

SONY®

MASTER SETUP UNIT

MSU-750

MAINTENANCE MANUAL Part 2

1st Edition (Revised 1)

Serial No. 15001 and Higher

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可能性があります。

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。

設置や保守、点検、修理などを行う前に、別冊のメンテナンスマニュアルPart 1の「安全のために」と別冊のオペレーションマニュアルの「安全のために」を必ずお読みください。

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.

WARNING

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 manuel 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.

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.

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.

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.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare 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 part 2 of Master Setup Unit MSU-750. This manual describes the information items on maintenance, and items that premise the service based on the components parts such as service overview, parts list, semiconductor pin assignments, block diagrams, schematic diagrams and board layouts, assuming use of system and service engineers.

Related manuals

Besides this “maintenance manual part 2”, the following manuals are available for this unit.

- **Operation Manual (Supplied with the MSU-750)**

This manual is necessary for application and operation of this unit.

- **Maintenance Manual Part 1 (Supplied with the MSU-750)**

This manual is intended for use by trained system and service engineers, and provides the installation and maintenance information that is necessary at the time of primary service.

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

This manual is necessary for connection and operation of video camera and other peripheral equipment.

If this manual is required, please 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 Communication System Solutions Network Company equipment.

Semiconductors that cannot be searched for on this CD-ROM are listed in the maintenance manual for the corresponding unit. The maintenance manual contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.

Part number: 9-968-546-XX

Contents

The following are summaries of all the sections for understanding the contents of this manual.

Section 1 Service Overview

Describes note on servicing, parts replacement procedures, PROM and self-diagnosis.

Section 2 Spare Parts

Describes parts list and exploded views used in the unit.

Section 3 Semiconductor Pin Assignments

Describes function diagrams and pin names of semiconductor used in the unit.

Use the separate “Semiconductor Pin Assignments” CD-ROM together with this manual.

Section 4 Block Diagrams

Describes overall block diagram and the block diagrams for every circuit board.

Section 5 Schematic Diagrams

Describes schematic diagrams for every circuit board.

Section 6 Board Layouts

Describes board layouts for every circuit board.

Section 1

Service Overview

1-1. Self-Diagnosis

Operation of the switches, LED indicators, and rotary encoders on the control panel can be checked by the self-diagnosis mode of the unit.

Preparations

1. Press **PANEL ACTIVE**, **PARA**, and SCENE FILES **1** switches at the same time.

Operation check

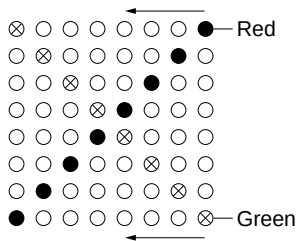
Switch with LED

When the desired switch is pressed, the LED inside the switch lights up. And when the buzzer ON/OFF switch S6 on the CPU-286 board is in ON position, the buzzer beeps at the same time. To turn off the LED, press switch again. (Avoid lighting all the switches simultaneously for a relatively long period of time.)

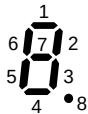
Indicator

1. Camera number/Tally display block

Make sure that a red and green cross indication moves from the right to left.



2. Make sure that the CARD ACCESS indicator blinks in sequence of red, green then orange.
3. Make sure that the MULTI, TALLY, and PANEL ACTIVE indicators of the camera selector block blink in sequence of red, green then off.
4. Make sure that the EXT indicator of the IRIS adjusting block blinks.
5. Make sure that the 7-segment LEDs of ECS/SHUTTER, GAMMA, MASTER GAIN, FILTER display blocks and MASTER BLACK and IRIS adjusting blocks light up in the following order.



Rotary encoder

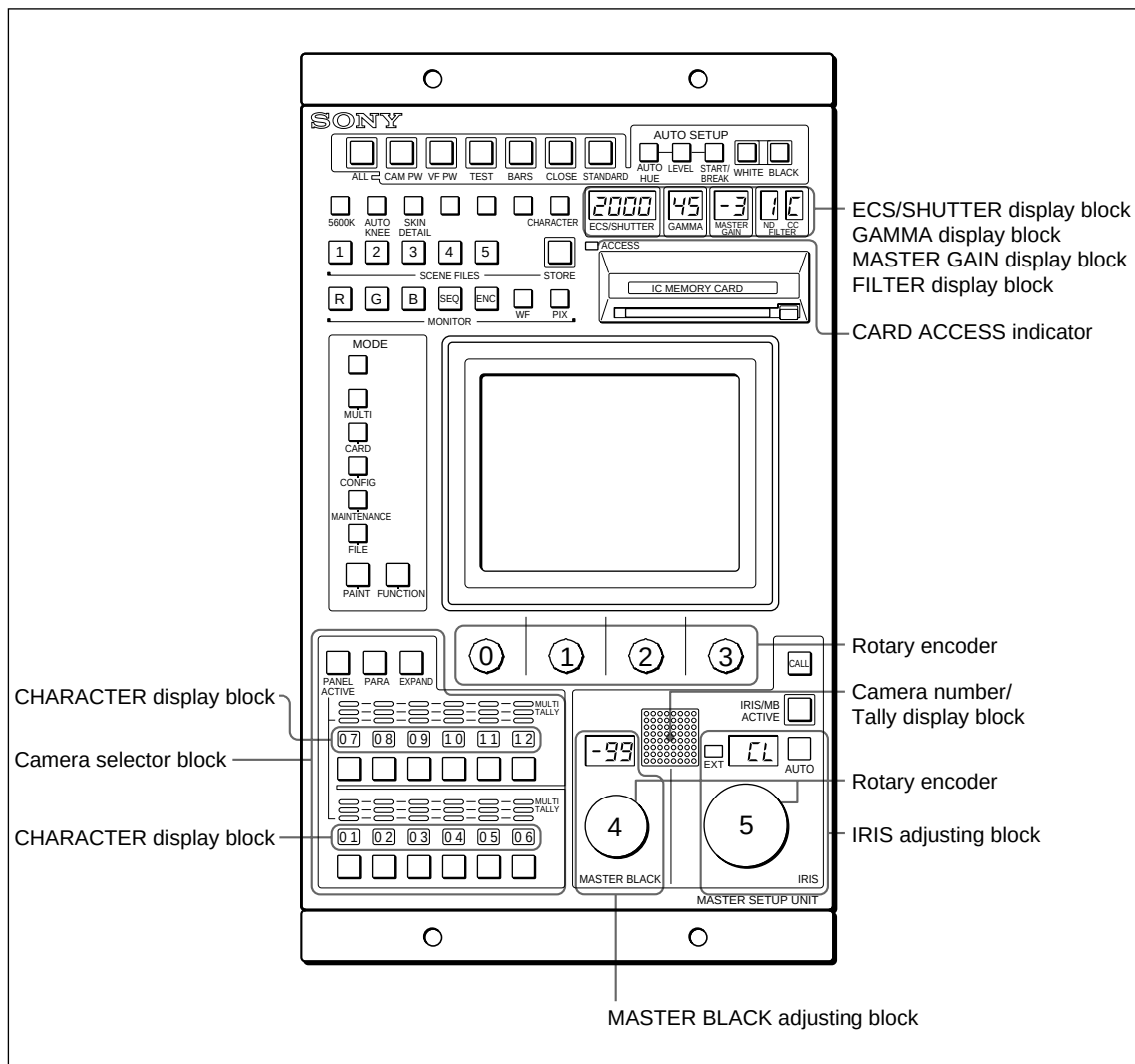
When the desired rotary encoder has been turned, the ID number corresponded with the rotary encoder will be displayed on the IRIS adjusting block, and the control value is displayed on the MASTER BLACK adjusting block.

