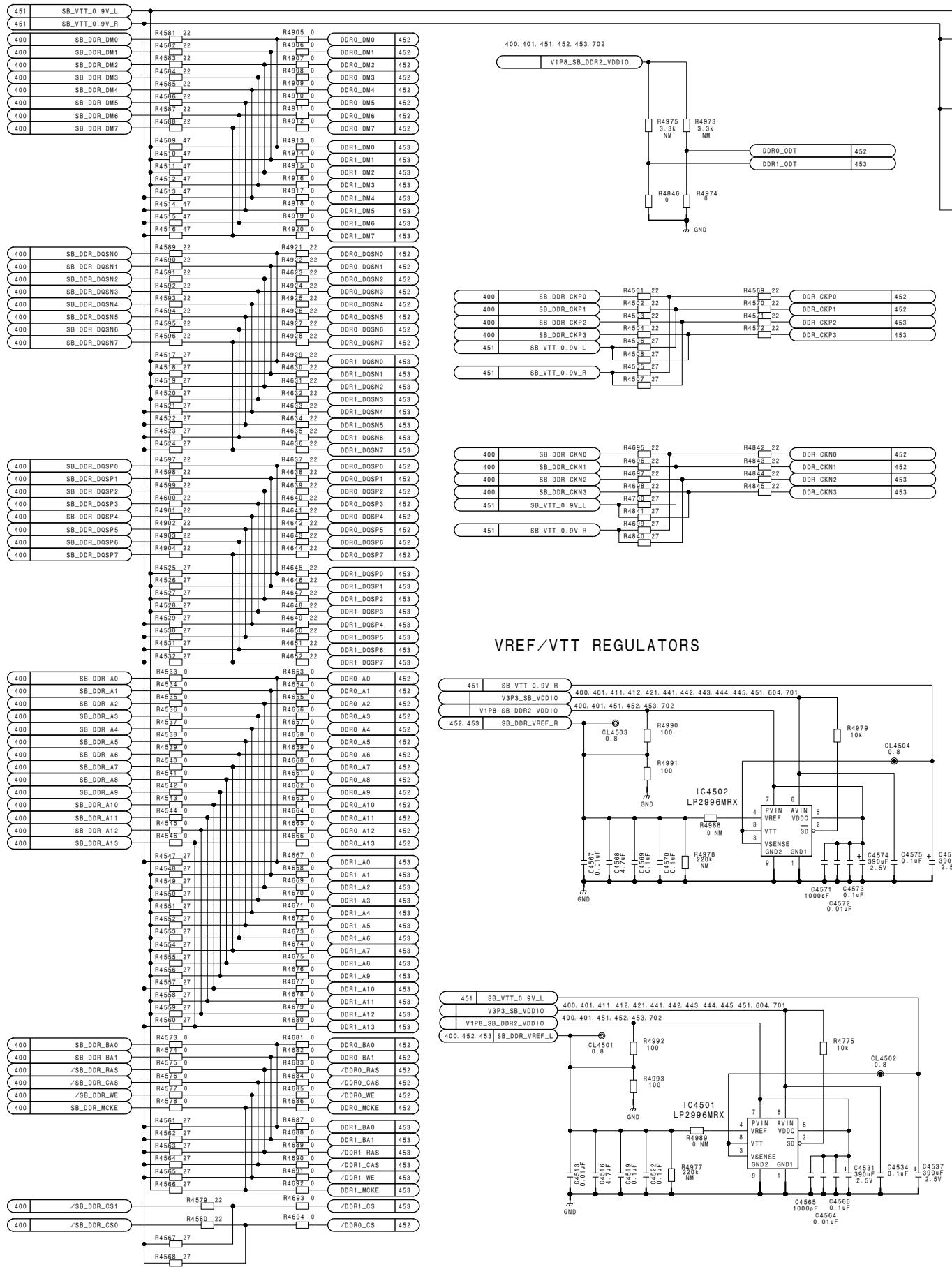
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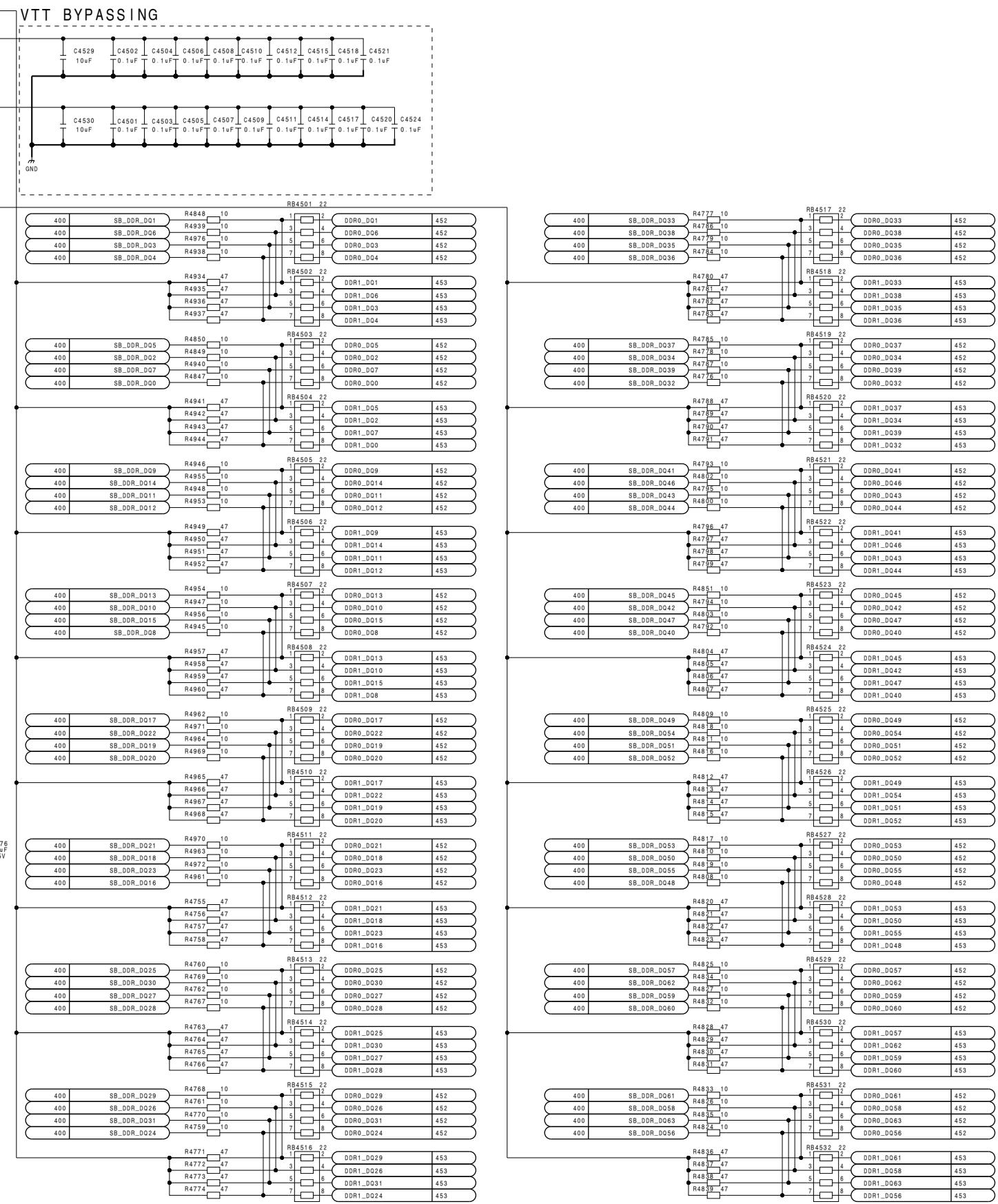




BE-28 (29/44)
SUFFIX: -12



BE-28 (29/44)
SUFFIX: -12



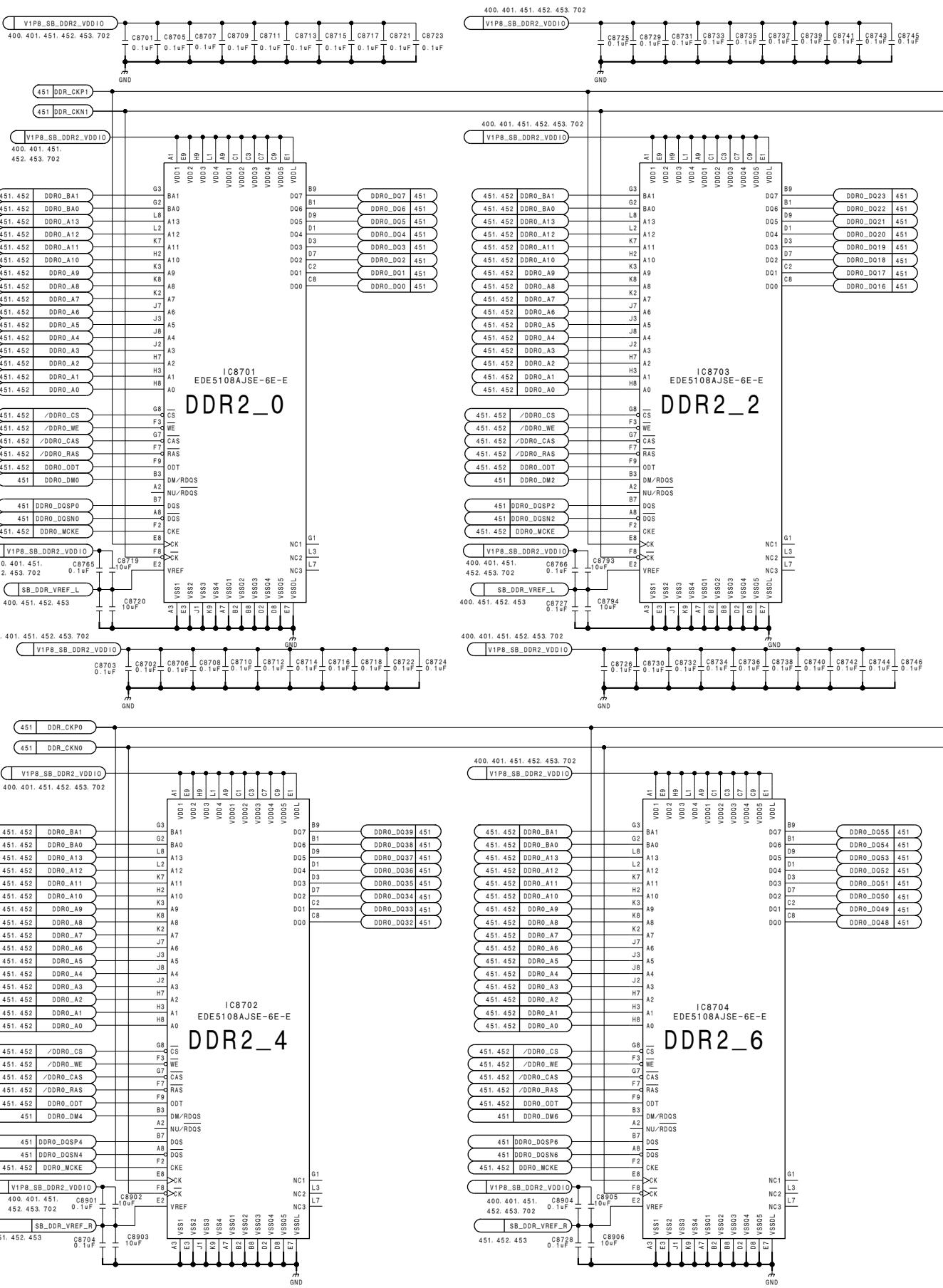
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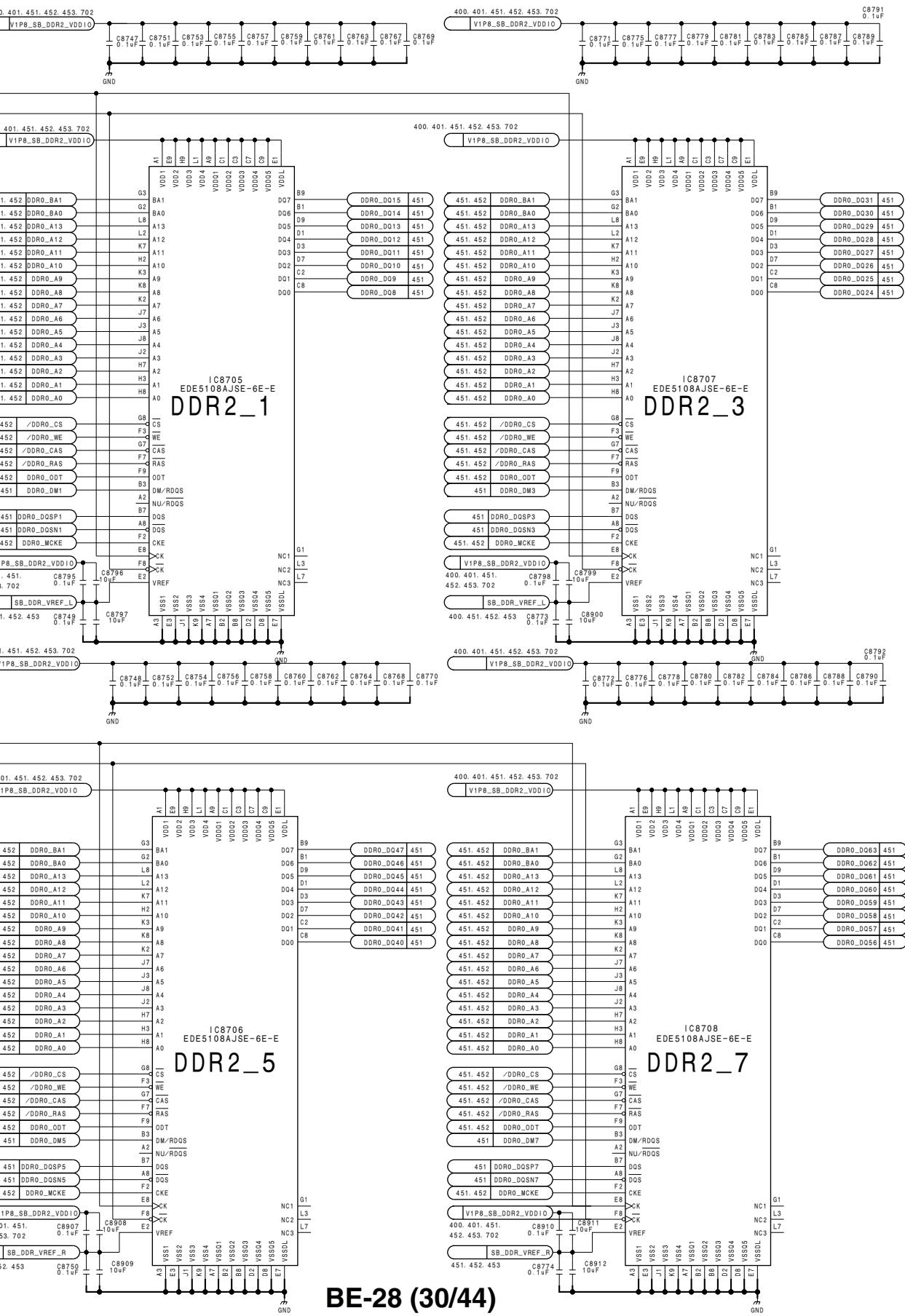
BE-28 (30/44)

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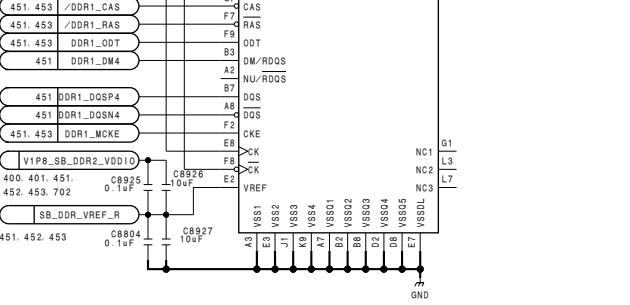
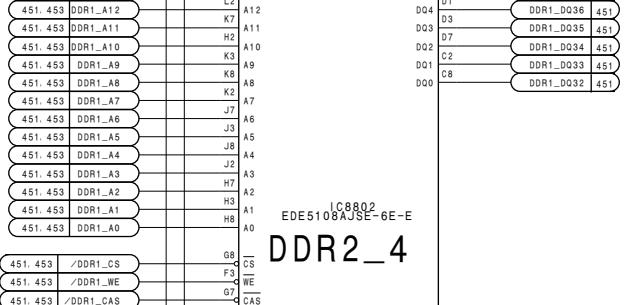
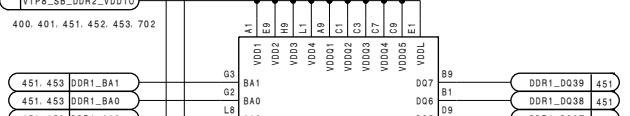
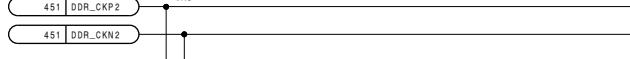
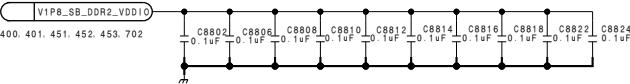
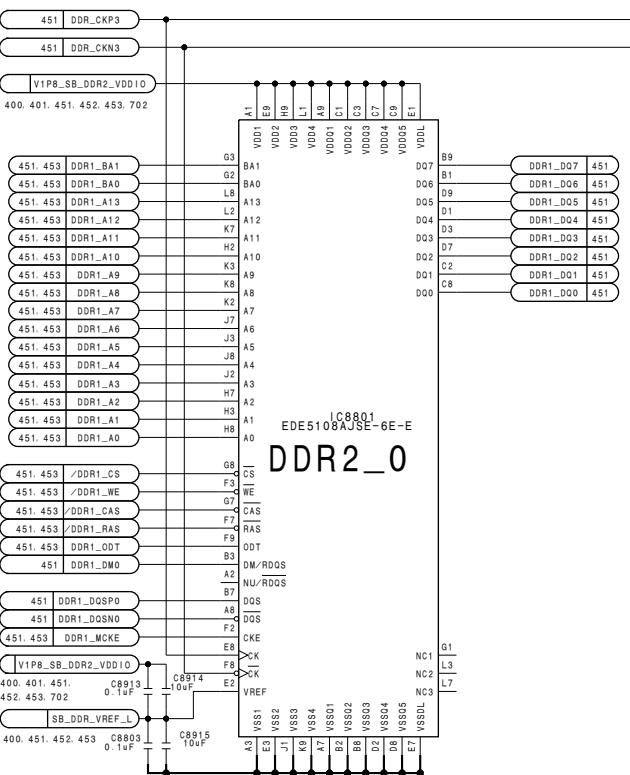
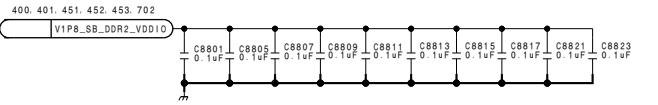


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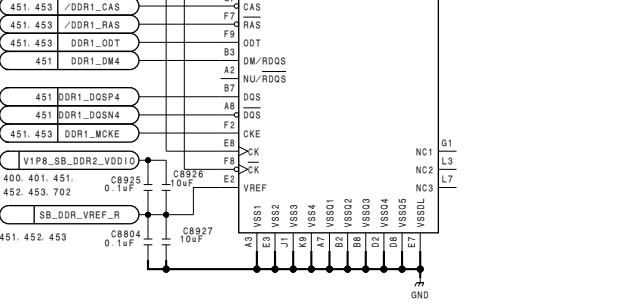
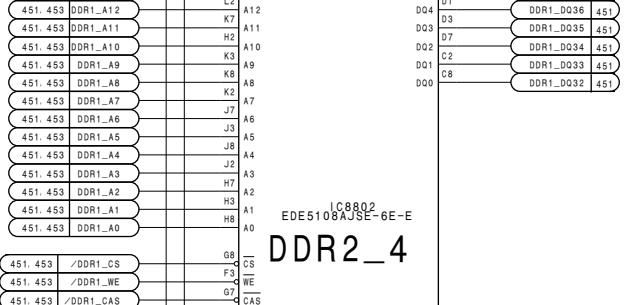
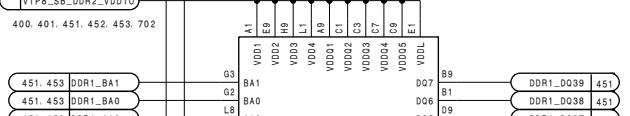
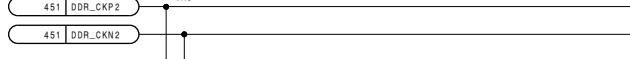
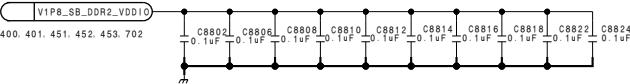
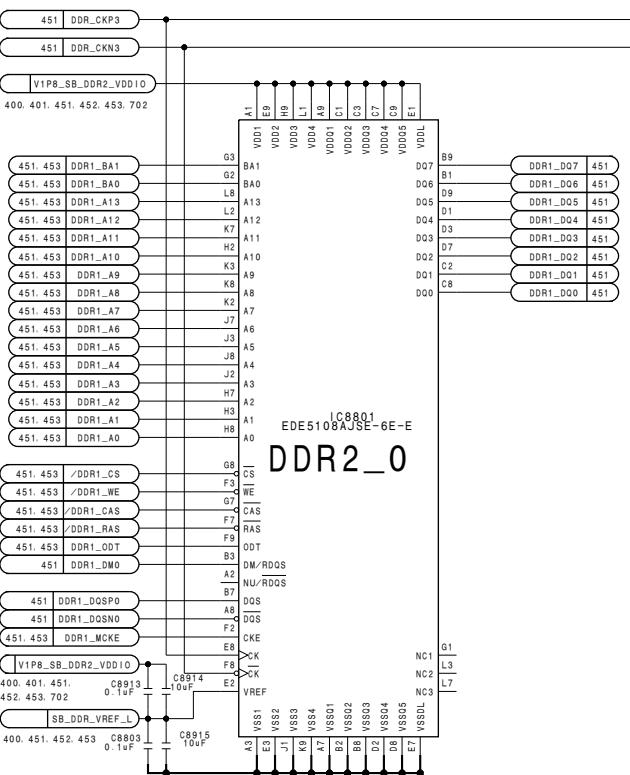
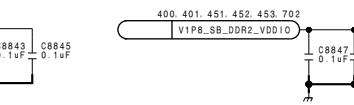
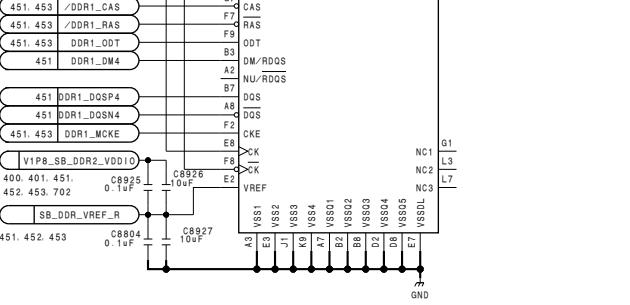
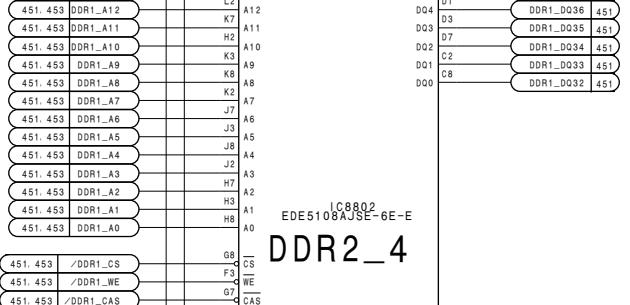
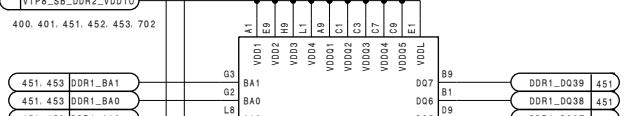
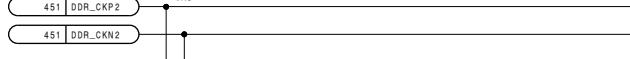
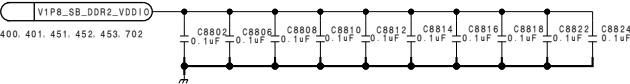
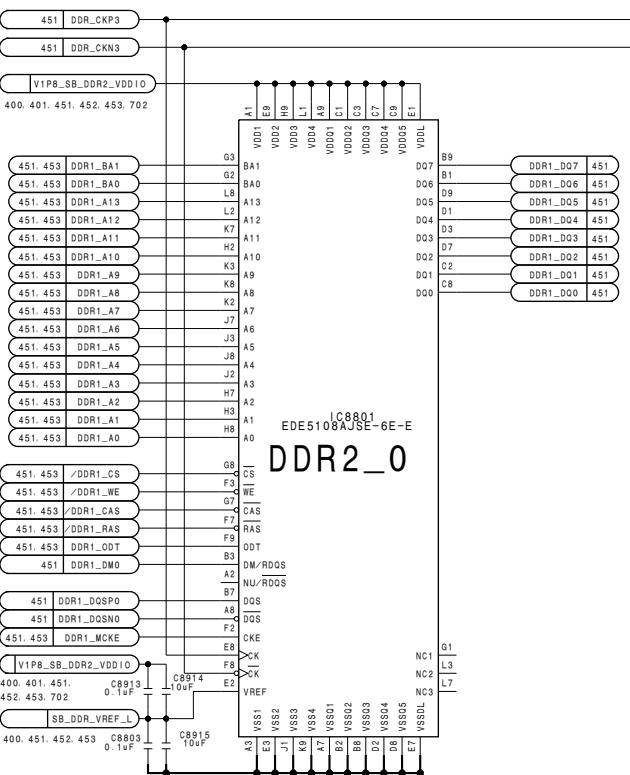
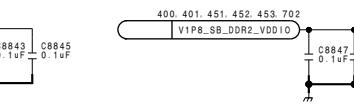
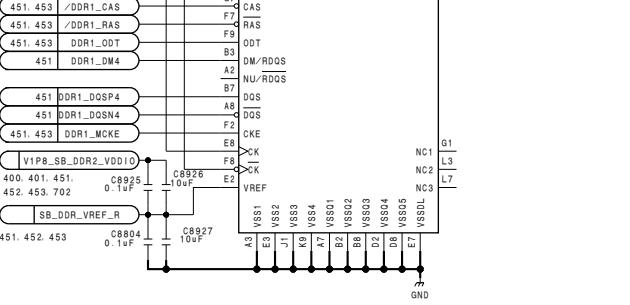
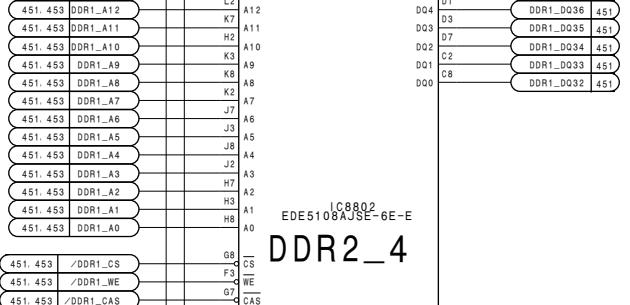
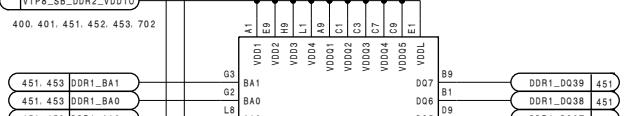
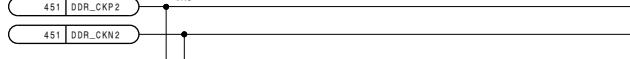
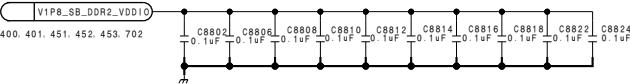
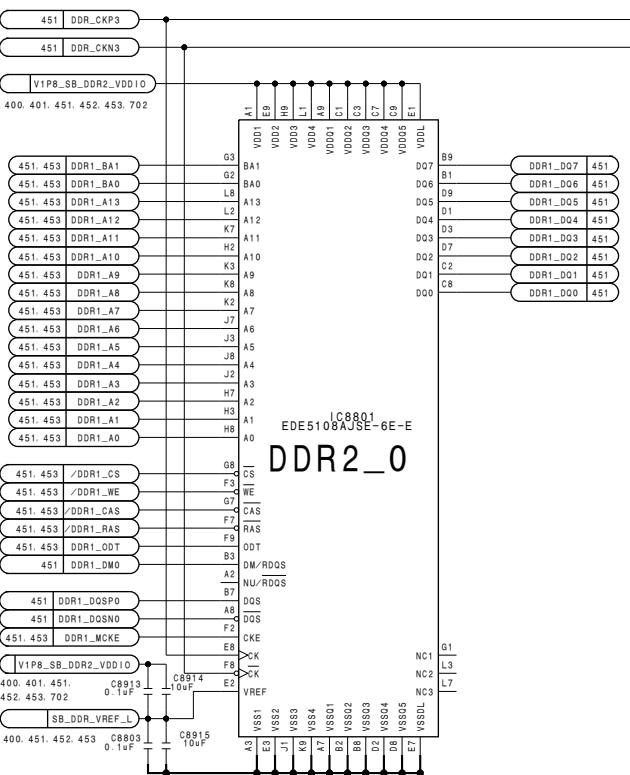
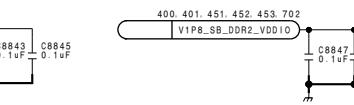
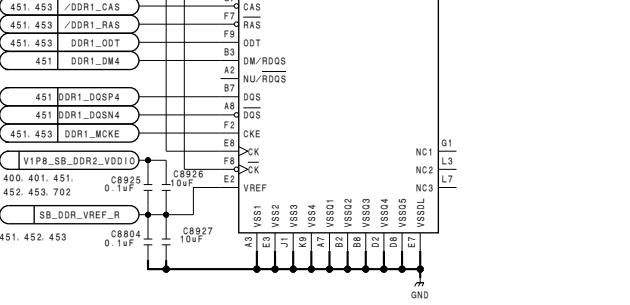
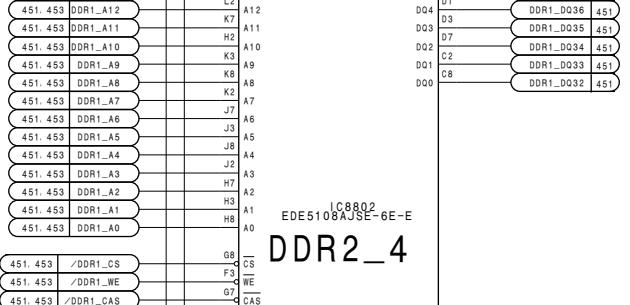
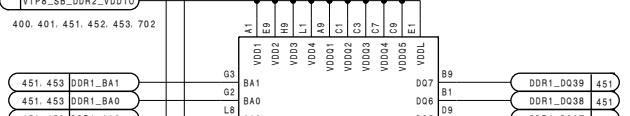
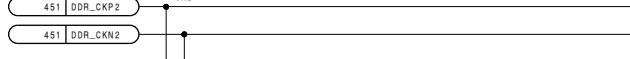
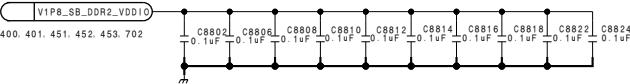
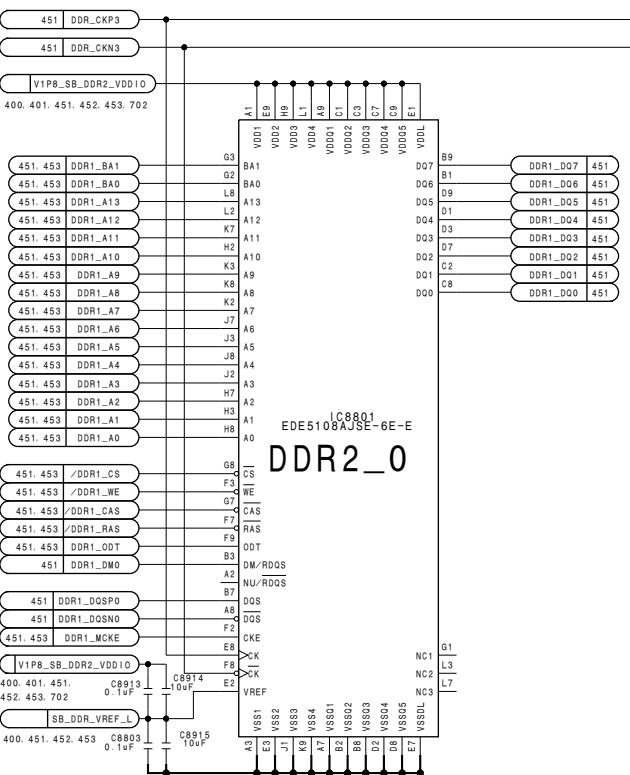
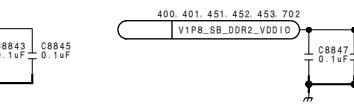
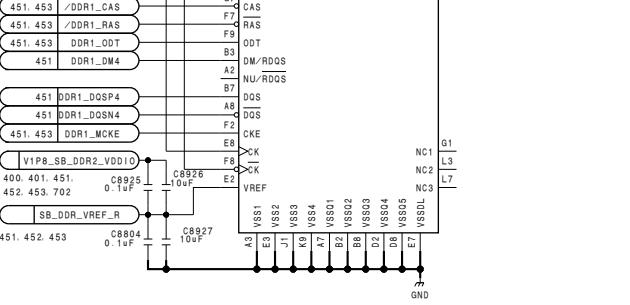
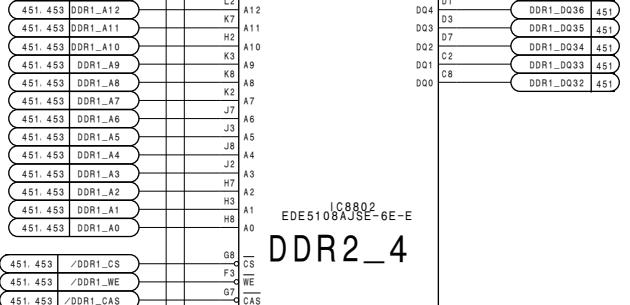
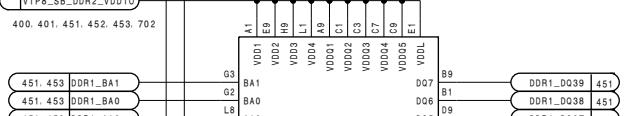
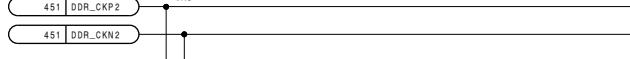
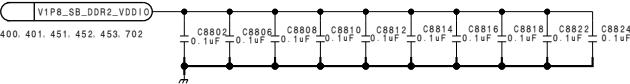
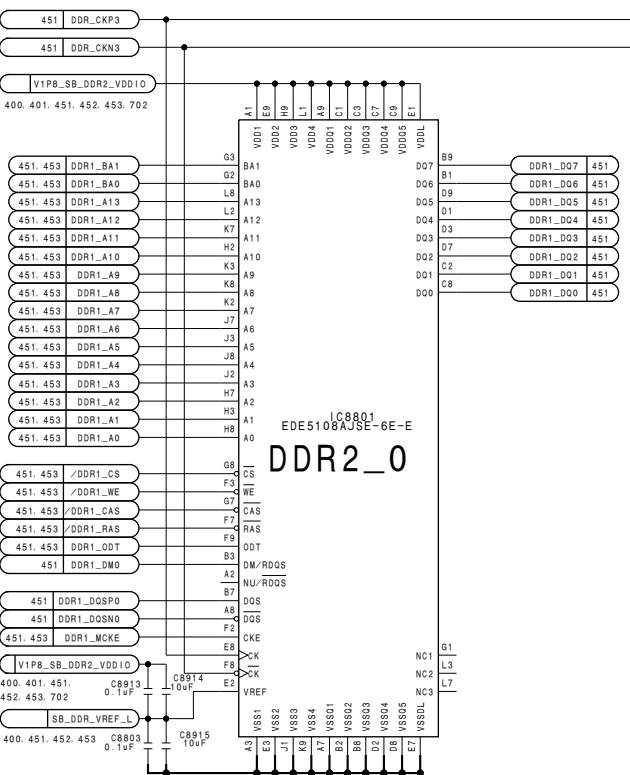
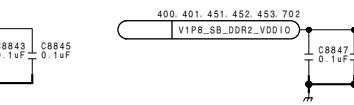
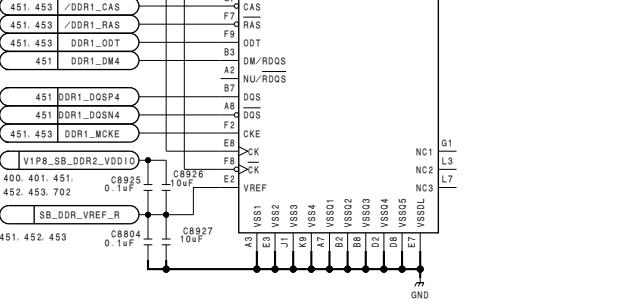
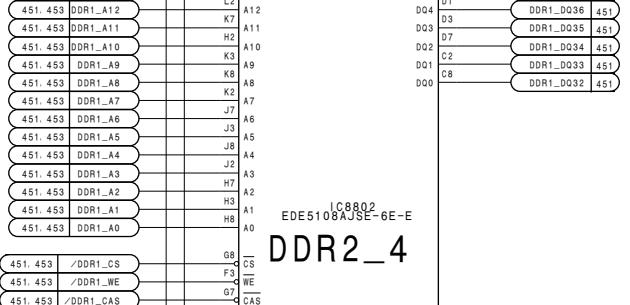
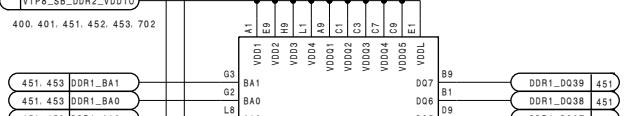
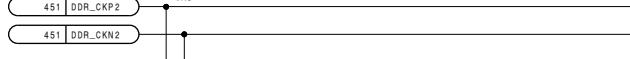
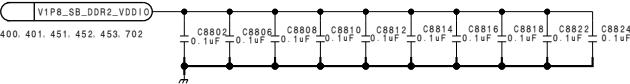
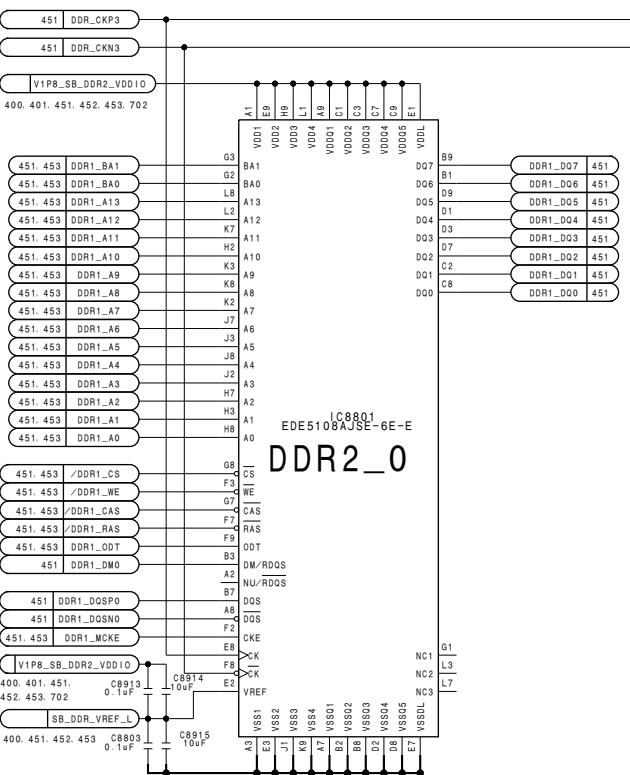
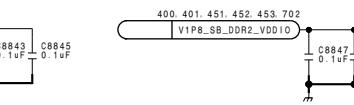
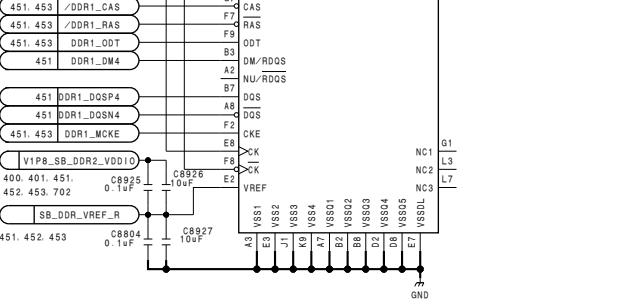
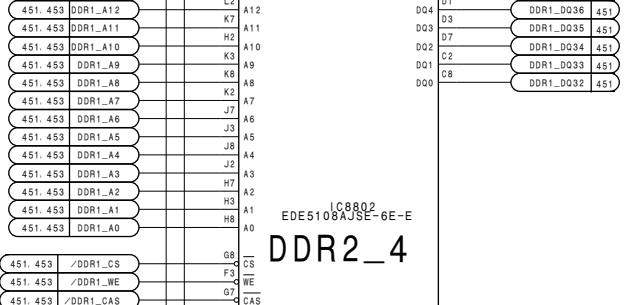
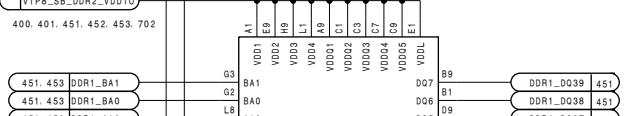
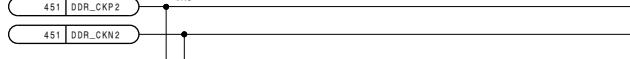
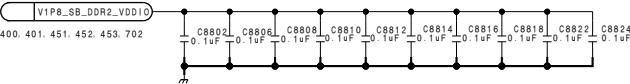
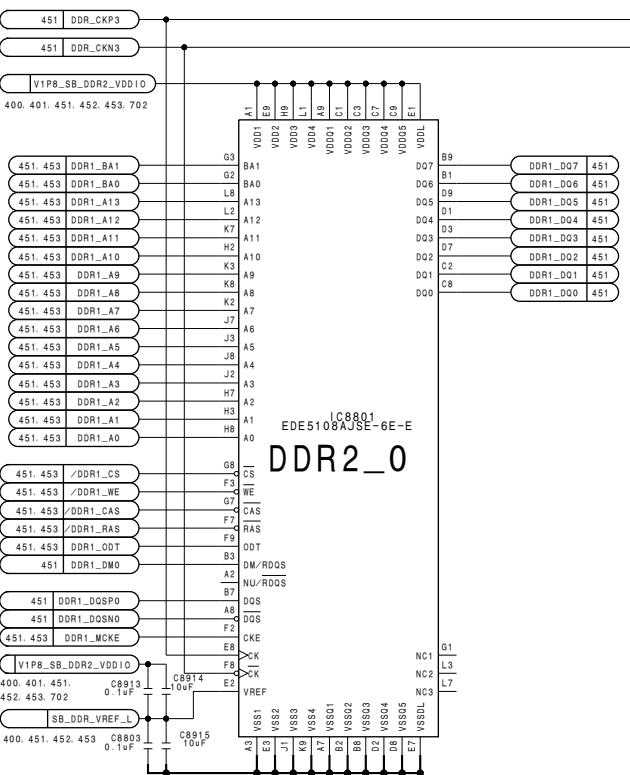
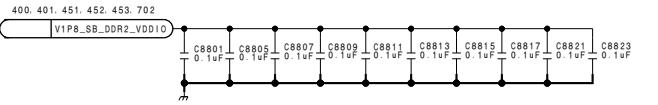
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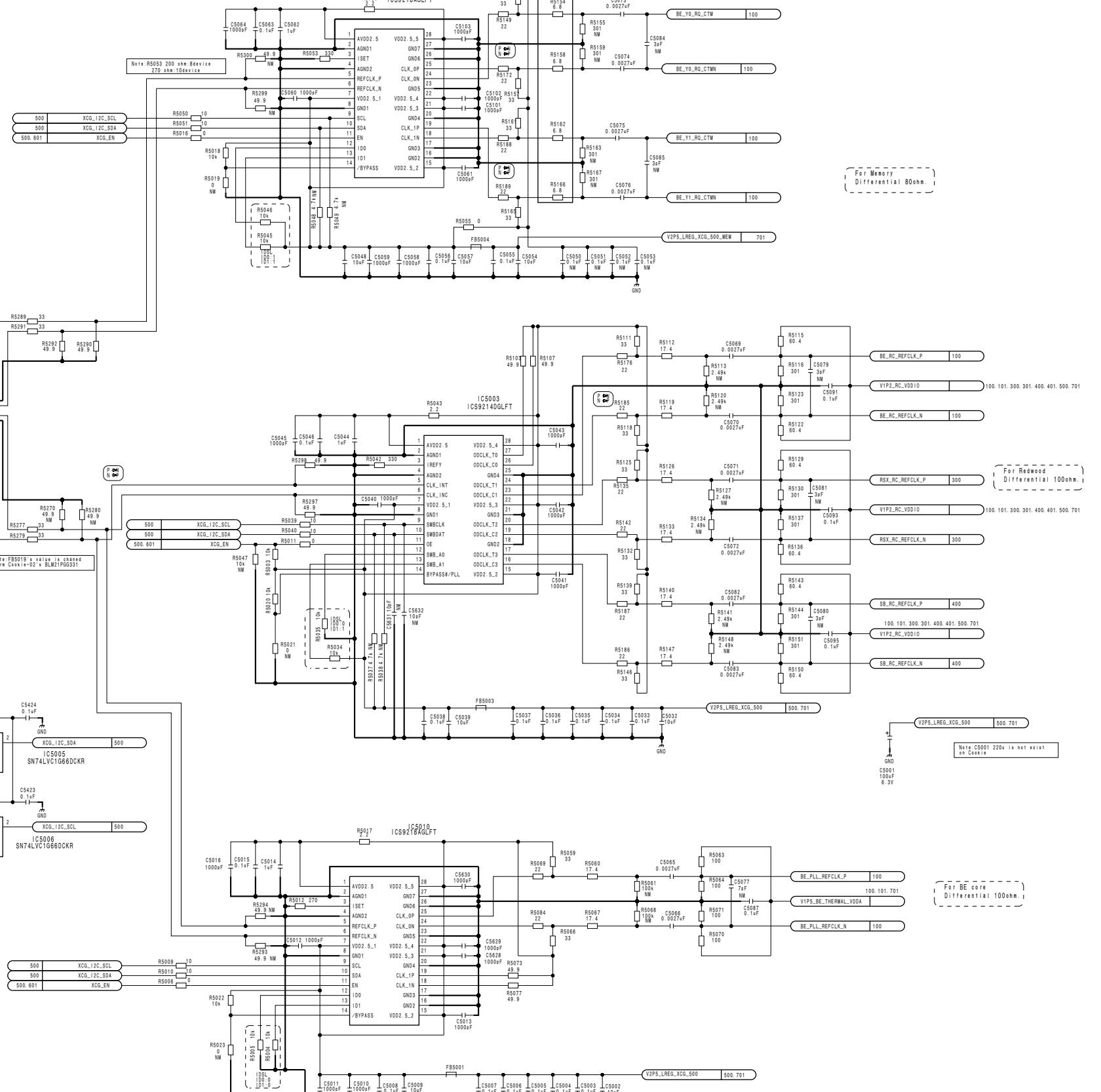
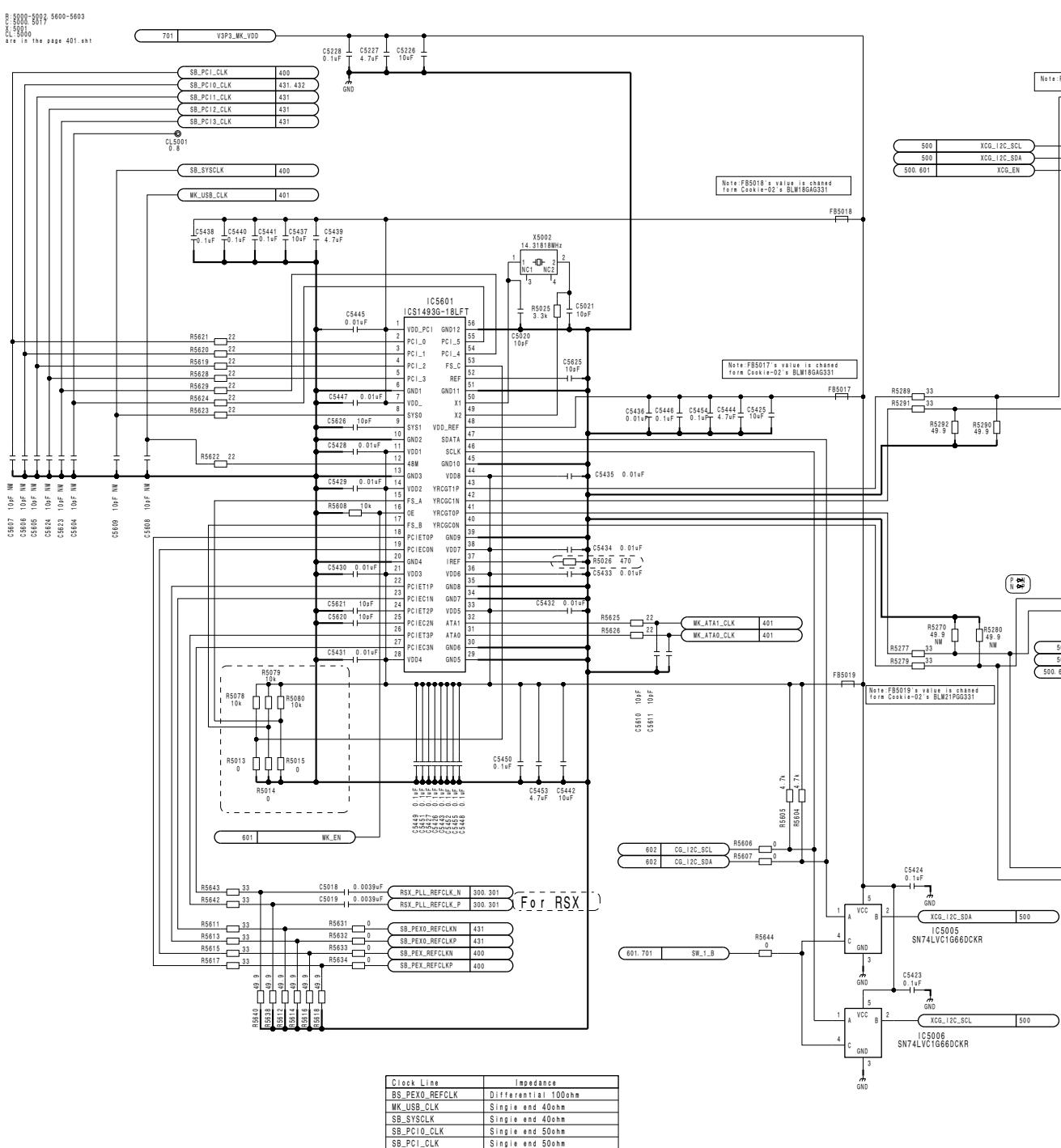