Character display block

The ROM version flows from the right to left in this block as a slide-show.

Finishing the self-diagnosis mode

1. Press **PANEL ACTIVE**, **PARA**, and SCENE FILES **1** switches at the same time.



1-2. PROM

Program names are shown in the suffix of original name of the PROMs. When the version of program changes, the suffix of program name will be changed.

Be sure not to use the unprogrammed PROMs. Since all the PROMs are mounted on the board through the IC socket, be very careful when removing the PROMs.

- IC5/CPU-286 board
- IC6/CPU-286 board

1-2-1. PROM Version Check

Note

The version indication can be displayed in “Engineer Mode” and above.
(Refer to the Operation Manual.)

Select “MSU” in the menu (configuration menu) on the EL display, then select “Information” successively. The version of PROMs will be displayed.

1-2-2. Notes on PROM Replacement

When replacing PROM (IC5 or IC6) on the CPU-286 board, be sure to replace both IC5 and IC6 at the same time. When mounting the PROMs, be sure to insert MSU7x0AL (LOW) in IC5 and MSU7x0AH (HIGH) in IC6.

If you are confused between IC5 and IC6, this unit does not operate normally.

1-3. Description on Flexible Card Wire

The flexible card wires are used between the CPU board and CN board. Take care not to brake the flexible card wires. This shortens the life.

1-3-1. Disconnecting/Connecting of Flexible Card Wire

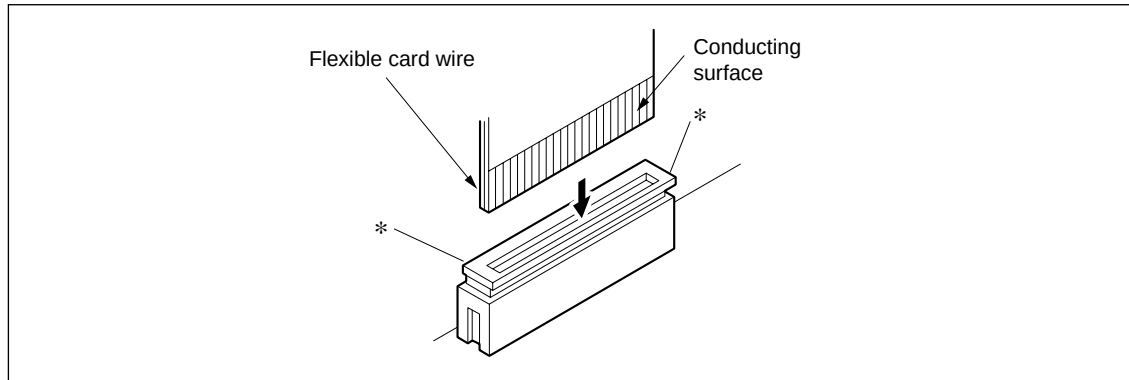
Straight Type

Disconnecting

Pull up the * marked portions of the connector, and pull out the flexible card wire from the connector.

Connecting

Insert the flexible card wire as far as it will go, and push down the * marked portions of the connector.

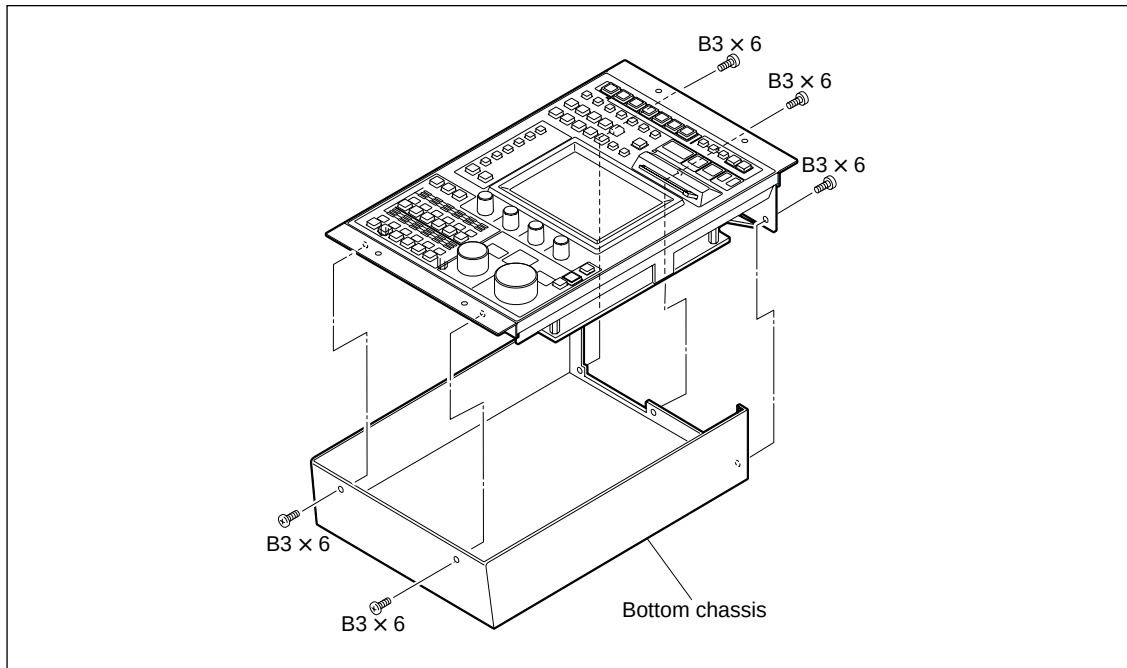


Notes

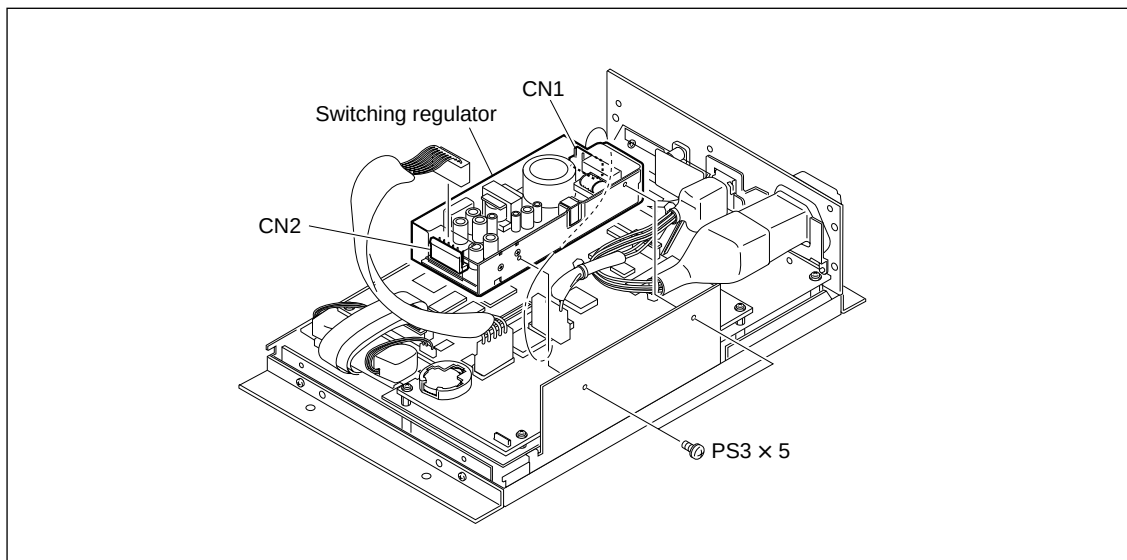
1. Be careful not to insert the flexible card wire obliquely.
2. Check that the conductive surface of the flexible card wire is not soiled with dust.

1-4. Replacing Switching Regulator

1. Turn off the power of the unit and disconnect the power cord from the unit.
2. Remove the five screws and remove the bottom chassis.



3. Disconnect connectors CN1 and CN2 from the switching regulator.
4. Remove the two screws and remove the switching regulator.



5. Assemble the unit in the reverse procedure of steps 2 to 4.

1-5. Replacing Fuse

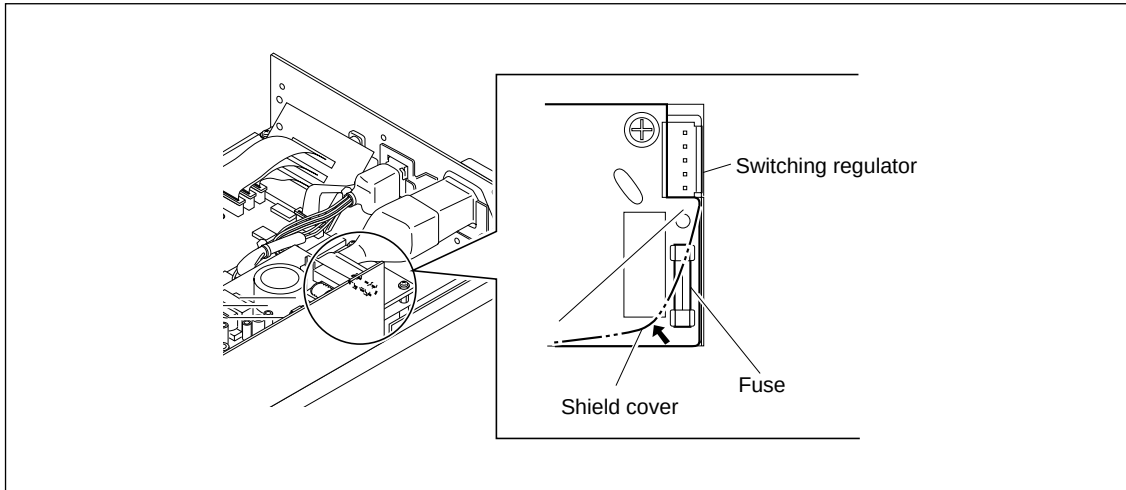
WARNING

To reduce the risk of electric shock or fire, do not replace any fuse other than the specified fuse in order to continue safety.

Be sure to replace a defective fuse with the following specified one:

Fuse, Glass Tube 3 A, 250 V:  1-532-827-11

1. Remove the bottom chassis. (Refer to steps 1 and 2 of Section “1-4. Replacing Switching Regulator.”)
2. Lift up one end of shield cover and remove the fuse.



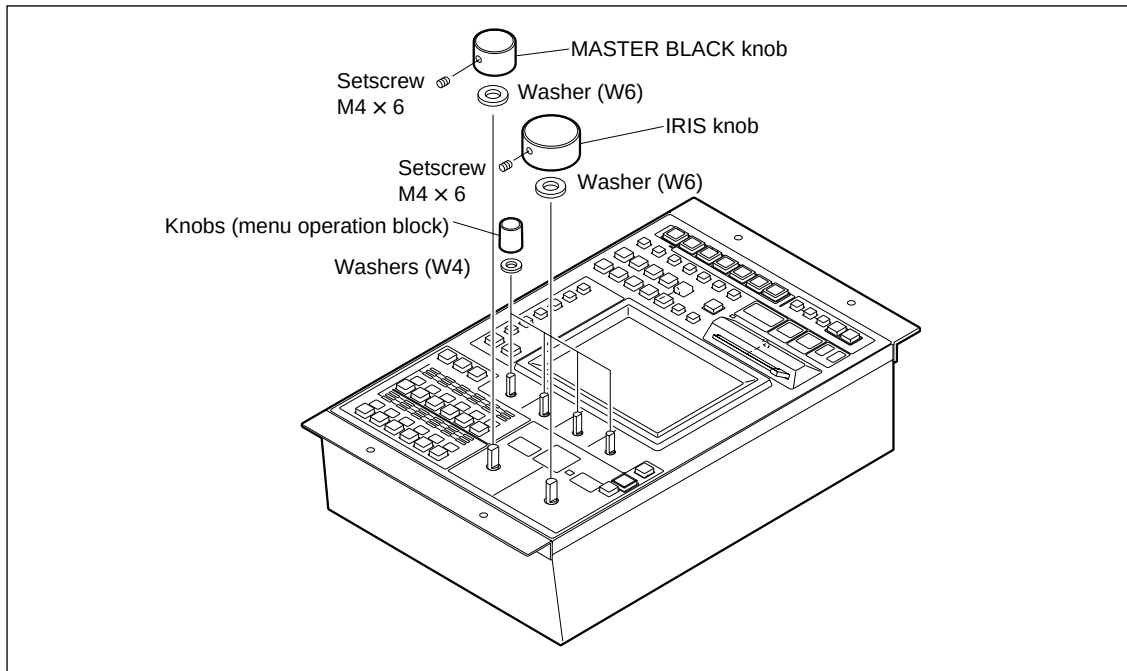
3. Insert a new fuse in the reverse procedure of steps 1 and 2.