BE-28 (31/44)
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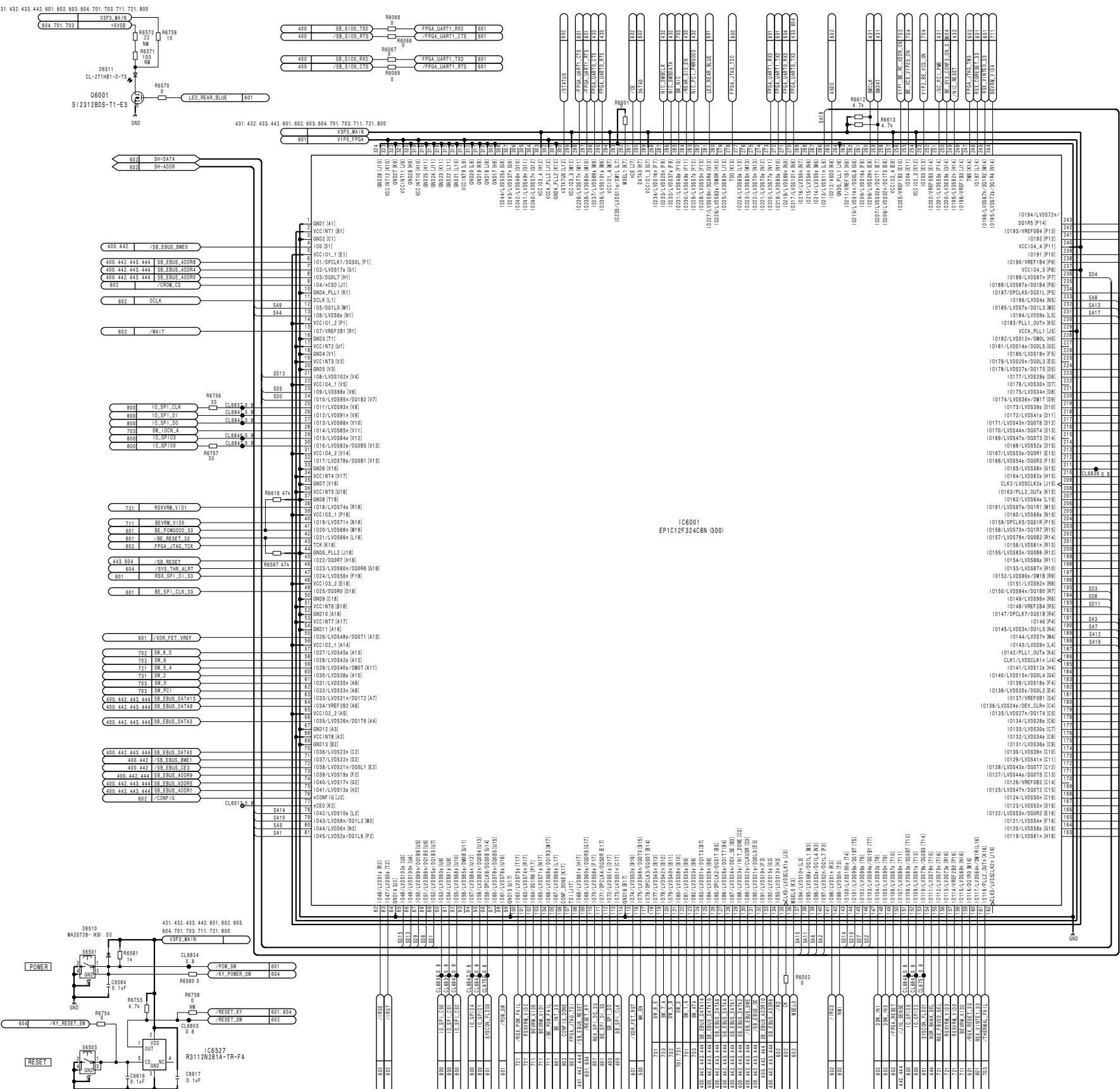


BE-28 (31/44)
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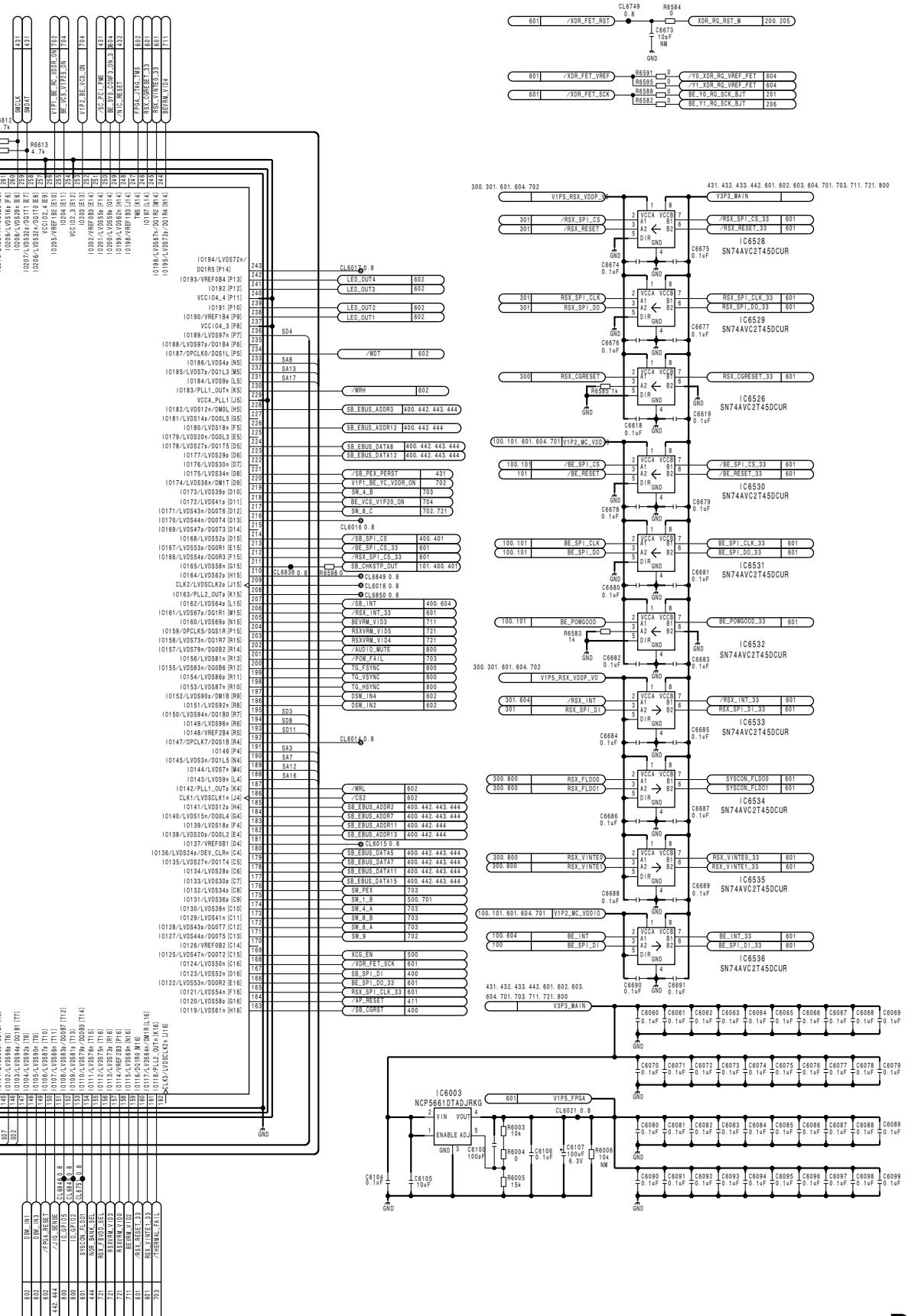




BE-28 (33/44)
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BE-28 (33/44)
SUFFIX: -12

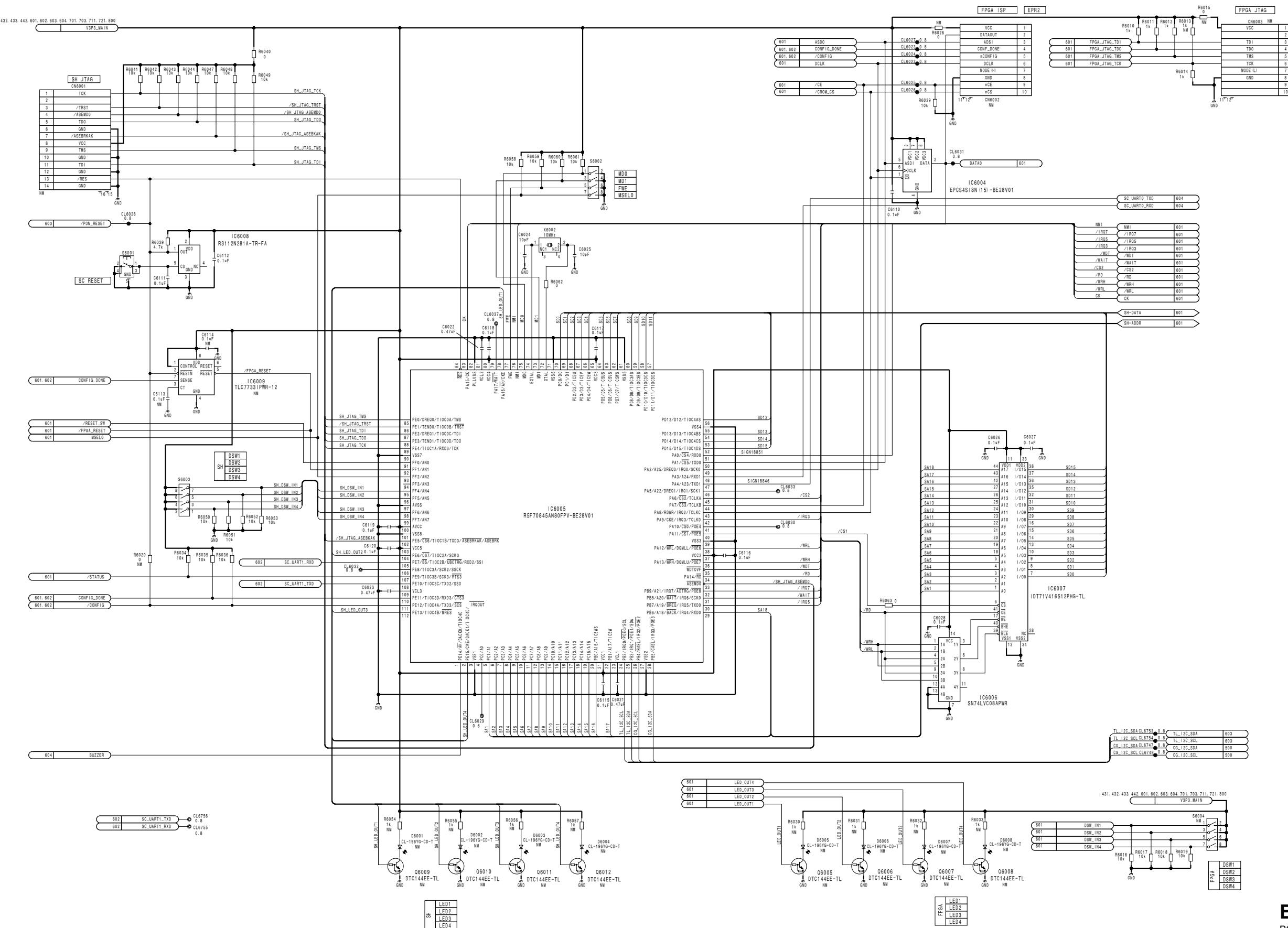


BE-28 (34/44)

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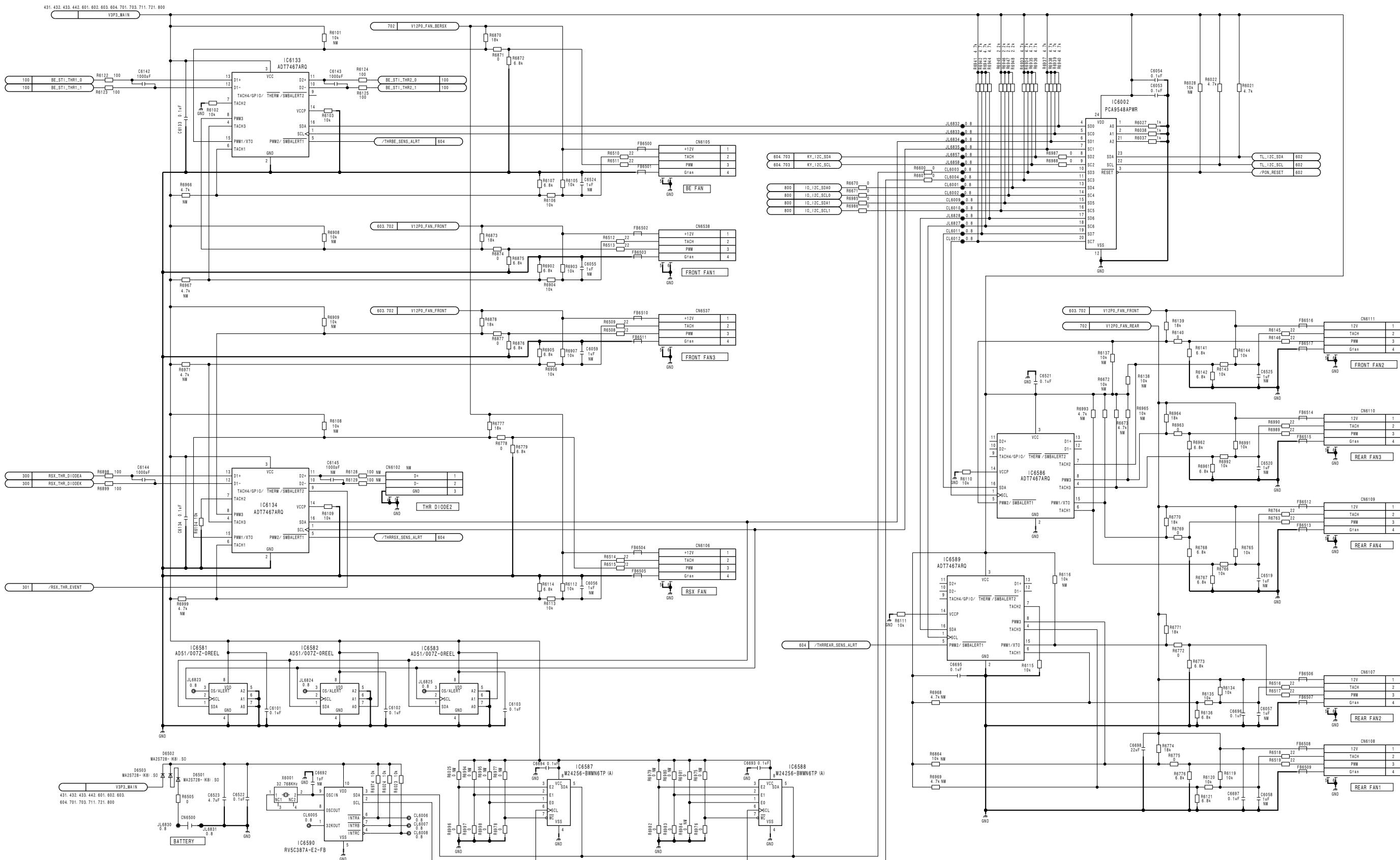
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BE-28 (34/44)

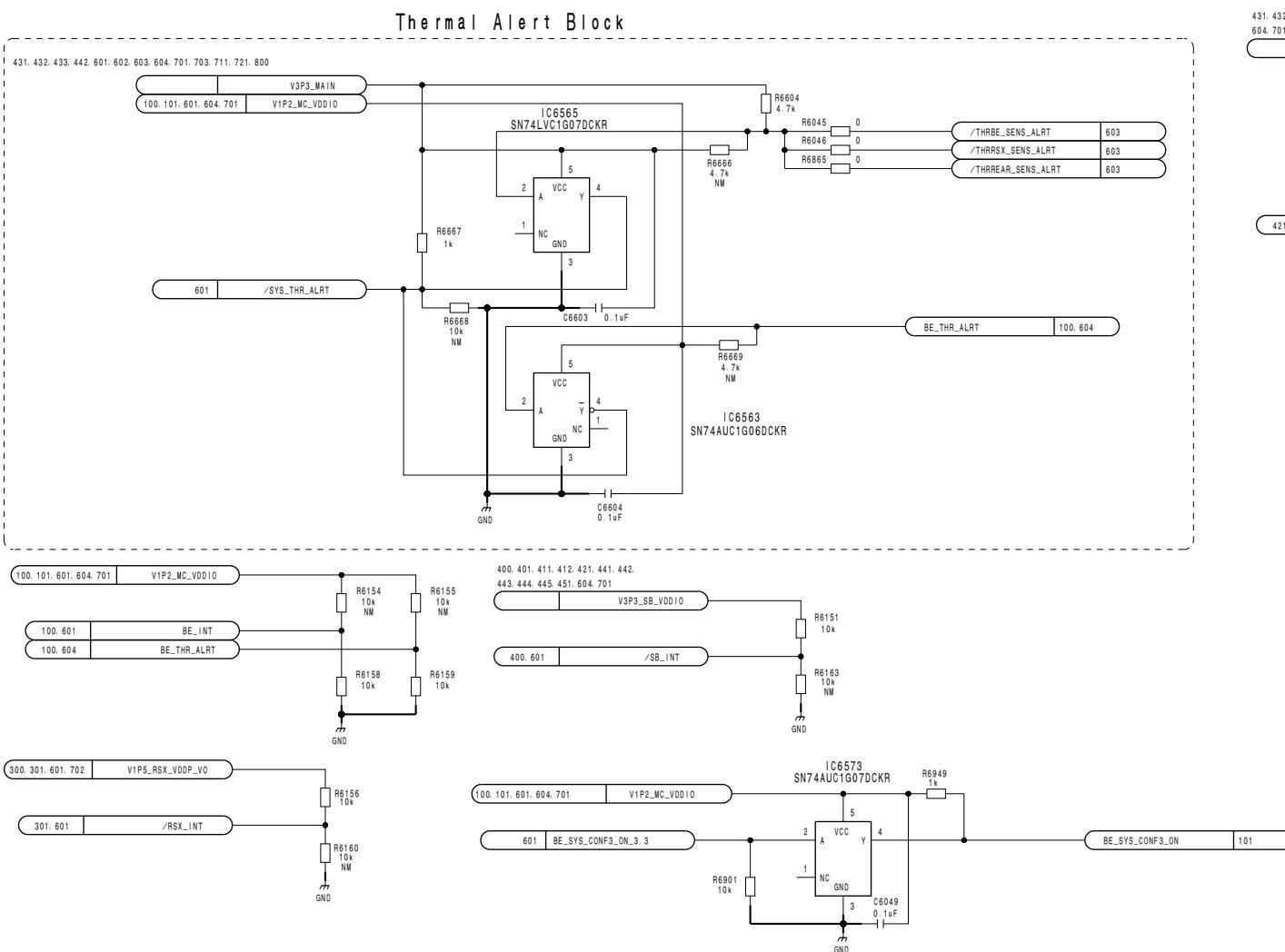
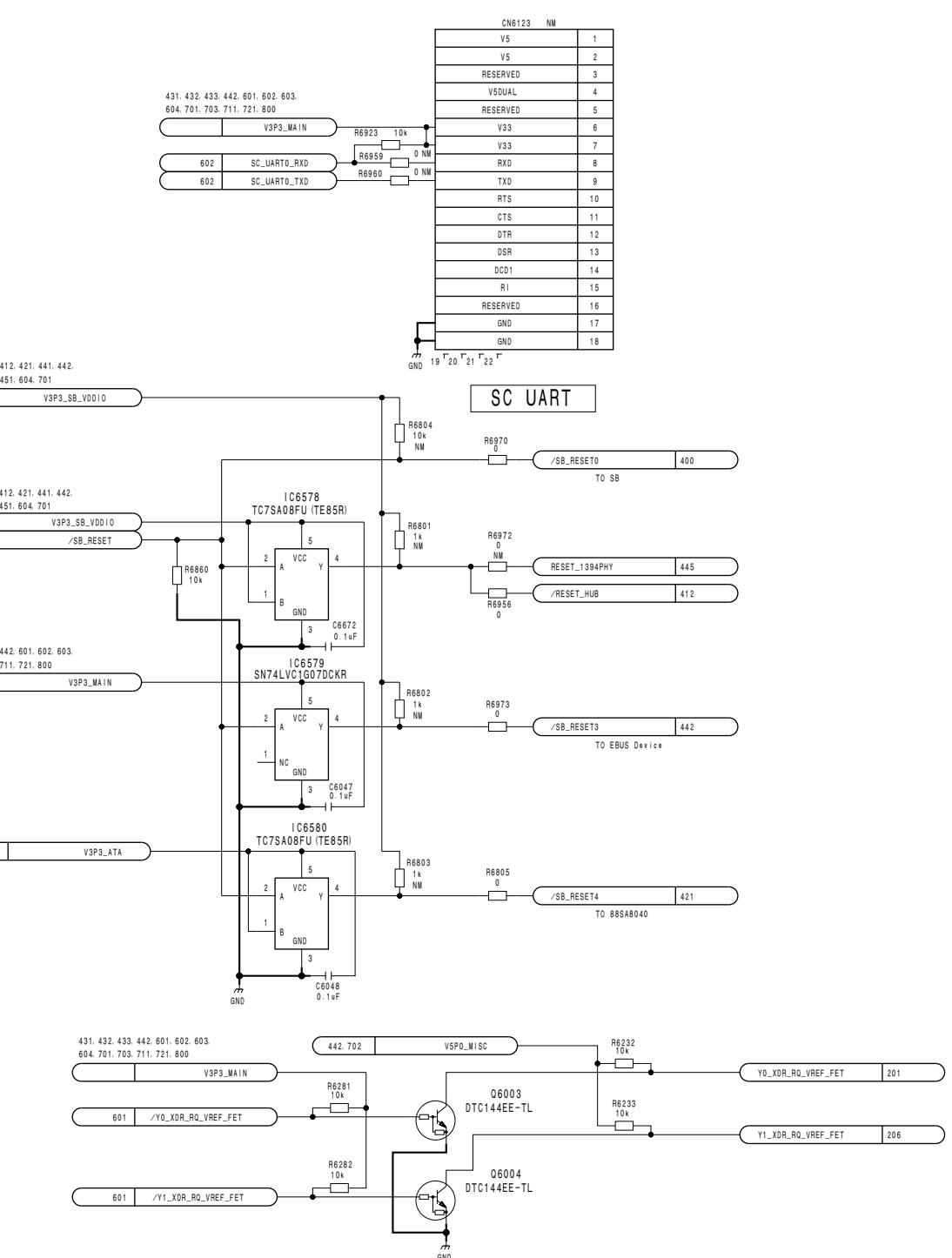
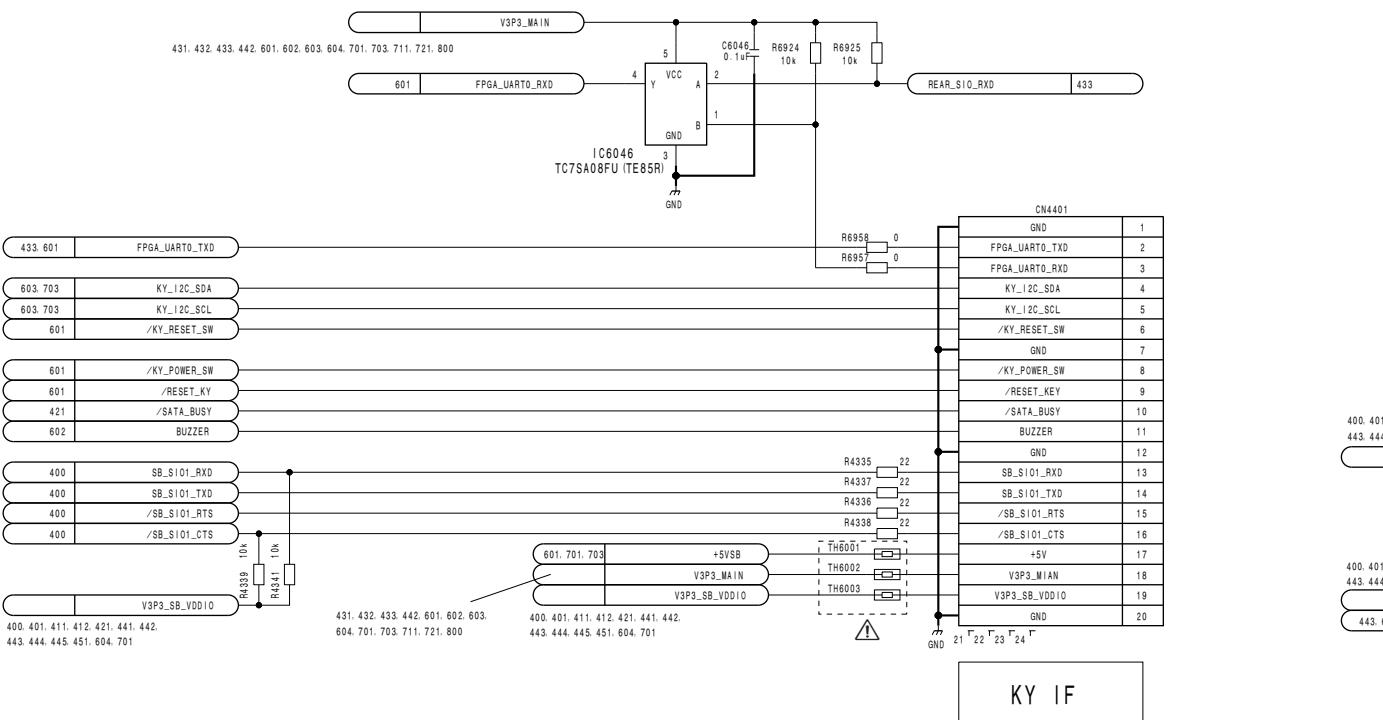
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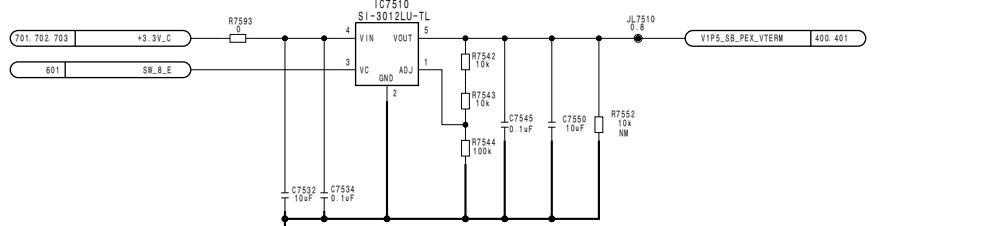
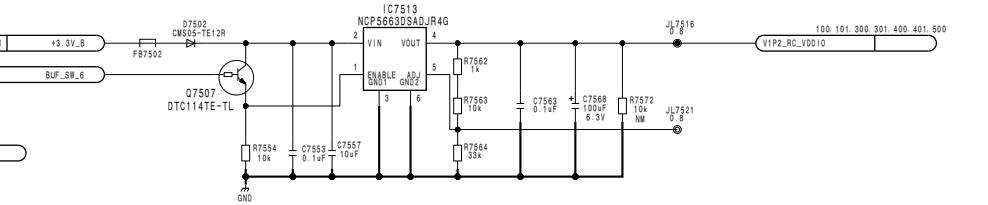
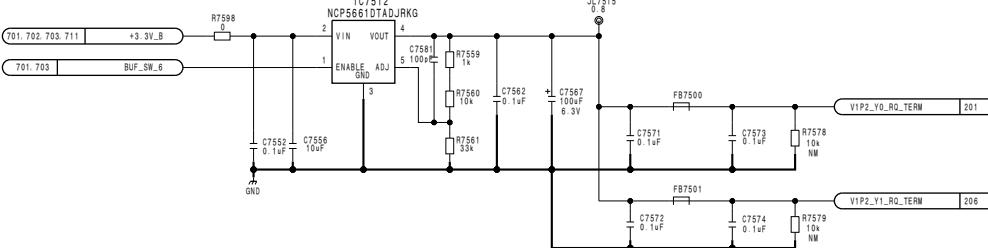
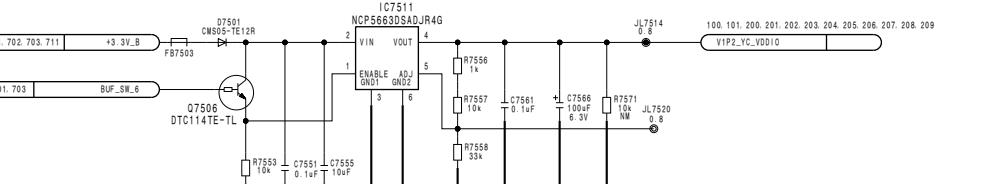
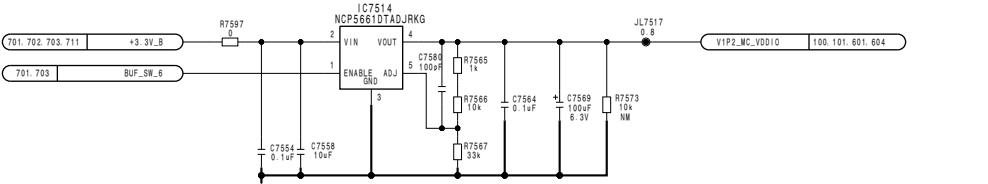
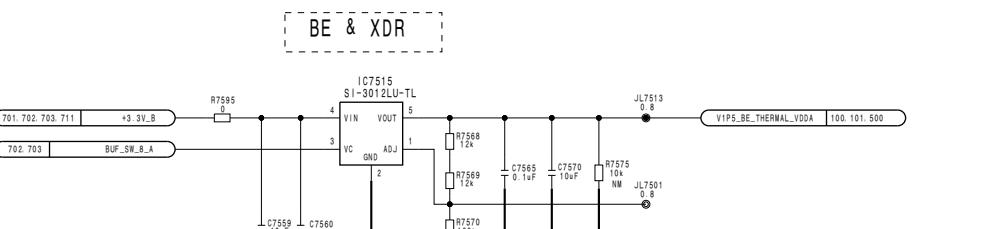
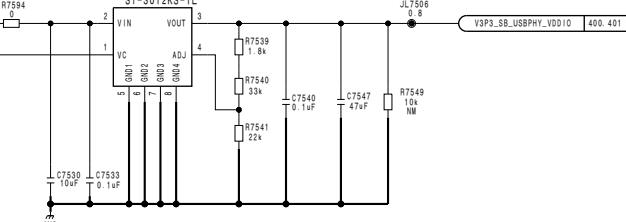
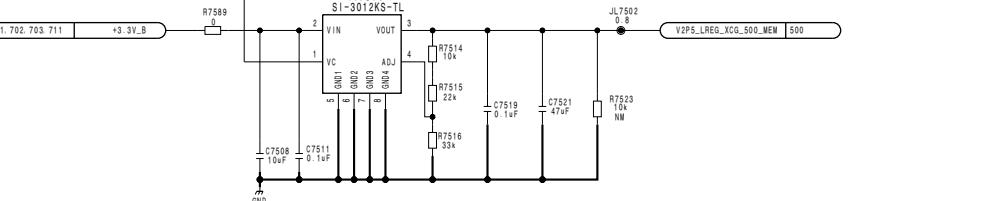
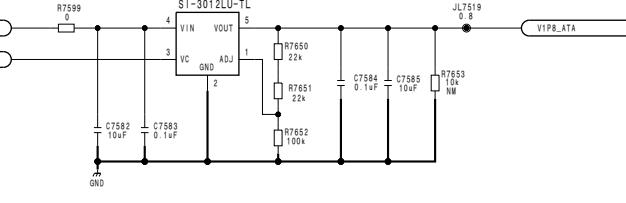
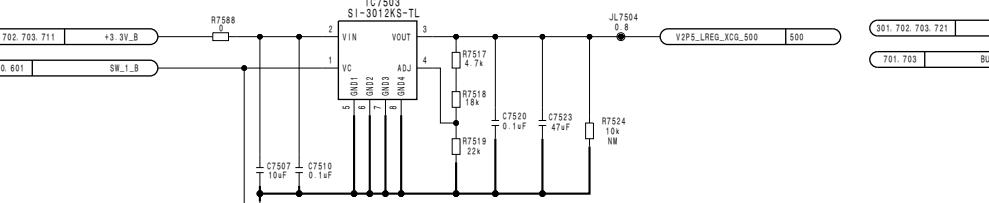
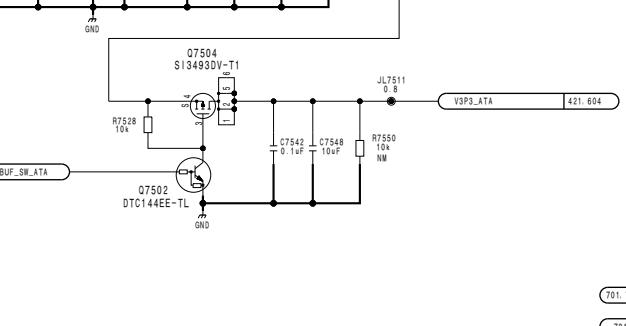
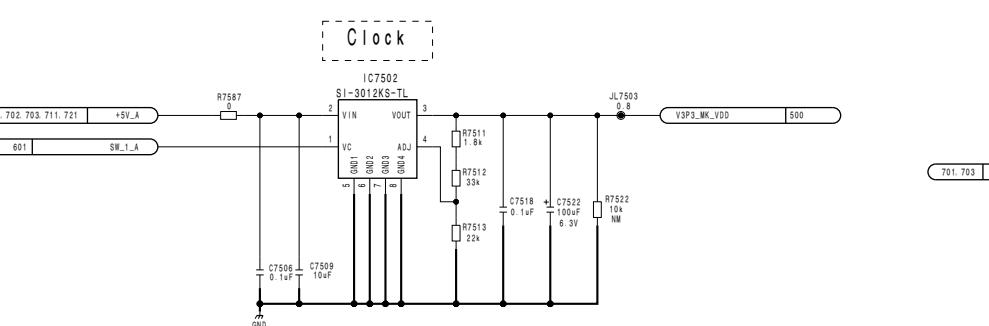
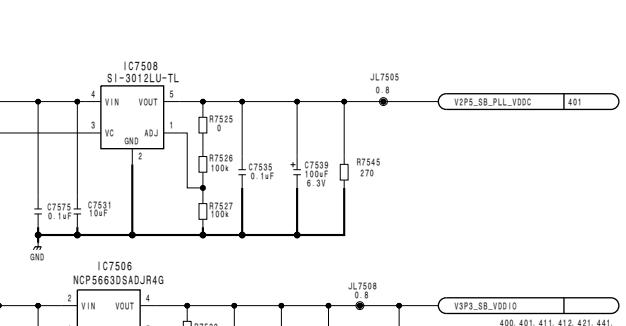
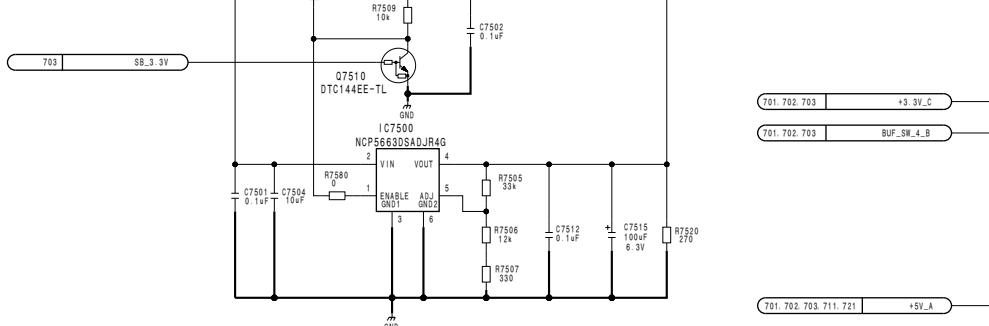
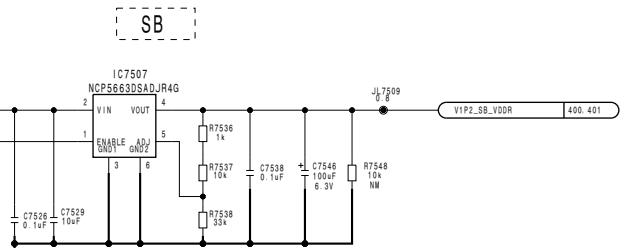
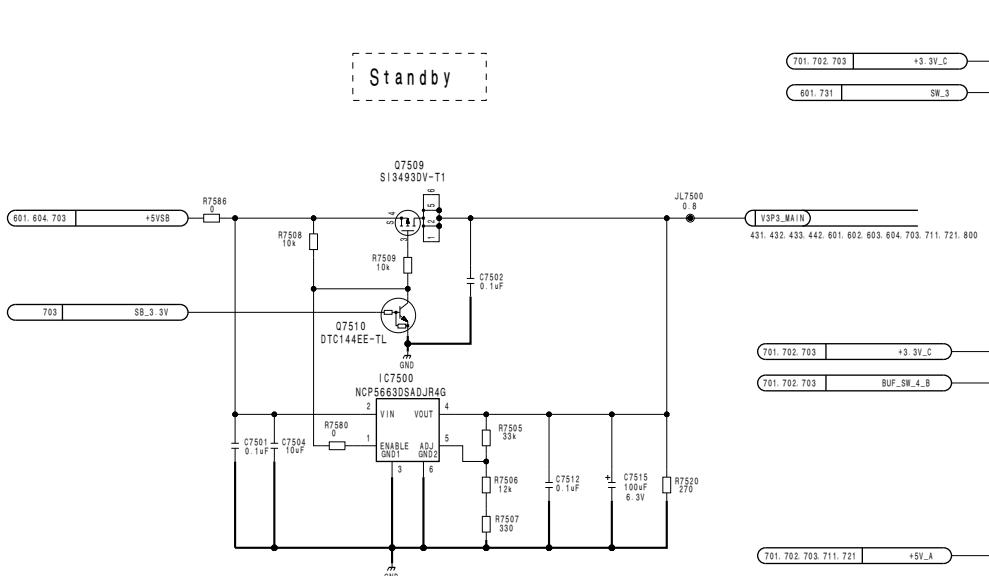


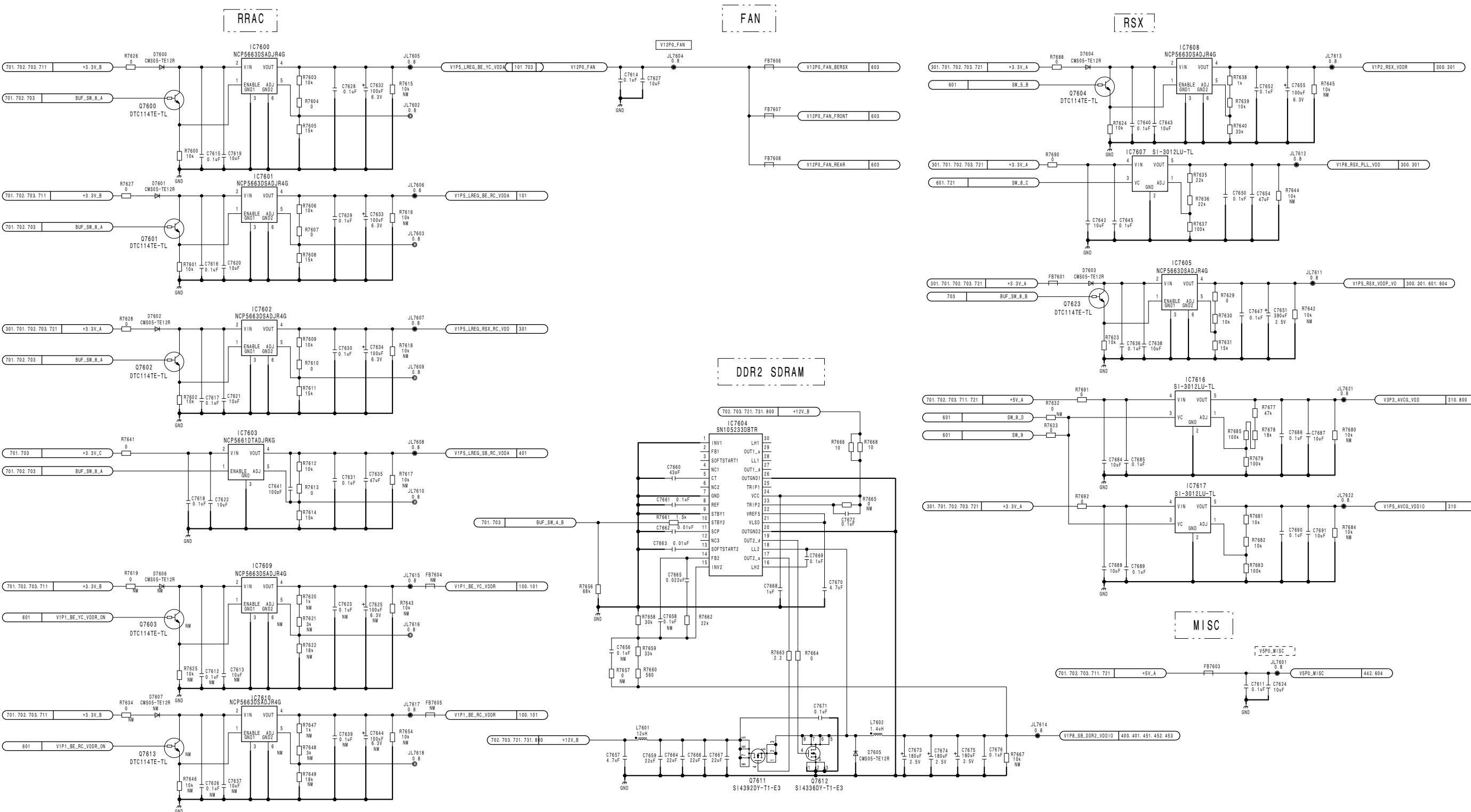
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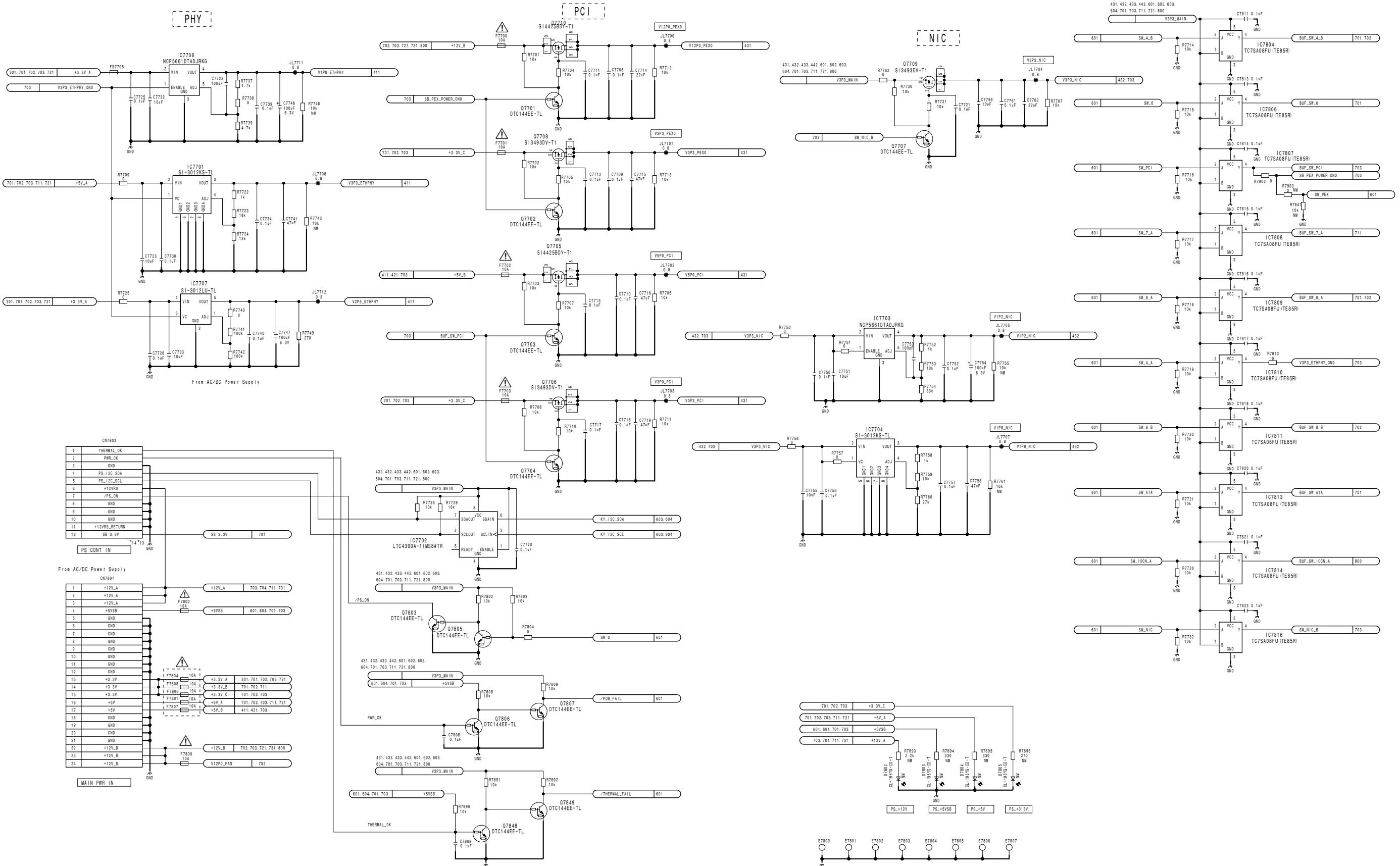
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Device select code = 1010_001b

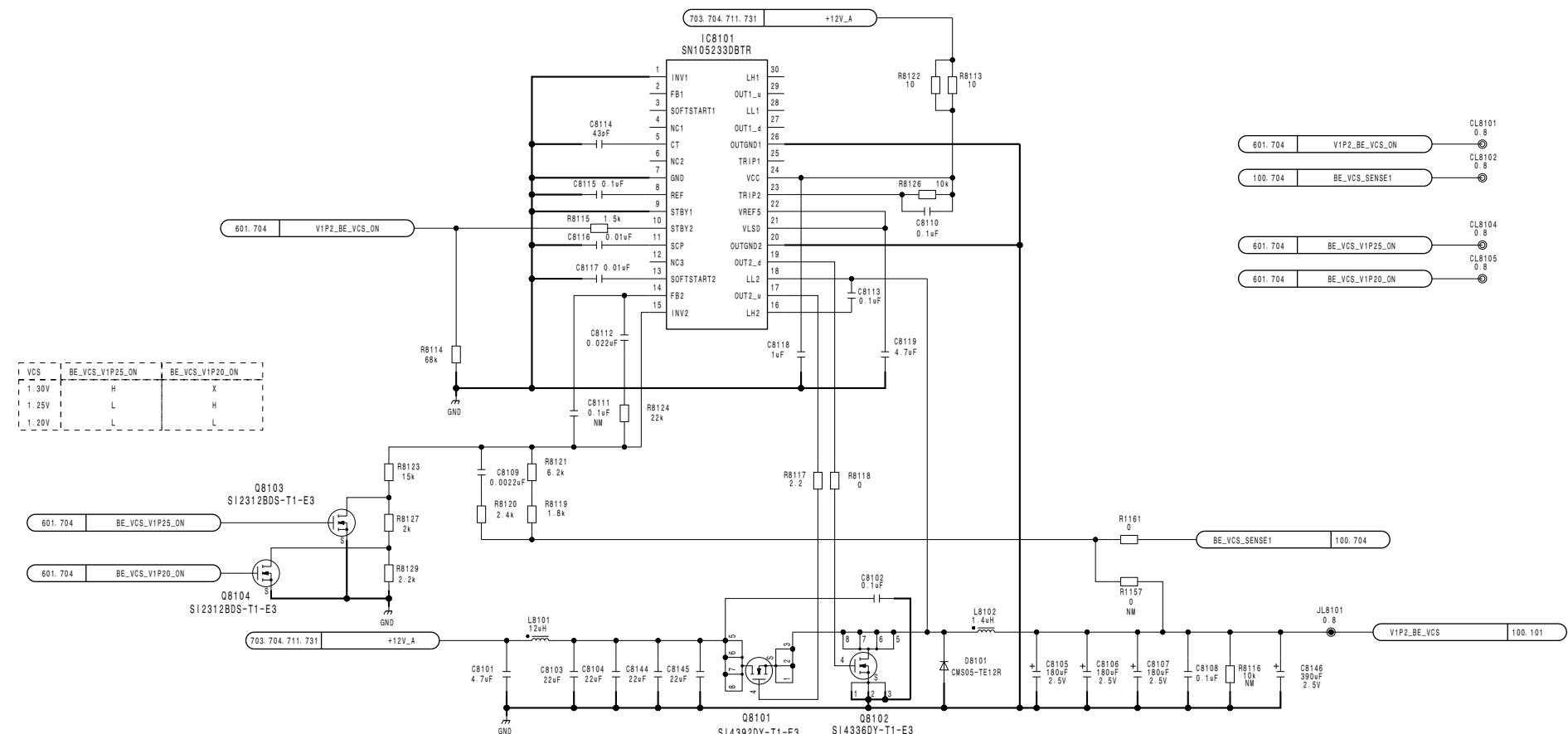




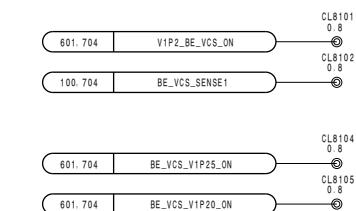




1



2

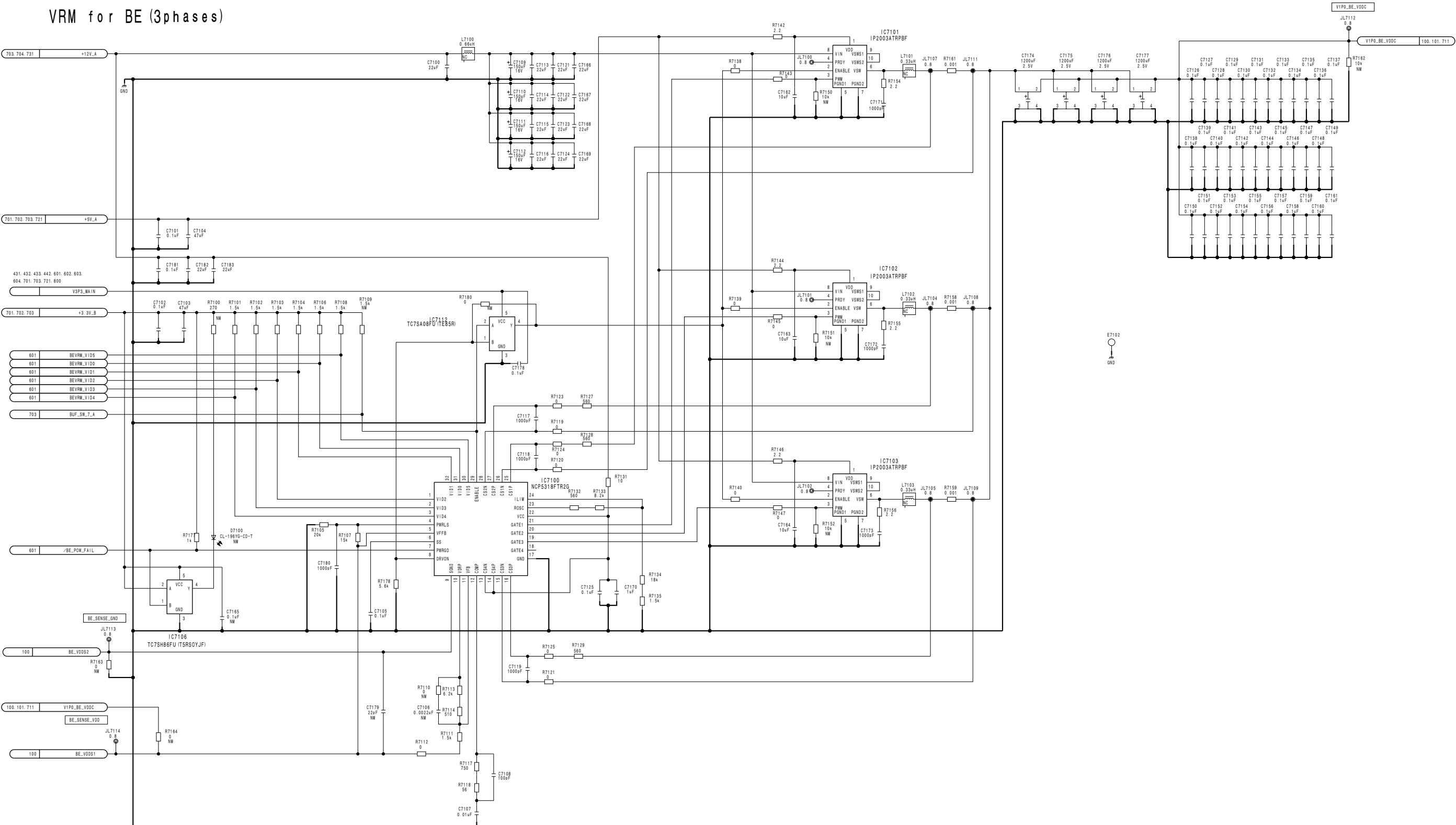


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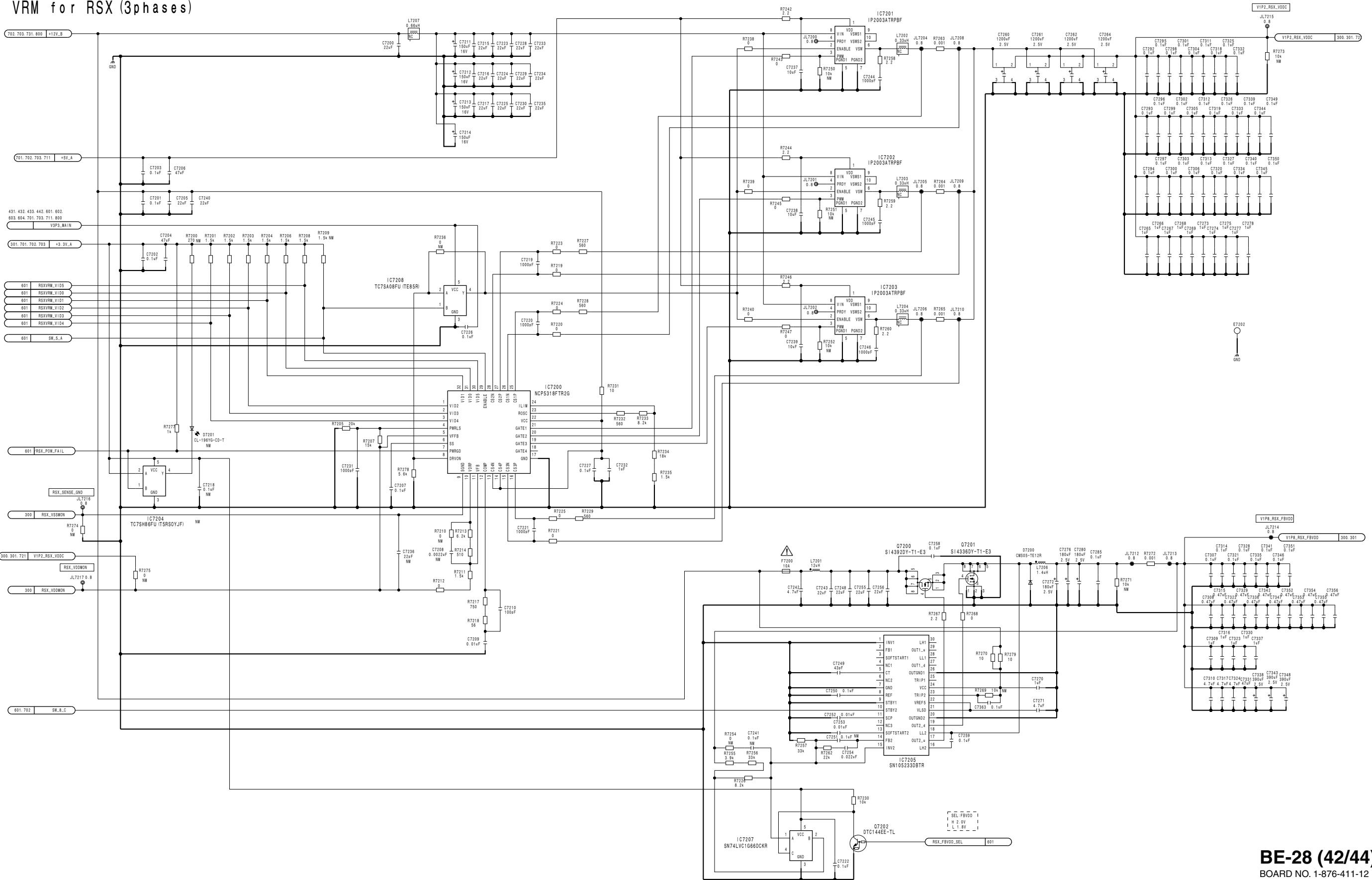
4

5

VRM for BE (3phases)

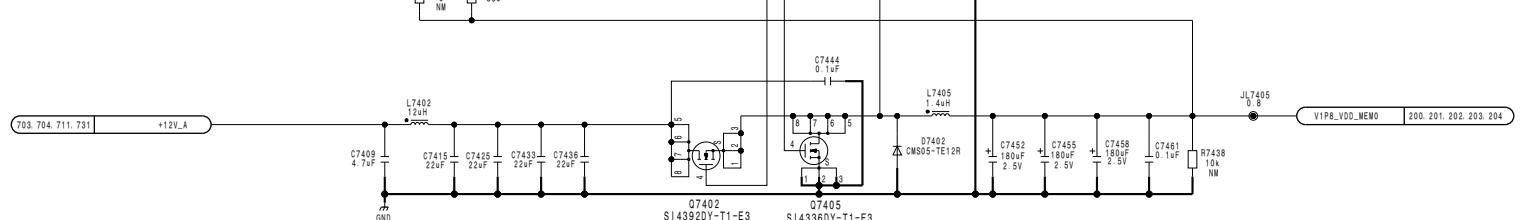
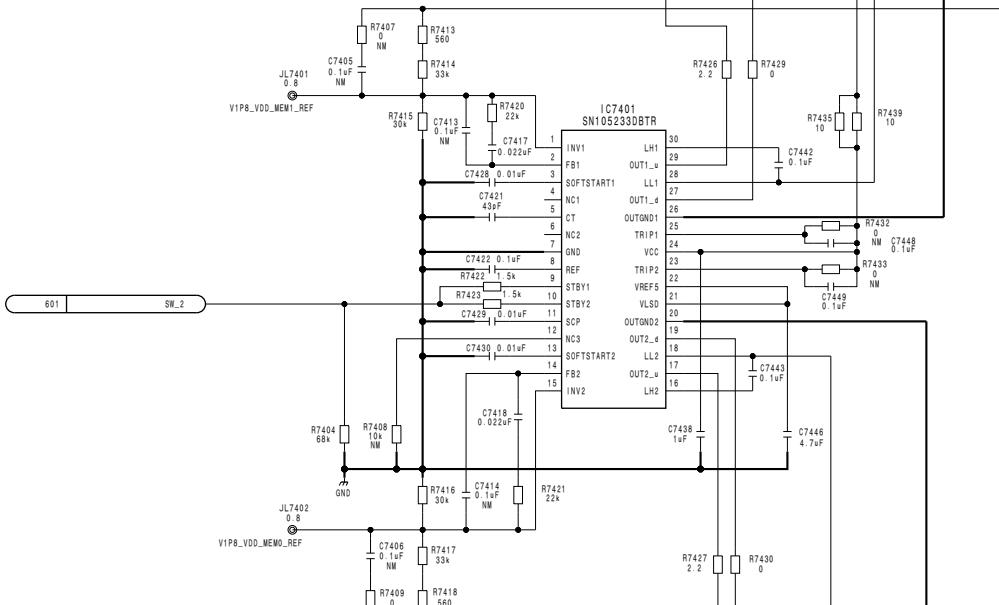
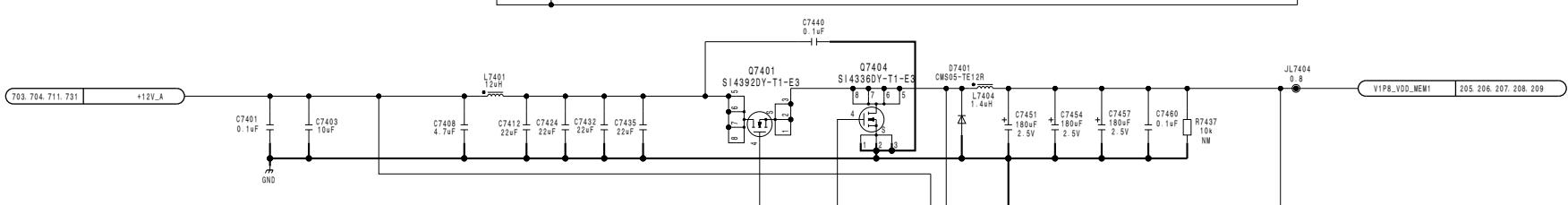
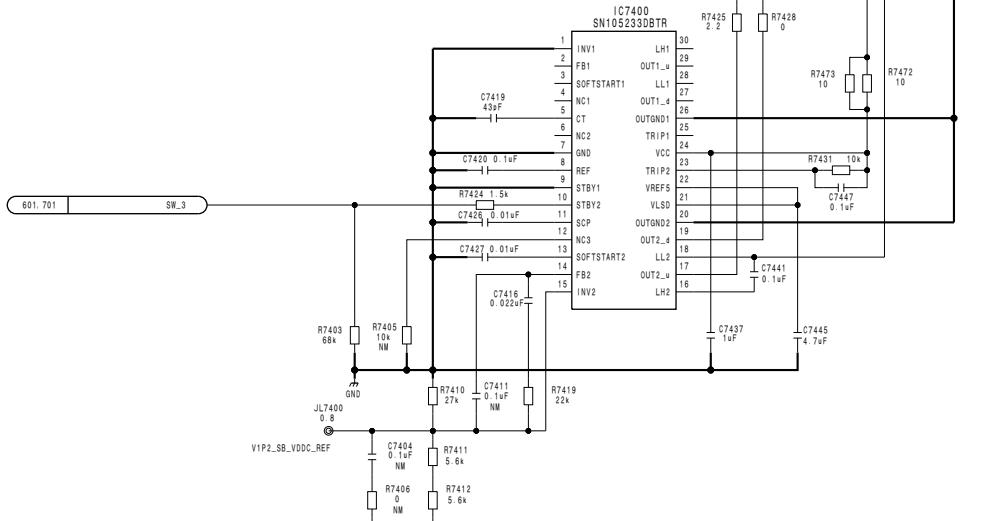
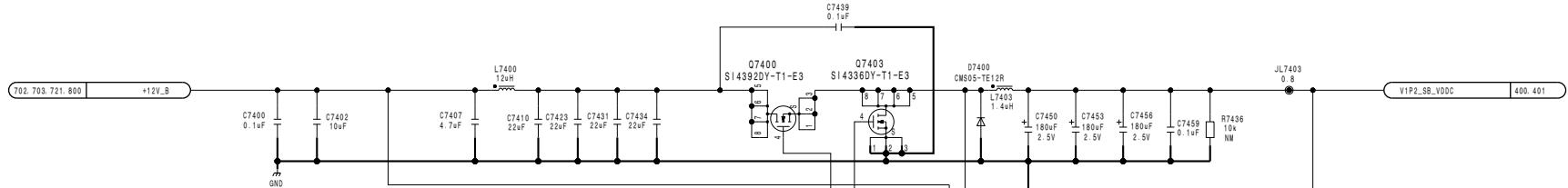


VRM for RSX (3 phases)



BE-28 (43/44)
SUFFIX: -12

BE-28 (43/44)
SUFFIX: -12



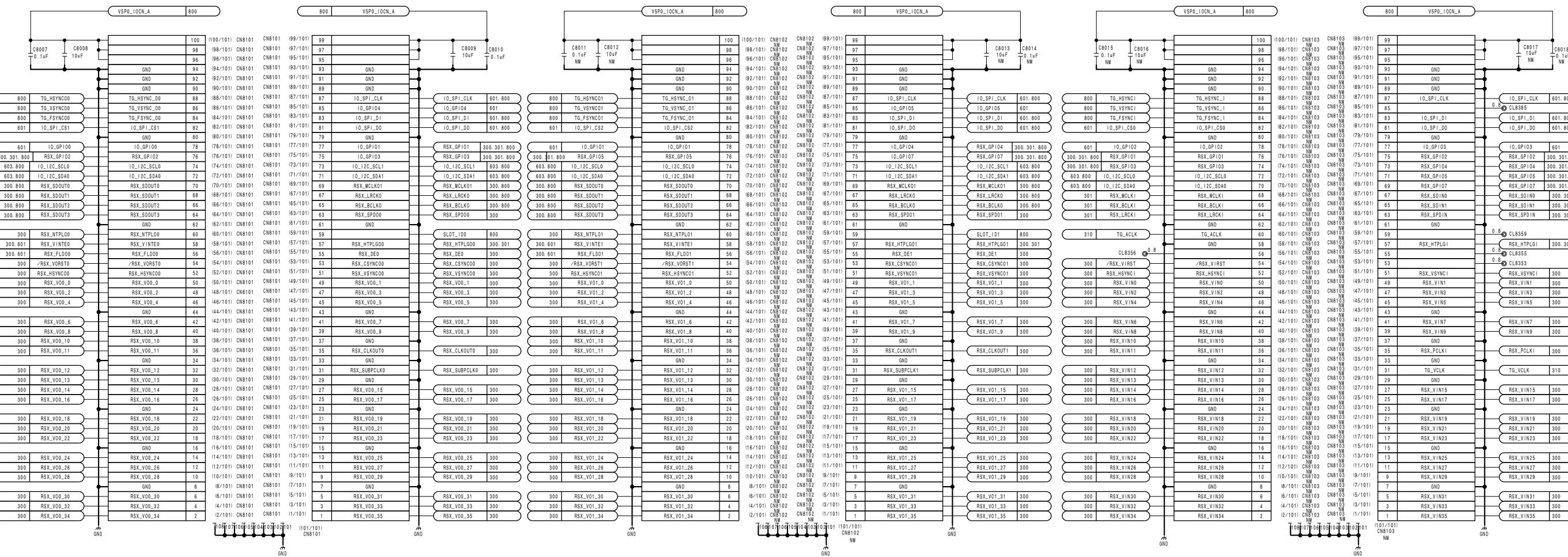
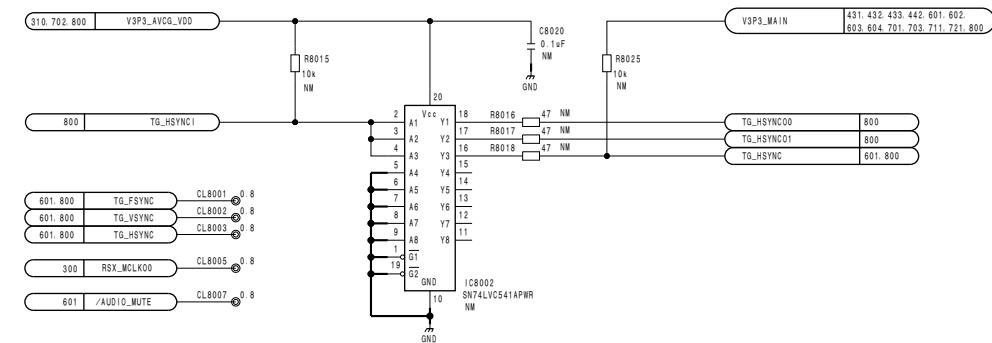
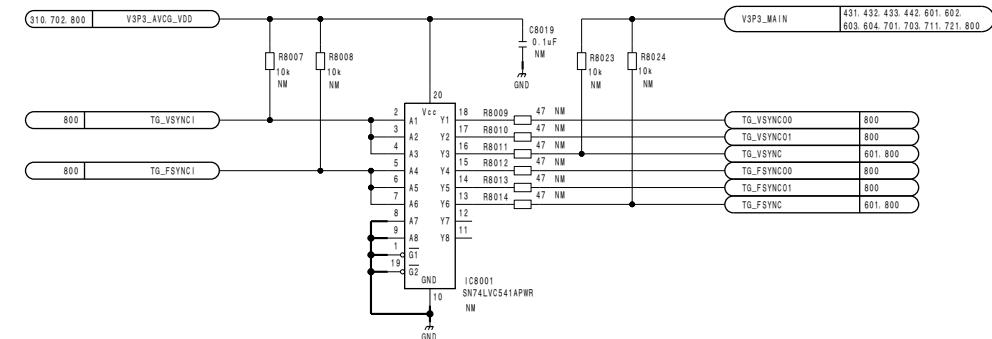
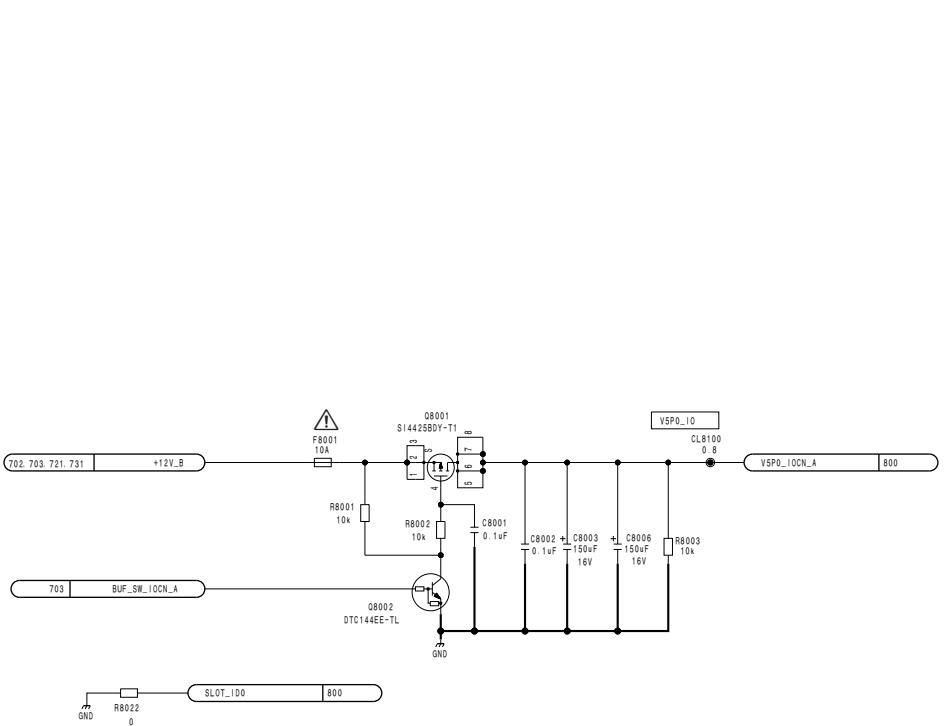
BE-28 (43/44)
BOARD NO. 1-876-411-12
SJX-300_BE-28_012_731

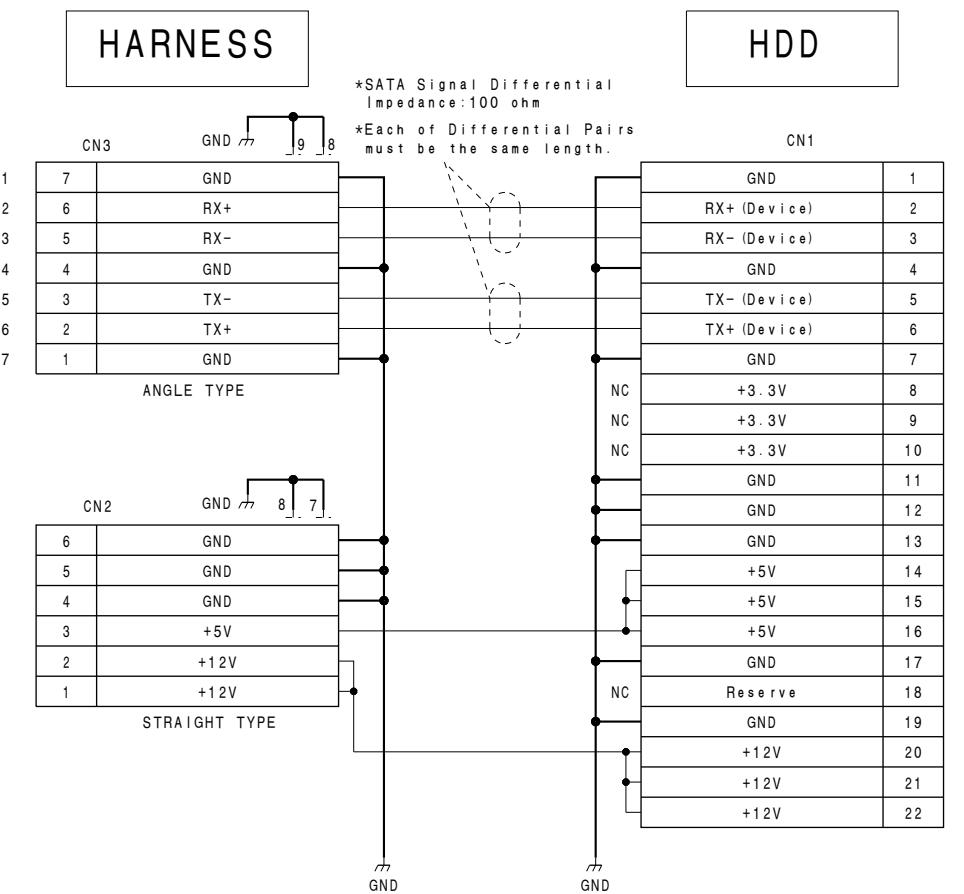
BE-28 (44/44)

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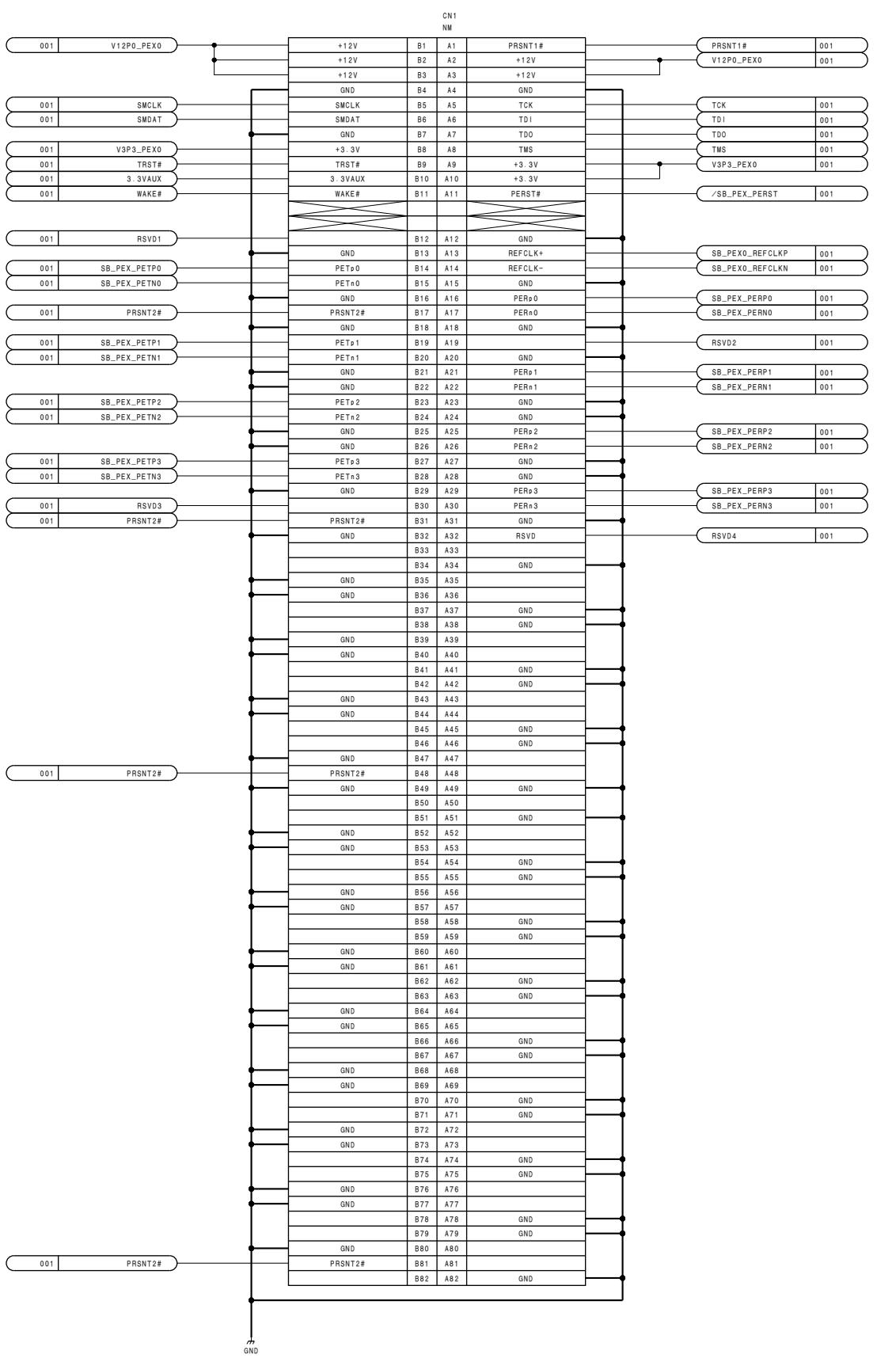
BE-28 (44/44)

SUFFIX: -12

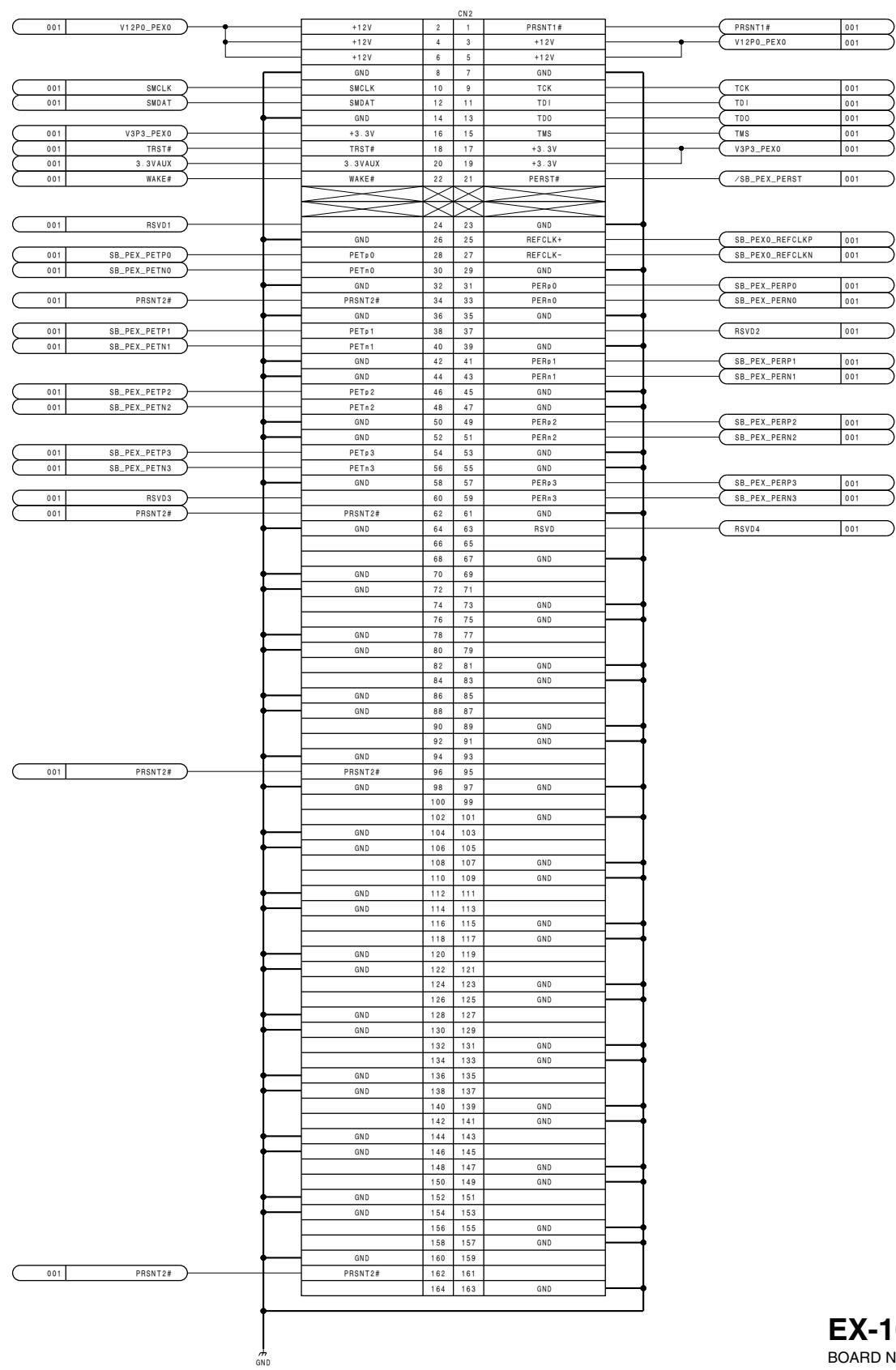


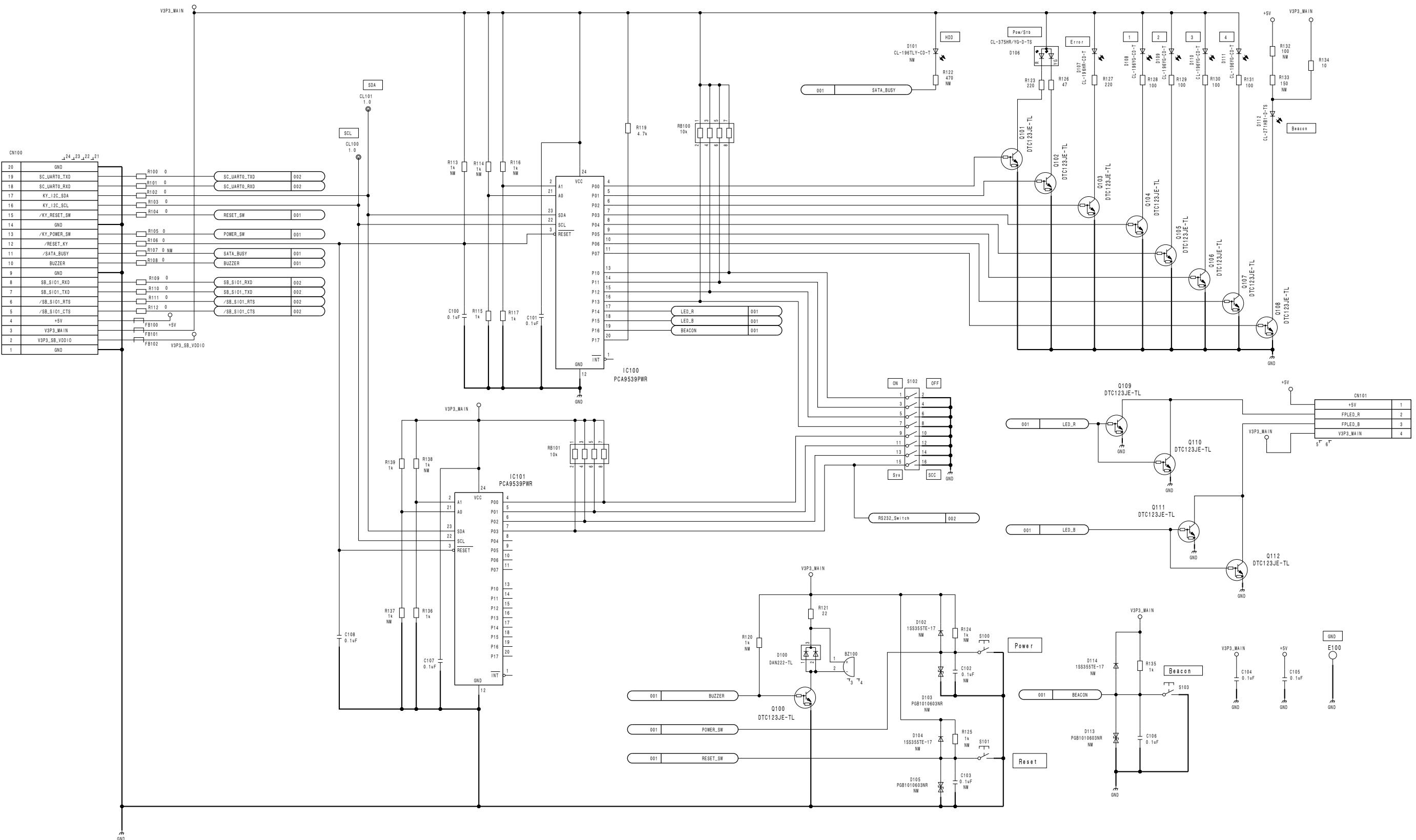
**A****B****C****D****E****F****G****H**

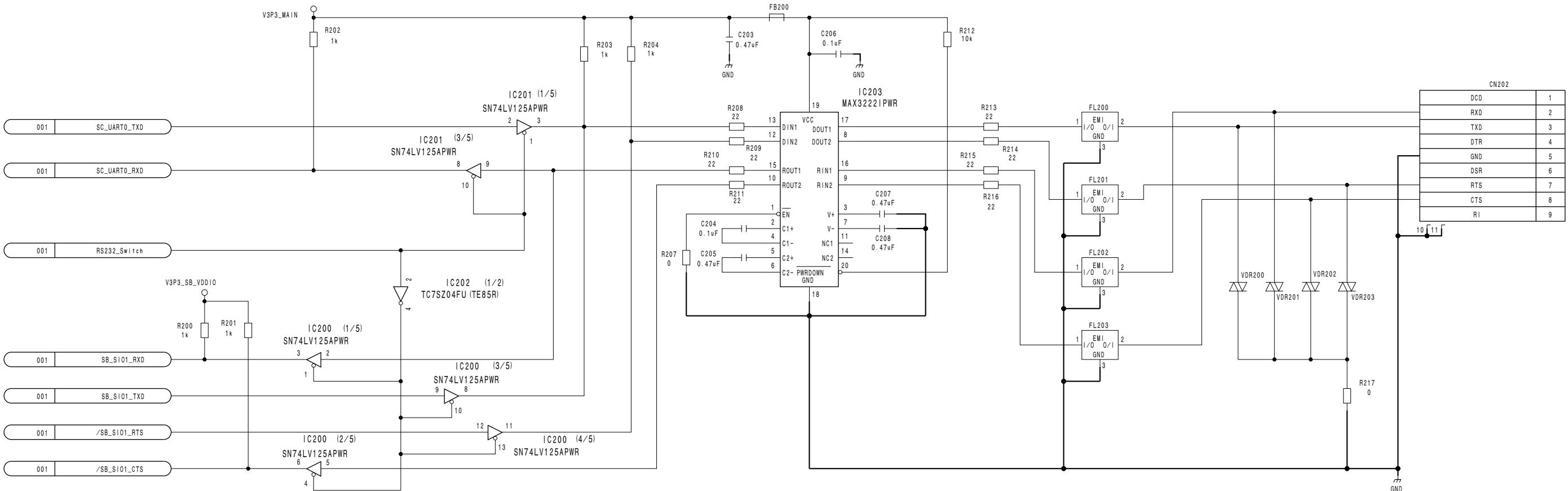
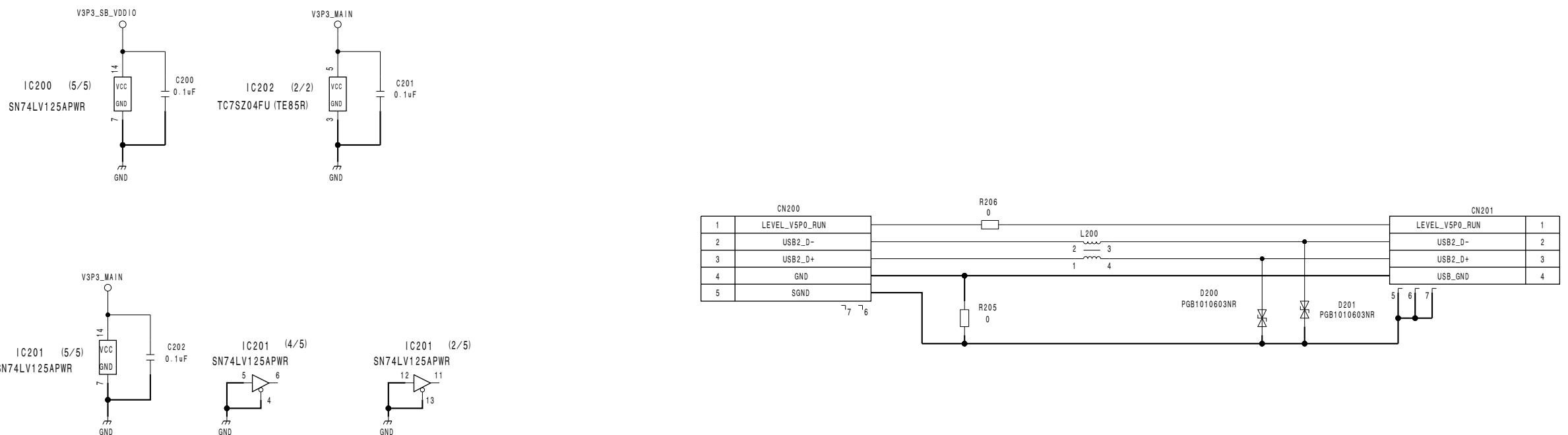
CardEdge Connector