1-6. Replacing LED-334/335 Boards

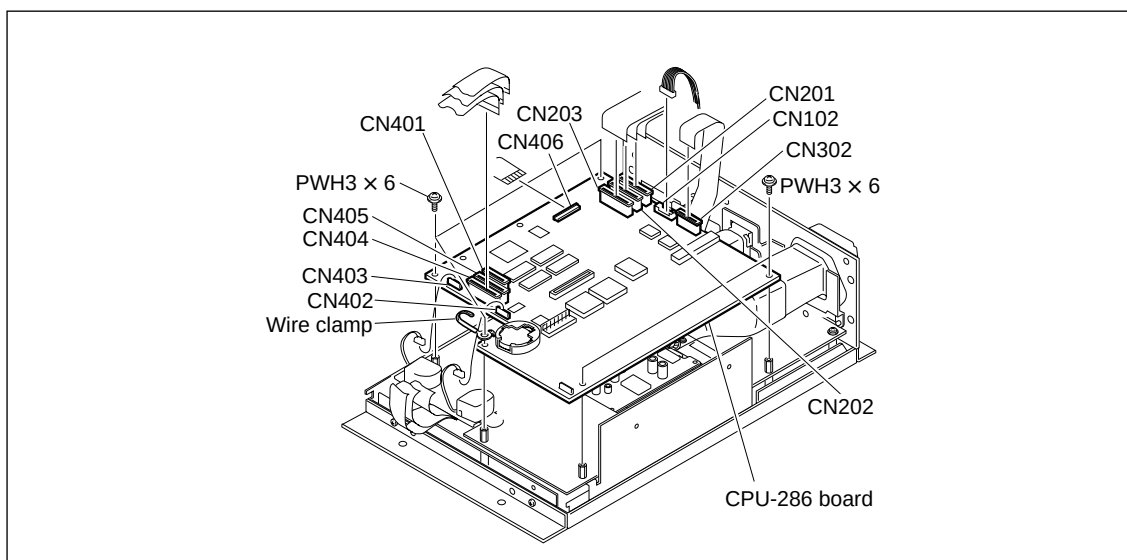
Note

Refer to section 1-3-1 when installing/removing the flexible card wire.

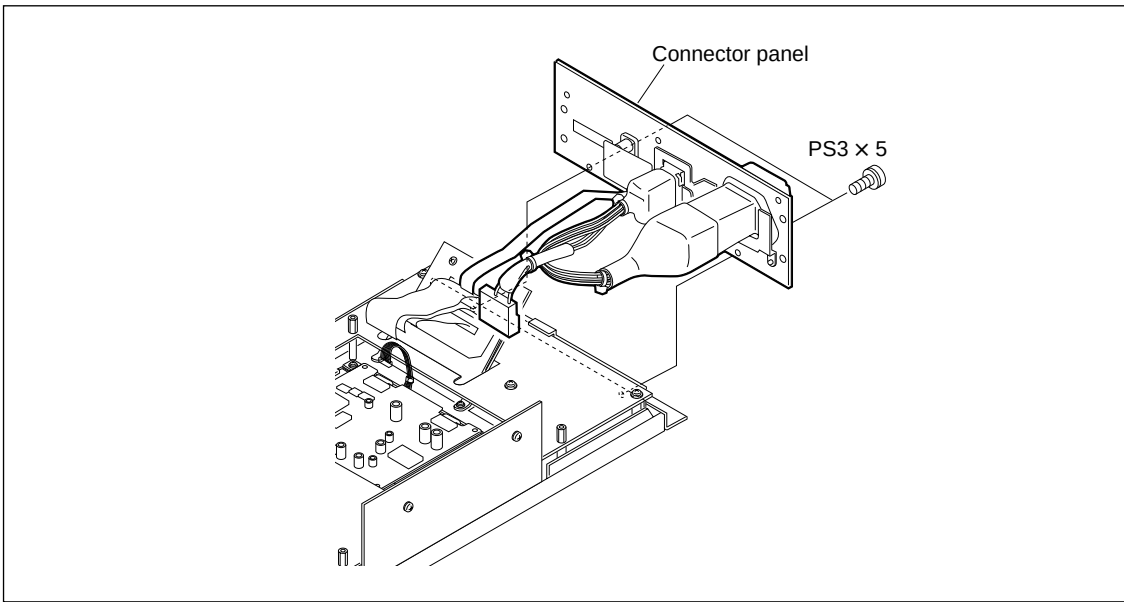
1. Loosen the setscrews and remove the two knobs (IRIS and MASTER BLACK).
2. Remove the four knobs of the menu operation block.



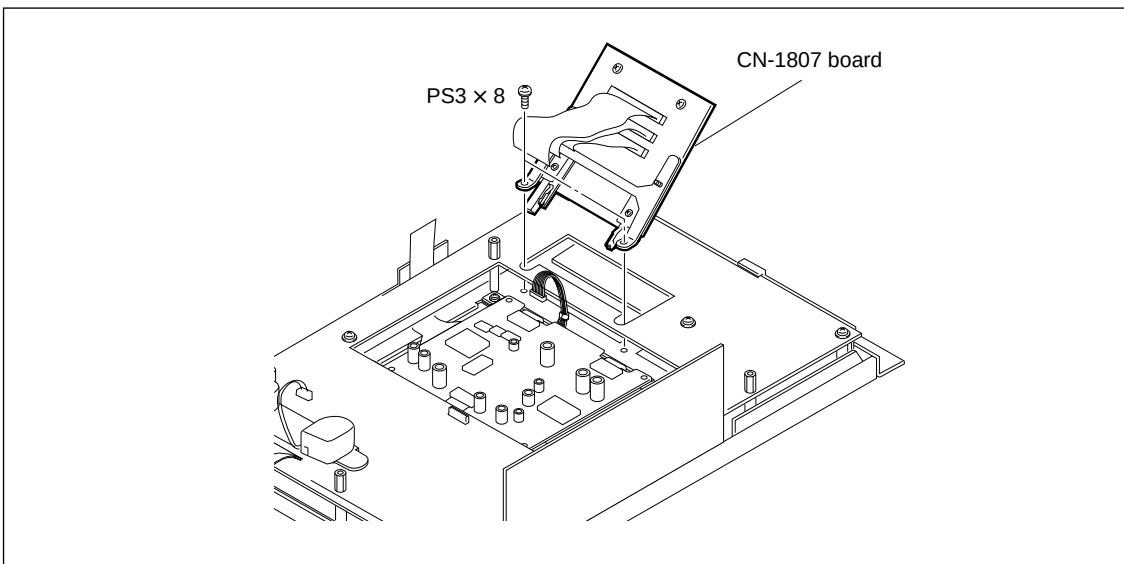
3. Remove the bottom chassis and switching regulator. (Refer to Section “1-4. Replacing Switching Regulator.”)
4. Disconnect the following eleven connectors from the CPU-286 board. (CN102, CN201, CN202, CN203, CN302, CN401, CN402, CN403, CN404, CN405 and CN406)
5. Remove the five screws and remove the CPU-286 board.