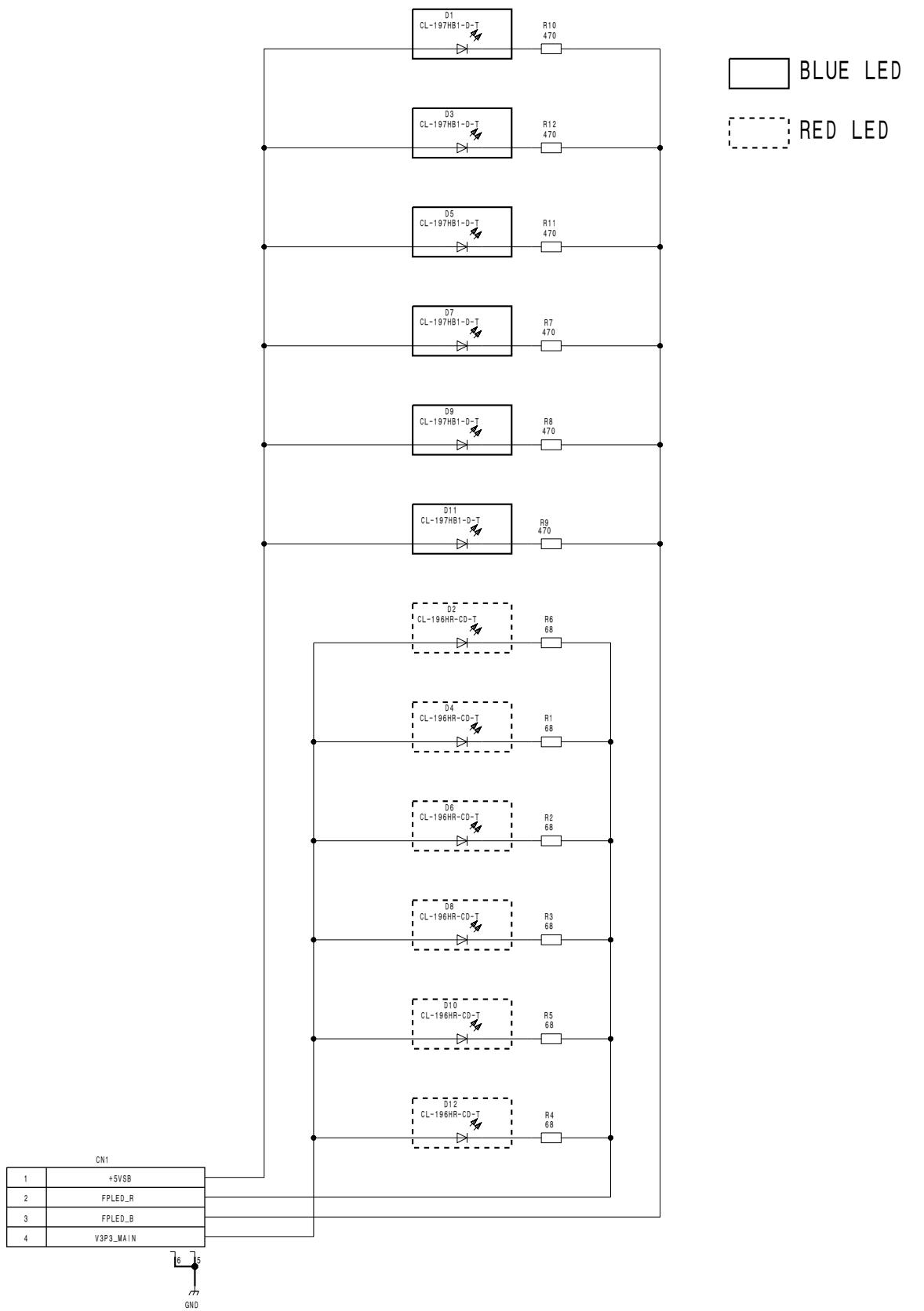


PCI-Express x16



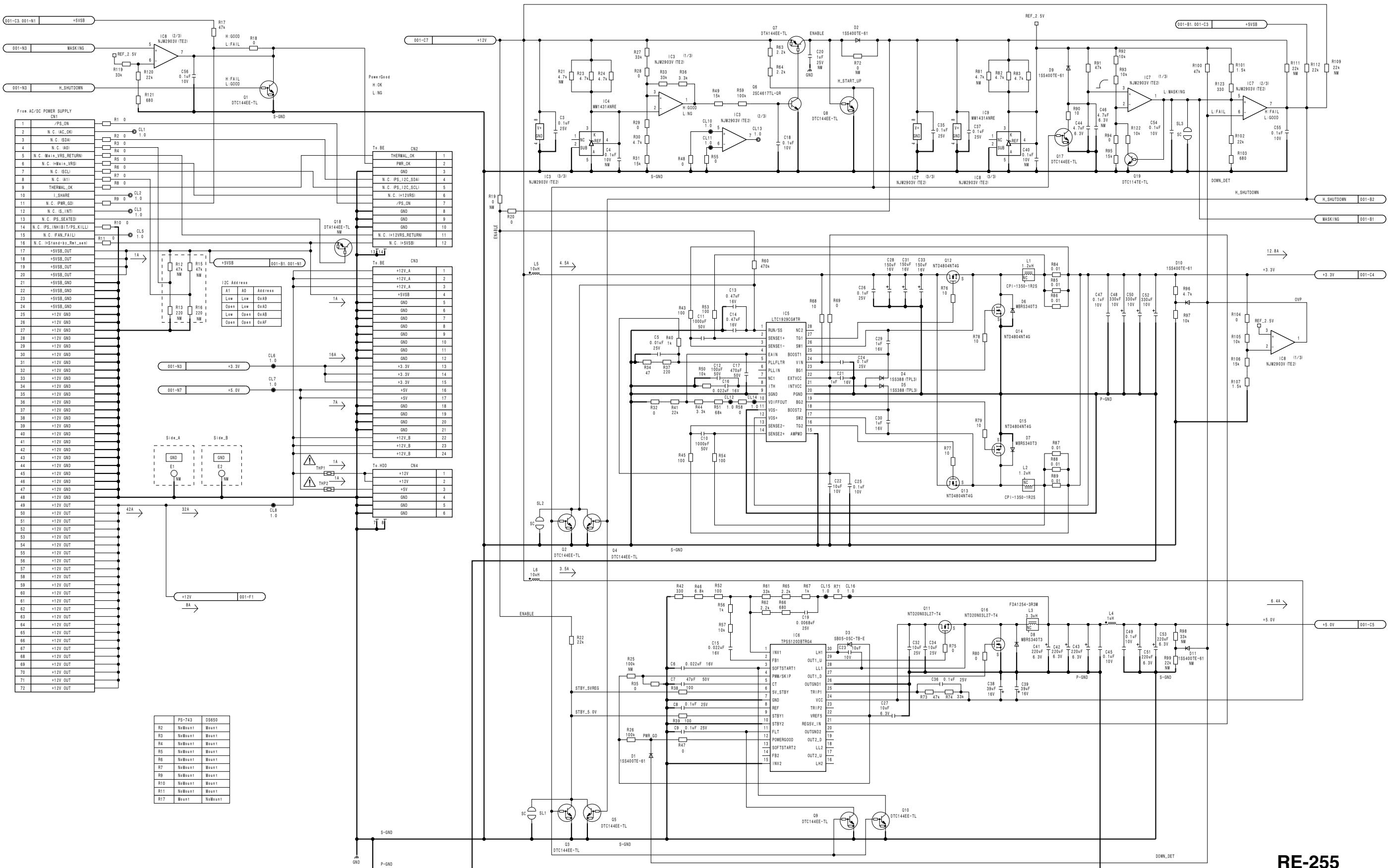


**1****2****3****4****5****4****5**

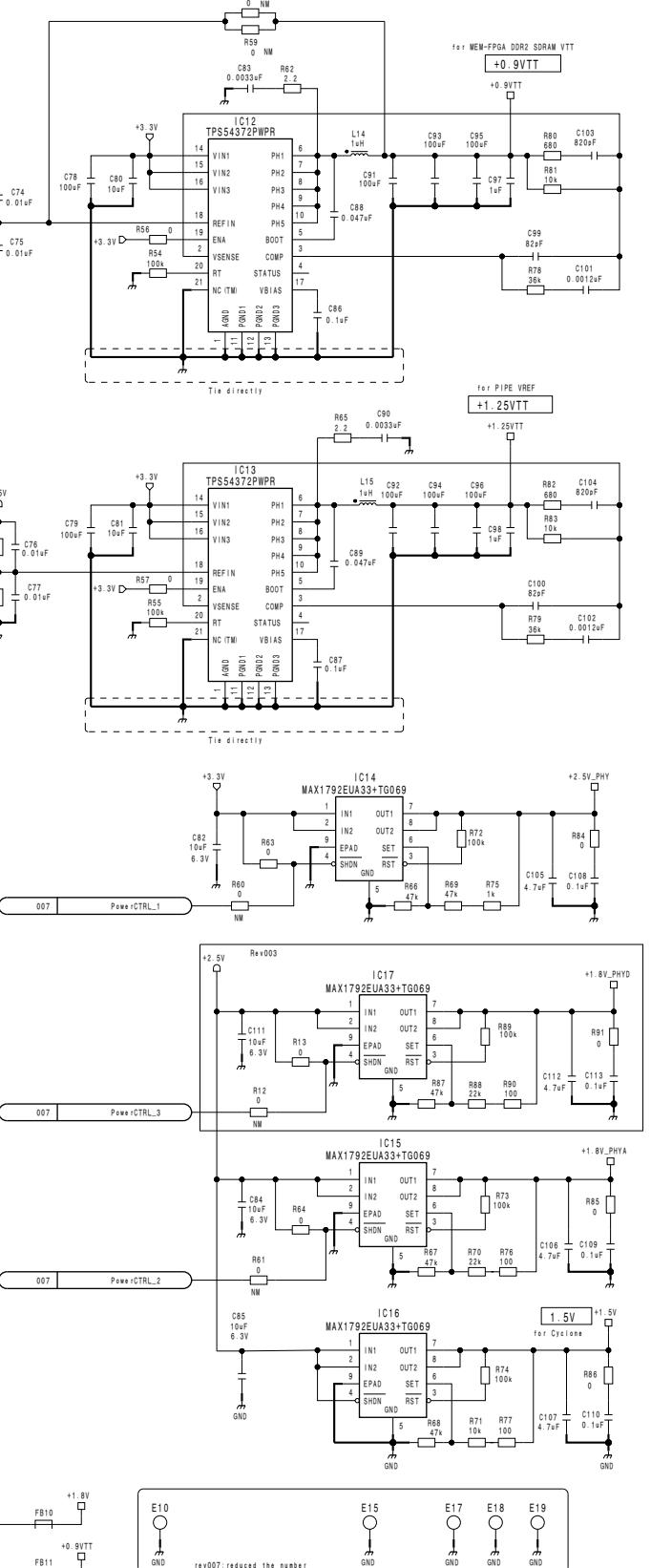
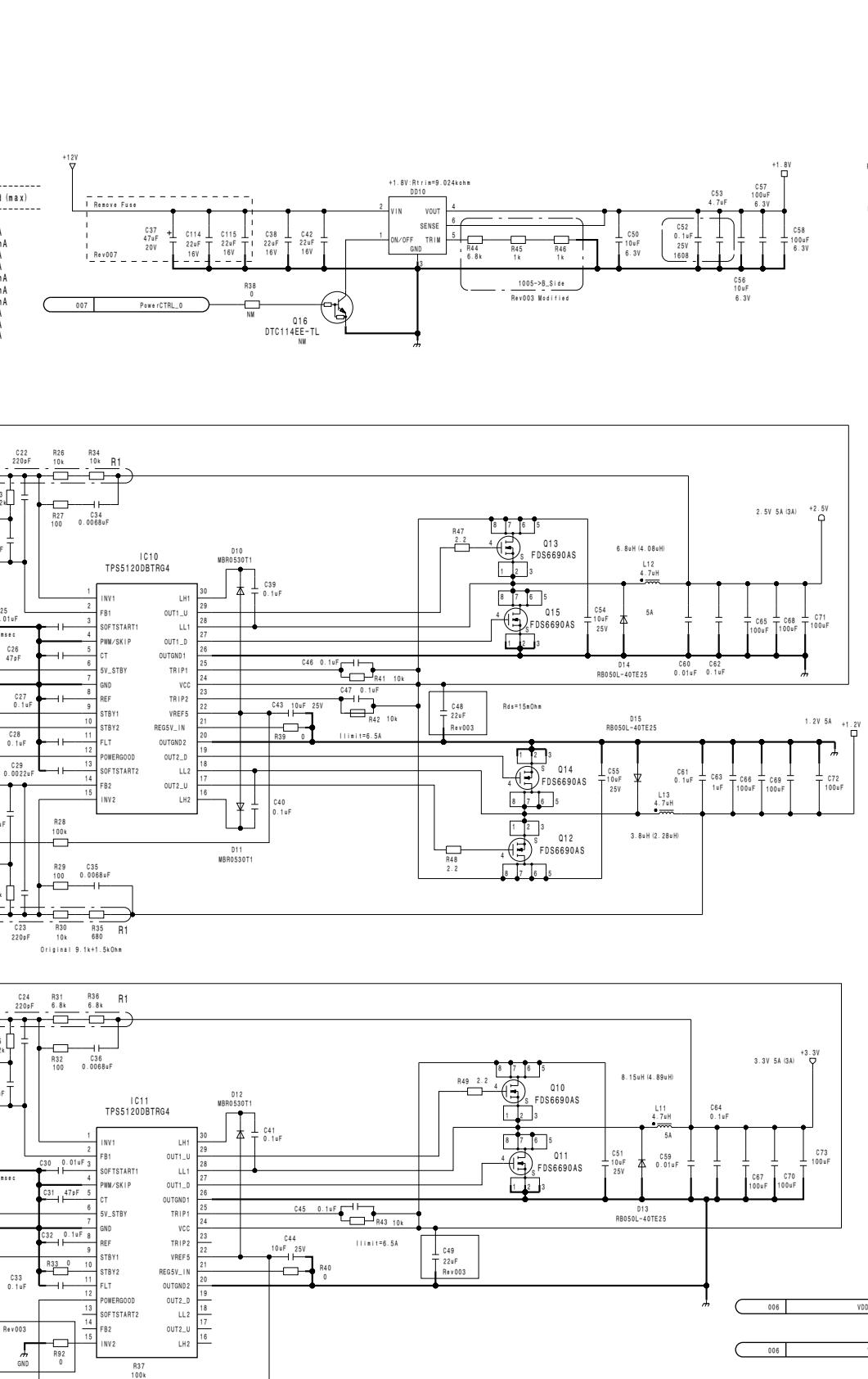
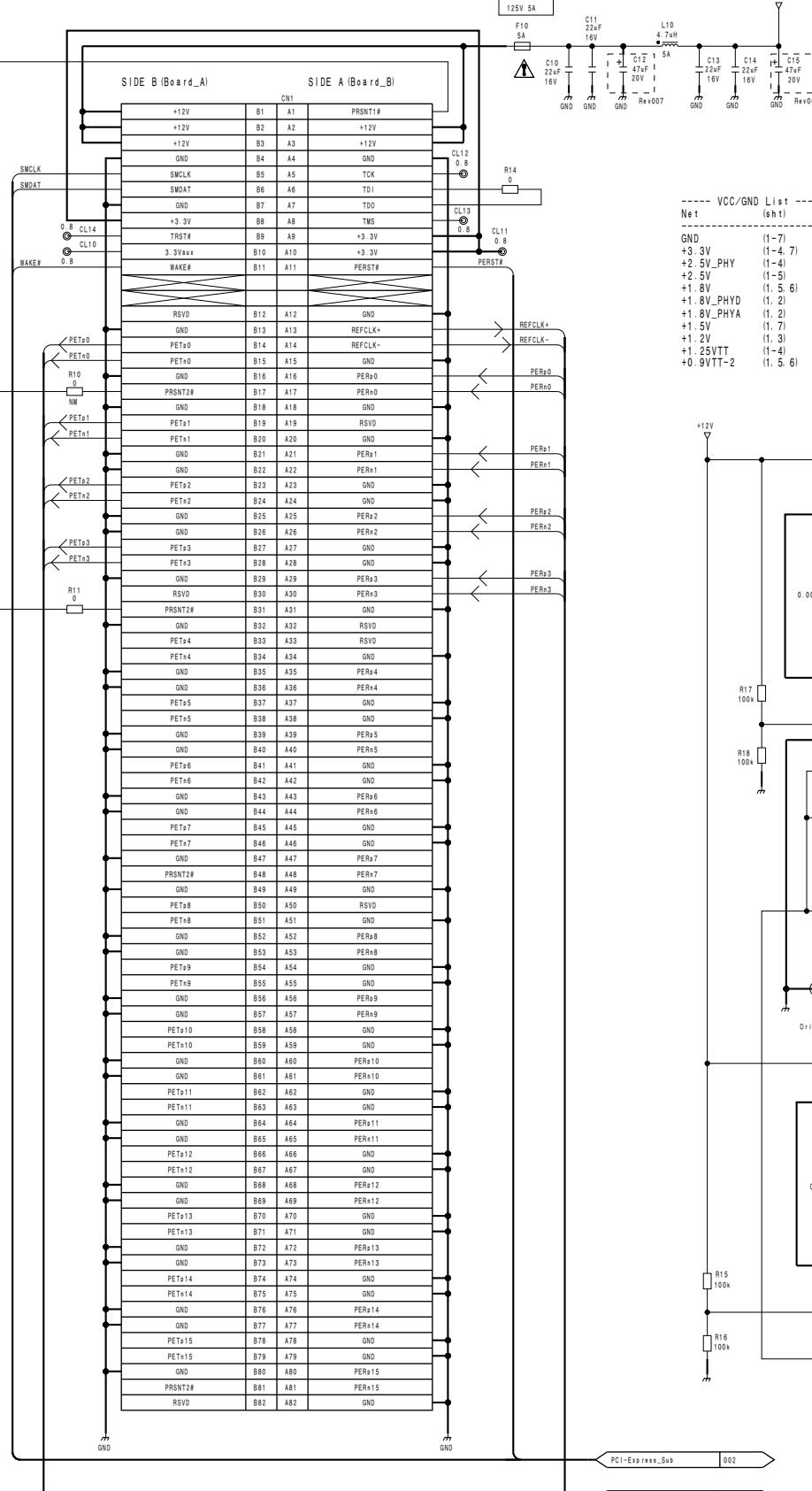


LED-471

BOARD NO. 1-873-988-11
SJX-300_LED-471_11A_1



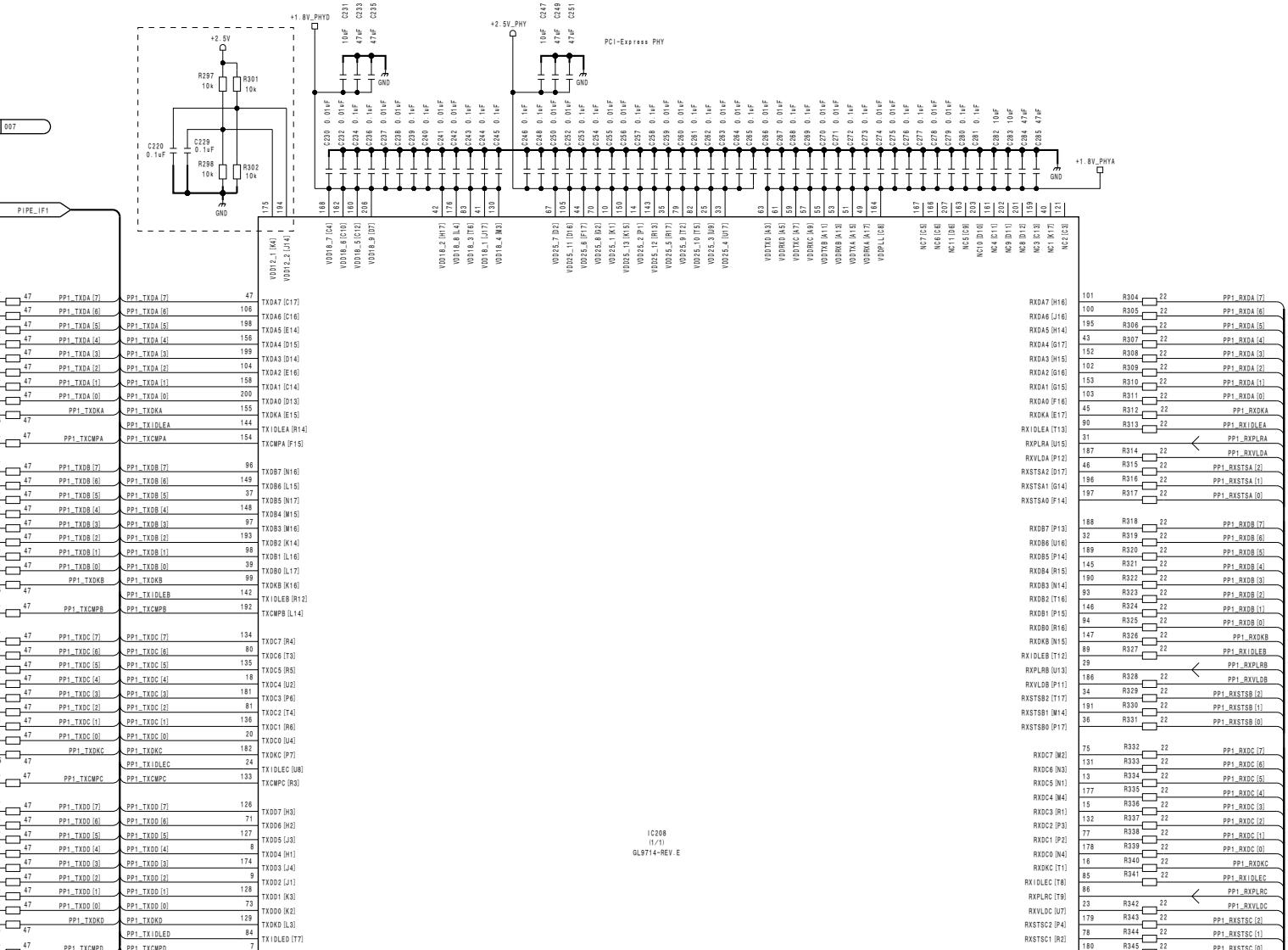
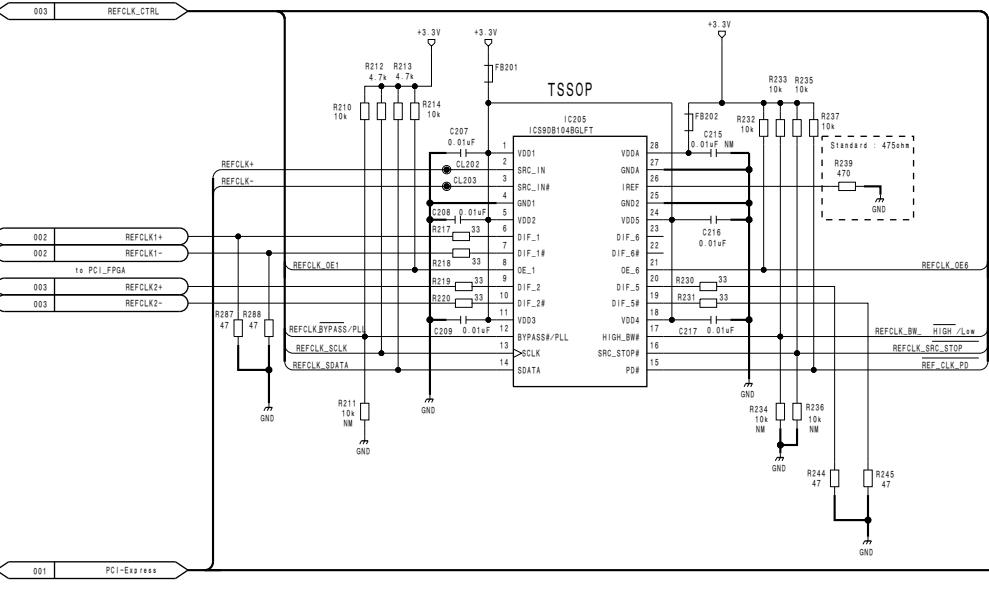
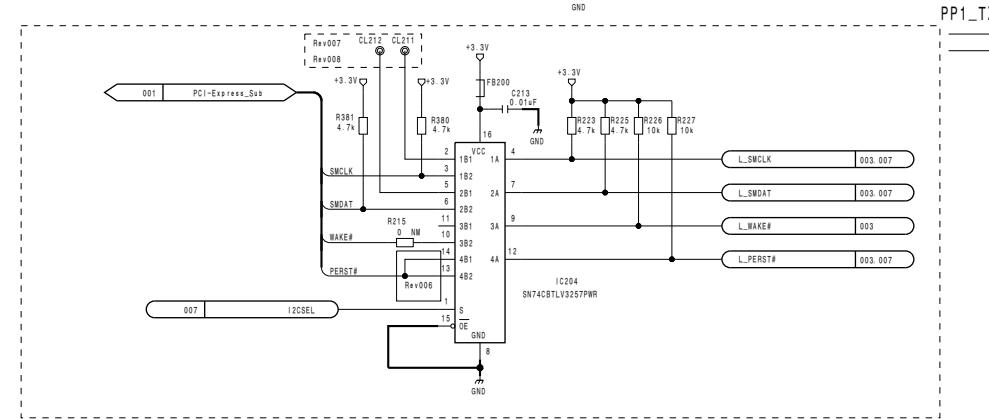
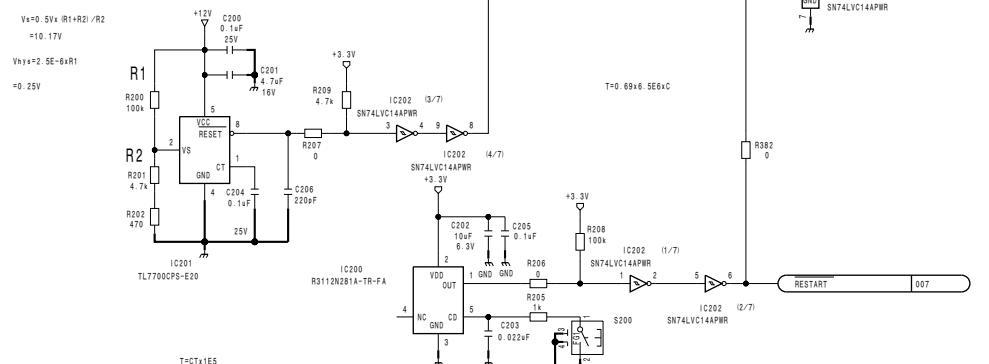
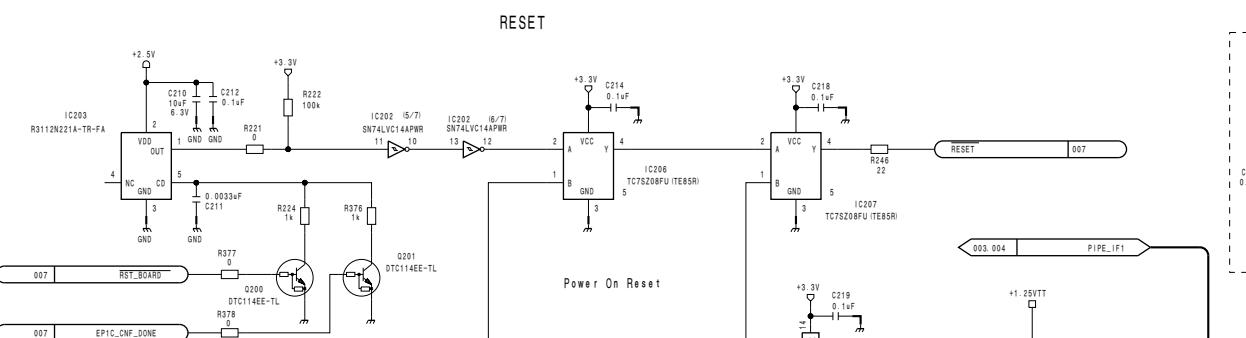
BKCU-EX1 (SY)



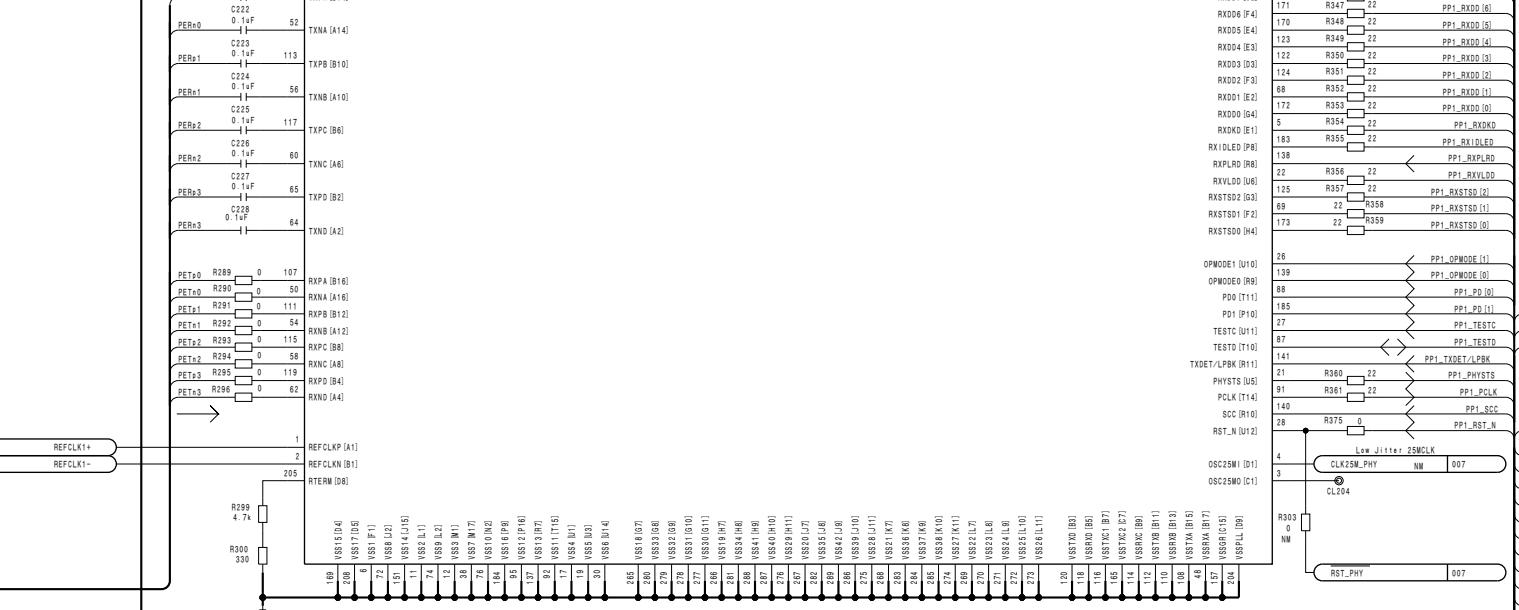
MEM-122 (2/7)
SUFFIX: -12

MEM-122 (2/7)
SUFFIX: -12

BKCU-EX1 (SY)



IC208 (1/1)
GL9714-REV.E



5-61

5-61

D

E

F

G

H

BCU-100 MM

A

B

C

D

E

F

G

H

**MEM-122
(2/7)**
BOARD NO.
1-876-302-12

SJXA-662_MEM-122_008_E

1

2

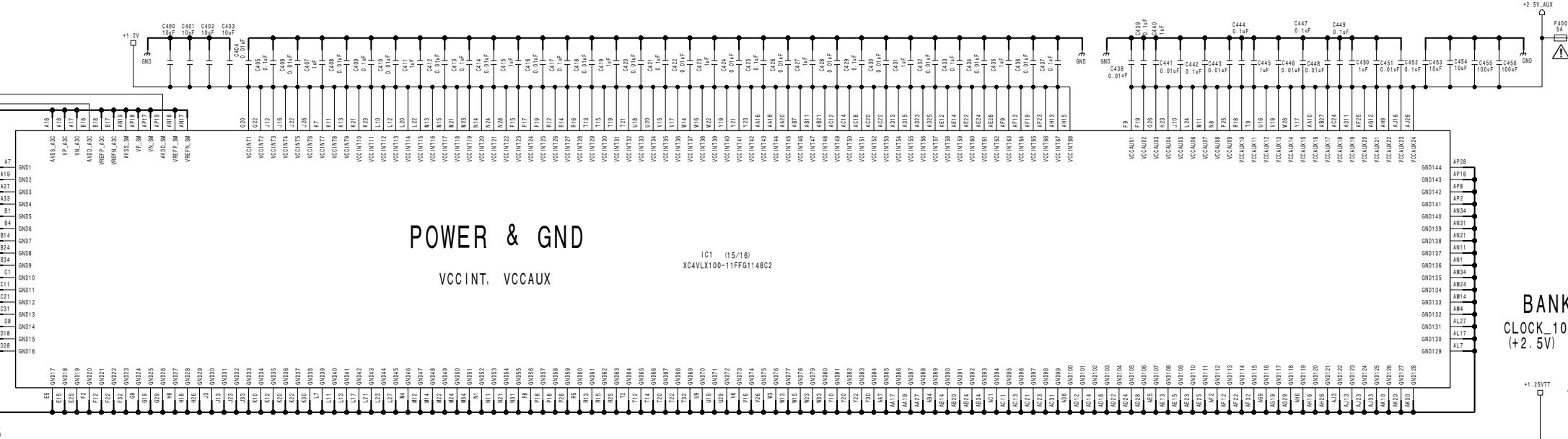
3

4

5

MEM-122 (3/7)
SUFFIX: -12

BKCU-EX1 (SY)



POWER & GND

VCCINT, VCCAUX

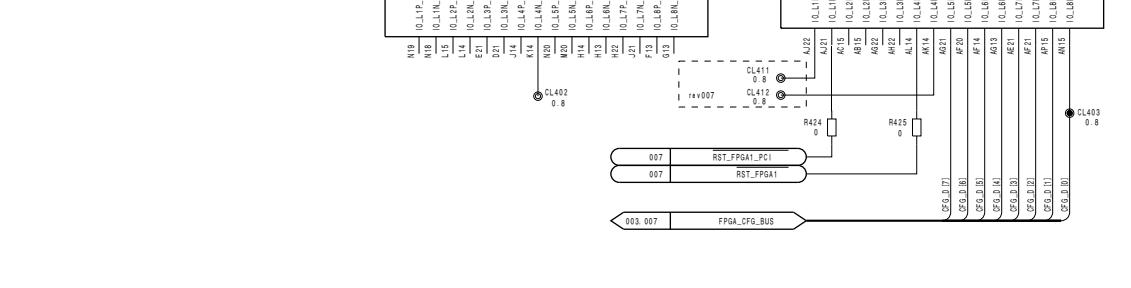
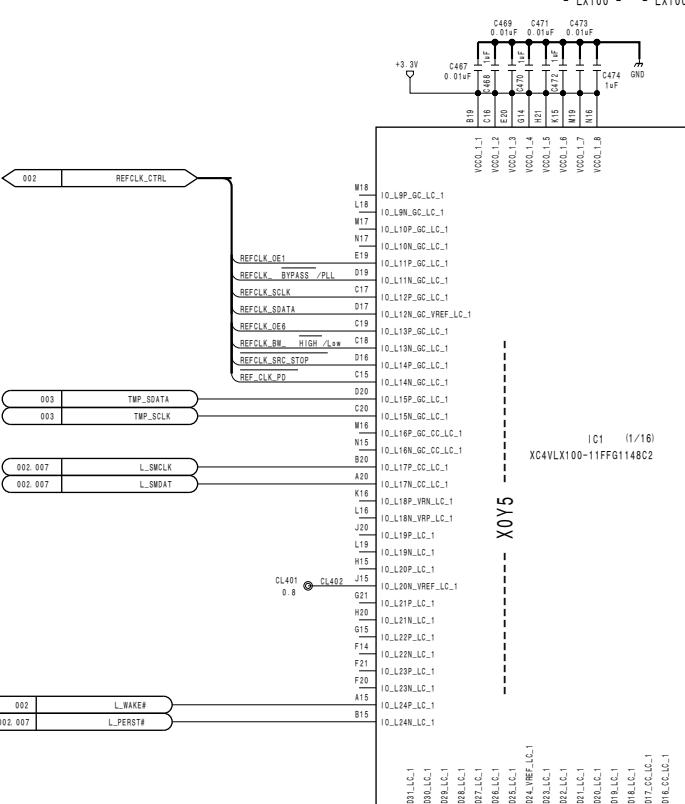
IC1 (15/16)
XC4VXLX100-11FFG1148C2

BANK1 GCK_INPUT & DIPSW/LED

REGION X0Y8 REGION X0Y6

BANK2 CONFIG & TEST_PIN

REGION X0Y5 REGION X0Y3



MEM-122 (3/7)
SUFFIX: -12

A

B

C

D

E

F

G

H

TEMP SENSOR

MEM-122 (3/7)
BOARD NO. 1-876-302-12
SJXA-662_MEM-122_008_3

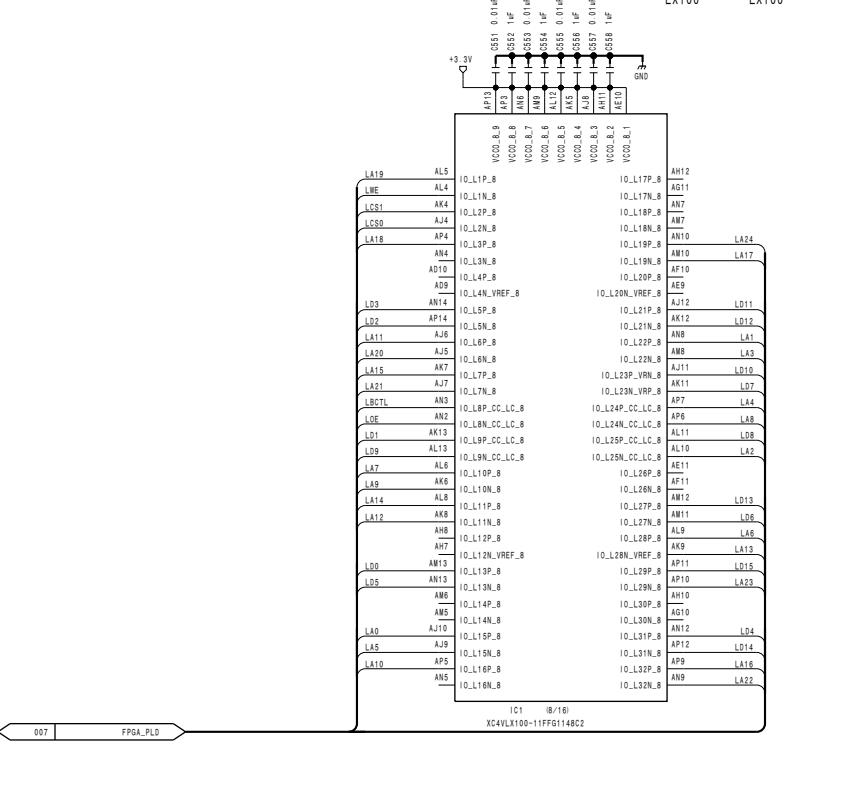
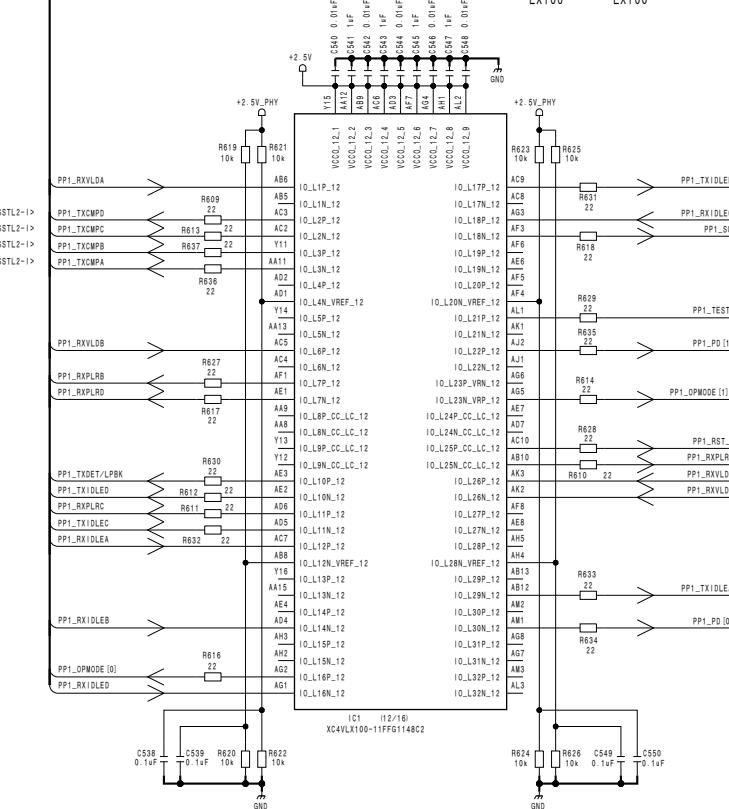
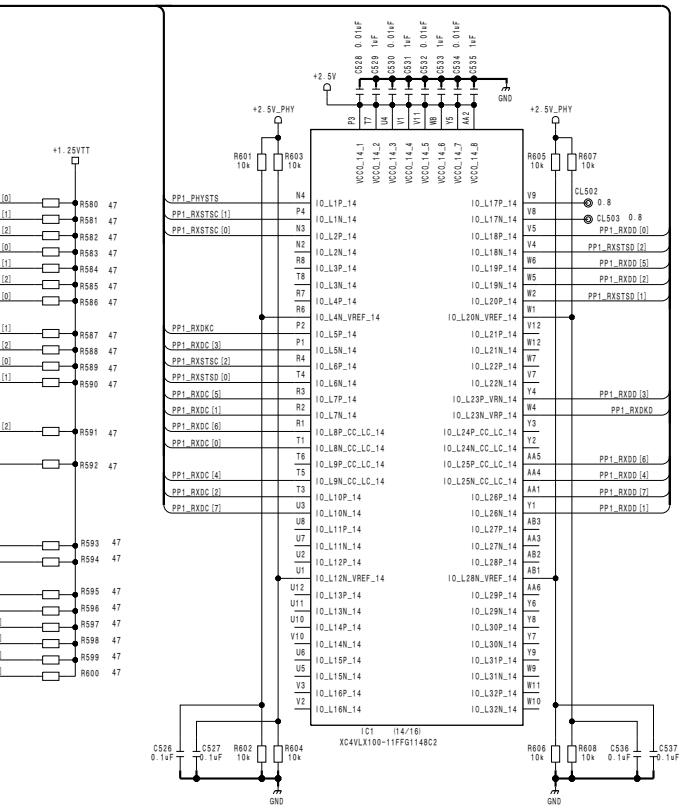
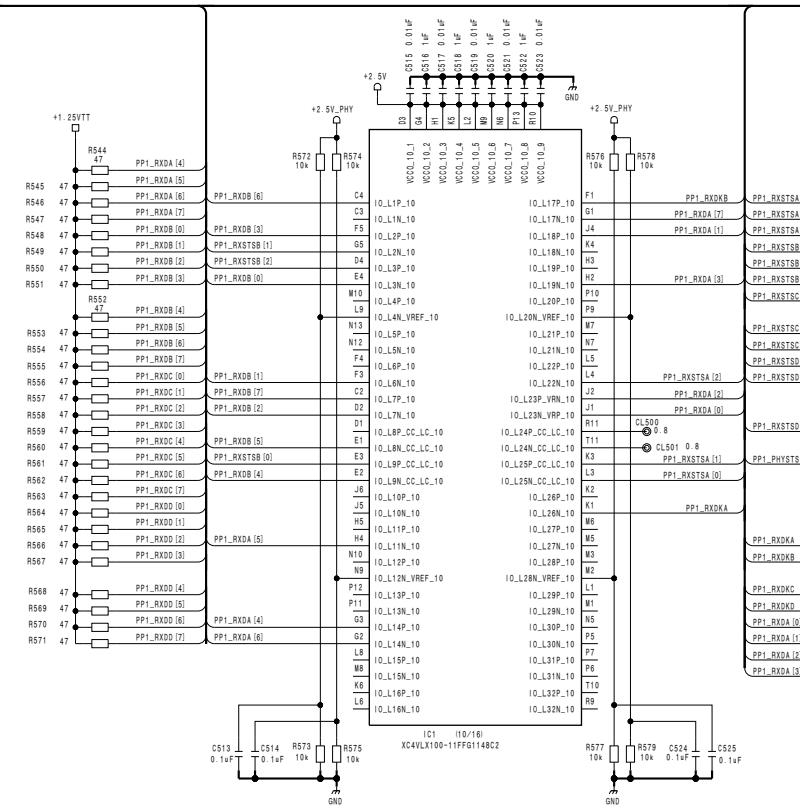
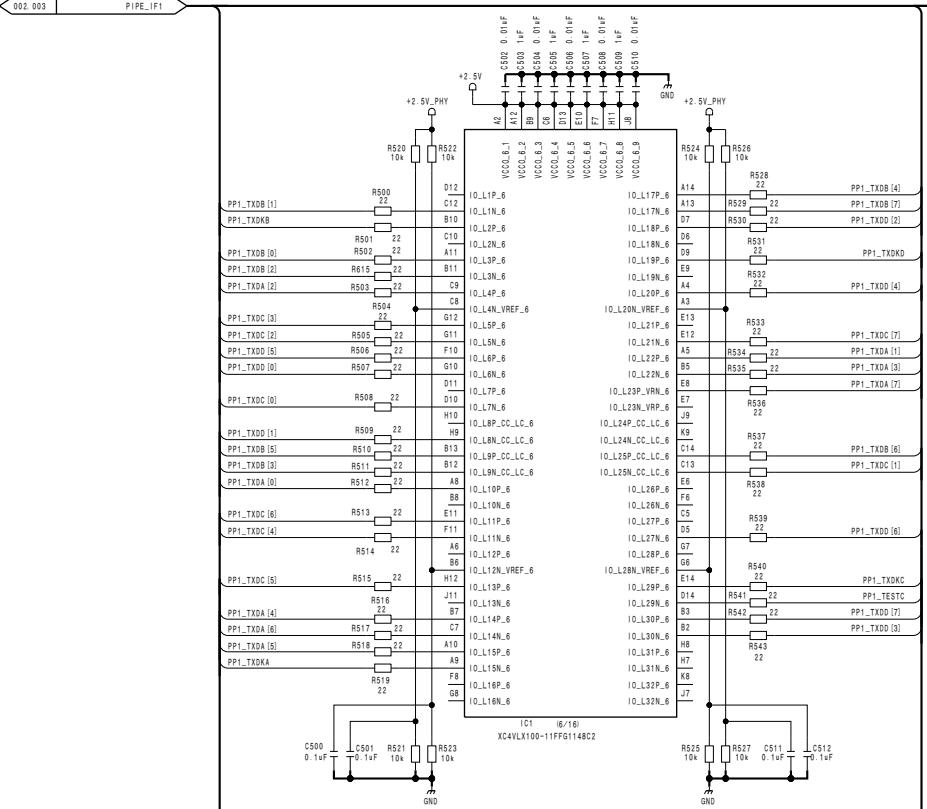
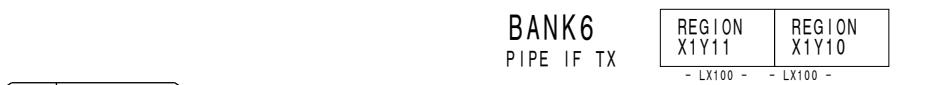
MEM-122 (4/7)

SUFFIX: -12

MEM-122 (4/7)

SUFFIX: -12

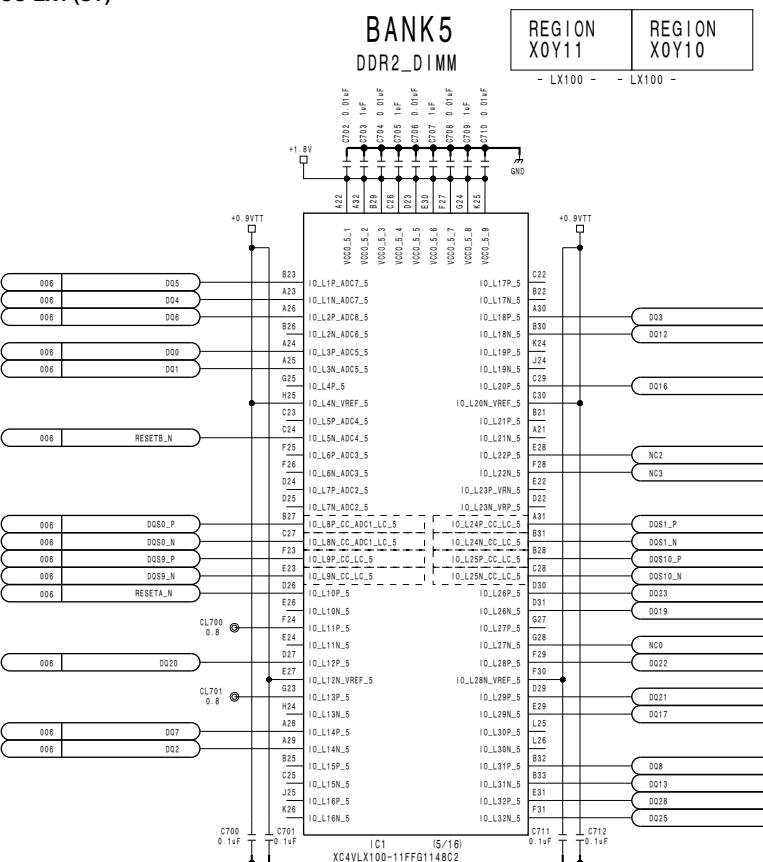
BKCU-EX1 (SY)



MEM-122 (5/7)
SUFFIX: -12

BKCU-EX1 (SY)

1

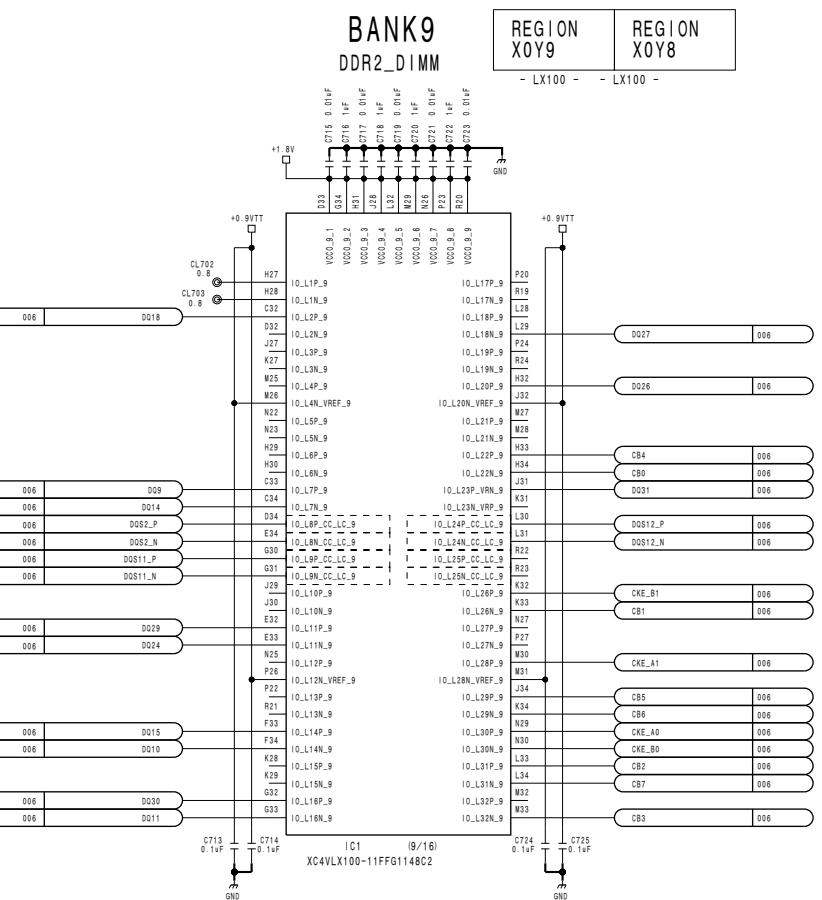


MEM-122 (5/7)
SUFFIX: -12

BANK9 DDR2_DIMM

REGION X0Y9 | **REGION X0Y8**

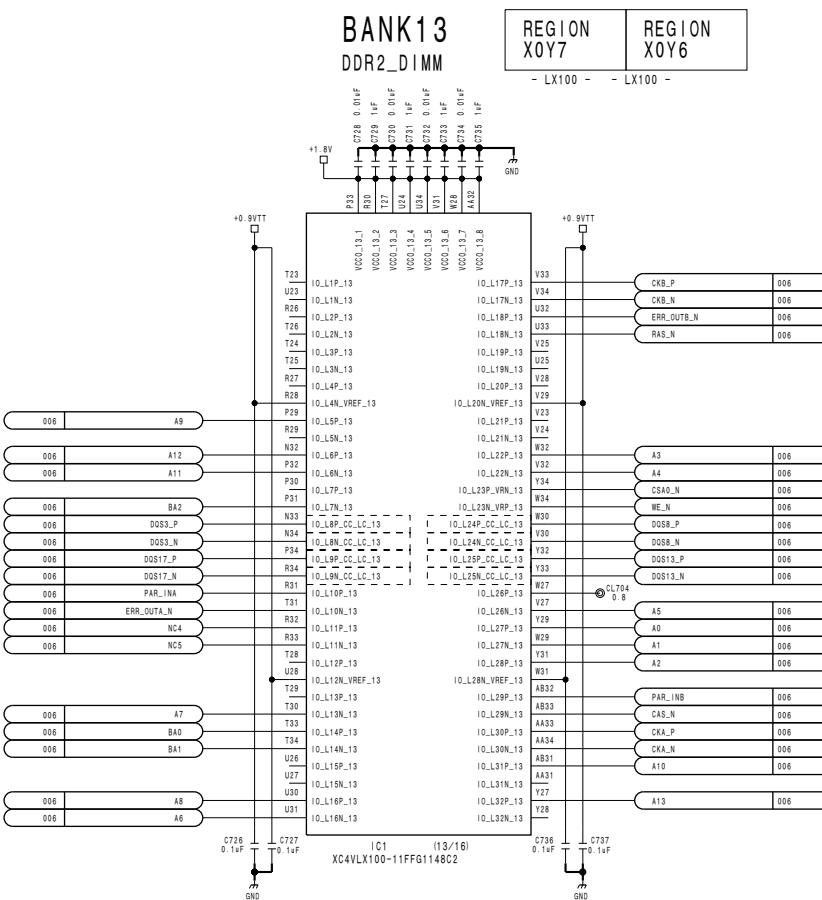
- LX100 - - LX100 -



BANK13 DDR2_DIMM

REGION X0Y7 | **REGION X0Y6**

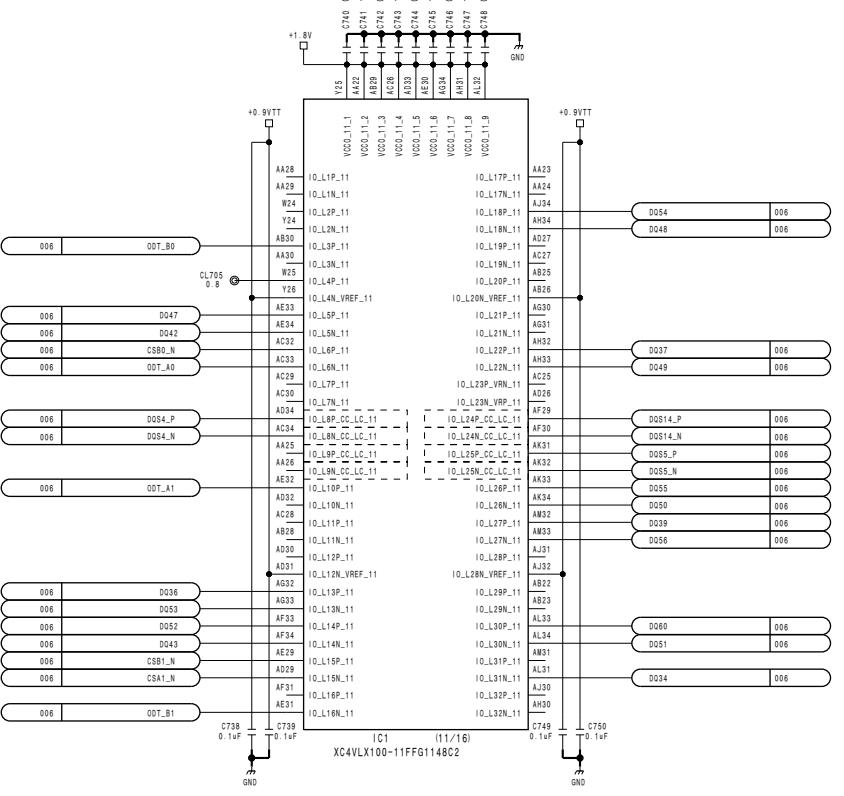
- LX100 - - LX100 -



BANK11 DDR2_DIMM

REGION X0Y3 | **REGION X0Y2**

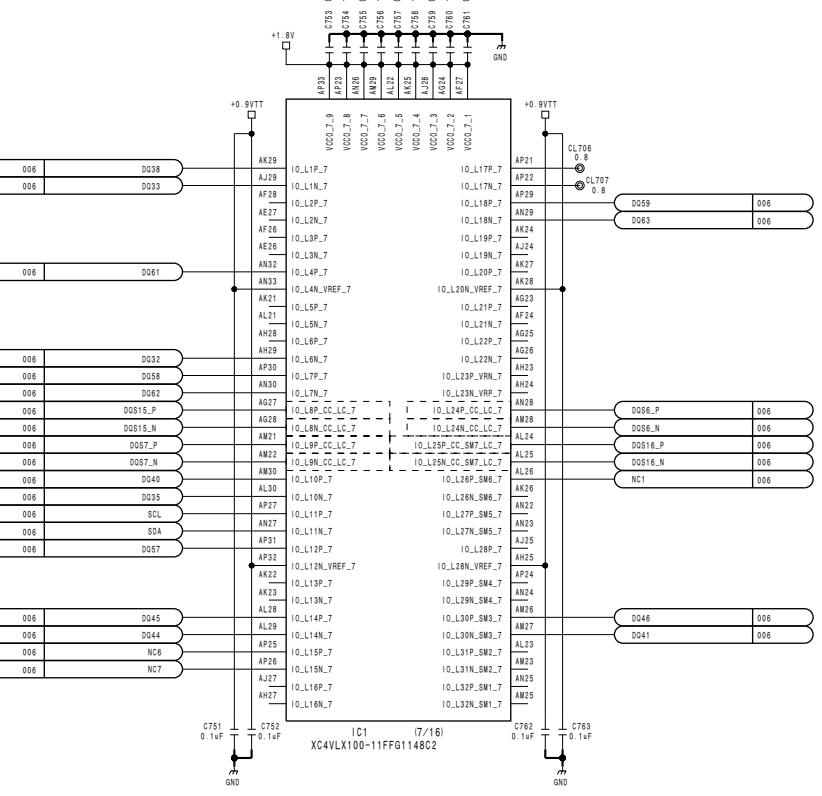
- LX100 - - LX100 -



BANK7 DDR2_DIMM

REGION X0Y1 | **REGION X0Y0**

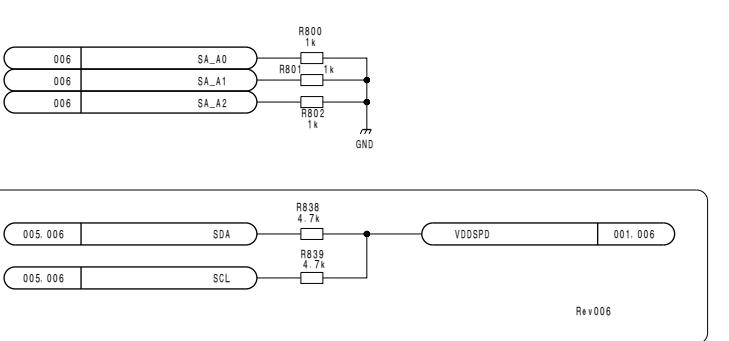
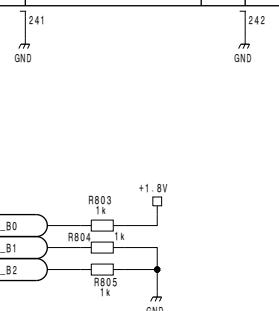
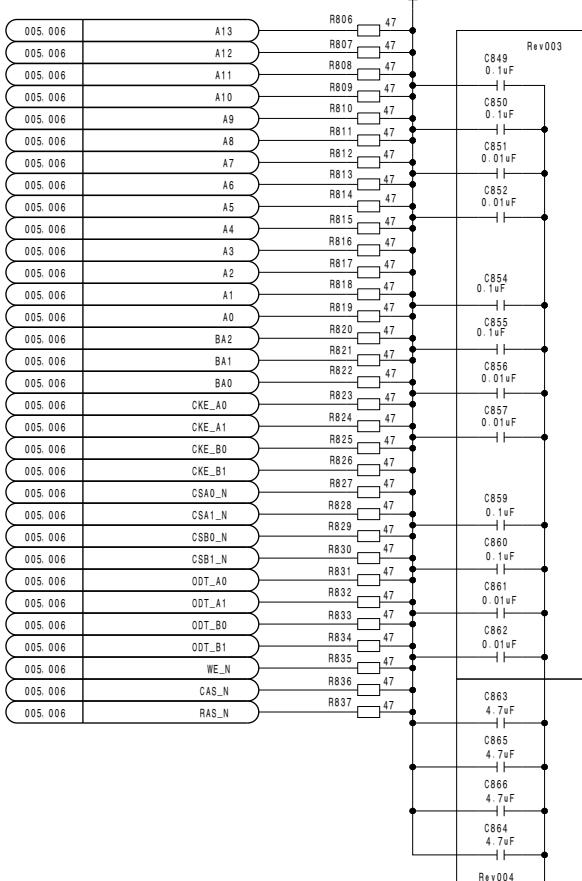
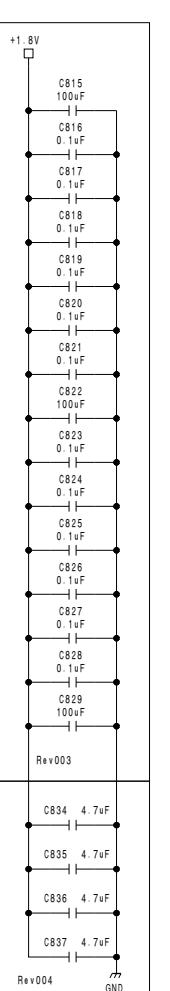
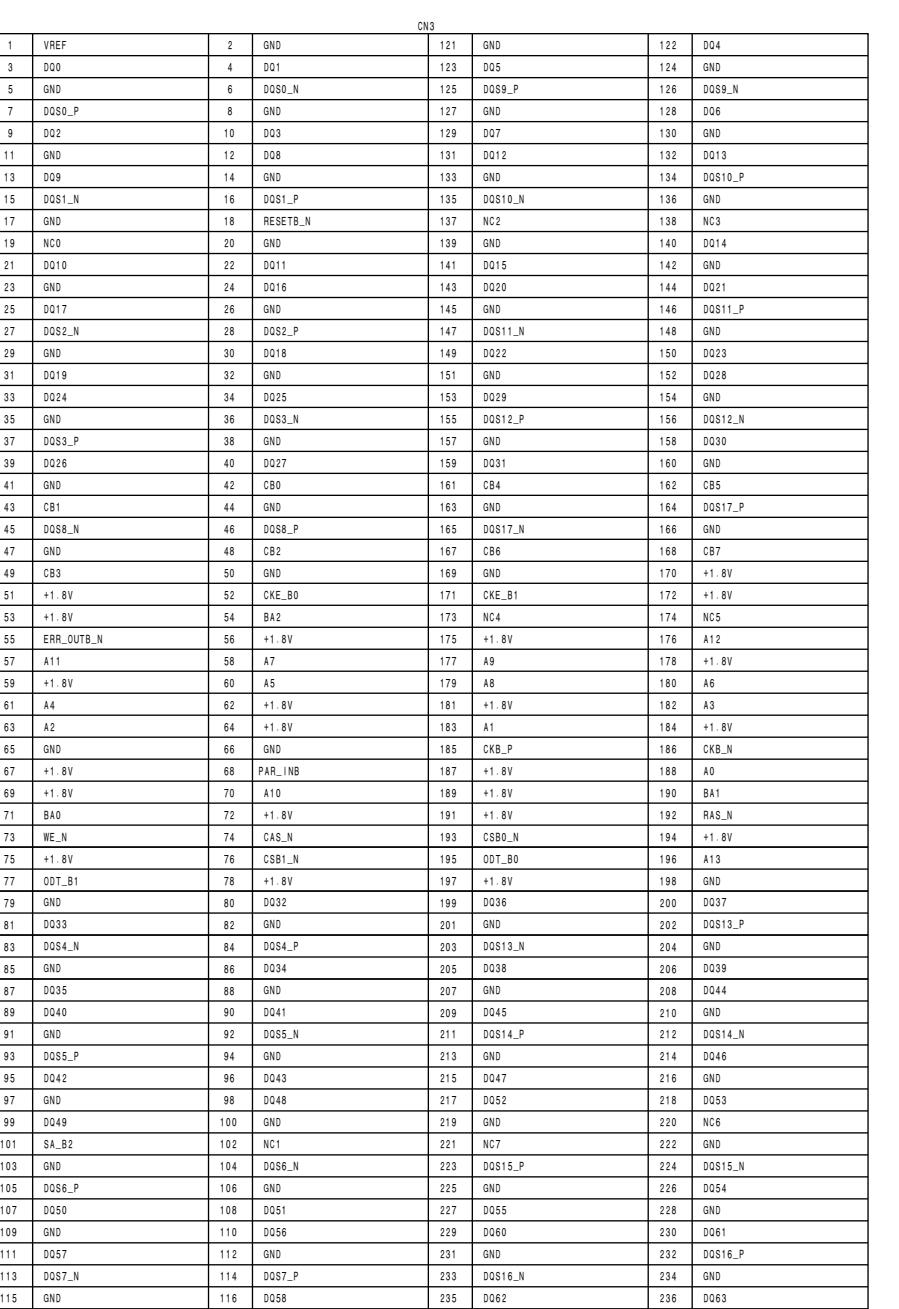
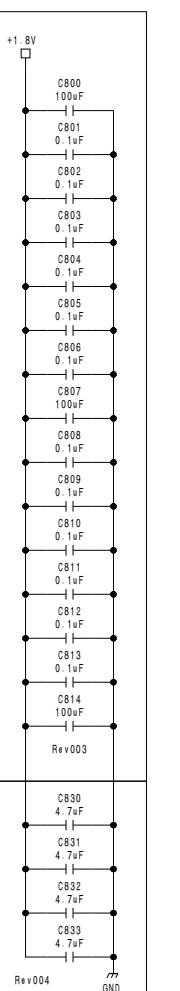
- LX100 - - LX100 -



MEM-122 (5/7)
BOARD NO. 1-876-302-12
SJXA-662_MEM-122_008_5

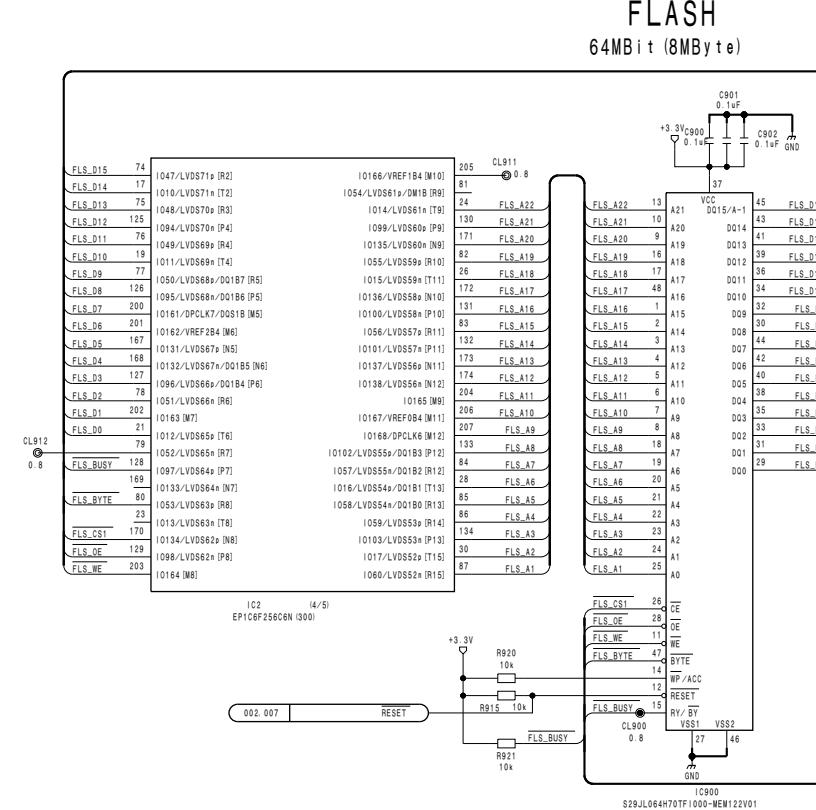
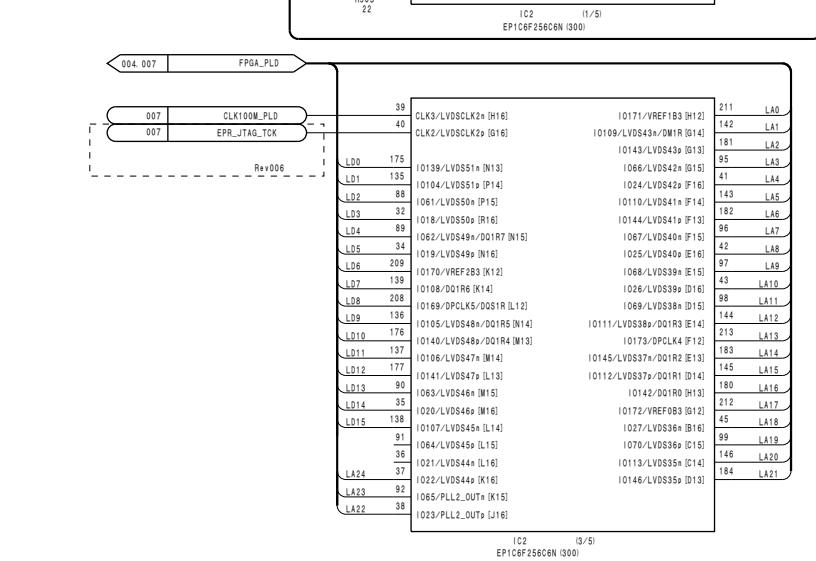
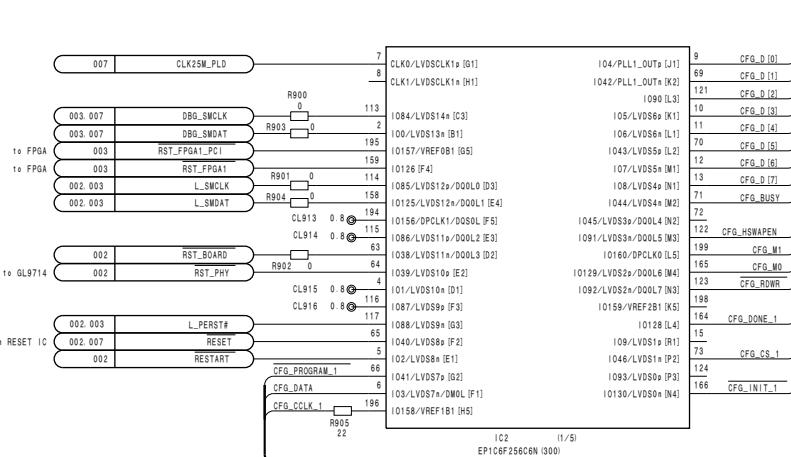
BKCU-EX1 (SY)

1	VREF	2	GND	121	GND	122	D04
3	D00	4	D01	123	D05	124	GND
5	GND	6	D050_N	125	D059_P	126	D059_N
7	D050_P	8	GND	127	GND	128	D06
9	D02	10	D03	129	D07	130	GND
11	GND	12	D08	131	D012	132	D013
13	D09	14	GND	133	GND	134	D0510_P
15	D051_N	16	D051_P	135	D0510_N	136	GND
17	GND	18	RESETA_N	137	NC2	138	NC3
19	NCO	20	GND	139	GND	140	D014
21	D010	22	D011	141	D015	142	GND
23	GND	24	D016	143	D020	144	D021
25	D017	26	GND	145	GND	146	D0511_P
27	D052_N	28	D052_P	147	D0511_N	148	GND
29	GND	30	D018	149	D022	150	D023
31	D019	32	GND	151	GND	152	D028
33	D024	34	D025	153	D029	154	GND
35	GND	36	D053_N	155	D0512_P	156	D0512_N
37	D053_P	38	GND	157	GND	158	D030
39	D026	40	D027	159	D031	160	GND
41	GND	42	C00	161	C04	162	C05
43	CB1	44	GND	163	GND	164	D0517_P
45	D058_N	46	D058_P	165	D0517_N	166	GND
47	GND	48	CB2	167	C06	168	CB7
49	CB3	50	GND	169	GND	170	+1.8V
51	+1.8V	52	CKE_A0	171	CKE_A1	172	+1.8V
53	+1.8V	54	B02	173	NC4	174	NC5
55	ERR_OUTA_N	56	+1.8V	175	+1.8V	176	A12
57	A11	58	A7	177	A9	178	+1.8V
59	+1.8V	60	A5	179	A8	180	A6
61	A4	62	+1.8V	181	+1.8V	182	A3
63	A2	64	+1.8V	183	A1	184	+1.8V
65	GND	66	GND	185	CKA_P	186	CKA_N
67	+1.8V	68	PAR_INA	187	+1.8V	188	A0
69	+1.8V	70	A10	189	+1.8V	190	BA1
71	BA0	72	+1.8V	191	+1.8V	192	RAS_N
73	WE_N	74	CAS_N	193	CSAO_N	194	+1.8V
75	+1.8V	76	CSA1_N	195	ODT_A0	196	A13
77	ODT_A1	78	+1.8V	197	+1.8V	198	GND
79	GND	80	D032	199	D036	200	D037
81	D033	82	GND	201	GND	202	D0513_P
83	D054_N	84	D054_P	203	D0513_N	204	GND
85	GND	86	D034	205	D038	206	D039
87	D035	88	GND	207	GND	208	D044
89	D040	90	D041	209	D045	210	GND
91	GND	92	D055_N	211	D0514_P	212	D0514_N
93	D055_P	94	GND	213	GND	214	D046
95	D042	96	D043	215	D047	216	GND
97	GND	98	D048	217	D052	218	D053
99	D049	100	GND	219	GND	220	NC6
101	SA_A2	102	NC1	221	NC7	222	GND
103	GND	104	D056_N	223	D0515_P	224	D0515_N
105	D056_P	106	GND	225	GND	226	D054
107	D050	108	D051	227	D055	228	GND
109	GND	110	D056	229	D060	230	D061
111	D057	112	GND	231	GND	232	D0516_P
113	D057_N	114	D057_P	233	D0516_N	234	GND
115	GND	116	D058	235	D062	236	D063
117	D059	118	GND	237	GND	238	VDDSPD
119	SDA	120	SCL	239	SA_A0	240	SA_A1

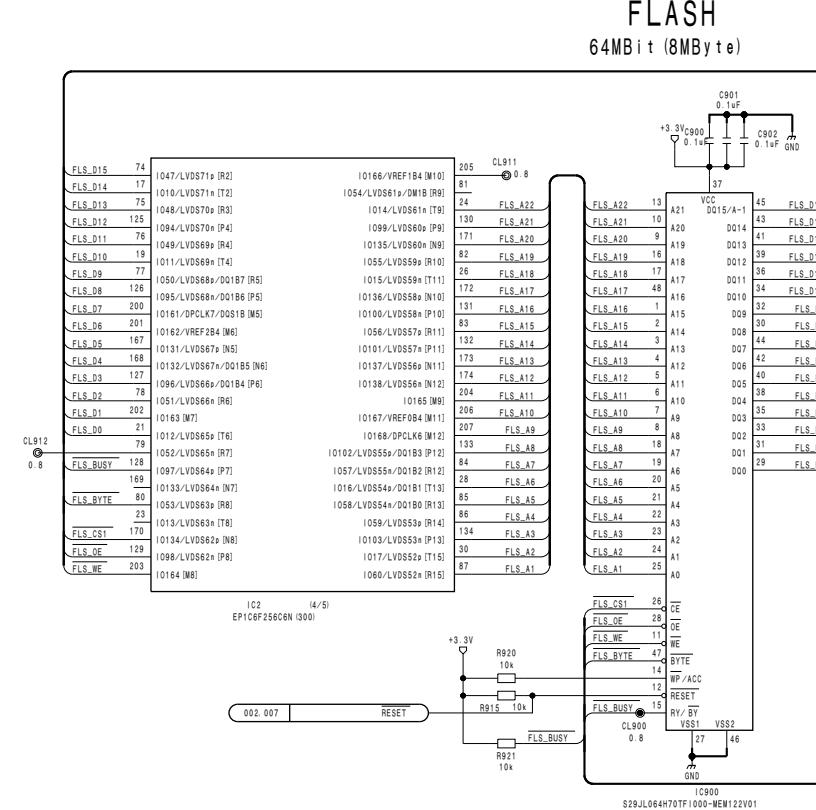
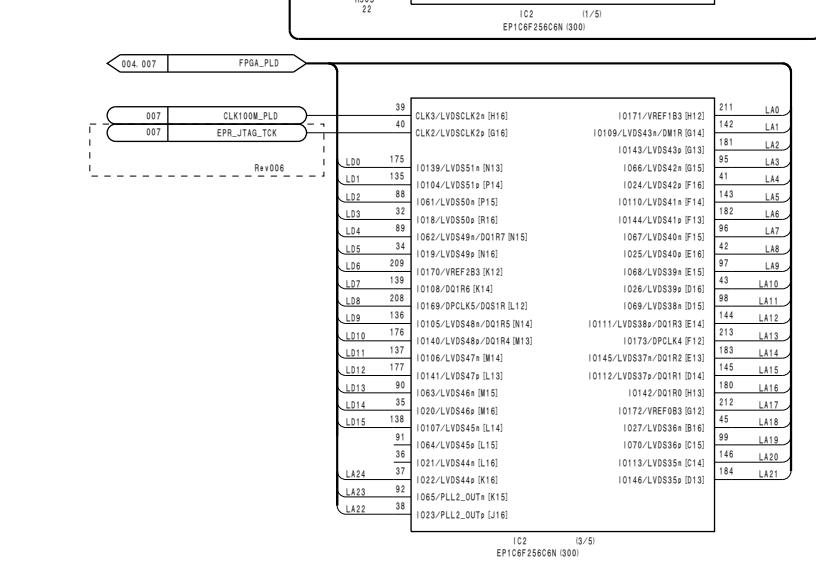
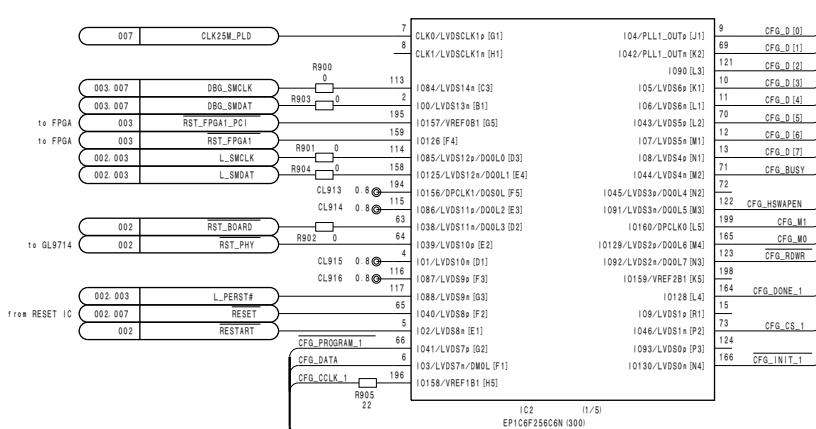


MEM-122 (7/7)
SUFFIX: -12

BKCU-EX1 (SY)



MEM-122 (7/7)
SUFFIX: -12



A

B

C

D

E

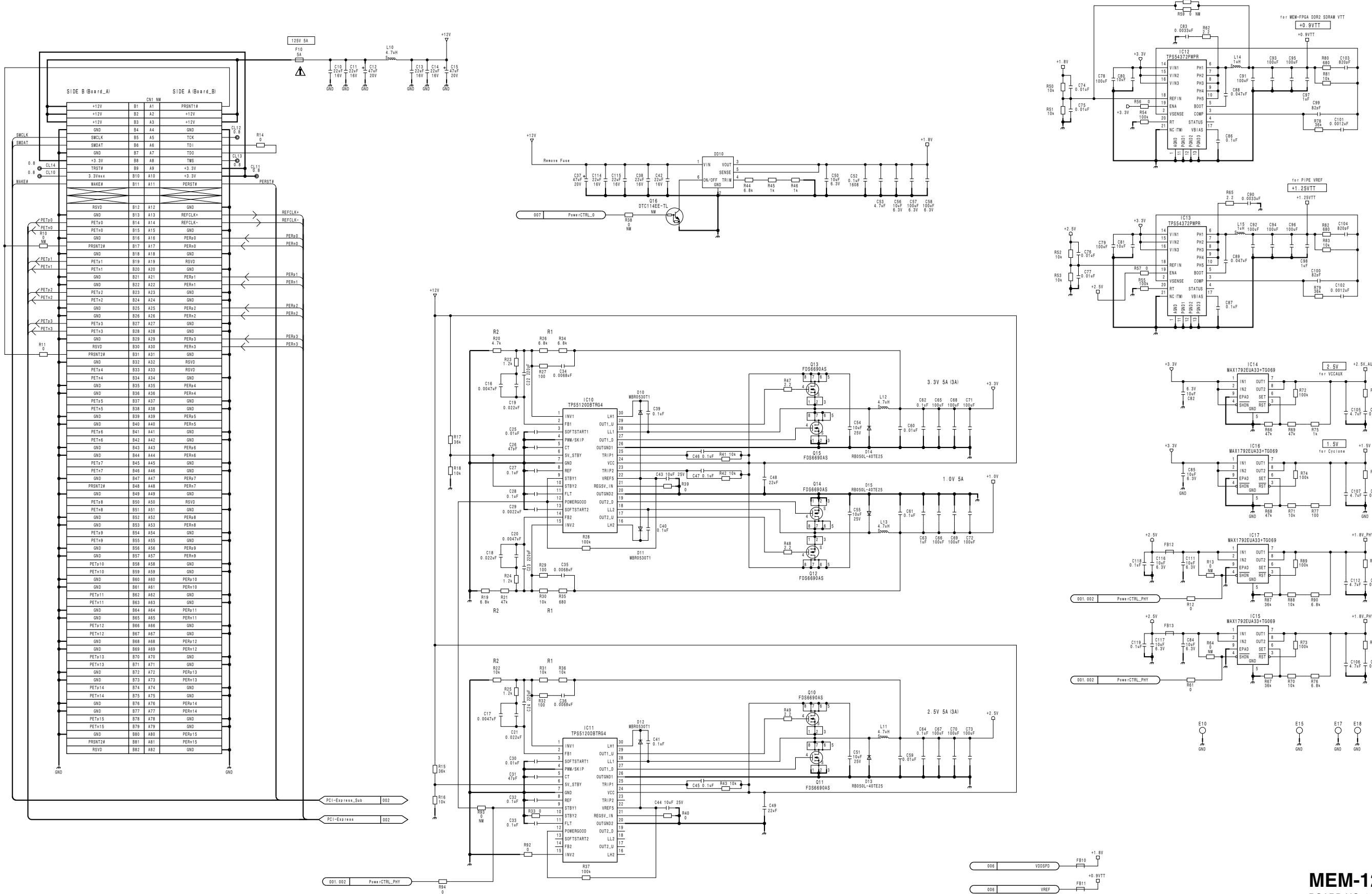
F

G

H

MEM-122 (7/7)
BOARD NO. 1-876-302-12
SJXA-662_MEM-122_008_7

BKCU-EX1 (SY)



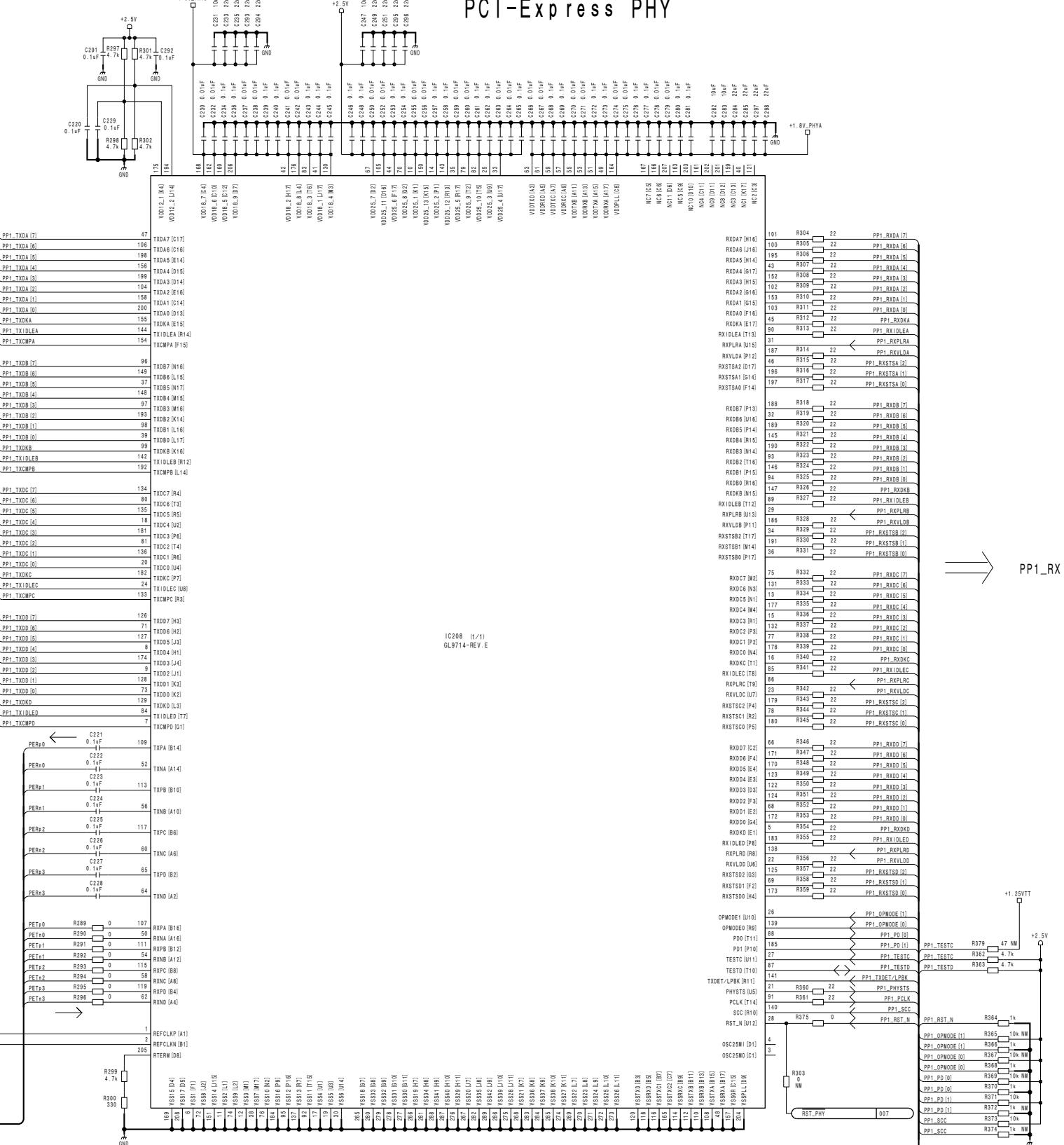
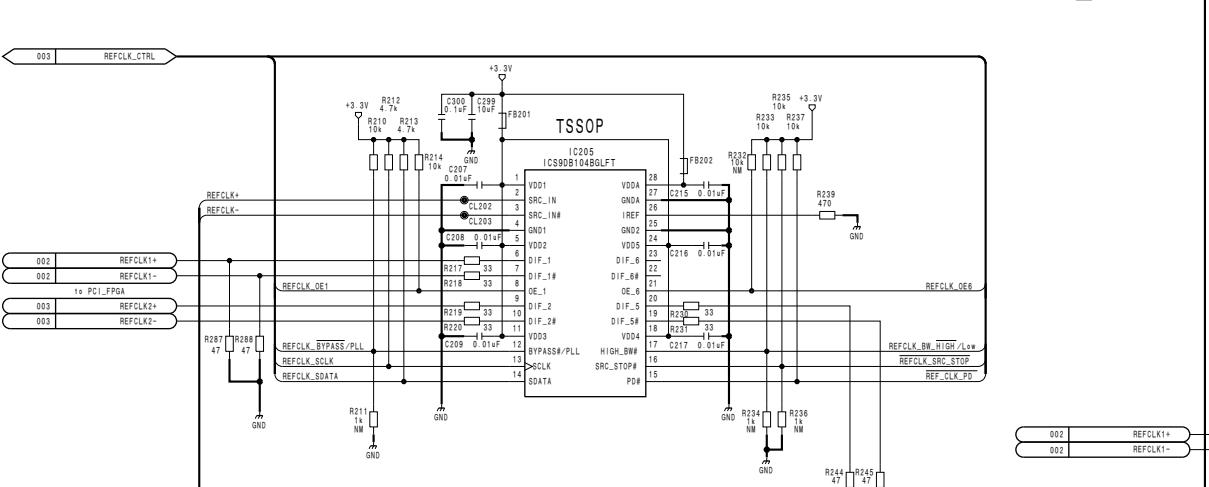
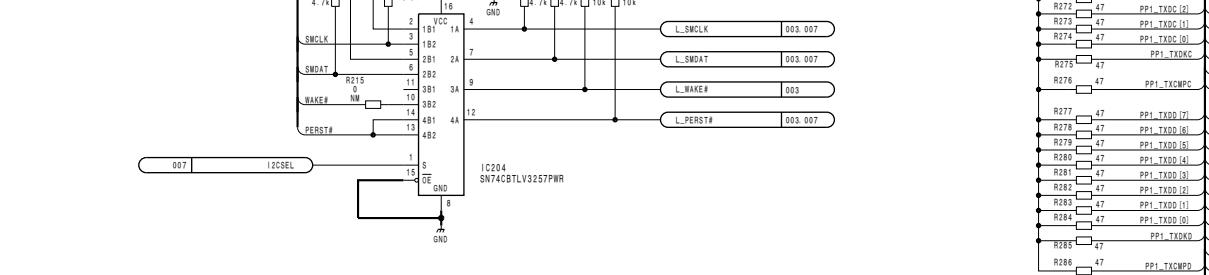
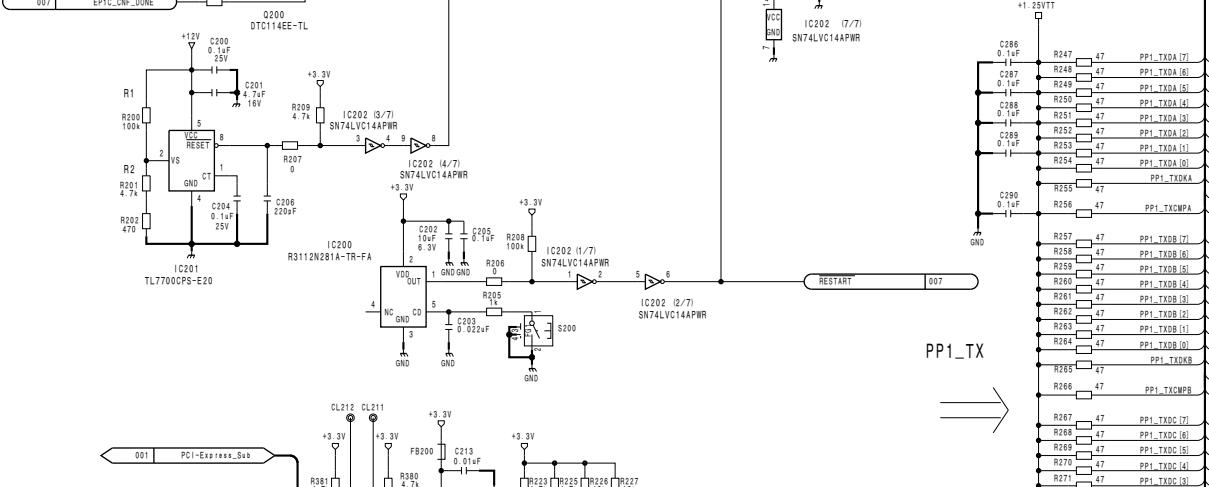
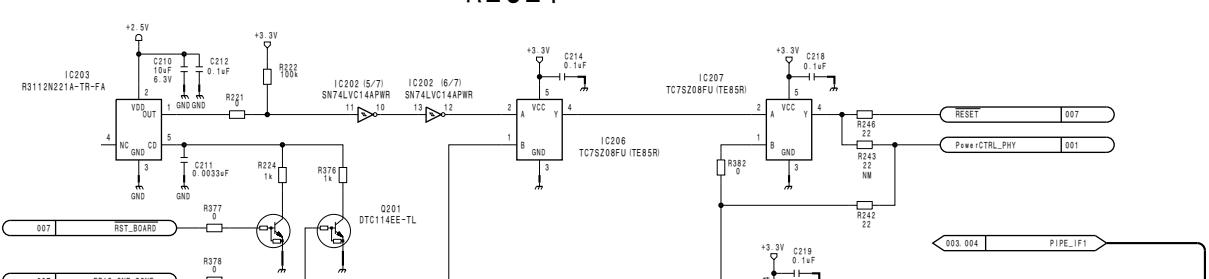
MEM-126 (2/7)

SUFFIX: -12

MEM-126 (2/7)

BKCU-EX1 (SY)

RESET

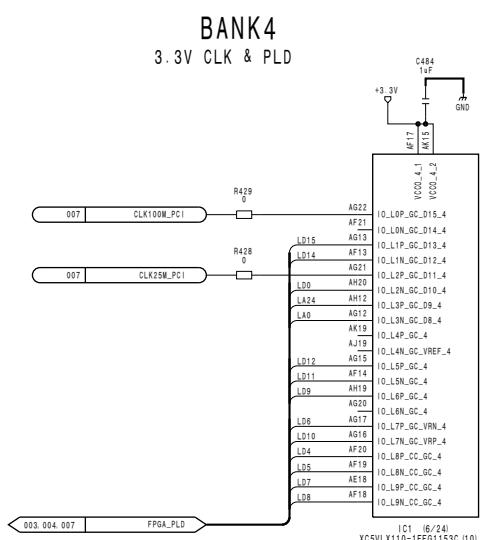
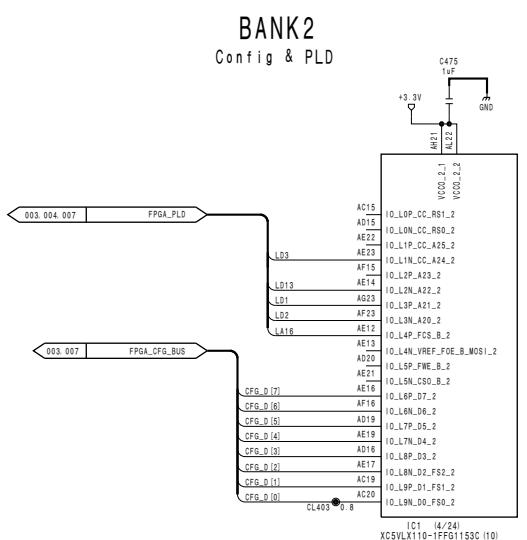
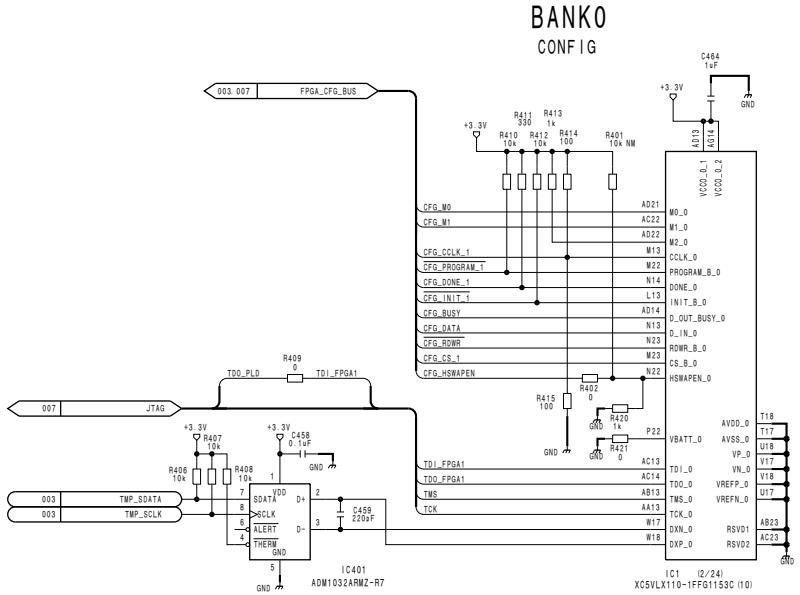
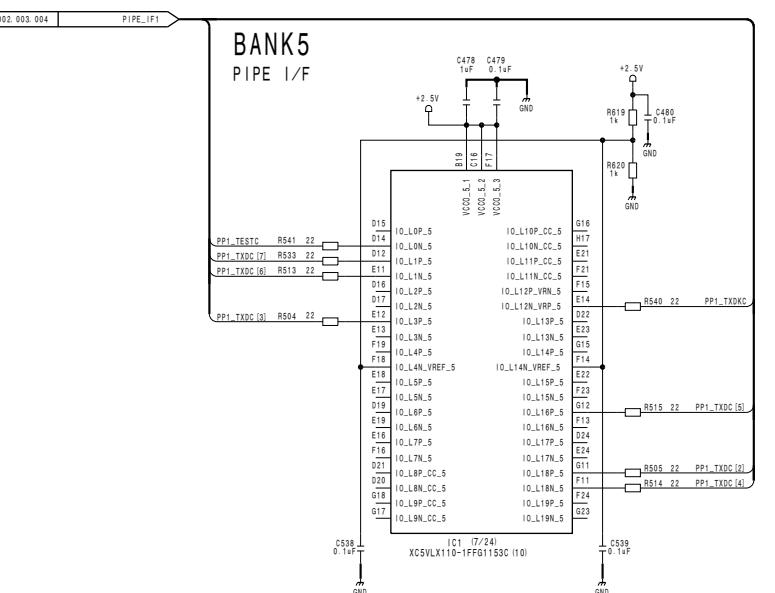
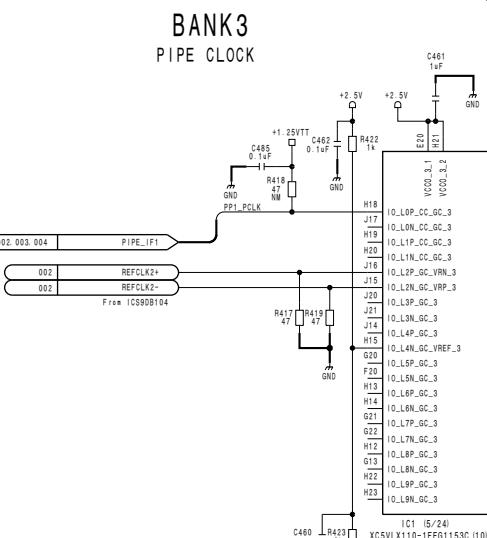
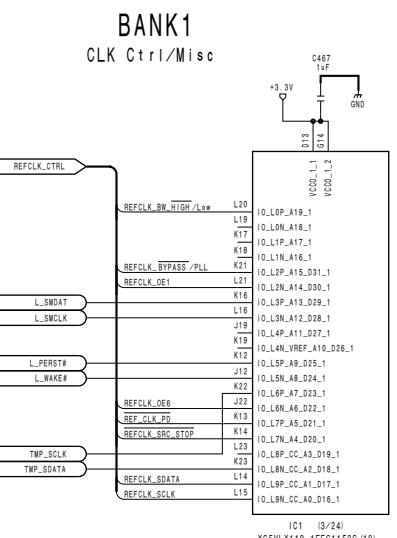
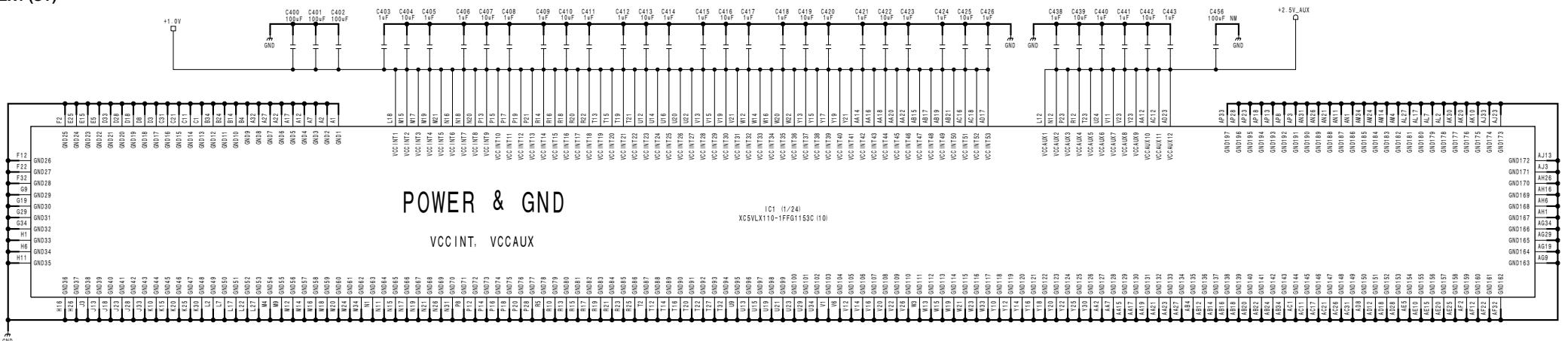


MEM-126 (2/7)
BOARD NO. 1-878-655-12

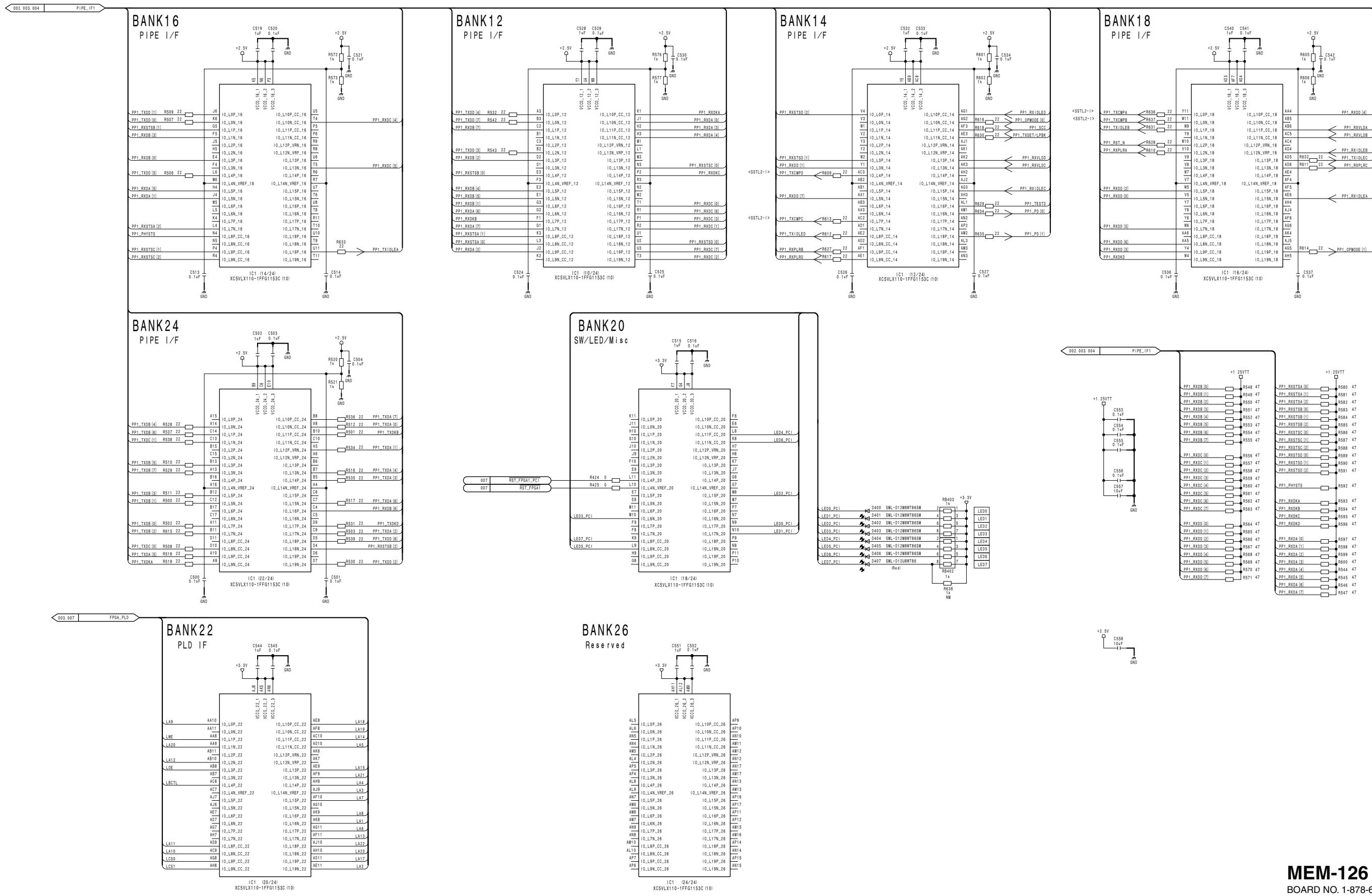
MEM-126 (3/7)
SUFFIX: -12

MEM-126 (3/7)
SUFFIX: -12

BKCU-EX1 (SY)



BKCU-EX1 (SY)



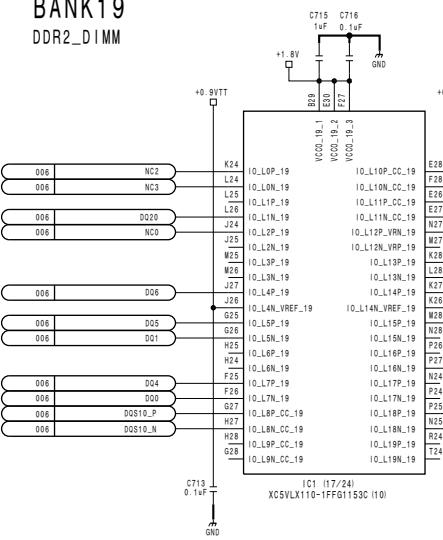
EM-126 (5/7)

SUFFIX: -12

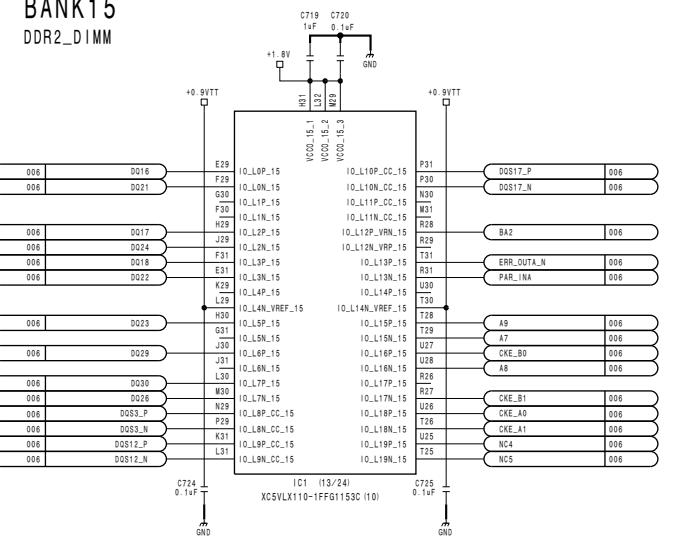
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BKCU-EX1 (SY)