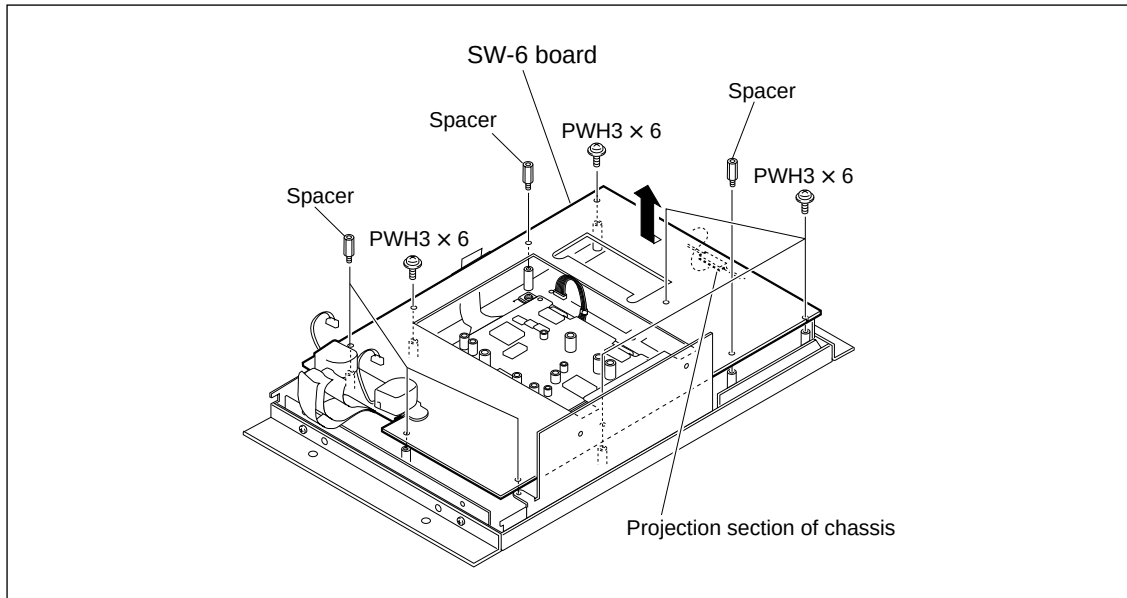
6. Remove the two screws and remove the connector panel.



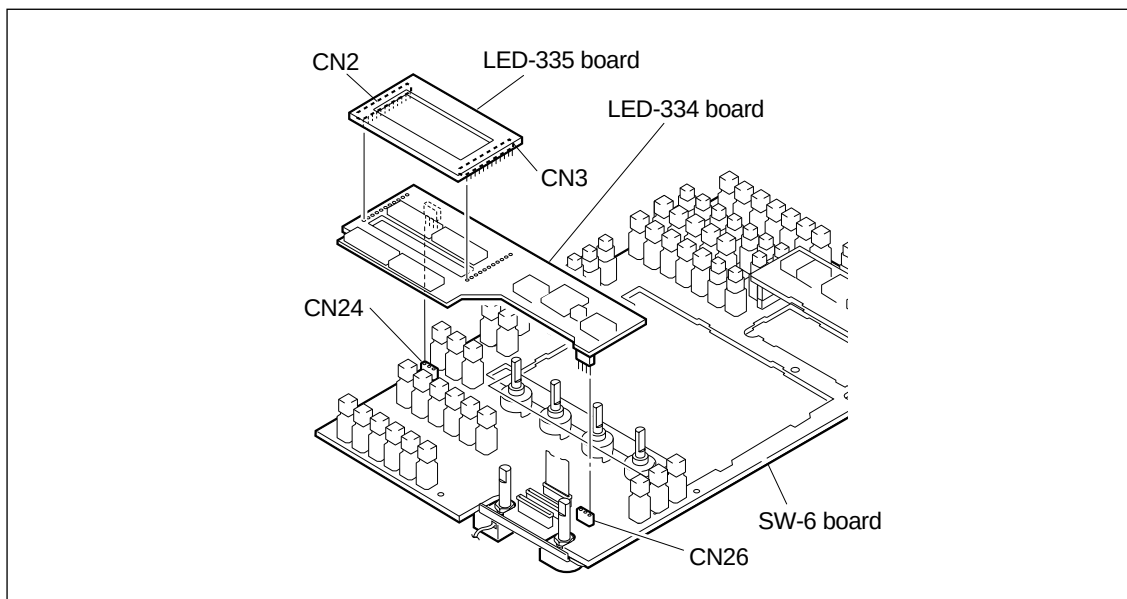
7. Remove the two screws and remove the CN-1807 board.



8. Remove the five screws and spacers.
9. While pushing the SW-6 board in the arrow direction, lift up the SW-6 board and remove it by stepping aside from the projection section of chassis.