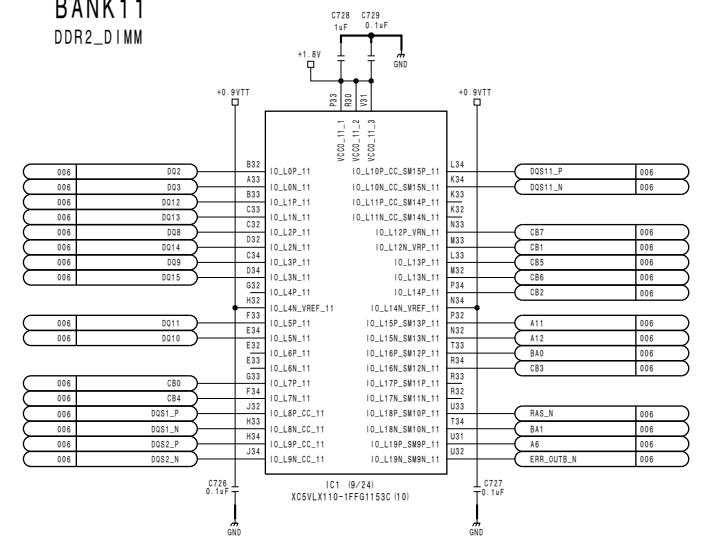
BANK19
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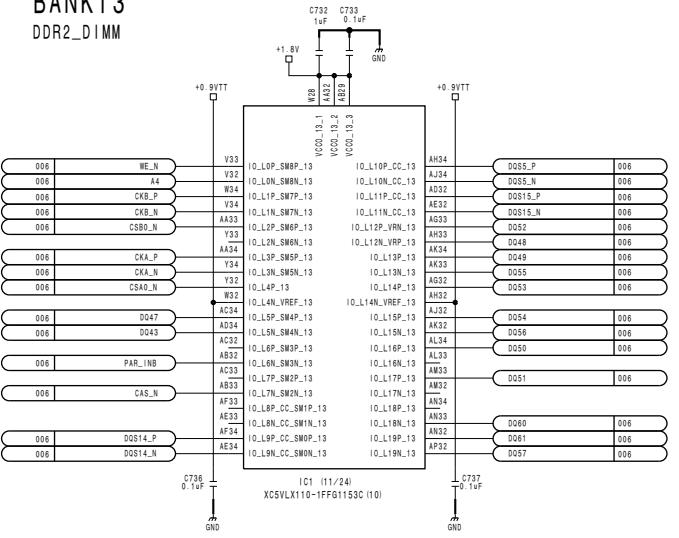
ANK15
R2_DIMM



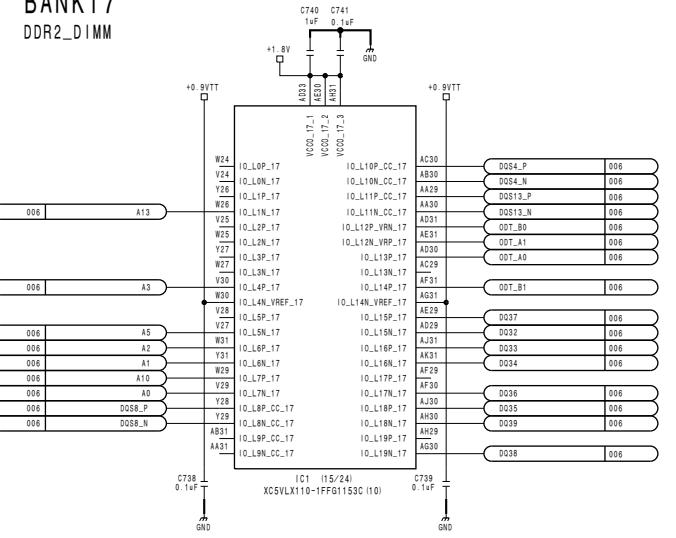
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DDR2_DIMM



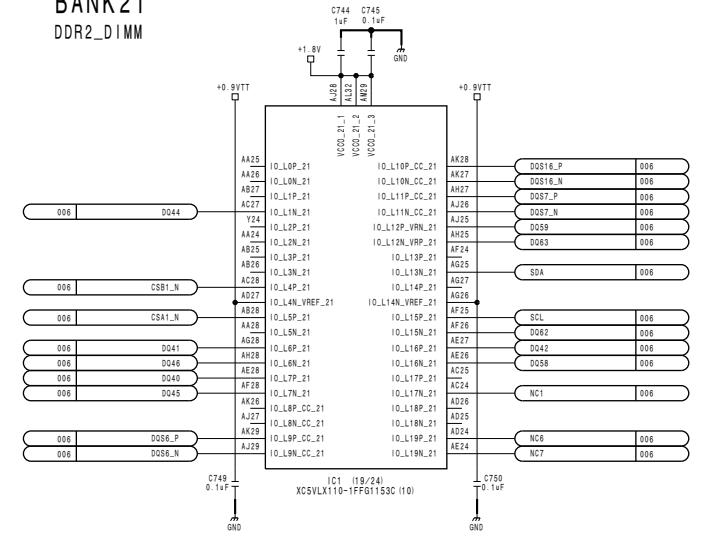
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DDR2_DIMM



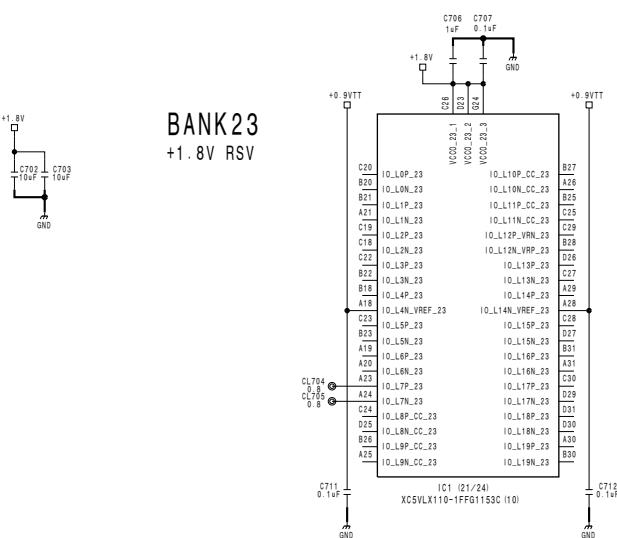
ANK17
R2_DIMM



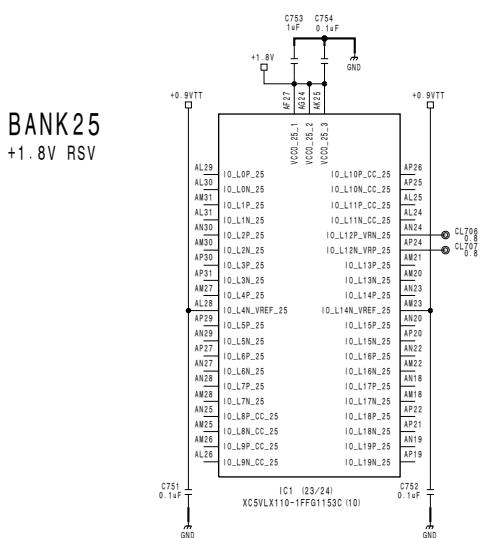
BANK21
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BANK2
+1.8V RS

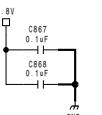
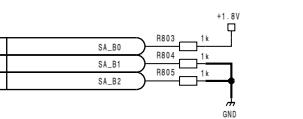
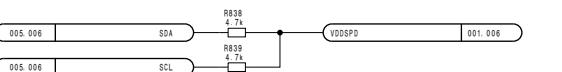
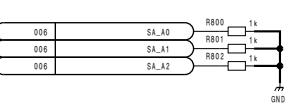
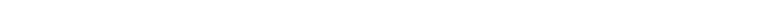
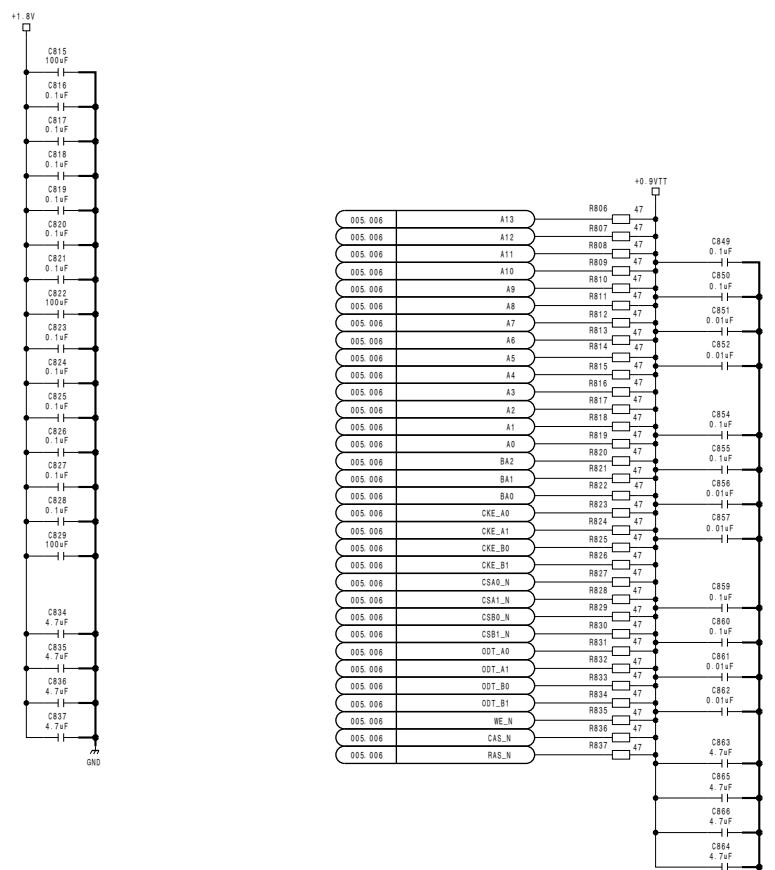
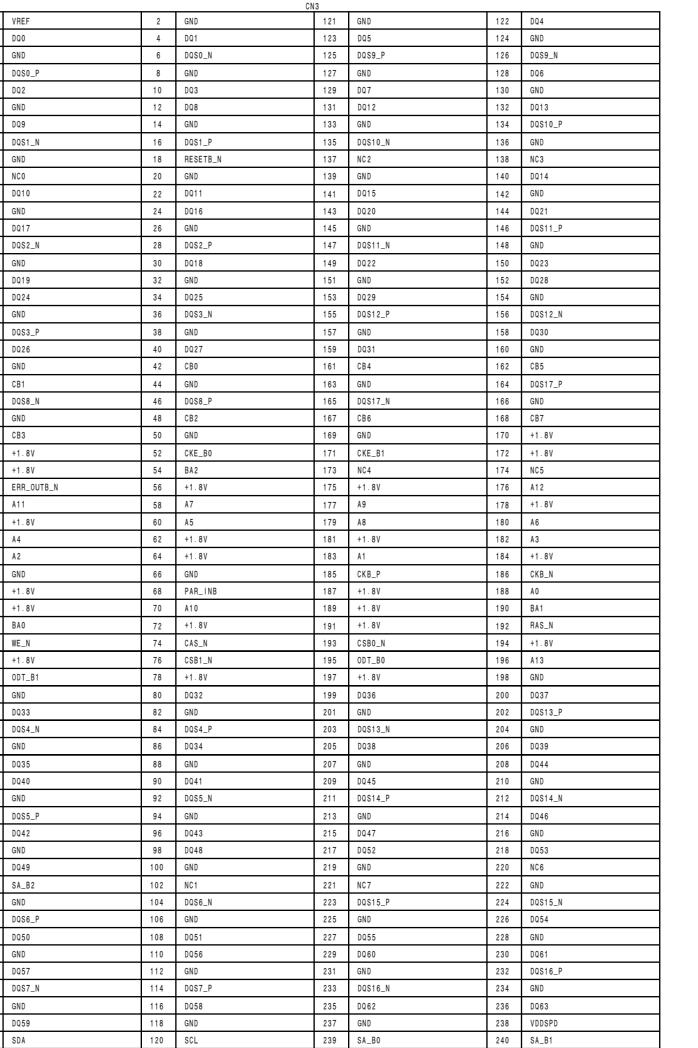
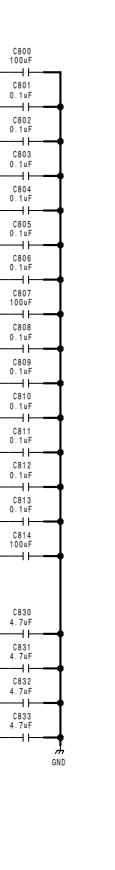
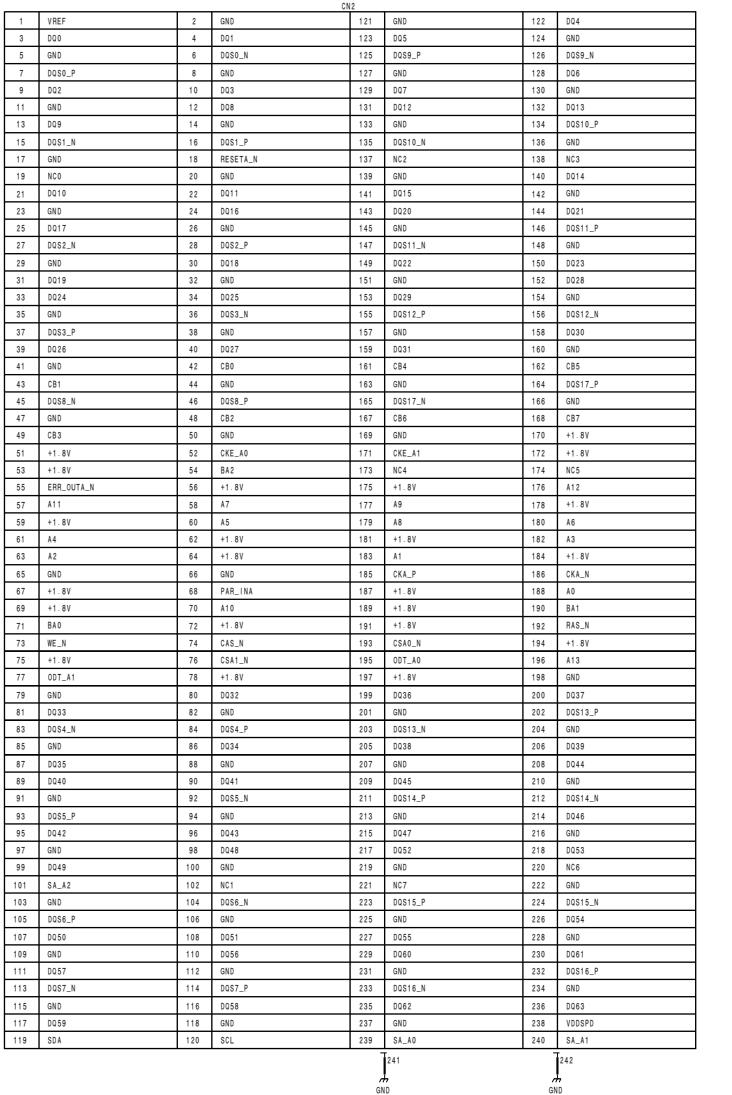


BANK25
+1.8V RSV



MEM-126 (6/7)
SUFFIX: -12

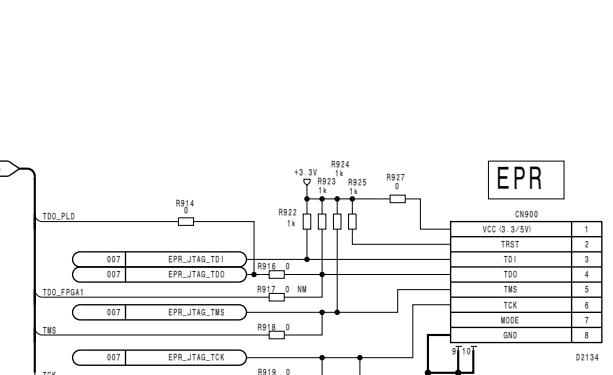
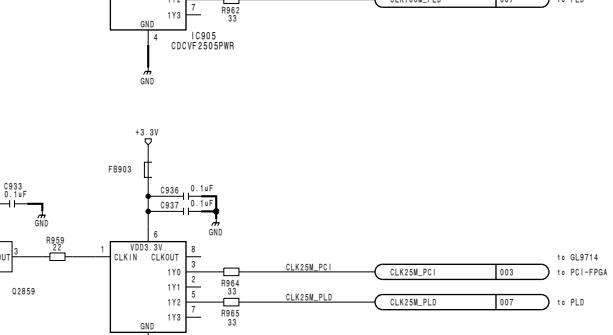
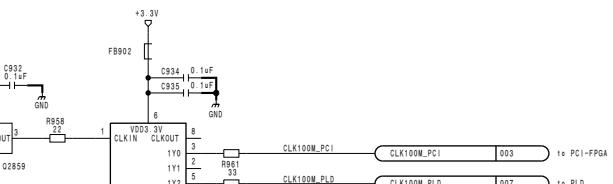
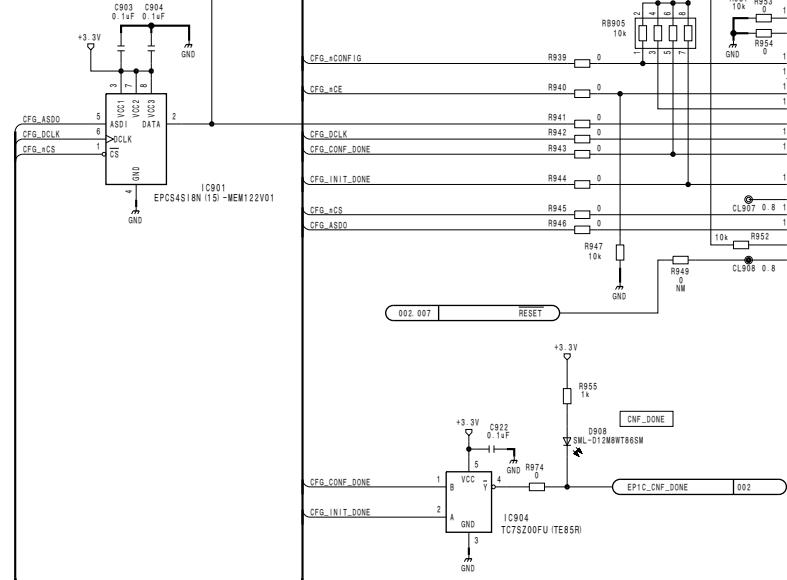
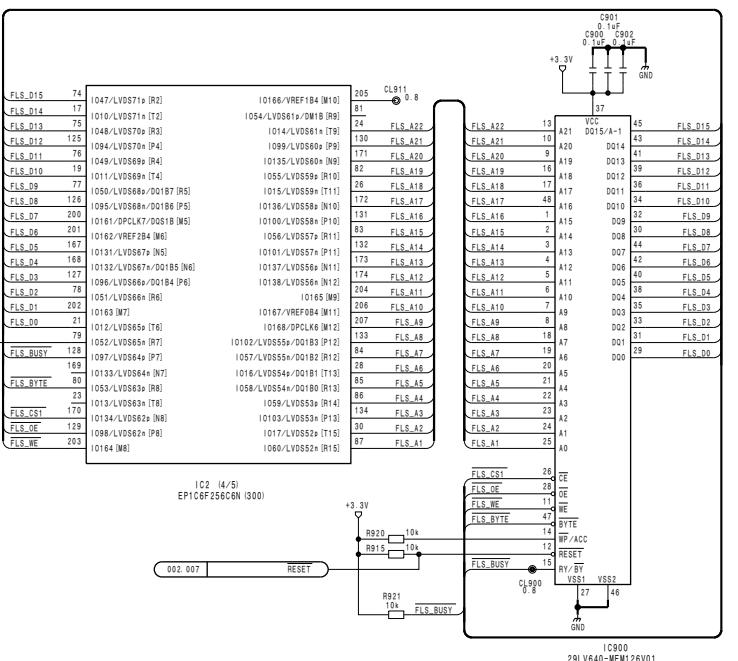
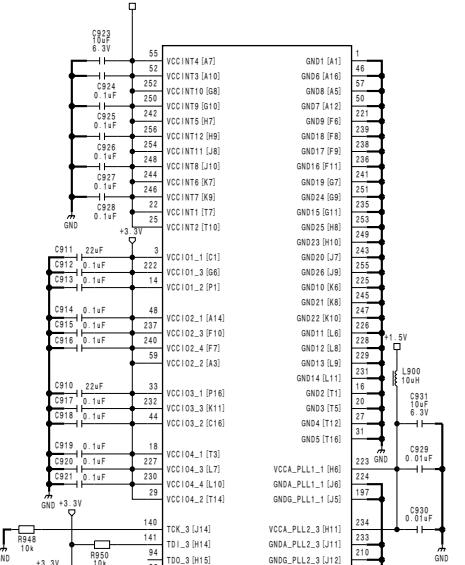
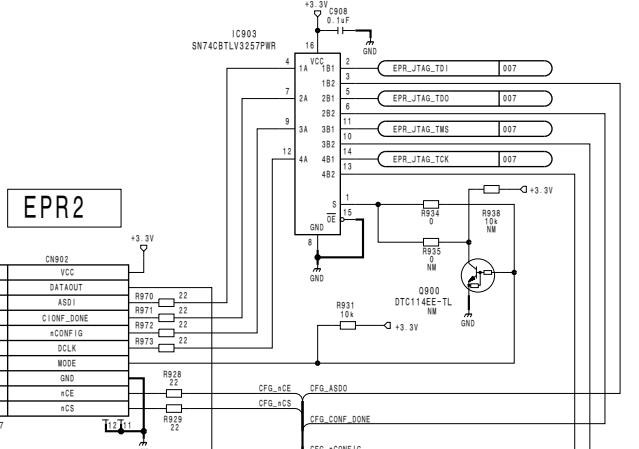
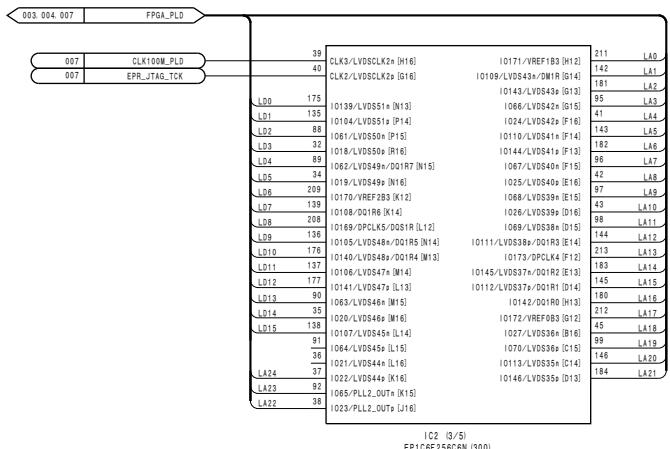
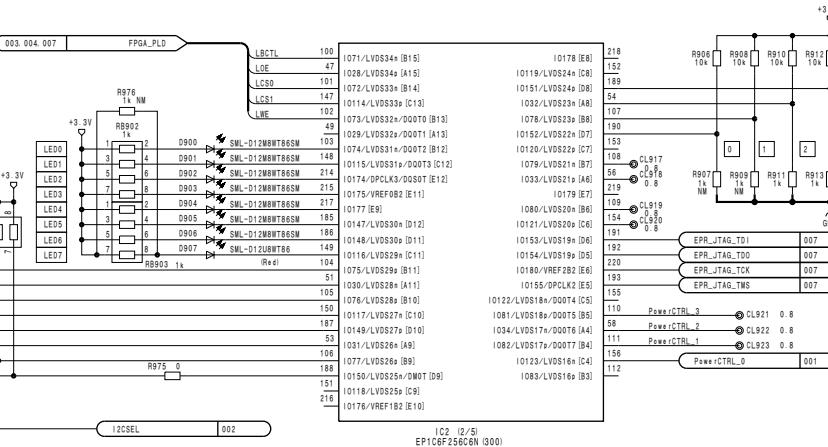
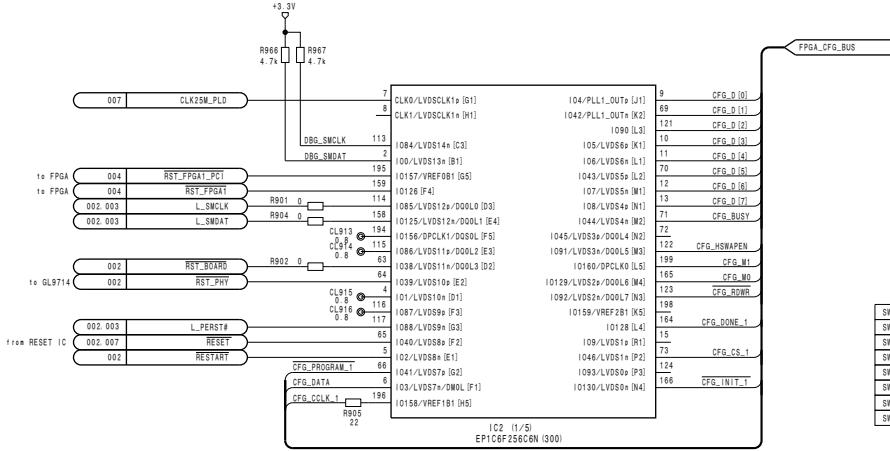
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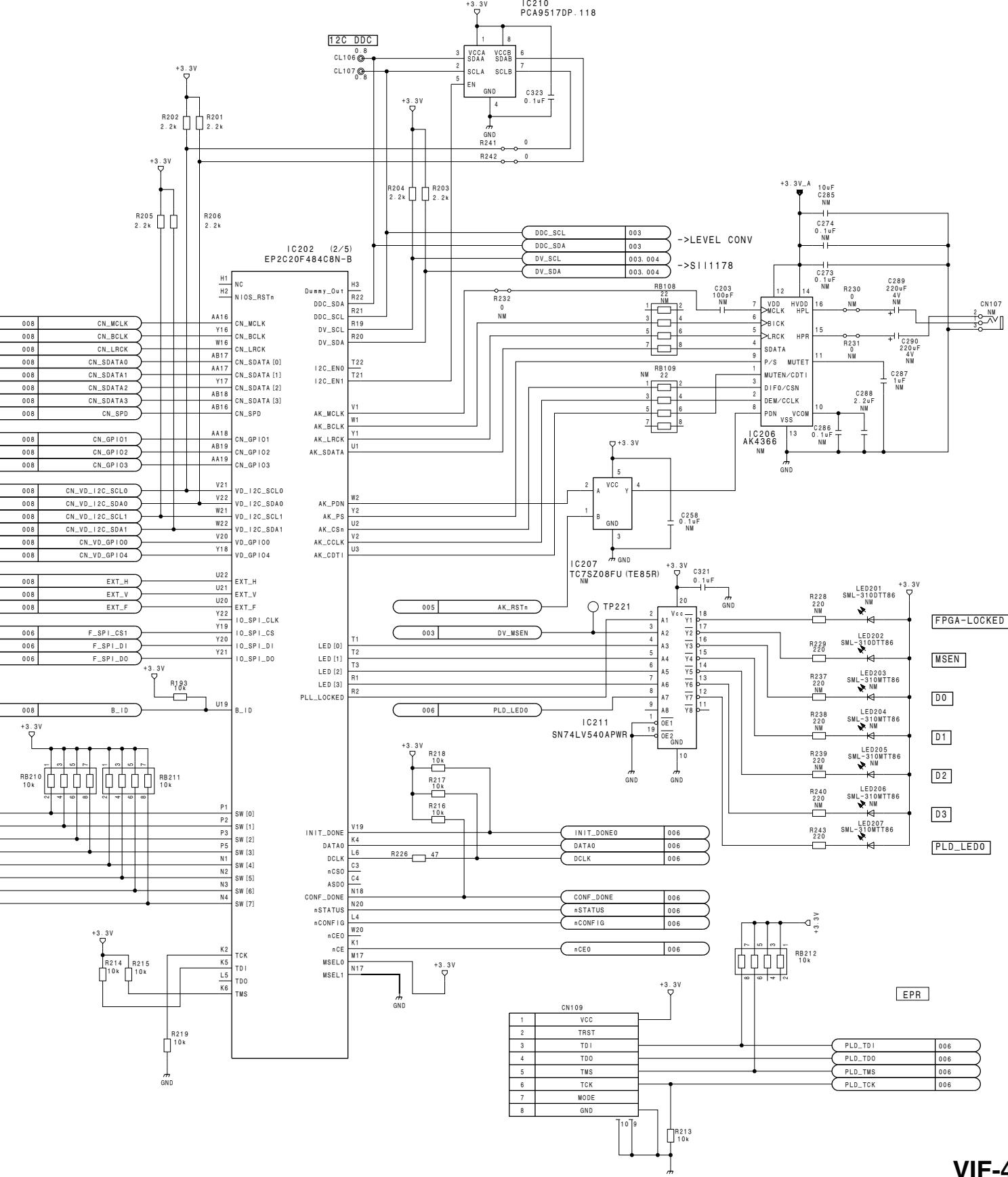
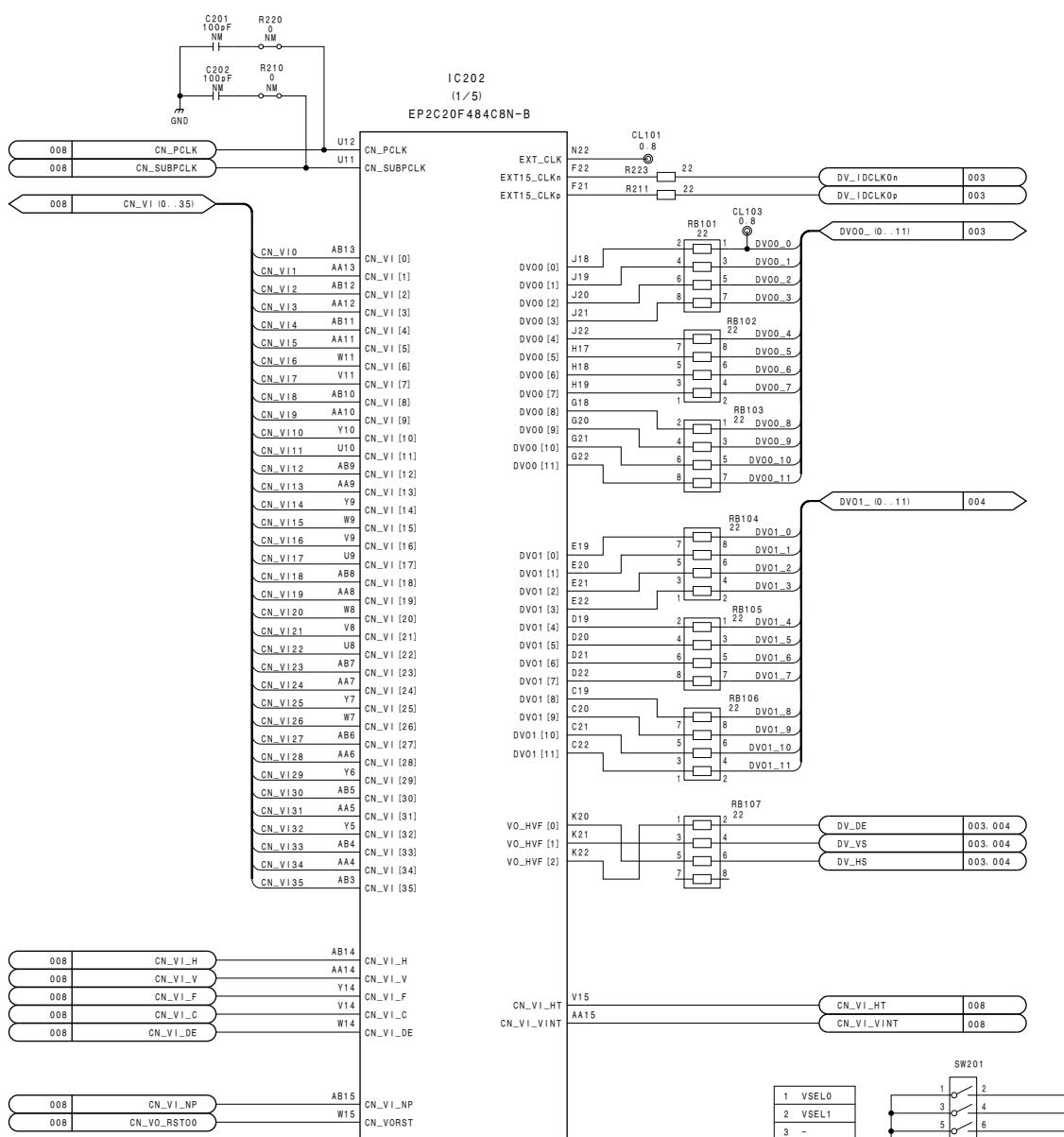


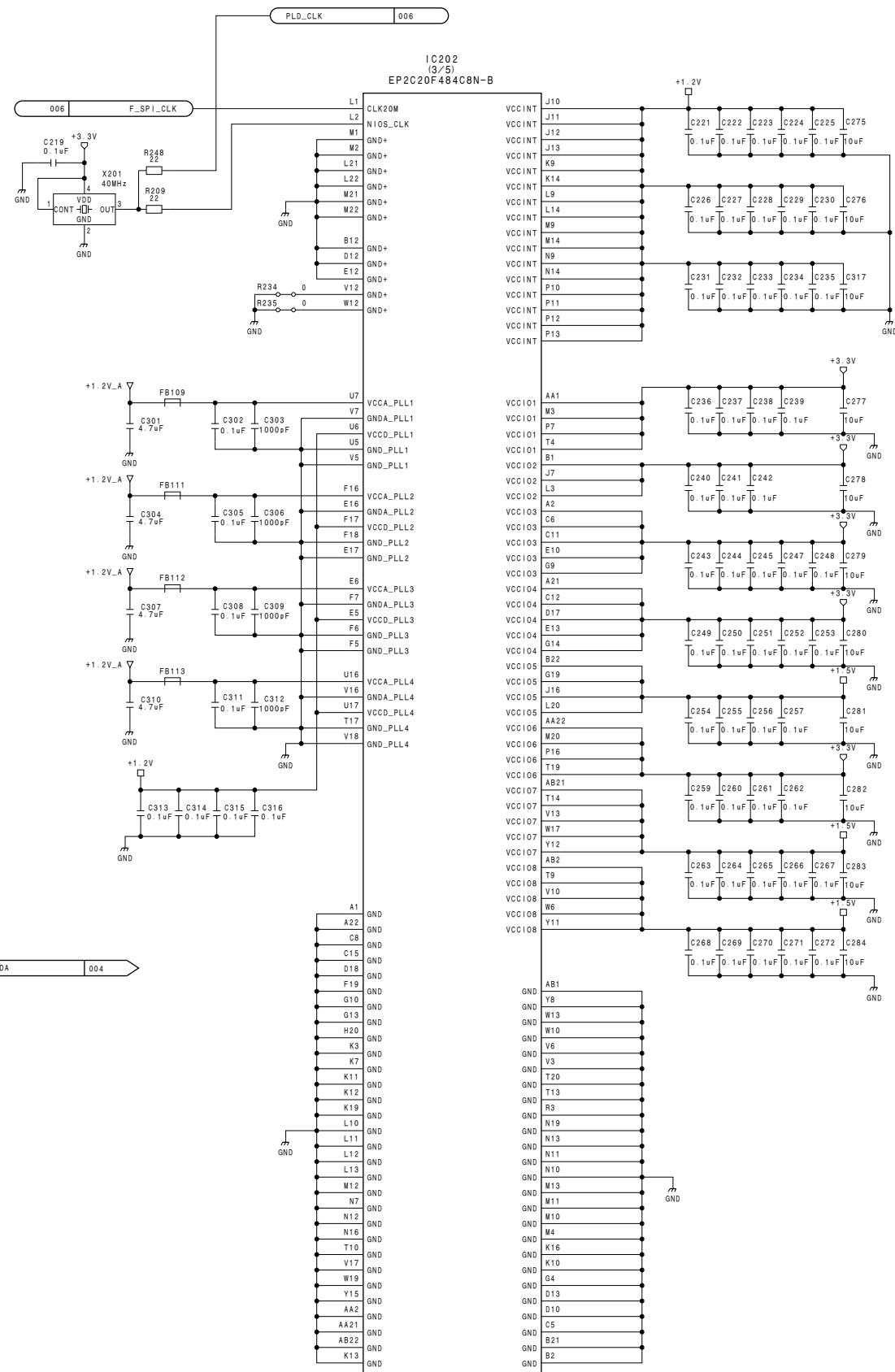
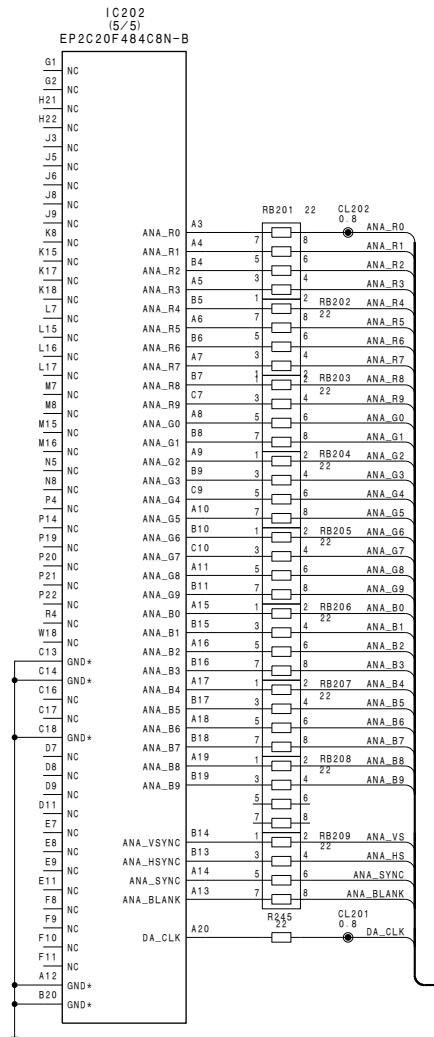
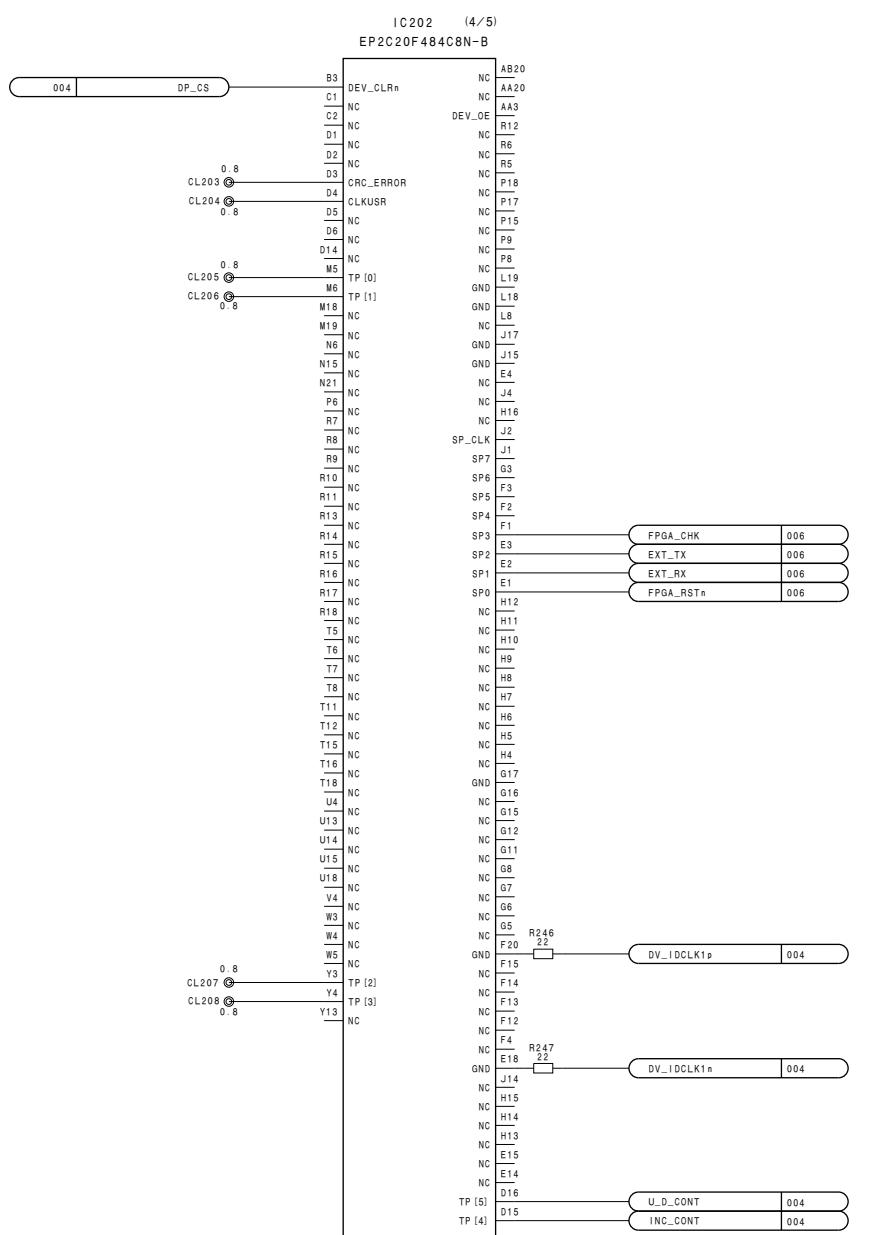
MEM-126 (6/7)
BOARD NO. 1-878-655-12
SJXA-662_MEM-126_002_6

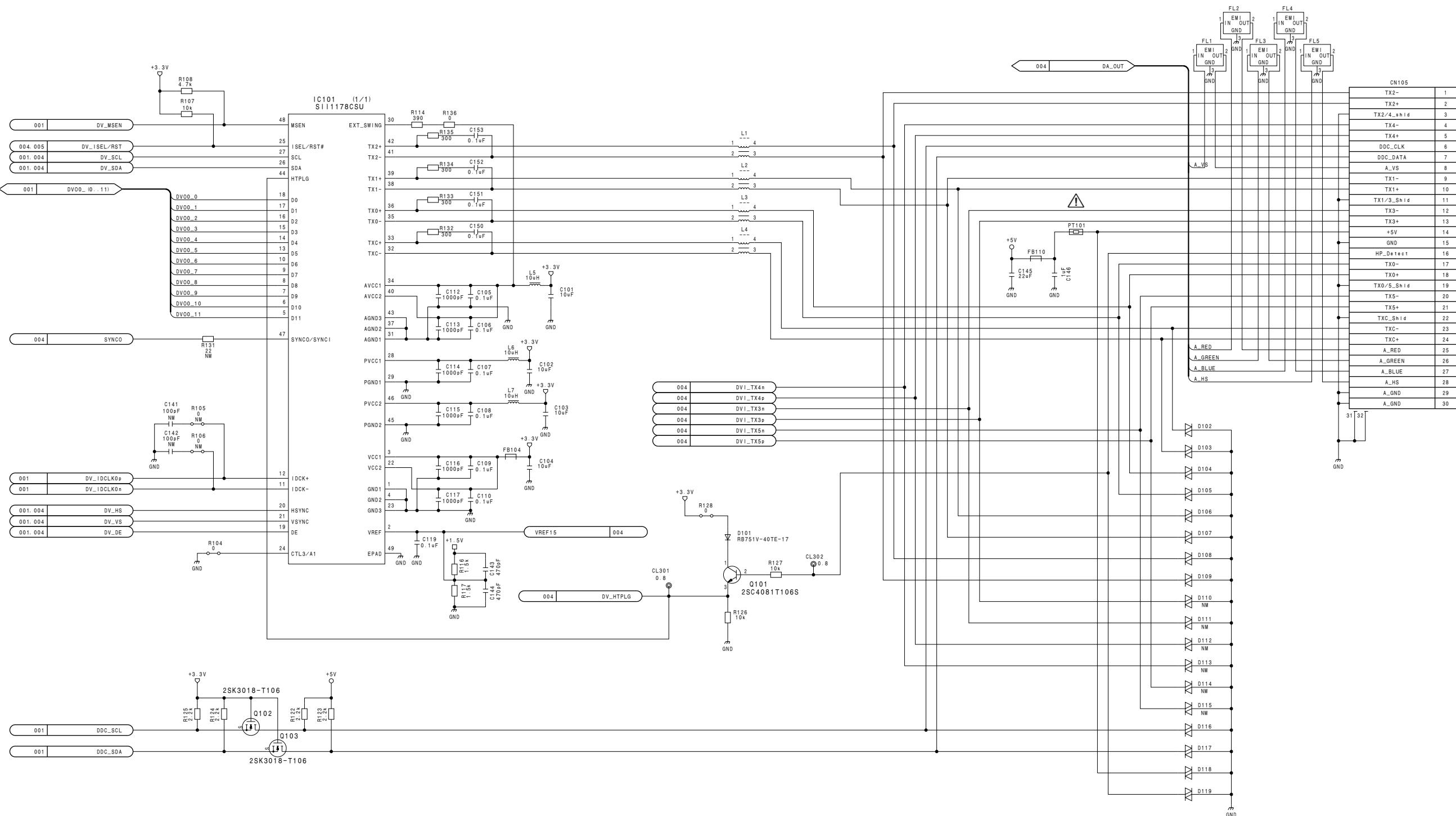
BCU-100 MM

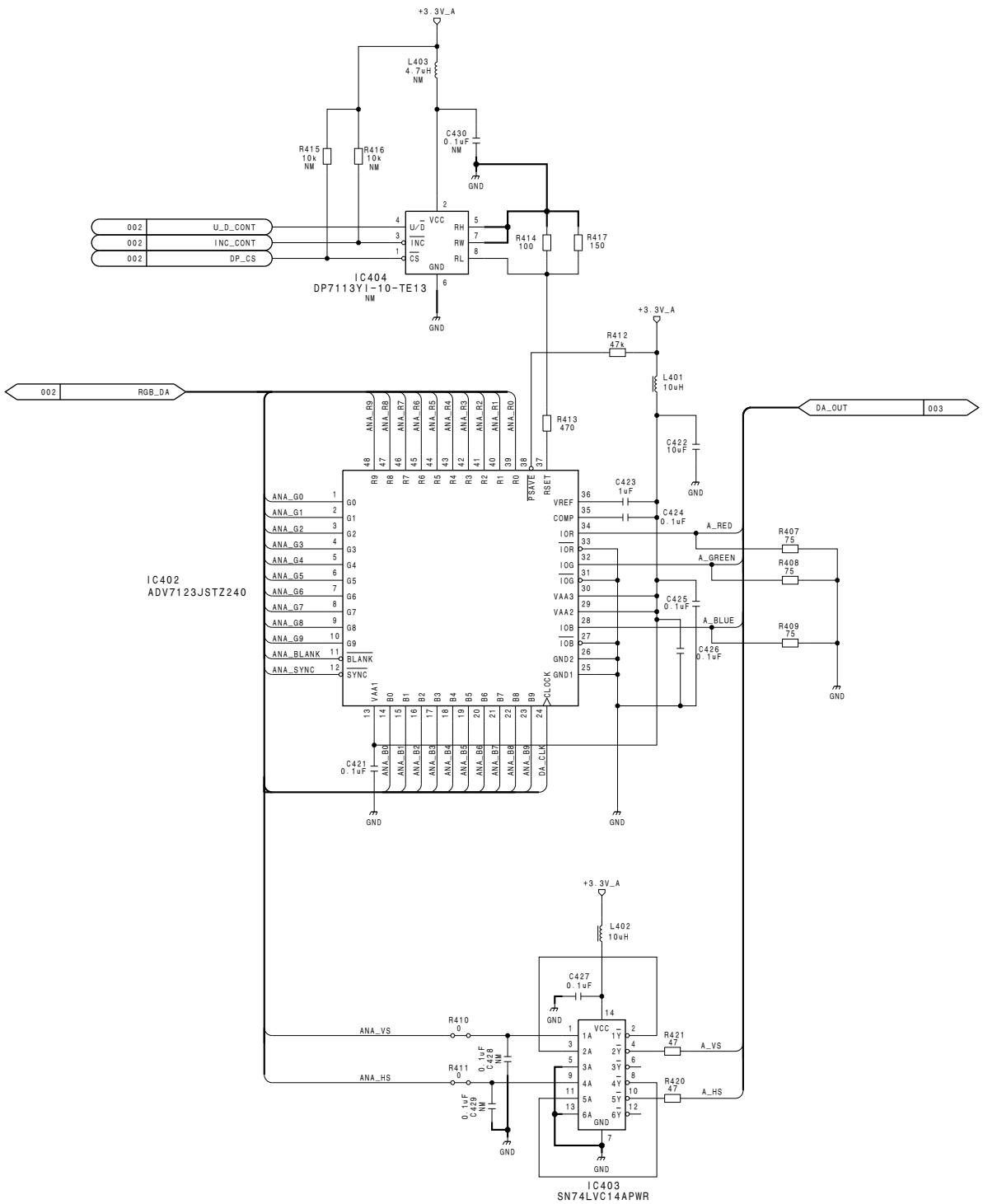
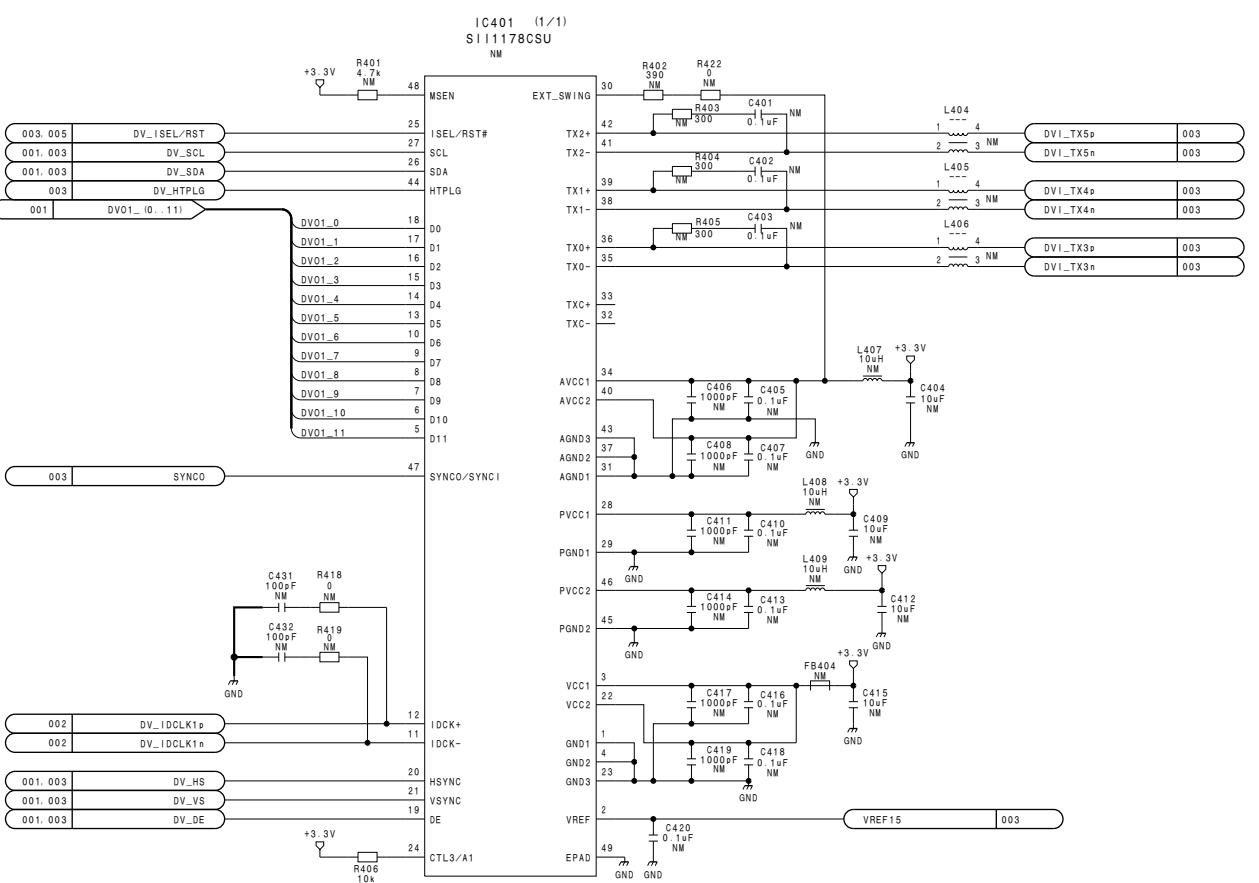
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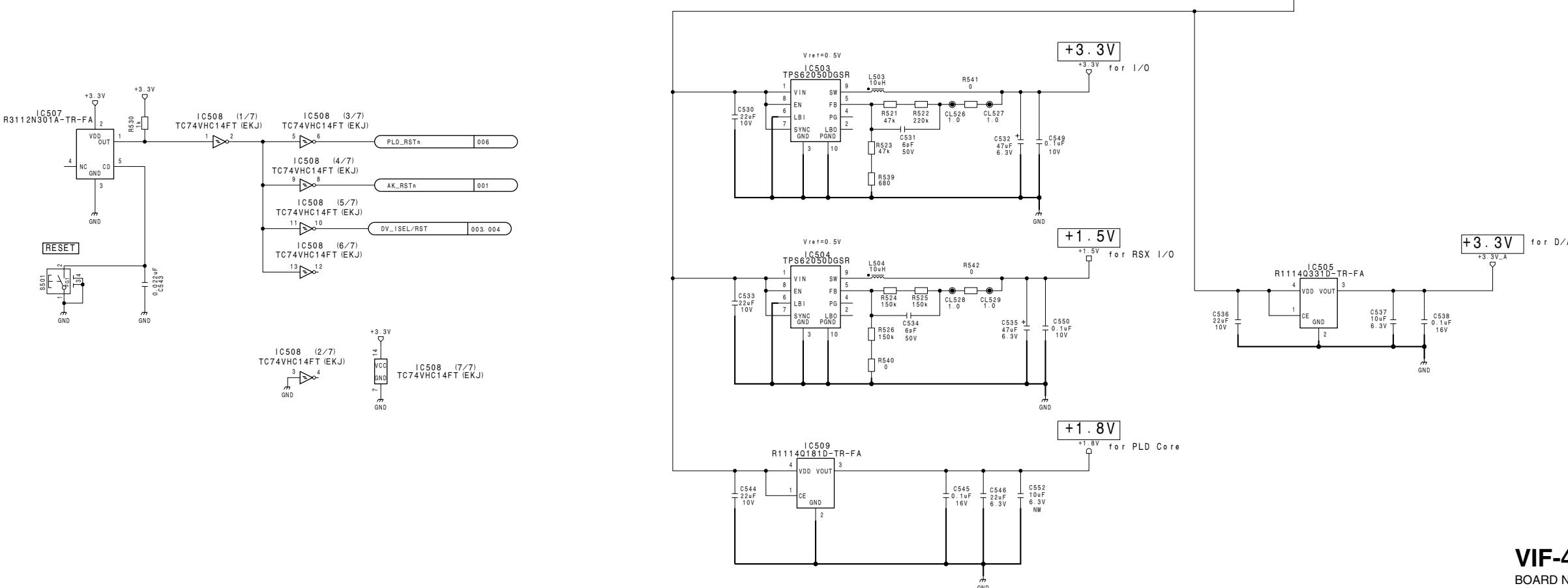
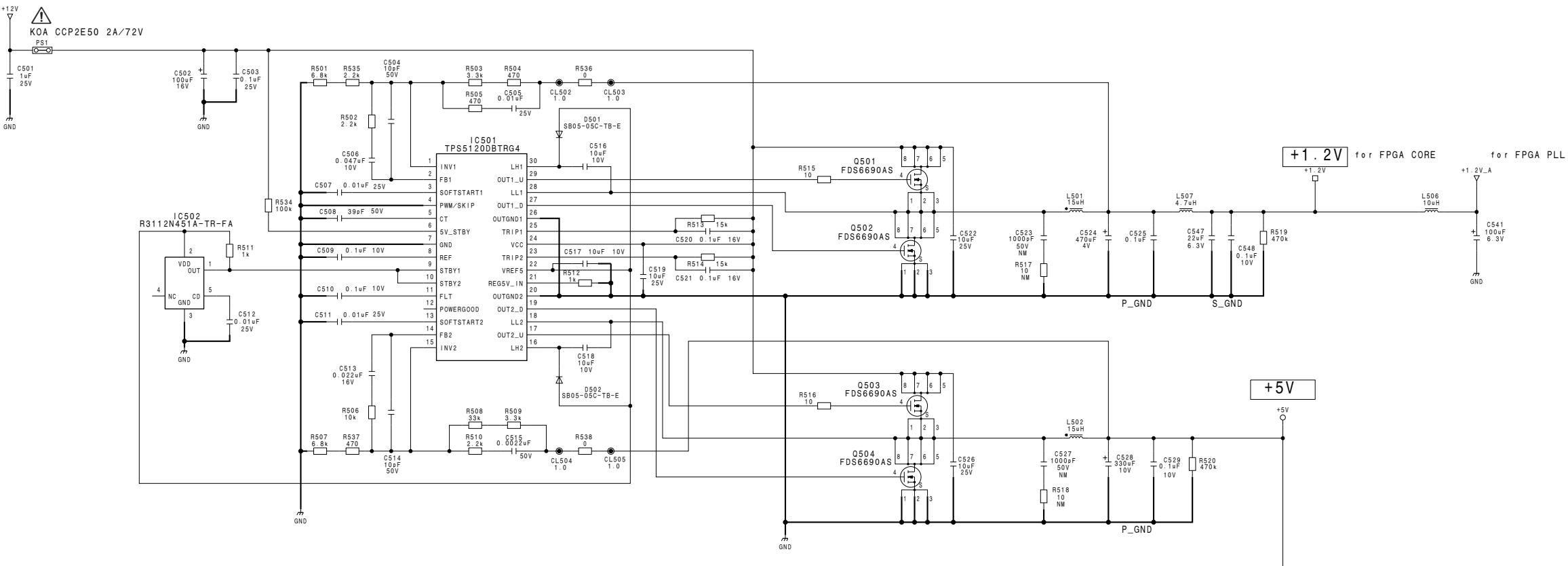


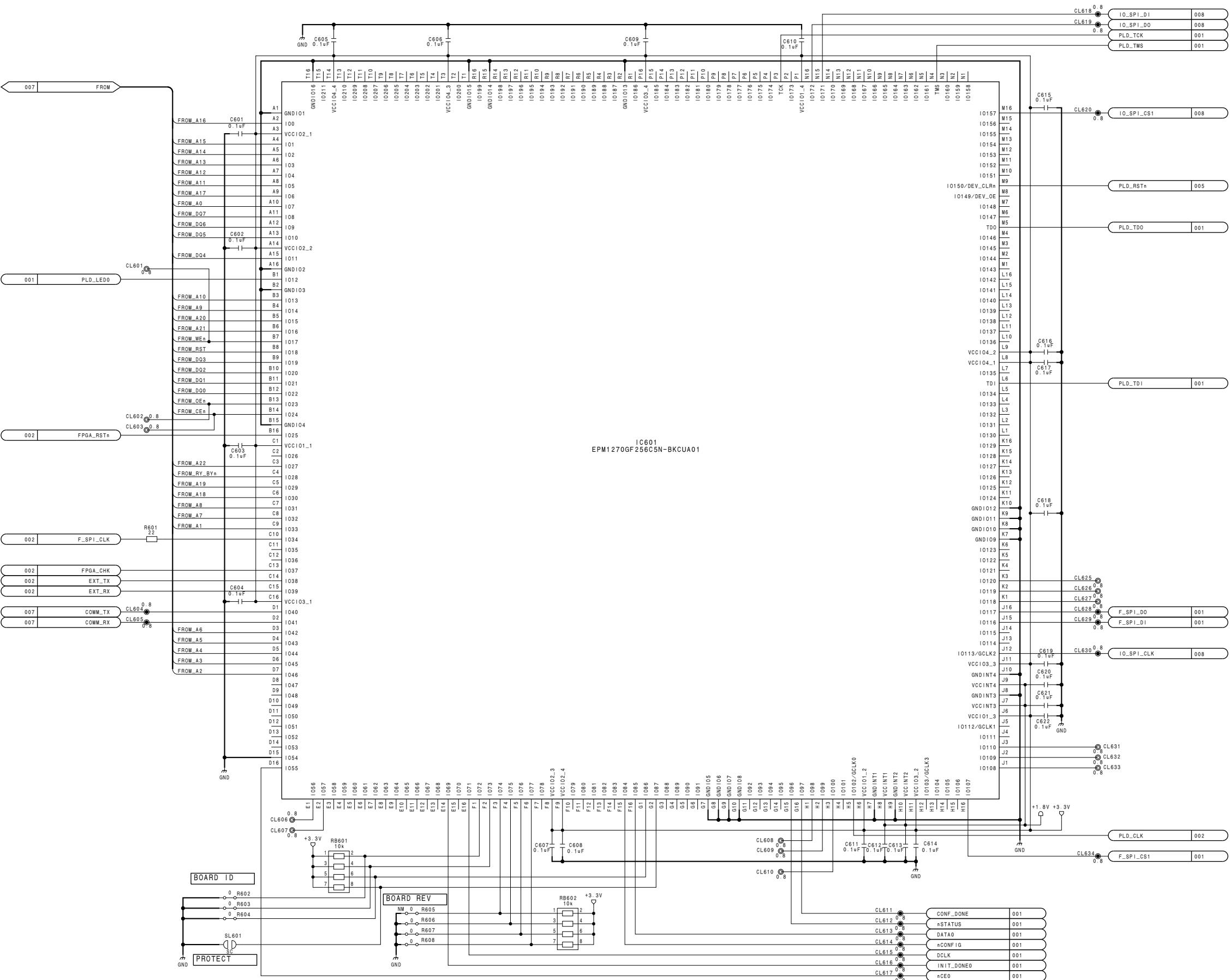


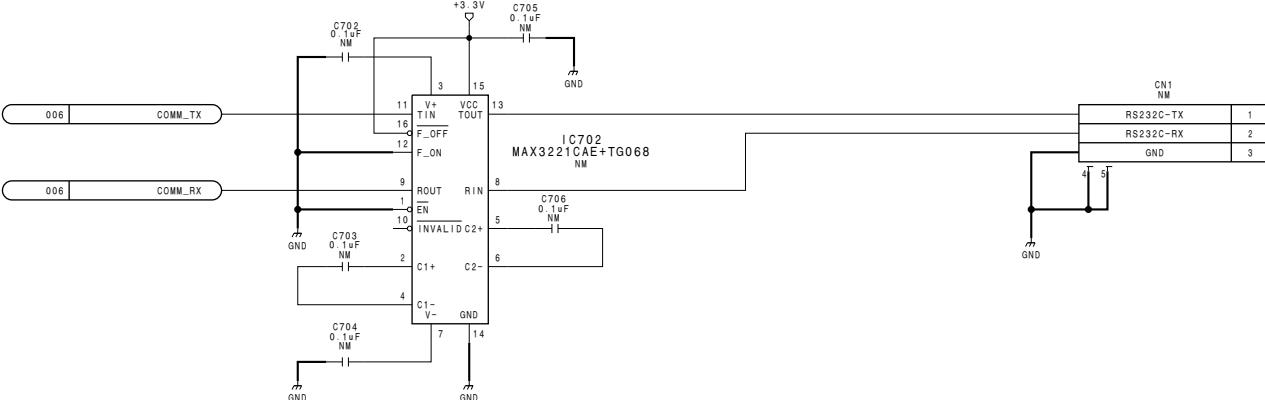
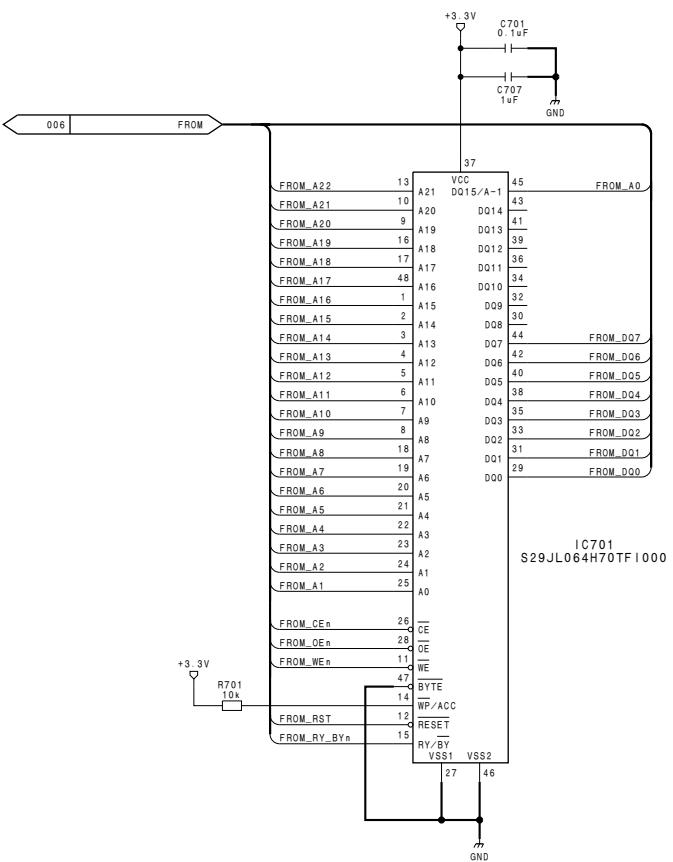












1

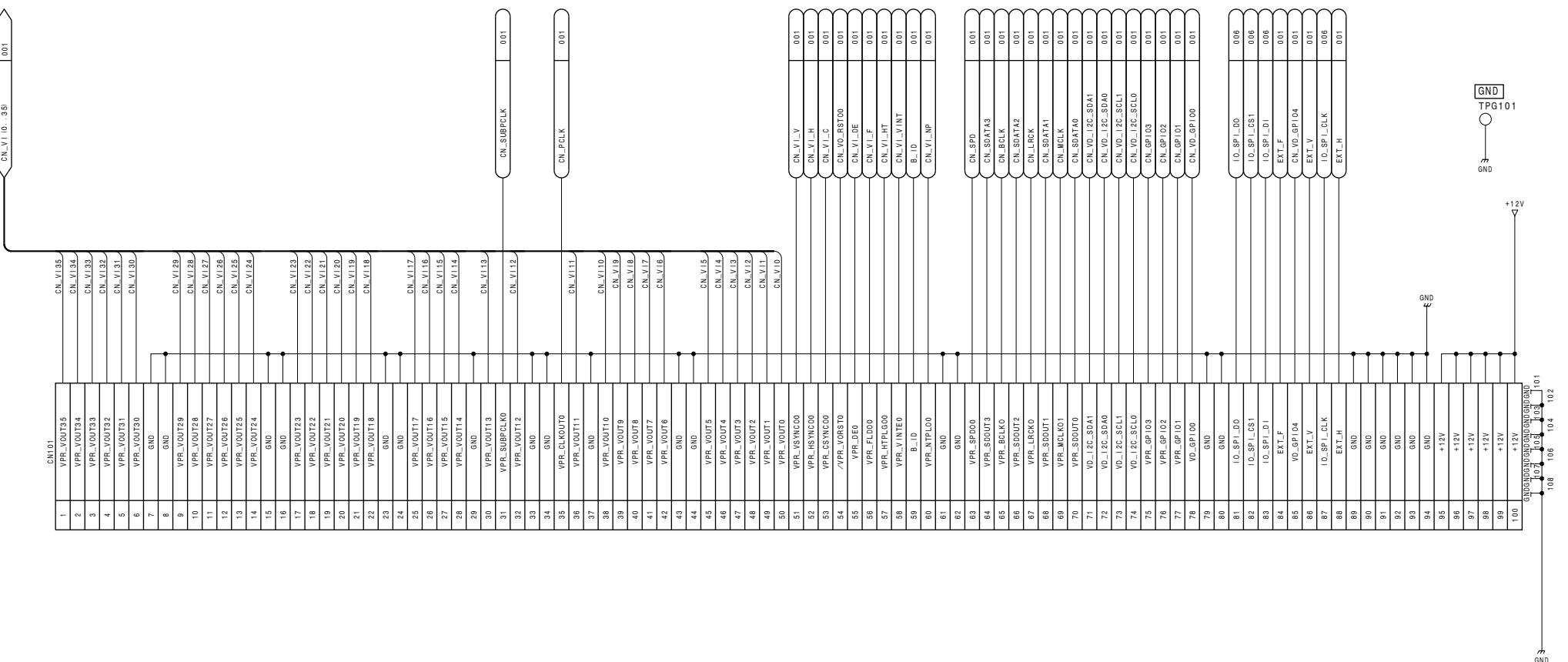
2

3

4

5

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2

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5

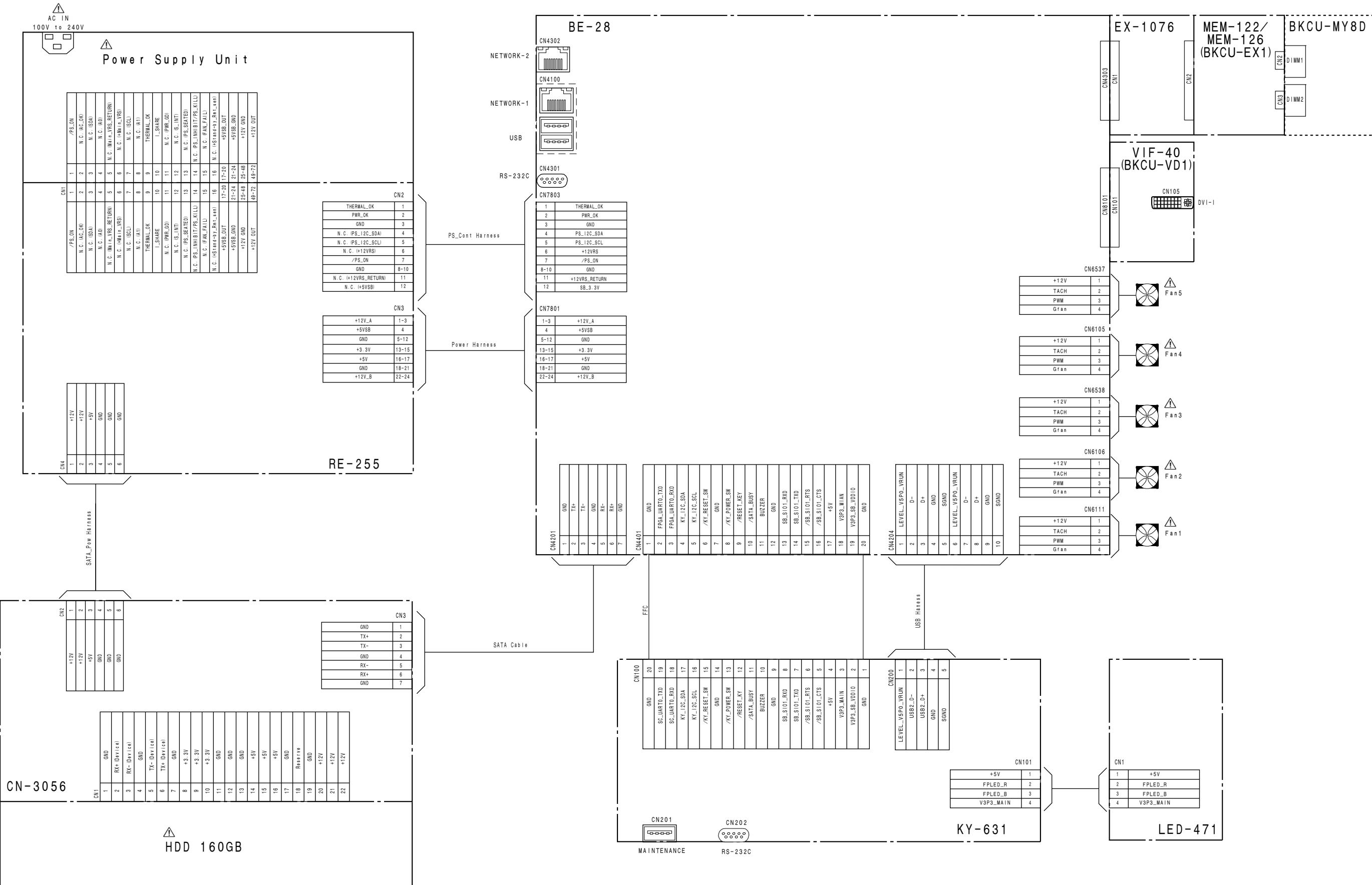
VIF-40 (8/8)

BOARD NO. 1-877-346-12

SJXA-663_VIF-40_006_8

Frame Wiring

Frame Wiring



Section 6

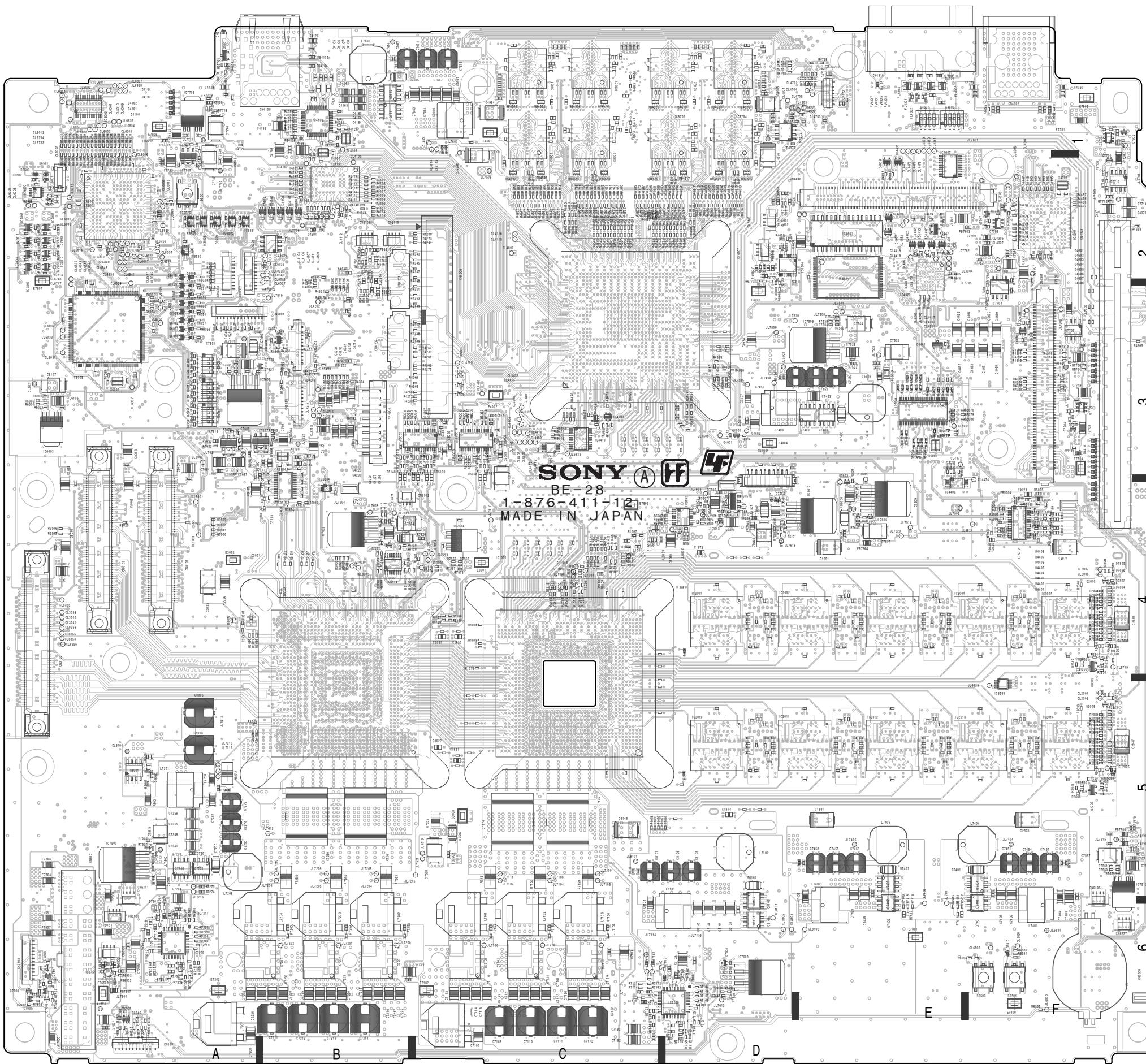
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BE-28

BE-28

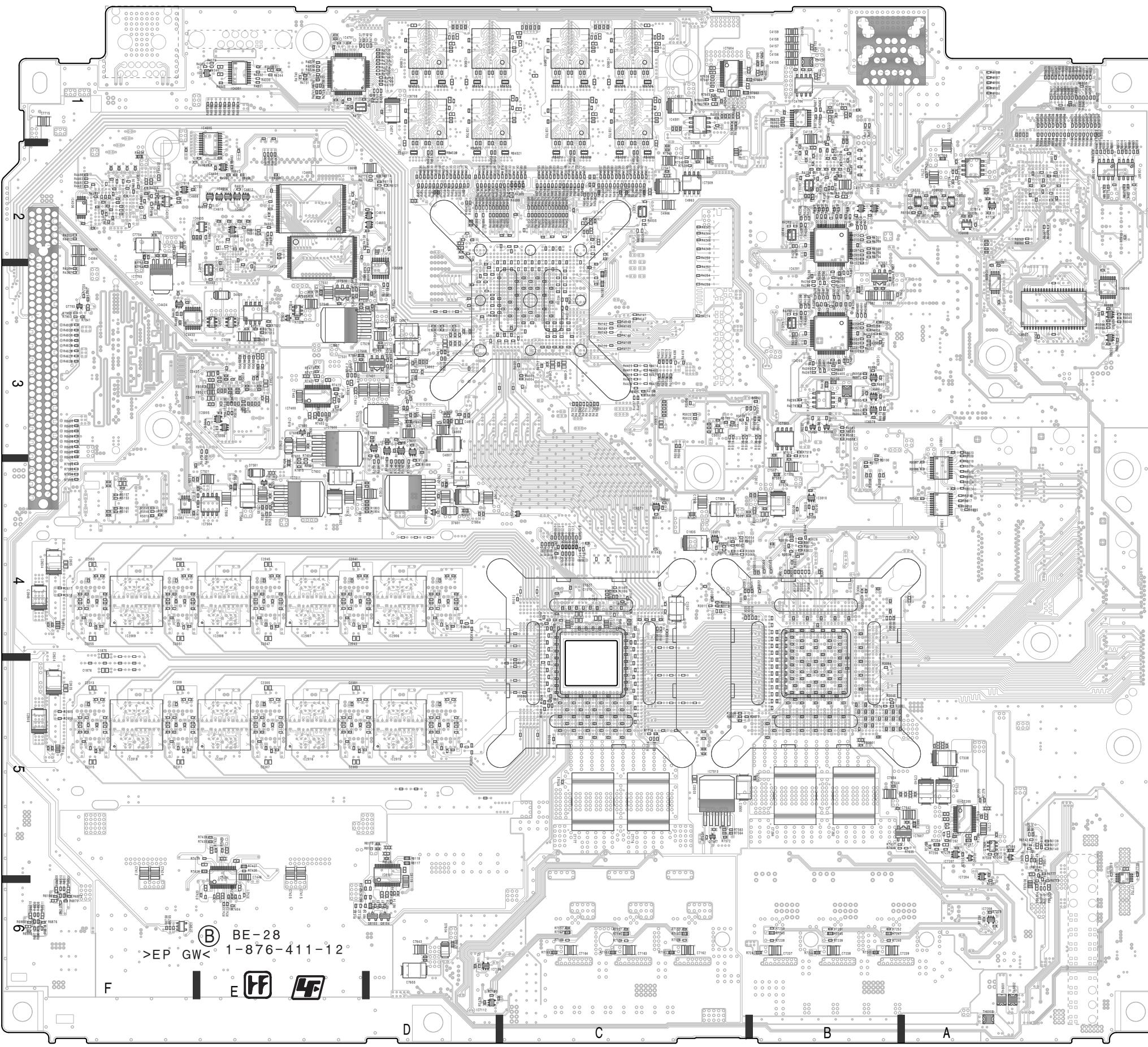


6-2

6-2

**BE-28-A SIDE-
SUFFIX: -12**

BCU-100 MM



BE-28 -B SIDE-
SUFFIX: -12

BE-28 (1-876-411-12)

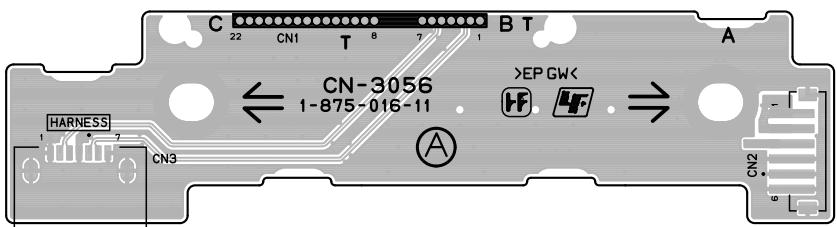
*: B SIDE

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C1852 *C4 C1958 *C4 C2091 *E4 C2210 E4 C2344 *E5 C2501 E5 C2995 F4	C3093 *B4 C4126 B1 C4313 *F2 C4482 *E2 C4723 C1 C4839 *D2 C4930 *C3 C5033 *C3 C5604 E3	C1012 *C5 C1853 *C5 C1959 *C4 C2092 *E4 C2211 E4 C2345 *D5 C2502 E5 C2996 F5	C3094 *B4 C4127 *B2 C4314 *F2 C4483 *E3 C4724 C1 C4840 *D2 C4931 *C3 C5034 *C3 C5605 E3	C1014 *C4 C1854 *C5 C1960 *C4 C2093 *E4 C2212 E4 C2346 *D5 C2503 E5 C2997 F4	C3095 *B4 C4128 A1 C4315 *F2 C4484 *F2 C4725 C1 C4841 *D2 C4932 *C3 C5035 *C3 C5606 E3	C1015 *C4 C1855 *C5 C1961 *C4 C2094 *E4 C2213 E4 C2347 *D5 C2504 E5 C2998 F5	C3096 *B5 C4129 *B1 C4316 *F2 C4485 *E2 C4726 C1 C4842 *D2 C4933 *C3 C5036 *C3 C5607 E3	C1016 C4 C1856 *C5 C1962 *C4 C2095 *E4 C2214 E4 C2348 *E5 C2505 E5 C2999 F4	C3097 *B5 C4130 B1 C4317 *F2 C4491 *E2 C4727 D1 C4843 D1 C4934 *C3 C5037 *C3 C5608 E3	C1017 *C4 C1857 *C5 C1963 *C4 C2100 *E4 C2215 E4 C2349 *D5 C2506 E5 C3001 *B5	C3098 *B5 C4131 B1 C4318 *F2 C4492 *E2 C4728 D1 C4844 C1 C4935 *C3 C5038 C3 C5609 *E3	C1018 *C4 C1858 *C5 C1964 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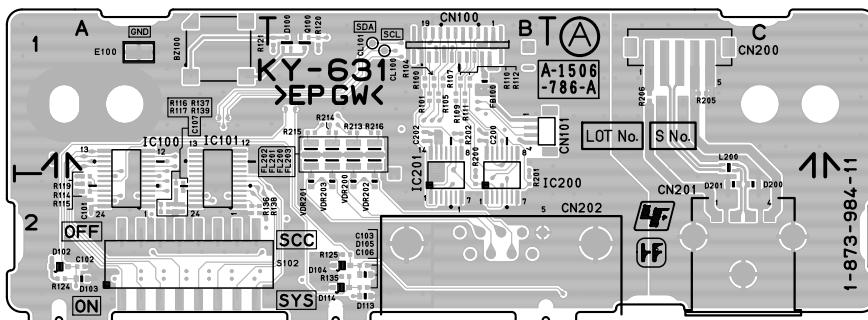
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Q8002	A5	R1136	C4	R3013	*B4	R3507	A4	R4147	*C3	R4240	C2	R4331	*E1	R4422	*C3		R4514	*C2	R4605	D2	R4708	*D1	R4800	C2	R4941	*C2	R5059	*C3	R5612	*E3	R6102	D4	R6755	*F6
Q8101	D6	R1140	C4	R3014	*B4	R3508	A4	R4148	*C3	R4241	C2	R4332	*E1	R4423	*C3		R4515	*D2	R4608	*E2	R4709	*D1	R4801	*D3	R4942	*C2	R5060	C3	R5613	E3	R6103	D4	R6756	A2
Q8102	D5	R1150	*D3	R3015	*B4	R3509	A4	R4149	*C3	R4242	*C2	R4333	E1	R4424	*C3		R4516	*D2	R4616	*E2	R4710	*C3	R4802	C2	R4943	*C2	R5061	C3	R5614	*E3	R6104	B4	R6757	A2
Q8103	*D6	R1157	*D6	R3016	*B4	R3510	A4	R4151	B2	R4243	C2	R4334	*E1	R4425	*C3		R4517	*C2	R4619	*E2	R4711	*C3	R4803	D2	R4944	*C2	R5063	C4	R5615	E3	R6105	*F6	R6758	*F6
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R1001	*C5	R1166	C4	R3018	*B4	R4001	*C3	R4154	*B2	R4245	C2	R4336	A6	R4427	*C3		R4519	*C2	R4622	*E2	R4713	*C3	R4805	*D2	R4946	C2	R5066	*C3	R5617	E3	R6107	*F6	R6763	B2
R1002	*C5	R1167	*D3	R3019	*C4	R4002	*C3	R4155	*B2	R4246	*C2	R4337	A6	R4428	E2		R4520	*C2	R4623	*C2	R4714	*D1	R4806	*D2	R4947	C2	R5067	C3	R5618	*E3	R6108	B4	R6764	B2
R1004	*C5	R1180	C4	R3020	*C4	R4004	*C3	R4156	*B2	R4247	C2	R4338	A6	R4429	E2		R4521	*C2	R4624	E2	R4715	*D1	R4807	*D2	R4948	C2	R5068	C3	R5619	E3	R6109	B4	R6765	B2
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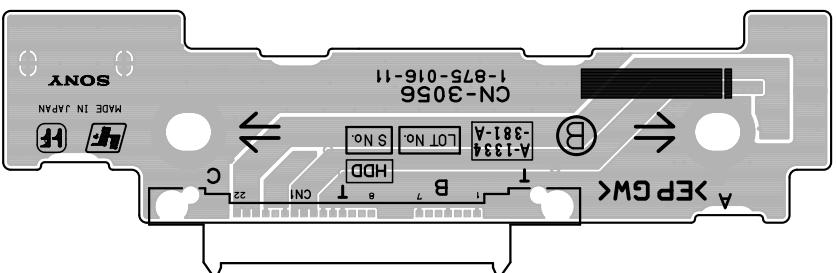
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R6975	*A2	R7211	A6	R7437	F5	R7609	B4	R7720	A2	R8406	*F3	RB4514	C1
R6976	*A2	R7212	A6	R7438	D5	R7610	B4	R7721	A2	R8407	*F3	RB4515	C2
R6977	*A2	R7213	A6	R7439	*E5	R7611	B4	R7722	*A2	R8408	*F3	RB4516	C1
R6978	*A2	R7214	A6	R7472	*E3	R7612	*D3	R7723	*A2	R8409	C3	RB4517	D2
R6979	*A2	R7217	A6	R7473	*E3	R7613	*D3	R7724	*A2	R8410	C3	RB4518	D1
R6980	*A2	R7218	A6	R7505	A5	R7614	*D3	R7725	A2	R8411	C3	RB4519	C2
R6981	*A2	R7219	A6	R7506	A5	R7615	*E4	R7726	*A2	R8412	C3	RB4520	C1
R6982	*A2	R7220	A6	R7507	A5	R7616	*D4	R7728	*A5	R8413	C3	RB4521	*C2
R6983	*A2	R7221	A6	R7508	*A5	R7617	*D3	R7729	*A5	R8414	C3	RB4522	*C1
R6984	*A2	R7223	A6	R7509	*A5	R7618	B4	R7730	F2	R8415	C3	RB4523	*D2
R6985	*A1	R7224	A6	R7511	*E3	R7619	E4	R7731	F2	R8416	C3	RB4524	*D1
R6986	*A1	R7225	A6	R7512	*E3	R7620	E4	R7732	*F2	R8445	A1	RB4525	D2
R6987	*A1	R7226	*A5	R7513	*E3	R7621	E4	R7737	A1	R8446	A1	RB4526	D1
R6988	*A1	R7227	A6	R7514	*E4	R7622	E4	R7738	A1	R8447	*A1	RB4527	D2
R6989	B2	R7228	A6	R7515	*E4	R7623	A3	R7739	A1	R8448	*A1	RB4528	D1
R6990	B2	R7229	A6	R7516	*E4	R7624	D6	R7740	A2	R8449	*A1	RB4529	*D2
R6991	B3	R7230	*A5	R7517	*B3	R7625	E4	R7741	A1	R8450	A1	RB4530	*D1
R6992	B3	R7231	A6	R7518	*B3	R7626	*E4	R7742	A1	R8451	A1	RB4531	*D2
R6993	*B1	R7232	A6	R7519	*B3	R7627	*D4	R7743	*A2	R8452	A1	RB4532	*D1
R6994	*A2	R7233	A6	R7520	A5	R7628	C4	R7748	A1	R8454	*A1	RB4533	*D1
R6995	*A2	R7234	A6	R7522	*E3	R7629	A3	R7749	A2	R8455	A1	RV4301	E1
R6996	*A2	R7235	A6	R7523	*F4	R7630	A3	R7750	*F2	R8456	C3	RV4303	E1
R6997	*A2	R7236	*A6	R7524	*B4	R7631	A3	R7751	*F2	R8457	C3	RV4305	E1
R6998	*A2	R7238	*B6	R7525	*D3	R7632	A3	R7752	*F2	R8458	*E2	RV4307	E1
R6999	B4	R7239	*B6	R7526	*D3	R7633	A3	R7753	*F2	R8463	*E2		
R7100	D6	R7240	*B6	R7527	*D3	R7634	D4	R7754	*F3	R8465	A1	S4601	E1
R7101	D6	R7242	*B6	R7528	*E3	R7635	*A5	R7755	*F2	R8466	A1	S4602	E1
R7102	D6	R7243	*B6	R7533	E3	R7636	*A5	R7756	*F2	R8467	A1	S6001	A2
R7103	D6	R7244	*B6	R7534	E3	R7637	*A5	R7757	F2	R8468	*A1	S6002	A3
R7104	D6	R7245	*B6	R7535	E3	R7638	D6	R7758	F3	R8469	A1	S6003	A3
R7105	D6	R7246	*B6	R7536	*D3	R7639	D6	R7759	F3	R8470	*A1	S6004	A3
R7106	D6	R7247	*B6	R7537	*D3	R7640	D6	R7760	F3	R8471	C3	S6501	F6
R7107	D6	R7250	*B6	R7538	*D3	R7641	*D3	R7761	F2	R8472	C3	S6503	F6
R7108	D6	R7251	*B6	R7539	*C2	R7642	A3	R7762	F2	R8484	*A1		
R7109	D6	R7252	*B6	R7540	*C2	R7643	E4	R7767	F2	R8485	*A1	TH4101	*B1
R7110	C6	R7254	*A5	R7541	*C2	R7644	*B5	R7802	A6	R8486	*A1	TH4201	*B3
R7111	C6	R7255	*A5	R7542	*E3	R7645	D6	R7803	A6	R8487	*A1	TH6001	*A6
R7112	C6	R7256	*A5	R7543	*E3	R7646	D4	R7804	A6	R8488	A1	TH6002	*A6
R7113	C6	R7257	*A5	R7544	*E3	R7647	D4	R7808	A6	R8489	A1	TH6003	*A6
R7114	C6	R7258	B6	R7545	*D3	R7648	D4	R7809	A6	R8490	*A1		
R7117	C6	R7259	B6	R7547	E3	R7649	D4	R7813	*A2	R8491	*A1	X3100	B3
R7118	C6	R7260	B6	R7548	D3	R7650	*B3	R7841	*F3	R8492	*A1	X4001	*C2
R7119	D6	R7262	*A5	R7549	*C2	R7651	*B3	R7890	A6	R8493	*A1	X4100	B1
R7120	D6	R7263	B5	R7550	*E3	R7652	*B3	R7891	A6	R8494	*A1	X4101	*B2
R7121	C6	R7264	B5	R7552	*D3	R7653	*A3	R7892	A6	R8495	*A1	X4102	B1
R7123	D6	R7265	B5	R7553	*E4	R7654	D4	R7893	*F4	R8496	A1	X4201	*B2
R7124	D6	R7267	*A5	R7554	*C5	R7656	*C1	R7894	*F4	R8497	A1	X4202	*B3
R7125	C6	R7268	*A5	R7556	*E4	R7657	*C1	R7895	*F4	R8498	*A1	X4301	F2
R7127	D6	R7269	*A5	R7557	*E4	R7658	*C1	R7896	*F4	R8499	*A1	X4401	*E3
R7128	D6	R7270	*A5	R7558	*E4	R7659	*C1	R7902	*F3	R8501	*A1	X4701	*D1
R7129	C6	R7271	A5	R7559	F5	R7660	*C1	R7903	*F3	R8502	A1	X5002	E3
R7131	D6	R7272	A5	R7560	F5	R7661	*C1	R8001	A5	R8503	A1	X6001	A2
R7132	D6	R7273	*B5	R7561	F5	R7662	*C1	R8002	A5	R8504	*A1	X6002	A3
R7133	D6	R7274	A5	R7562	*C5	R7663	*C1	R8003	A5	R8505	*A1		
R7134	D6	R7275	A5	R7563	*C5	R7664	*B1	R8007	*A4	R8506	A1		



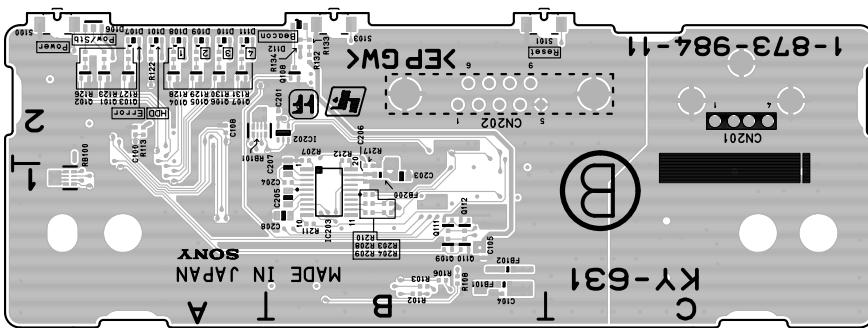
CN-3056 -A SIDE-
SUFFIX: -11



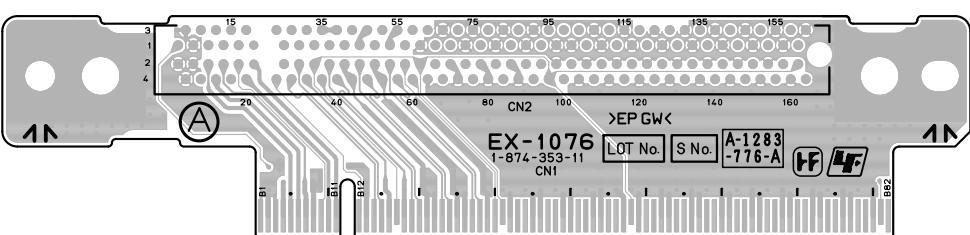
KY-631 -A SIDE-
SUFFIX: -11



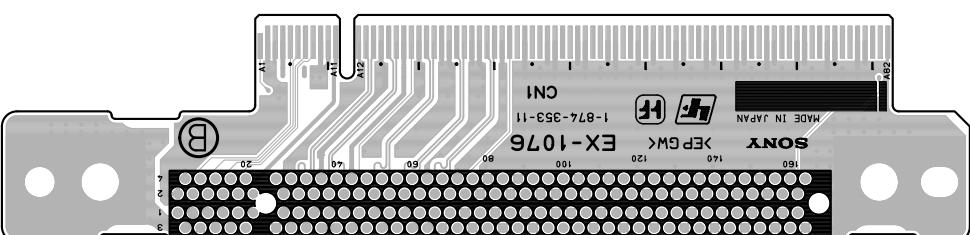
CN-3056 -B SIDE-
SUFFIX: -11



KY-631 -B SIDE-
SUFFIX: -11



EX-1076 -A SIDE-
SUFFIX: -11

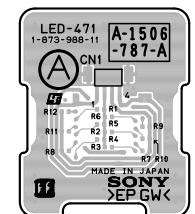


EX-1076 -B SIDE-
SUFFIX: -11

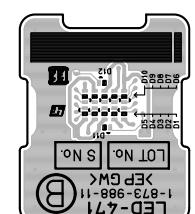
KY-631 (1-873-984-11)

* : B SIDE

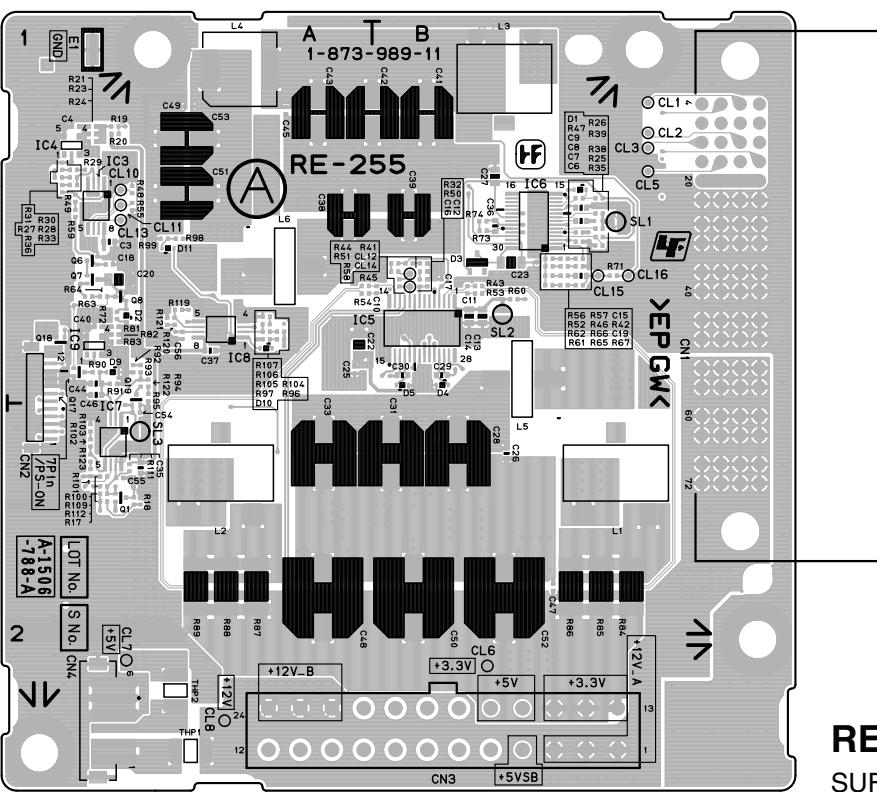
BZ100	A1	D200	C2	R107	B1	R213	B1
C100	*A2	D201	C2	R108	*B1	R214	B1
C101	A2	E100	A1	R109	B1	R215	B1
C102	A2			R110	B1	R216	B1
C103	B2	FB100	B1	R111	B1	R217	*B1
C104	*B1	FB101	*B1	R112	B1		
C105	*B1	FB102	*B1	R113	*A2	RB100	*A1
C106	B2	FB200	*B1	R114	A2	RB101	*A2
C107	A2			R115	A2		
C108	*A2	FL200	B1	R116	A2	S100	*A2
C200	B1	FL201	B1	R117	A2	S101	*B2
C201	*B2	FL202	B1	R119	A2	S102	A2
C202	B1	FL203	B1	R120	B1	S103	*B2
C203	*B1			R121	B1		
C204	*B1	IC100	A2	R122	*A2	VDR200	B2
C205	*B1	IC101	A2	R123	*A2	VDR201	B2
C206	*B1	IC200	B2	R124	A2	VDR202	B2
C207	*B1	IC201	B2	R125	B2	VDR203	B2
C208	*B1	IC202	*B2	R126	*A2		
		IC203	*B1	R127	*A2		
CL100	B1			R128	*A2		
CL101	B1	L200	C1	R129	*A2		
CN100	B1	Q100	B1	R130	*A2		
CN101	B1	Q101	*A2	R131	*A2		
CN200	C1	Q102	*A2	R132	*B2		
CN201	C2	Q103	*A2	R133	*B2		
CN202	B2	Q104	*A2	R134	*B2		
D100	B1	Q105	*A2	R135	B2		
D101	*A2	Q106	*A2	R136	A2		
D102	A2	Q107	*A2	R137	A2		
D103	A2	Q108	*B2	R138	A2		
D104	B2	Q109	*B1	R139	A2		
D105	B2	Q110	*B1	R200	B2		
D106	*A2	Q111	*B1	R201	B2		
D107	*A2	Q112	*B1	R202	B1		
D108	*A2			R203	*B1		
D109	*A2			R204	*B1		
D110	*A2			R205	C1		
D111	*A2			R206	C1		
D112	*B2			R207	*B2		
D113	B2			R208	*B1		
D114	B2			R209	*B1		
				R210	*B1		
				R211	*B1		
				R212	*B2		