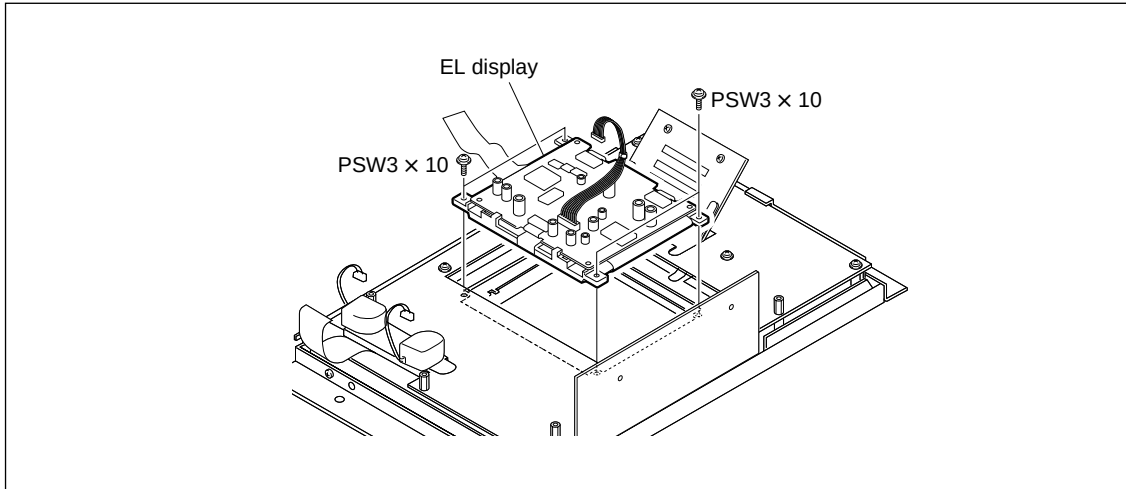
10. Remove the LED-334 board from connectors CN24 and CN26 of the SW-6 board.
11. Desolder the soldering from connectors CN2 and CN3 on the LED-335 board and remove the LED-335 board.



12. To install the LED-334 and LED-335 boards, perform reverse procedures of steps 1 to 11.

1-7. Replacing EL Display

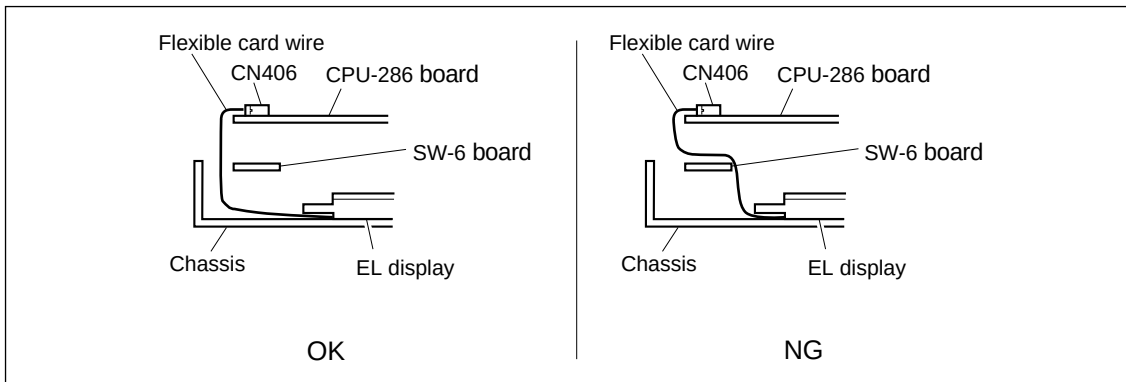
1. Remove the bottom chassis and switching regulator. (Refer to Section “1-4. Replacing Switching Regulator.”)
2. Remove the CPU-286 board. (Refer to Steps 4 and 5 of Section “1-6. Replacing LED-334/335 Boards.”)
3. Remove the four screws and remove the EL display.



4. To install the EL display, perform reverse procedures of steps 1 to 3.

Note

When installing the EL display, the flexible card wire must be passed under the SW-6 board and then connected to the connector CN406 on the CPU-286 board.



1-8. Note on Servicing

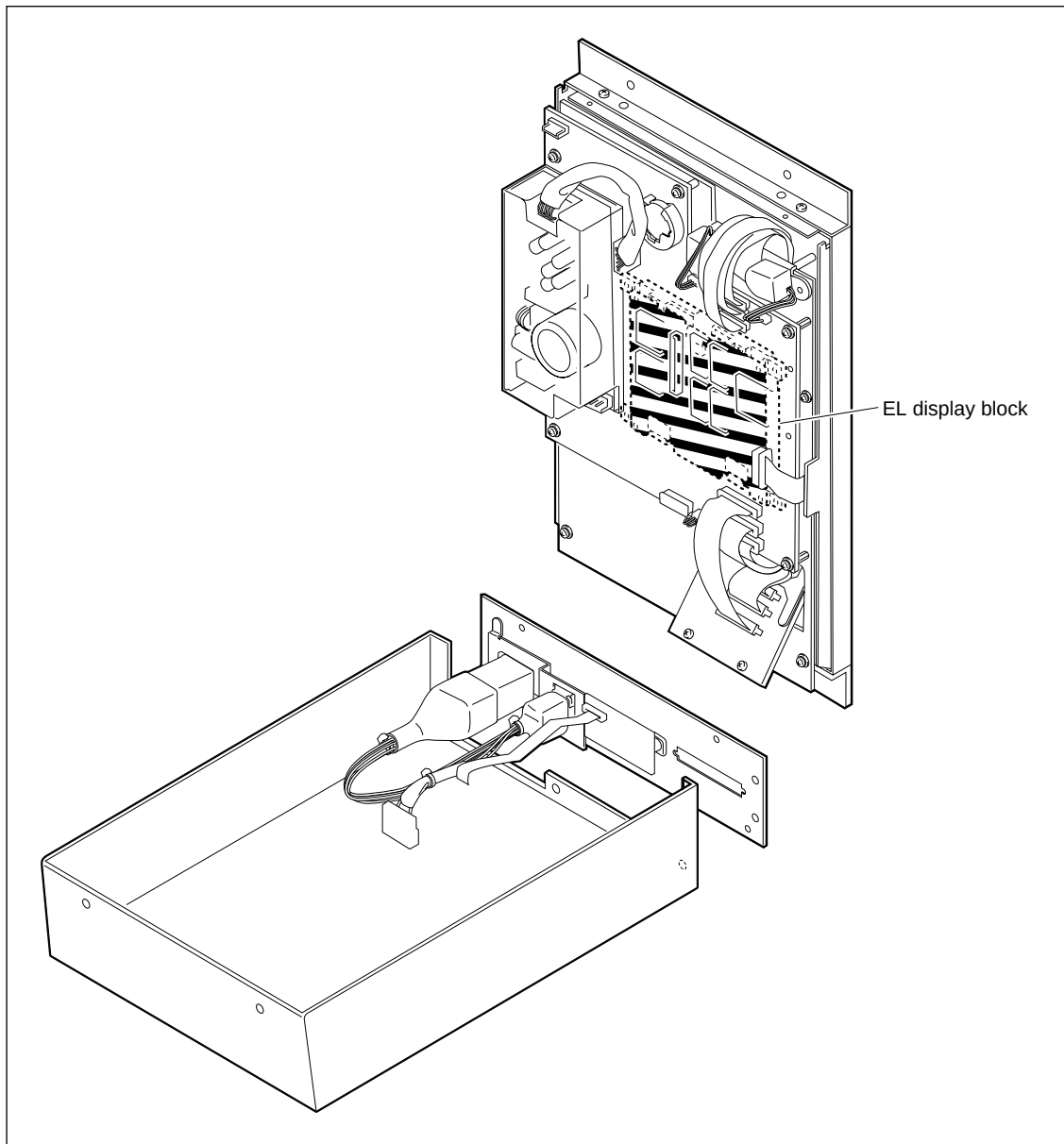
1. **WARNING**

The EL display block carries high voltage. Do not touch it with bare hands, as this is extremely dangerous. Take extreme care.

The voltage of 200 V AC from the DC/AC inverter is applied to the EL display block.

When repairing or checking the unit while turning on the power, take care of an electric shock.

2. One switching regulator is mounted on the unit. Take care of an electric shock on the primary side of power circuit in the switching regulator.
3. Running the power supply unit under no load may cause power source trouble. Never check the power supply unit independently.



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.

Parts list has the present standardized repair parts.

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.

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。

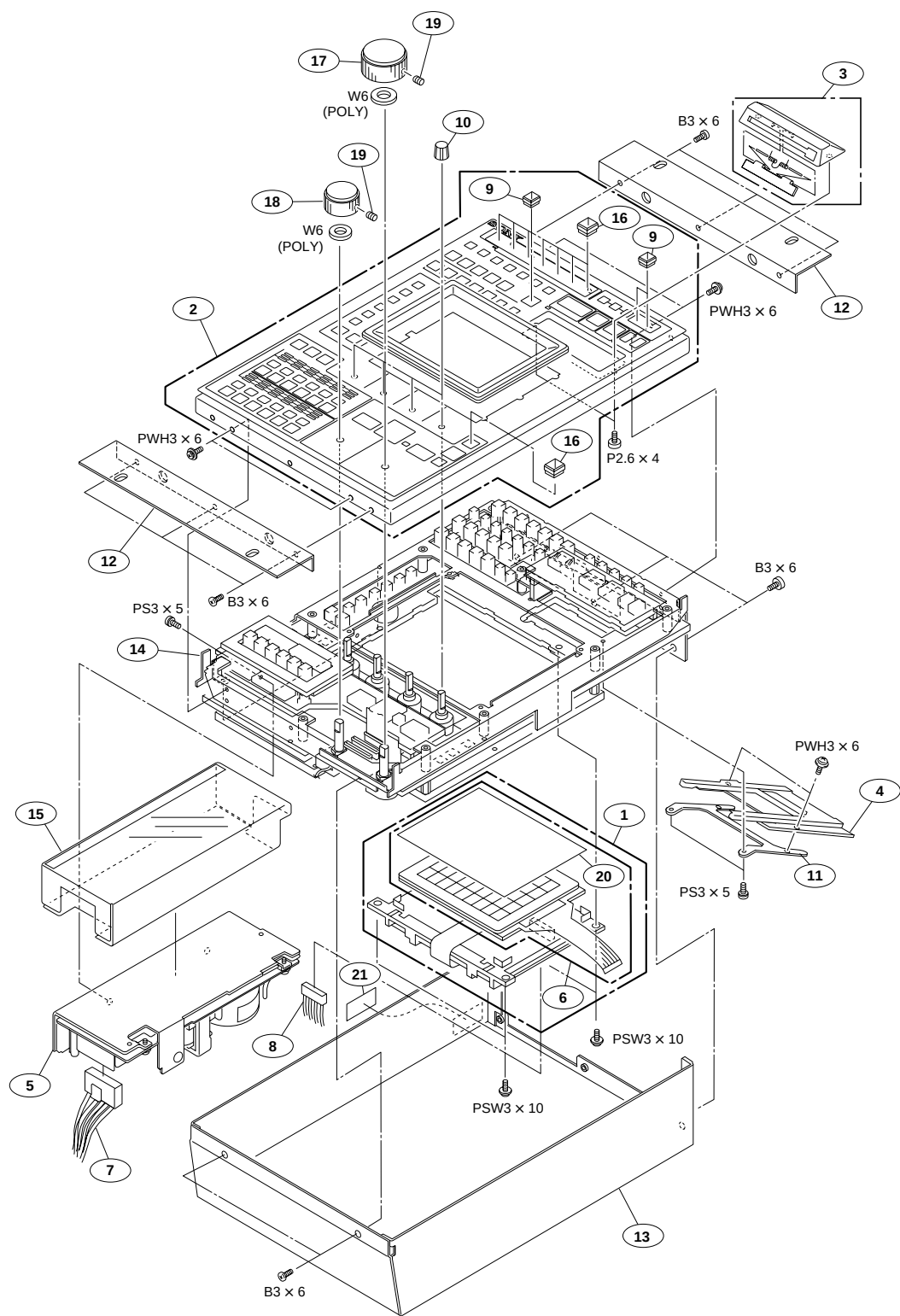
これは部品の共通化、改良等によるものです。

部品表には現時点での共通化された補修用部品が記載されています。

3. 部品の在庫

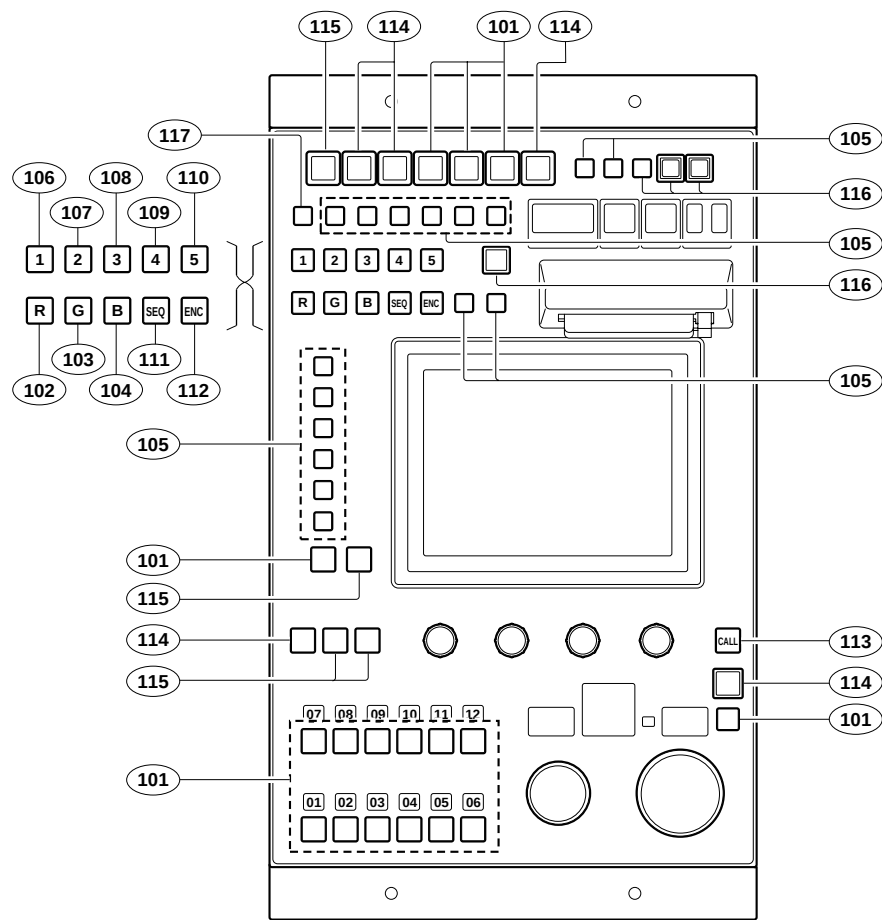
部品表のSP (Supply code) 欄に “o” で示される部品は在庫していないことがあり、納期が長くなることがあります。