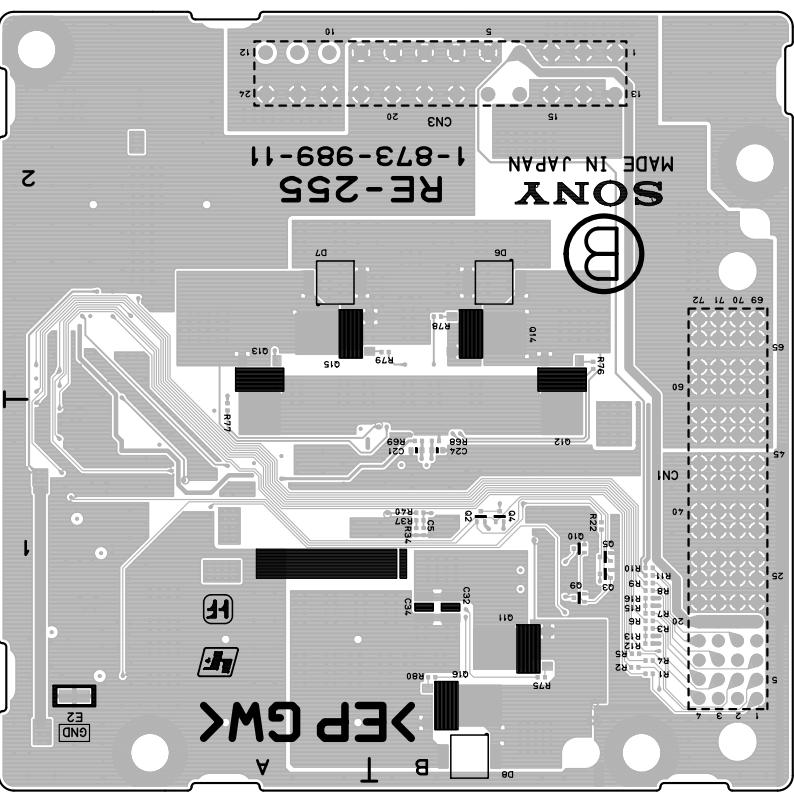
LED-471 -A SIDE-
SUFFIX: -11



LED-471 -B SIDE-
SUFFIX: -11



RE-255 -A SIDE-
SUFFIX: -11



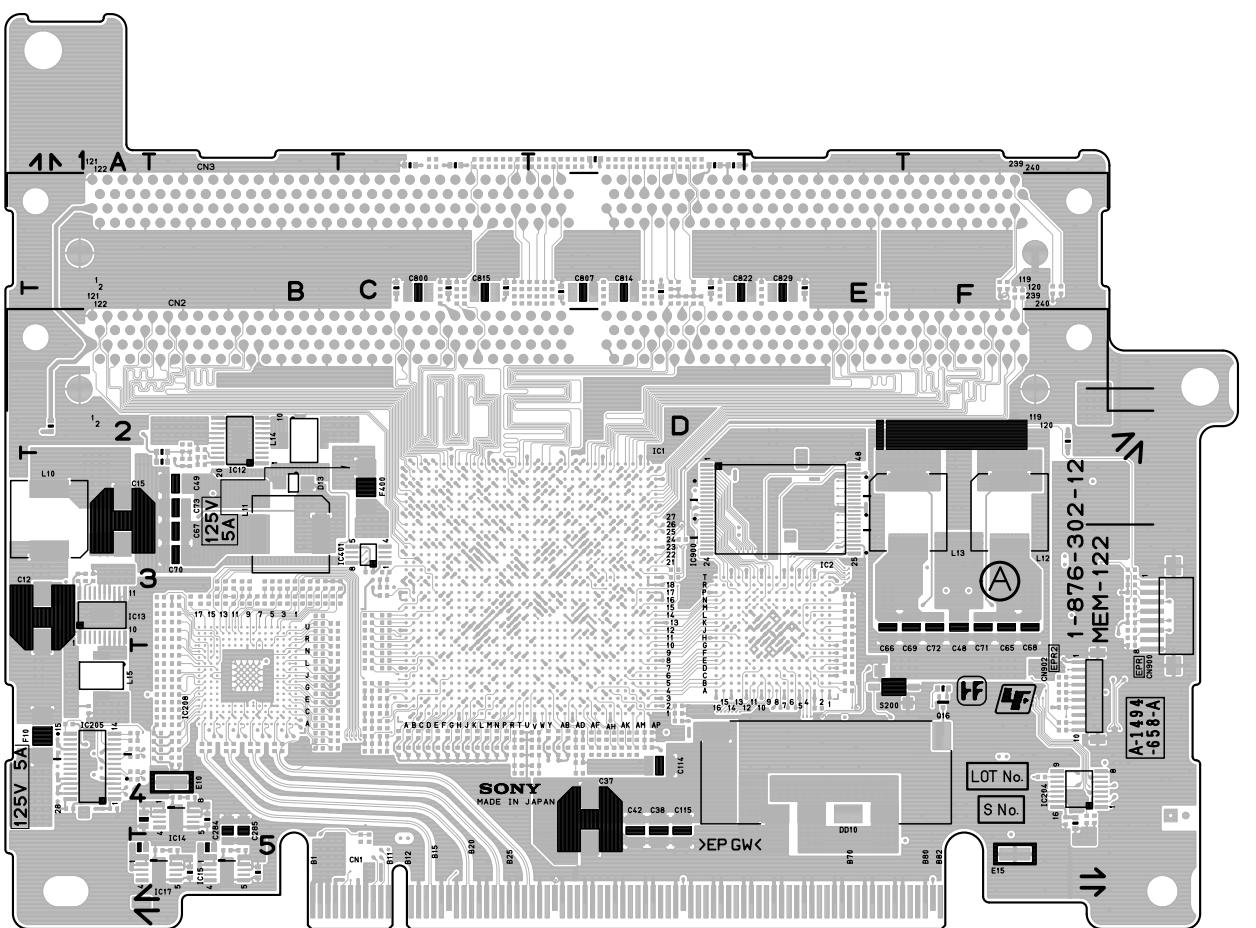
RE-255 -B SIDE-
SUFFIX: -11

RE-255 (1-873-989-11)

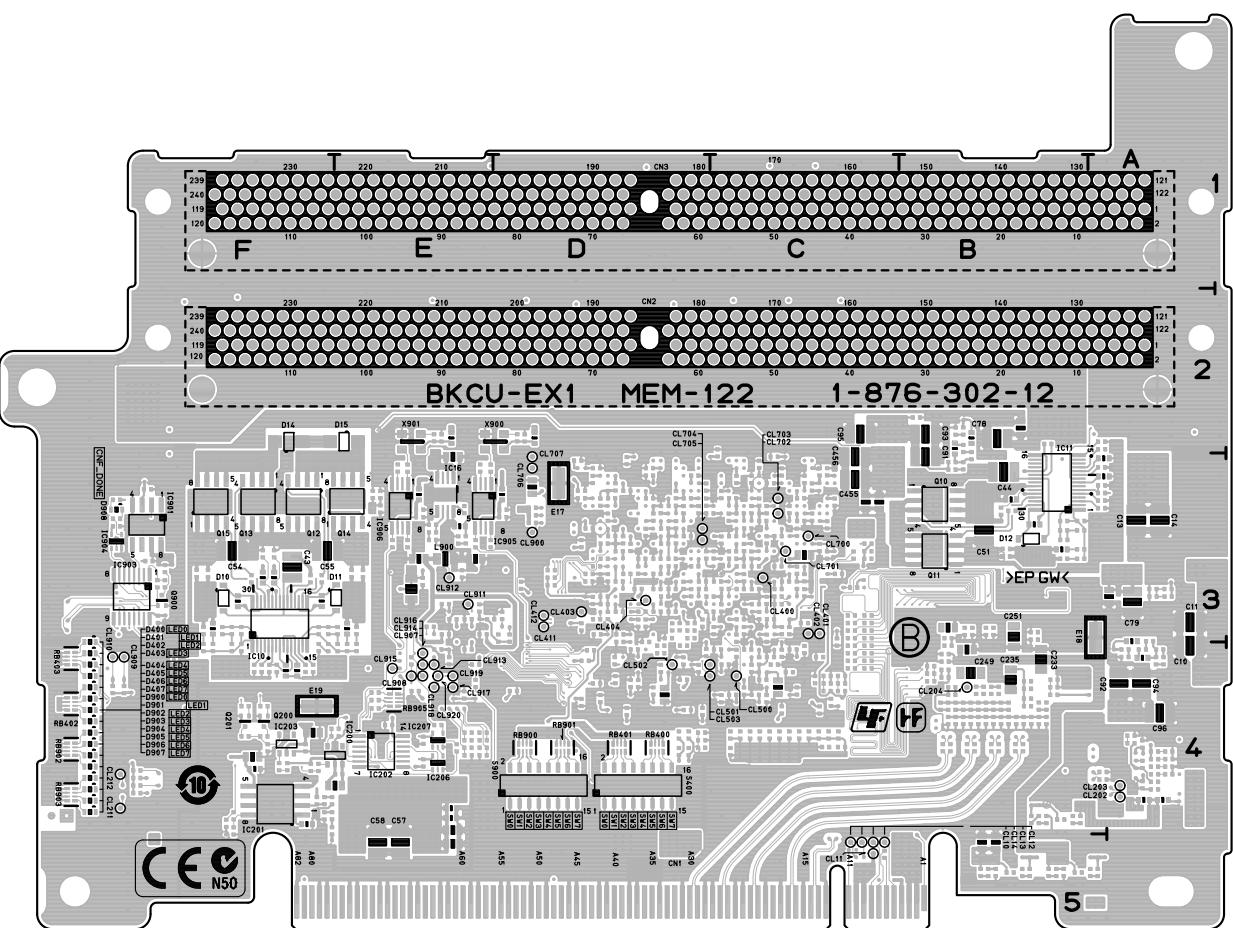
* : B SIDE

C3	A1	E1	A1	R50	B1
C4	A1	E2	*A1	R51	B1
C5	*B1			R52	B1
C6	B1	IC3	A1	R53	B1
C7	B1	IC4	A1	R54	A1
C8	B1	IC5	B1	R55	A1
C9	B1	IC6	B1	R56	B1
C10	B1	IC7	A2	R57	B1
C11	B1	IC8	A1	R58	B1
C12	B1	IC9	A1	R59	A1
C13	B1	L1	B2	R60	B1
C14	B1	L2	A2	R61	B1
C15	B1	L3	B1	R62	B1
C16	B1	L4	A1	R63	A1
C17	B1	L5	B1	R64	A1
C18	A1	L6	A1	R65	B1
C19	B1			R66	B1
C20	A1			R67	B1
C21	*B1	Q1	A2	R68	*B1
C22	A1	Q2	*B1	R69	*B1
C23	B1	Q3	*B1	R71	B1
C24	*B1	Q4	*B1	R72	A1
C25	A1	Q5	*B1	R73	B1
C26	B2	Q6	A1	R74	B1
C27	B1	Q7	A1	R75	*B1
C28	B2	Q8	A1	R76	*B2
C29	B1	Q9	*B1	R77	*A1
C30	B1	Q10	*B1	R78	*B2
C31	B2	Q11	*B1	R79	*B2
C32	*B1	Q12	*B2	R80	*B1
C33	A2	Q13	*A2	R81	A1
C34	*B1	Q14	*B2	R82	A1
C35	A2	Q15	*A2	R83	A1
C36	B1	Q16	*B1	R84	B2
C37	A1	Q17	A1	R85	B2
C38	A1	Q18	A1	R86	B2
C39	B1	Q19	A1	R87	A2
C40	A1			R88	A2
C41	B1	R1	*B1	R89	A2
C42	B1	R2	*B1	R90	A1
C43	A1	R3	*B1	R91	A1
C44	A1	R4	*B1	R92	A1
C45	A1	R5	*B1	R93	A1
C46	A1	R6	*B1	R94	A1
C47	B2	R7	*B1	R95	A1
C48	A2	R8	*B1	R96	A1
C49	A1	R9	*B1	R97	A1
C50	B2	R10	*B1	R98	A1
C51	A1	R11	*B1	R99	A1
C52	B2	R12	*B1	R100	A2
C53	A1	R13	*B1	R101	A2
C54	A2	R15	*B1	R102	A2
C55	A2	R16	*B1	R103	A2
C56	A1	R17	A2	R104	A1
CL1	B1	R19	A1	R105	A1
CL2	B1	R20	A1	R106	A1
CL3	B1	R21	A1	R107	A1
CL5	B1	R22	*B1	R109	A2
CL6	B2	R23	A1	R111	A2
CL7	A2	R24	A1	R112	A2
CL8	A2	R25	B1	R119	A1
CL10	A1	R26	B1	R120	A1
CL11	A1	R27	A1	R121	A1
CL12	B1	R28	A1	R122	A1
CL13	A1	R29	A1	R123	A2
CL14	B1	R30	A1	SL1	B1
CL15	B1	R31	A1	SL2	B1
CL16	B1	R32	B1	SL3	A2
CN1	B2	R34	*B1	THP1	A2
CN2	A1	R35	B1	THP2	A2
CN3	B2	R36	A1		
CN4	A2	R37	*B1		
		R38	B1		
D1	B1	R39	B1		
D2	A1	R40	*B1		
D3	B1	R41	B1		
D4	B1	R42	B1		
D5	B1	R43	B1		
D6	*B2	R44	B1		
D7	*A2	R45	A1		
D8	*B1	R46	B1		
D9	A1	R47	B1		
D10	A1	R48	A1		
D11	A1	R49	A1		

BKCU-EX1 (SY)



MEM-122 -A SIDE-
SUFFIX: -12



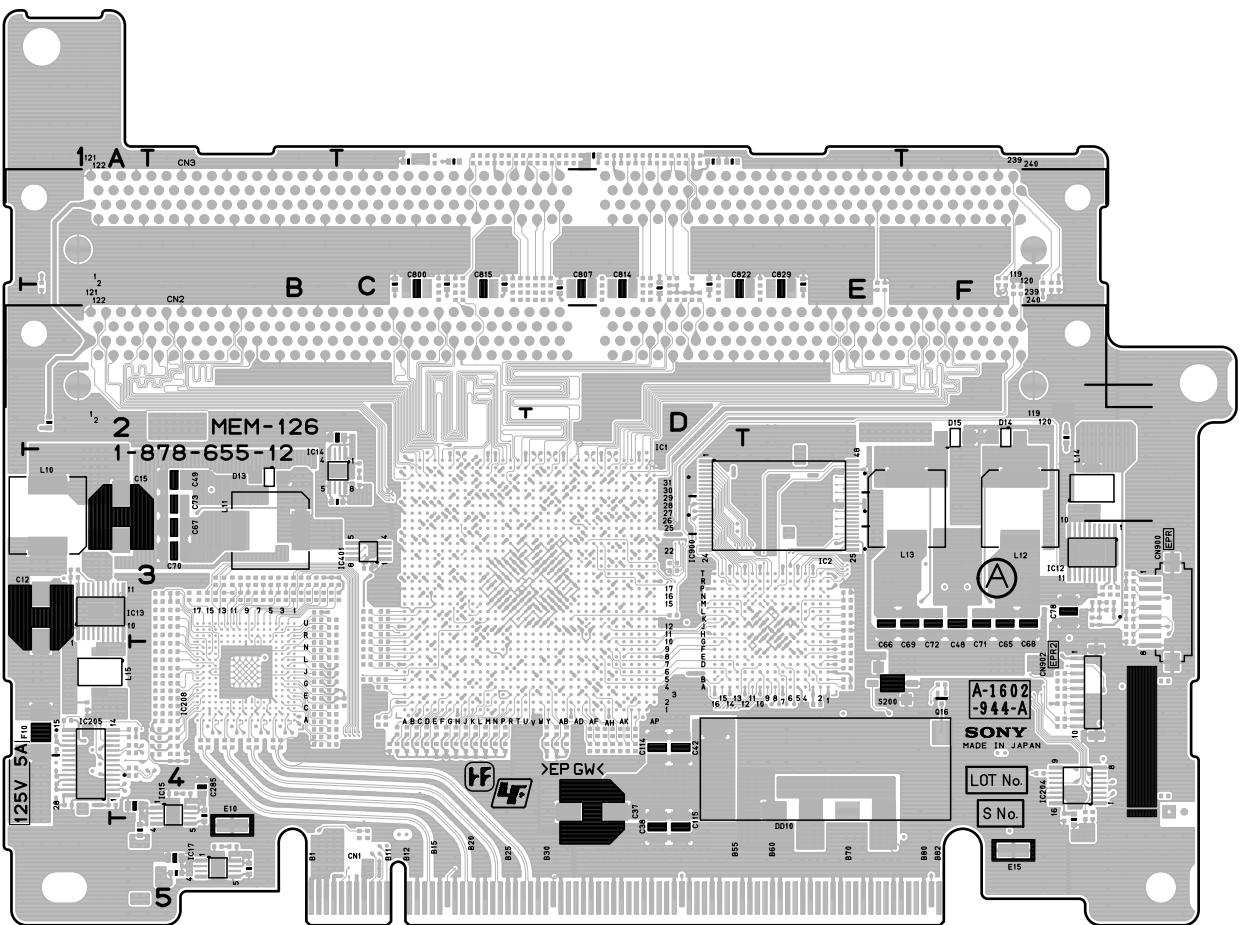
MEM-122 -B SIDE-
SUFFIX: -12

MEM-122 (1-876-302-12)

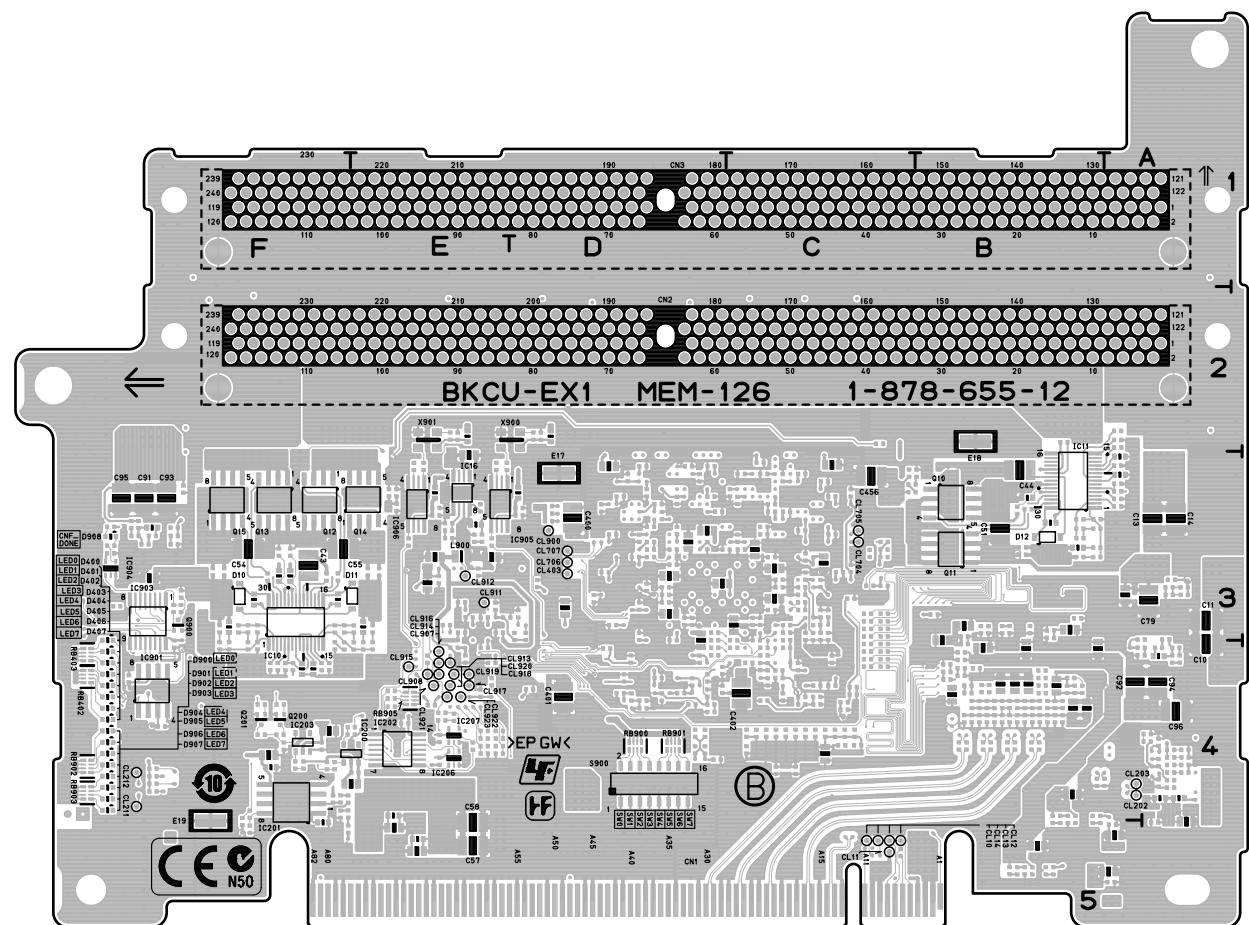
*:B SIDE

C10	*A4	C101	*B2	C276	*B4	C482	*D3	C728	*C3	C901	*E3	D401	*F4	R17	*F4	R218	A4	R316	B4	R429	D3	R588	*C4	R901	E4
C11	*A3	C102	*A4	C277	*B4	C483	*D3	C729	*C3	C902	*E3	D402	*F4	R18	*F4	R219	A4	R317	B4	R430	*D3	R589	*C4	R902	E4
C12	A3	C103	*B3	C278	*B4	C484	*D3	C730	*C3	C903	*F3	D403	*F4	R19	*F4	R220	A4	R318	B3	R431	*D3	R590	D4	R903	E4
C13	*A3	C104	*A4	C279	*B4	C485	*D3	C731	*C3	C904	*F3	D404	*F4	R20	*F4	R221	*F4	R319	B3	R500	C3	R591	C4	R904	E4
C14	*A3	C105	B4	C280	*B4	C500	*C4	C732	*C3	C908	*F3	D405	*F4	R21	*F4	R222	*F4	R320	B3	R501	C4	R592	C4	R905	*E3
C15	A3	C106	B5	C281	*B4	C501	*C4	C733	*D3	C911	*E3	D406	*F4	R22	*B3	R223	*F4	R321	B3	R502	C3	R593	C4	R906	*E4
C16	*F3	C107	*E3	C282	*B5	C502	*C4	C734	*D3	C912	*D3	D407	*F4	R23	*F4	R224	*F4	R322	B4	R503	C4	R594	C4	R907	*E4
C17	*B3	C108	B4	C283	*B5	C503	*C4	C735	*D3	C913	*D4	D900	*F4	R24	*F4	R225	*F4	R323	B3	R504	*C3	R595	C4	R908	*E4
C18	*E3	C109	B5	C284	B4	C504	*C4	C736	*D3	C914	*E4	D901	*F4	R25	*B3	R226	*F4	R324	B4	R505	*C4	R596	D4	R909	*E4
C19	*F3	C110	*E3	C285	B4	C505	*C4	C737	*D3	C915	*E3	D902	*F4	R26	*F4	R227	*F4	R325	B3	R506	*C4	R597	C4	R910	*E4
C20	*F3	C111	A5	C400	*C4	C506	*C3	C738	*D3	C916	*E3	D903	*F4	R27	*F4	R230	*A4	R326	B4	R507	*C4	R598	*C4	R911	*E4
C21	*B3	C112	B5	C401	*C3	C507	*C4	C739	*D3	C917	*E3	D904	*F4	R28	*F4	R231	*A4	R327	B3	R508	*C4	R599	C4	R912	*E4
C22	*F3	C113	B5	C402	*D4	C508	*C4	C740	*D3	C918	*E4	D905	*F4	R29	*E4	R232	*A4	R328	B3	R509	*C4	R600	C4	R913	*E4
C23	*F3	C114	D4	C403	*D3	C509	*C4	C741	*D3	C919	*E4	D906	*F4	R30	*E4	R233	*A4	R329	B3	R510	C3	R601	*D4	R914	F3
C24	*B3	C115	D4	C404	*C3	C510	*C4	C742	*D3	C920	*E3	D907	*F4	R31	*B3	R234	*A4	R330	B4	R511	C3	R602	*D4	R915	*D3
C25	*F4	C200	*F4	C405	*C3	C511	C4	C743	*D3	C921	*E4	D908	*F3	R32	*B3	R235	*A4	R331	B4	R512	C4	R603	C4	R916	F3
C26	*F4	C201	*F4	C406	*C3	C512	C4	C744	*D3	C922	*F3	D910	E4	R34	*F3	R237	A4	R332	B4	R513	*C3	R604	C4	R917	F3
C27	*F4	C202	*E4	C407	*C4	C513	C4	C745	*D3	C923	*E3	DD10	E4	R35	*E3	R239	*A4	R333	B4	R514	*C3	R605	D4	R918	F3
C28	*F4	C203	*E4	C408	*C3	C514	C4	C746	*D3	C924	*E3	D906	*F4	R30	*E4	R233	*A4	R335	B4	R516	C4	R607	D4	R920	*D3
C29	*F4	C204	*F4	C409	*C3	C515	*C4	C747	*D3	C925	*E3	E10	B4	R36	*B3	R244	*A4	R336	B3	R517	C4	R608	D4	R921	*D3
C30	*A3	C205	*E4	C410	*C3	C516	*C4	C748	*D3	C926	*E3	E15	F5	R37	*A2	R245	*A4	R337	B4	R518	C4	R609	D4	R922	F3
C31	*A3	C206	*F4	C411	*C3	C517	*C4	C749	*D3	C927	*E4	E17	*D3	R38	F4	R246	*E4	R338	B3	R519	C4	R610	*D4	R923	F3
C32	*A3	C207	A4	C412	*C3	C518	*C4	C750	*D3	C928	*E4	E18	*A3	R39	*F3	R247	B4	R339	B4	R520	*C4	R611	D4	R924	F3
C33	*A3	C208	*A4	C413	*C3	C519	*C4	C751	*D3	C929	*E3	E19	*F4	R40	B2	R248	B4	R340	B3	R521	*C4	R612	D4	R925	F3
C34	*F3	C209	*A4	C414	*C3	C520	*C4	C752	*D3	C930	*E3	E41	*F3	R249	B4	R341	B3	R522	*C4	R613	D4	R926	F4		
C35	*E3	C210	*F4	C415	*C3	C521	*C4	C753	*D3	C931	*E3	F10	A4	R42	*F3	R250	B4	R342	B3	R523	*C4	R614	D4	R927	F3
C36	*B3	C211	*F4	C416	*C3	C522	*C4	C754	*D3	C932	*D2	F400	C3	R43	*B3	R251	B4	R343	B3	R524	C4	R615	C3	R928	F4
C37	D4	C212	*F4	C417	*C3	C523	*C4	C755	*D3	C933	*E2	R44	*F4	R252	B4	R344	B3	R525	C4	R616	D4	R929	F4		
C38	D4	C213	F4	C418	*C3	C524	C4	C756	*D3	F810	F2	R45	*F4	R253	B4	R345	B3	R526	C4	R617	D4	R931	F4		
C39	*F3	C214	*E4	C419	*C3	C525	C4	C757	*D3	C935	*D3	FB11	A2	R46	*F4	R254	B4	R346	B4	R527	C4	R618	D4	R934	*F3
C40	*F3	C215	A4	C420	*C3	C526	*D4	C758	*D3	C936	*E3	FB200	F4	R47	*F3	R255	B4	R347	B4	R528	C3	R619	D4	R935	*F3
C41	*B3	C216	A4	C421	*D3	C527	C4	C759	*D3	C937	*E3	FB201	*A4	R48	*F3	R256	B4	R348	B4	R529	C3	R620	D4	R938	*F3
C42	D4	C217	A4	C422	*D3	C528	*C4	C760	*D3	F8202	*A4	R49	*B3	R257	B3	R349	B4	R530	*C4	R621	D4	R939	*E4		
C43	*F3	C218	*E4	C423	*D3	C529	*C4	C761	*D3	CL10	*C5	FB900	*D2	R50	B3	R258	B3	R350	B4	R531	*C4	R622	D4	R940	E3
C44	*B3	C219	*E4	C424	*D3	C530	*C4	C762	*D3	CL11	*C5	FB901	*E2	R51	B2	R259	B3	R351	B4	R532	C4	R623	D4	R941	E4
C45	*B3	C220	*B4	C425	*D3	C531	*D4	C763	*D3	CL12	*C5	FB902	*D3	R52	*A3	R260	B3	R352	B4	R533	*C3	R624	D4	R942	E3
C46	*F3	C221	*B4	C426	*D3	C532	*D4	C800	C2	CL13	*C5	FB903	*E3	R53	*A3	R261	B3	R354	B4	R534	C4	R625	D4	R943	*E4
C47	*F3	C222	*B4	C427	*D3	C533	*D4	C801	C2	CL14	*C5	FB201	*A4	R48	*F3										

BKCU-EX1 (SY)



MEM-126 -A SIDE-
SUFFIX: -12

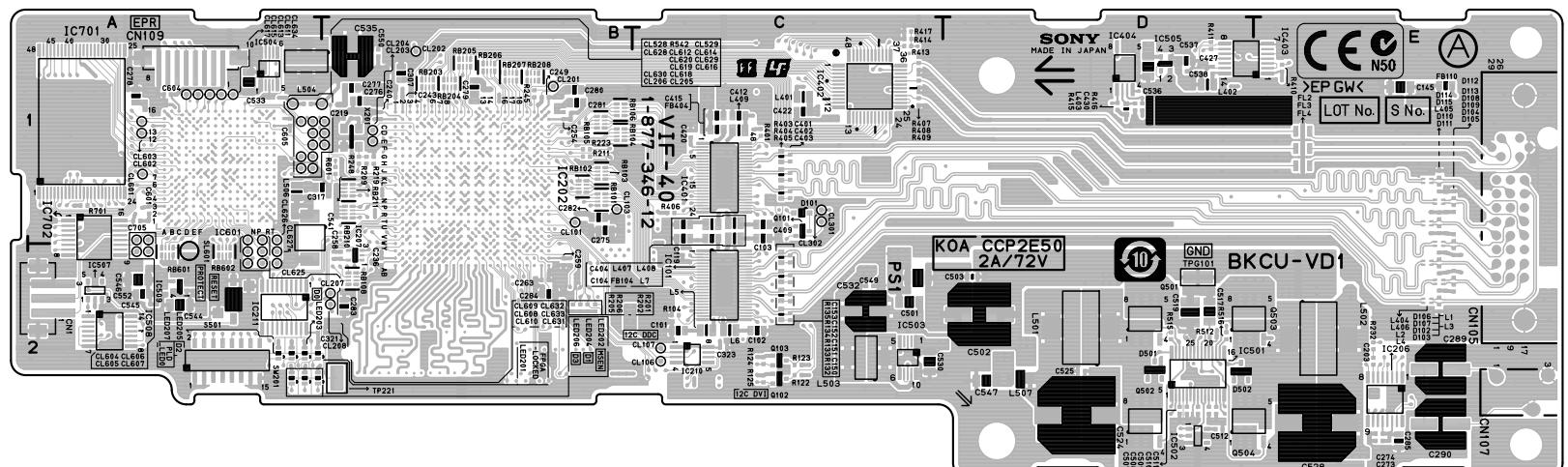


MEM-126 -B SIDE-
SUFFIX: -12

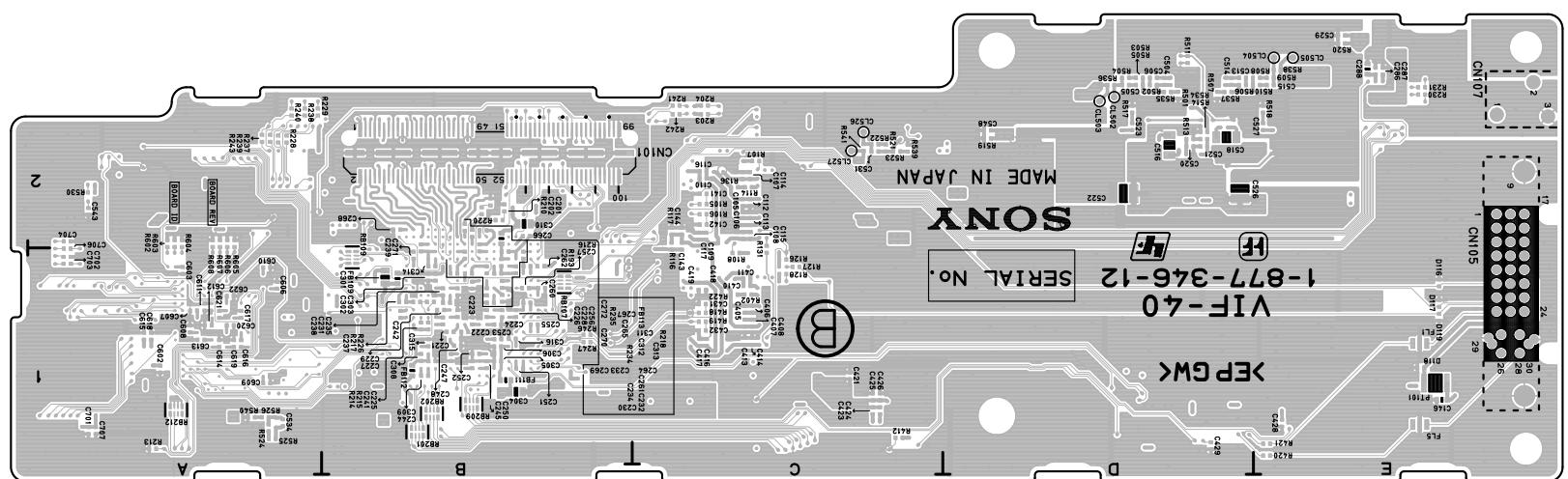
MEM-126 (1-878-655-12)

*:B SIDE

C10	*A4	C101	*F3	C272	*B4	C525	*C4	C831	C2	CN1	B5	Q14	*E3	R201	*F4	R300	*B4	R412	*C4	R586	C4	R910	*E4
C11	*A3	C102	*A4	C273	*B4	C526	*D4	C832	C2	CN2	A2	Q15	*F3	R202	*F4	R301	*B4	R413	*D3	R587	*C4	R911	*E4
C12	A3	C103	*F3	C274	*B4	C527	*D4	C833	D2	CN3	A1	Q16	F4	R205	*E4	R302	*B4	R414	*C3	R588	*C4	R912	*E4
C13	*A3	C104	*A4	C275	*B4	C528	*D4	C834	C1	CN900	F3	Q200	*F4	R206	*F4	R303	B3	R415	*C3	R589	*C4	R913	*E4
C14	*A3	C105	C3	C276	*B4	C529	*D4	C835	C2	CN902	F4	Q201	*F4	R207	*F4	R304	B4	R417	*C3	R590	D4	R914	*F3
C15	A3	C106	B4	C277	*B4	C530	*C4	C836	E2			Q900	*F3	R208	*F4	R305	B4	R418	*C3	R591	C4	R915	*D3
C16	*F3	C107	*E3	C278	*B4	C532	*D4	C837	D1	D10	*F3	R209	*F5	R306	B4	R419	*C3	R592	C4	R916	F3		
C17	*B3	C108	C3	C279	*B4	C533	*D4	C849	C2	D11	*E3	R10	C5	R210	*A4	R307	B4	R420	*C3	R593	C4	R917	F3
C18	*E3	C109	B4	C280	*B4	C534	*D4	C850	C1	D12	*B3	R11	C5	R211	*A4	R308	B4	R421	*C3	R594	C4	R918	F3
C19	*F3	C110	*E3	C281	*B4	C536	*D4	C851	D2	D13	B3	R12	*B5	R212	A4	R309	B4	R422	*C3	R595	C4	R919	F3
C20	*F3	C111	B5	C282	*B4	C537	*D4	C852	D2	D14	F2	R13	*B5	R213	A4	R310	B4	R423	*C3	R596	D4	R920	*D3
C21	*B3	C112	B5	C283	*B4	C538	*C3	C854	D2	D15	F2	R14	*C5	R214	*A4	R311	B4	R424	*C4	R597	C4	R921	*D3
C22	*F3	C113	B5	C284	*B4	C539	*C3	C855	D2	D400	*F4	R15	*A3	R215	F4	R312	B4	R425	*C4	R598	*C4	R922	F3
C23	*F3	C114	D4	C285	B4	C540	*D4	C856	D2	D401	*F4	R16	*A3	R217	A4	R313	B3	R428	D3	R599	C4	R923	F3
C24	*B3	C115	D5	C286	B4	C541	*D4	C857	C1	D402	*F4	R17	*F4	R218	A4	R314	B3	R429	D3	R600	C4	R924	F3
C25	*F4	C116	*A5	C287	*B3	C542	*D4	C859	C1	D403	*F4	R18	*F4	R219	A4	R315	B4	R500	C3	R601	*D4	R925	F3
C26	*F4	C117	*A5	C288	*B3	C544	*D4	C860	D1	D404	*F4	R19	*F4	R220	A4	R316	B4	R501	C4	R602	*D4	R926	F4
C27	*F4	C118	*A5	C289	C4	C545	*D4	C861	D1	D405	*F4	R20	*F4	R221	*F4	R317	B4	R502	C3	R605	*D4	R927	F3
C28	*F4	C119	*A5	C290	B3	C551	*D3	C862	D1	D406	*F4	R21	*F4	R222	*F4	R318	B3	R503	C4	R606	*D4	R928	F4
C29	*F4	C200	*F4	C291	*B4	C552	*D3	C863	C1	D407	*F4	R22	*B3	R223	*F4	R319	B3	R504	*C3	R609	D4	R929	F4
C30	*A3	C201	*F4	C292	*B4	C553	*C4	C864	D2	D900	*F4	R23	*F4	R224	*F4	R320	B3	R505	*C4	R610	*C4	R931	F4
C31	*A3	C202	*E4	C293	*B4	C554	*C4	C865	D2	D901	*F4	R24	*E4	R225	*F4	R321	B3	R506	*C4	R611	D4	R934	*F3
C32	*A3	C203	*E4	C294	*B4	C555	*D4	C866	D1	D902	*F4	R25	*B3	R226	*F4	R322	B4	R507	*C4	R612	D4	R935	*F3
C33	*A3	C204	*F5	C295	*B3	C556	C4	C867	A2	D903	*F4	R26	*F4	R227	*F4	R323	B3	R508	*C4	R613	D4	R938	*F3
C34	*F3	C205	*E4	C296	*B4	C557	*C4	C868	F2	D904	*F4	R27	*F4	R230	*A4	R324	B4	R509	*C4	R614	D4	R939	*E4
C35	*E3	C206	*F5	C297	*B4	C558	*C3	C900	*E3	D905	*F4	R28	*F4	R231	*A4	R325	B3	R510	C3	R615	C3	R940	E3
C36	*B3	C207	A4	C298	*B4	C702	*C3	C901	*E3	D906	*F4	R29	*E4	R232	*A4	R326	B4	R511	C3	R616	D4	R941	E4
C37	D4	C208	*A4	C299	*A5	C703	*D3	C902	*E3	D907	*F4	R30	*E4	R233	*A4	R327	B3	R512	C4	R617	D4	R942	E3
C38	D5	C209	*A4	C300	*A5	C706	*C3	C903	*F4	D908	*F3	R31	*B3	R234	*A4	R328	B3	R513	*C3	R618	D4	R943	*E4
C39	*F3	C210	*F4	C400	*D3	C707	*C3	C904	*F4	D909	R32	*B3	R235	*A4	R329	B3	R514	*C3	R619	*C3	R944	*E4	
C40	*F3	C211	*F4	C401	*D4	C711	*C3	C908	*F4	DD10	E4	R33	*A3	R236	*A4	R330	B4	R515	*C3	R620	*C3	R945	E4
C41	*B3	C212	*F4	C402	*C4	C712	*C3	C910	*D3			R34	*F3	R237	A4	R331	B4	R516	C4	R627	D4	R946	E3
C42	D4	C213	F4	C403	*C3	C713	*C3	C911	*E3	E10	B5	R35	*E3	R239	*A4	R332	B4	R517	C4	R628	*D4	R947	E3
C43	*F3	C214	*E4	C404	*C3	C714	*C3	C912	*D3	E15	F5	R36	*B3	R242	*E4	R333	B4	R518	C4	R629	D4	R948	*D3
C44	*B3	C215	A4	C405	*C3	C715	*C3	C913	*D4	E17	*D3	R37	*A2	R243	*E4	R334	B4	R519	C4	R630	D4	R949	*E4
C45	*B3	C216	A4	C406	*C3	C716	*C3	C914	*E4	E18	*B2	R38	F4	R244	*A4	R335	B4	R520	*C4	R631	*D4	R950	*D3
C46	*F3	C217	A4	C407	*C3	C719	*C3	C915	*E3	E19	F5	R39	*F3	R245	*A4	R336	B3	R521	*C4	R632	D4	R951	*D3
C47	*F3	C218	*E4	C408	*C3	C720	*C3	C916	*E3			R40	*B2	R246	*F4	R337	B4	R528	C3	R633	*C4	R952	E4
C48	F3	C219	*E4	C409	*C3	C724	*C3	C917	*E3	F10	A4	R41	*F3	R247	B4	R338	B3	R529	C3	R634	D4	R953	E3
C49	B3	C220	*B4	C410	*C3	C725	*C3	C918	*E4			R42	*F3	R248	B4	R339	B4	R530	*C4	R635	D4	R954	E3
C50	*E5	C221	*B4	C411	*C3	C726	*C3	C919	*E4			FB10	F2	R43	*B3	R249	B4	R340	B3	R531</td			



**VIF-40 -A SIDE-
SUFFIX: -12**



**VIF-40 -B SIDE-
SUFFIX: -12**

VIF-40 (1-877-346-12)

* : B SIDE

C101	C2	C271	*B1	C510	D2	CL208	B2	FL3	E1	R125	C2	R511	*D2
C102	C2	C272	*B2	C511	D2	CL301	C1	FL4	E1	R126	*C1	R512	D2
C103	C1	C273	E2	C512	D2	CL302	C1	FL5	*E1	R127	*C1	R513	*D2
C104	C1	C274	E2	C513	*D2	CL502	*D2			R128	*C1	R514	*D2
C105	*C2	C275	B1	C514	*D2	CL503	*D2	IC101	C2	R131	*C1	R515	D2
C106	*C2	C276	B1	C515	*E2	CL504	*E2	IC202	B1	R132	C2	R516	D2
C107	*C2	C277	B1	C516	*D2	CL505	*E2	IC206	E2	R133	C2	R517	*D2
C108	*C2	C278	A1	C517	D2	CL526	*C2	IC207	B2	R134	C2	R518	*E2
C109	*C2	C279	B1	C518	*D2	CL527	*C2	IC210	C2	R135	C2	R519	*D2
C110	*C2	C280	B1	C519	D2	CL528	A1	IC211	A2	R136	*C2	R520	*E2
C112	*C2	C281	B1	C520	*D2	CL529	B1	IC401	C1	R193	*B1	R521	*C2
C113	*C2	C282	B1	C521	*D2	CL601	A1	IC402	C1	R201	B2	R522	*C2
C114	*C2	C283	B2	C522	*D2	CL602	A1	IC403	D1	R202	B2	R523	*C2
C115	*C2	C284	B2	C523	*D2	CL603	A1	IC404	D1	R203	*C2	R524	*A1
C116	*C2	C285	E2	C524	D2	CL604	A1	IC501	D2	R204	*C2	R525	*A1
C117	*C2	C286	E2	C525	D2	CL605	A2	IC502	D2	R205	B2	R526	*A1
C119	C2	C287	*E2	C526	*D2	CL606	A1	IC503	C2	R206	B2	R530	*A2
C141	*C2	C288	*E2	C527	*E2	CL607	A2	IC504	A1	R209	B1	R534	*D2
C142	*C2	C289	E2	C528	E2	CL608	A2	IC505	D1	R210	*B2	R535	*D2
C143	*C2	C290	E2	C529	*E2	CL609	A1	IC507	A2	R211	B1	R536	*D2
C144	*C2	C301	*B1	C530	C2	CL610	A2	IC508	A2	R213	*A1	R537	*D2
C145	E1	C302	*B1	C531	*C2	CL611	A1	IC509	A2	R214	*B1	R538	*E2
C146	*E1	C303	*B1	C532	C2	CL612	A1	IC601	A1	R215	*B1	R539	*C2
C150	C2	C304	*B1	C533	A1	CL613	A1	IC701	A1	R216	*B1	R540	*A1
C151	C2	C305	*B1	C534	*A1	CL614	B1	IC702	A1	R217	*B1	R541	*C2
C152	C2	C306	*B1	C535	B1	CL615	A1			R218	*B1	R542	A1
C153	C2	C307	B1	C536	D1	CL616	B1	L1	E2	R219	B1	R601	B1
C201	*B2	C308	*B1	C537	D1	CL617	A1	L2	E2	R220	*B2	R602	*A2
C202	*B2	C309	*B1	C538	D1	CL618	A1	L3	E2	R223	B1	R603	*A2
C203	E2	C310	*B2	C541	A1	CL619	A1	L4	E2	R226	*B1	R604	*A2
C219	B1	C311	*B1	C543	*A2	CL620	A1	L5	C2	R228	*A2	R605	*A2
C221	*B1	C312	*B1	C544	A2	CL625	A2	L6	C2	R229	*A2	R606	*A2
C222	*B1	C313	*B1	C545	A2	CL626	A1	L7	C1	R230	*E2	R607	*A2
C223	*B1	C314	*B1	C546	A2	CL627	A2	L401	C1	R231	*E2	R608	*A2
C224	*B1	C315	*B1	C547	D2	CL628	A1	L402	D1	R232	E2	R701	A1
C225	*B1	C316	*B1	C548	*D2	CL629	B1	L403	D1	R234	*B1		
C226	*B1	C317	B1	C549	C2	CL630	A1	L404	E1	R235	*B2	RB101	B1
C227	*B1	C318	B2	C550	B1	CL631	A2	L405	E1	R237	*A2	RB102	B1
C228	*B1	C323	C2	C552	A2	CL632	A1	L406	E1	R238	*A2	RB103	B1
C229	*B1	C401	C1	C601	A1	CL633	A2	L407	C1	R239	*A2	RB104	B1
C230	*B1	C402	C1	C602	*A1	CL634	A1	L408	C1	R240	*A2	RB105	B1
C231	*B1	C403	C1	C603	*A1			L409	C1	R241	*C2	RB106	B1
C232	*B1	C404	C1	C604	A1	CN1	A2	L501	D2	R242	*C2	RB107	*B1
C233	*B1	C405	*C1	C605	A1	CN101	*B2	L502	E2	R243	*A2	RB108	B2
C234	*B1	C406	*C1	C606	A1	CN105	E1	L503	C2	R245	B1	RB109	*B1
C235	*B1	C407	*C1	C607	*A1	CN107	E2	L504	A1	R246	*B1	RB201	*B1
C236	B2	C408	*C1	C608	*A1	CN109	A1	L506	A1	R247	*B1	RB202	*B1
C237	*B1	C409	C1	C609	*A1			L507	D2	R248	B1	RB203	B1
C238	*B1	C410	C1	C610	*A1	D101	C1			R401	C1	RB204	B1
C239	*B1	C411	C1	C611	*A1	D102	E2	LED201	A2	R402	*C1	RB205	B1
C240	B1	C412	C1	C612	*A1	D103	E2	LED202	A2	R403	C1	RB206	B1
C241	*B1	C413	*C1	C613	*A1	D104	E2	LED203	A2	R404	C1	RB207	B1
C242	*B1	C414	C1	C614	*A1	D105	E2	LED204	A2	R405	C1	RB208	B1
C243	B1	C415	C1	C615	*A1	D106	E2	LED205	A2	R406	C1	RB209	*B1
C244	*B1	C416	C1	C616	*A1	D107	E2	LED206	A2	R407	C1	RB210	B1
C245	*B1	C417	C1	C617	*A1	D108	E1	LED207	A2	R408	C1	RB211	B1
C247	*B1	C418	C1	C618	*A1	D109	E2			R409	C1	RB212	*A1
C248	*B1	C419	*C1	C619	*A1	D110	E1	PS1	C2	R410	E1	RB601	A2
C249	B1	C420	C1	C620	*A1	D111	E1			R411	D1	RB602	A2
C250	*B1	C421	*C1	C621	*A1	D112	E1	PT101	*E1	R412	*C1	S501	A2
C251	*B1	C422	C1	C622	*A1	D113	E1			R413	C1		
C252	*B1	C423	C1	C701	*A1	D114	E1	Q101	C1	R414	C1		
C253	*B1	C424	*C1	C702	*A1	D115	E1	Q102	C2	R415	D1	SL601	A2
C254	B1	C425	*C1	C703	*A1	D116	*E1	Q103	C2	R416	D1		
C255	*B1	C											

SAFETY CHECK-OUT

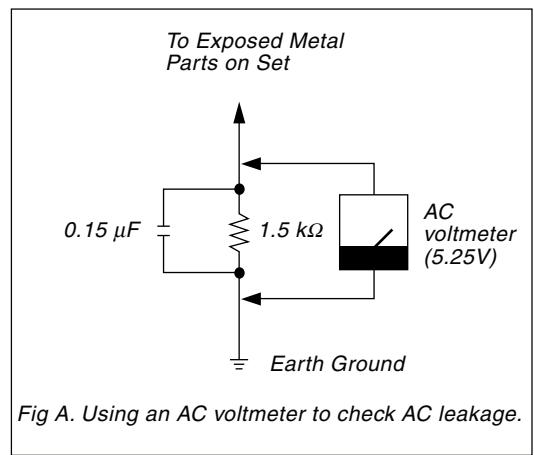
After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)



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