2-2. Exploded Views

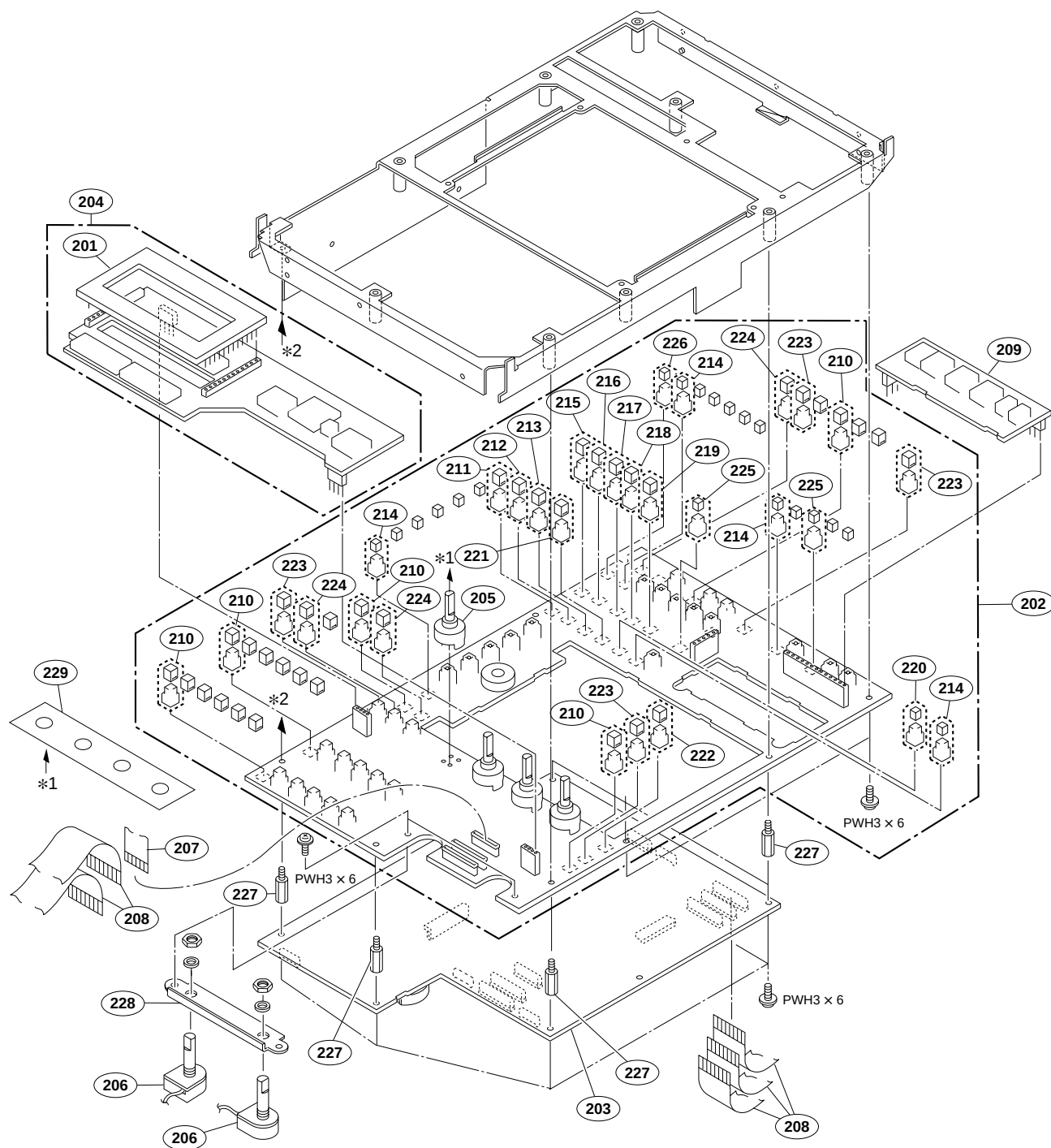


No.	Part No.	SP Description
1	A-8314-206-A	o EL ASSY
2	A-8322-641-A	o PANEL ASSY, OPERATION
3	A-8322-644-A	o GUARD ASSY, IC CARD
4	A-8322-645-A	o MOUNTED CIRCUIT BOARD, CN-1807
5	△ 1-468-411-11	s SWITCHING REGULATOR
6	1-762-125-11	s SWITCH, TOUCH PANEL (WITH FILM)
7	1-959-870-11	o HARNESS (DC)
8	1-959-871-11	o HARNESS (EL)
9	2-141-006-01	o GUARD, SWITCH
10	X-3608-151-1	o VOLUM KNOB ASSY
11	3-622-380-01	o BRACKET, IC CARD
12	3-622-386-01	o BRACKET, ANGLE
13	3-622-387-01	o CHASSIS, BOTTOM
14	3-622-388-01	o CHASSIS, MAIN
15	3-622-393-01	o SHEET, INSULATING(AC)
16	3-681-389-01	o SWITCH GUARD
17	3-681-390-02	o KNOB IRIS
18	3-681-391-02	o KNOB M.BLK
19	3-701-511-00	s SET-SCREW, HEXGON 4X6 (WP) ST
20	3-708-928-01	s FILM, COVER (PLA)
21	3-703-978-01	o LABEL (A), FIRE CAUTION

Switch Caps'

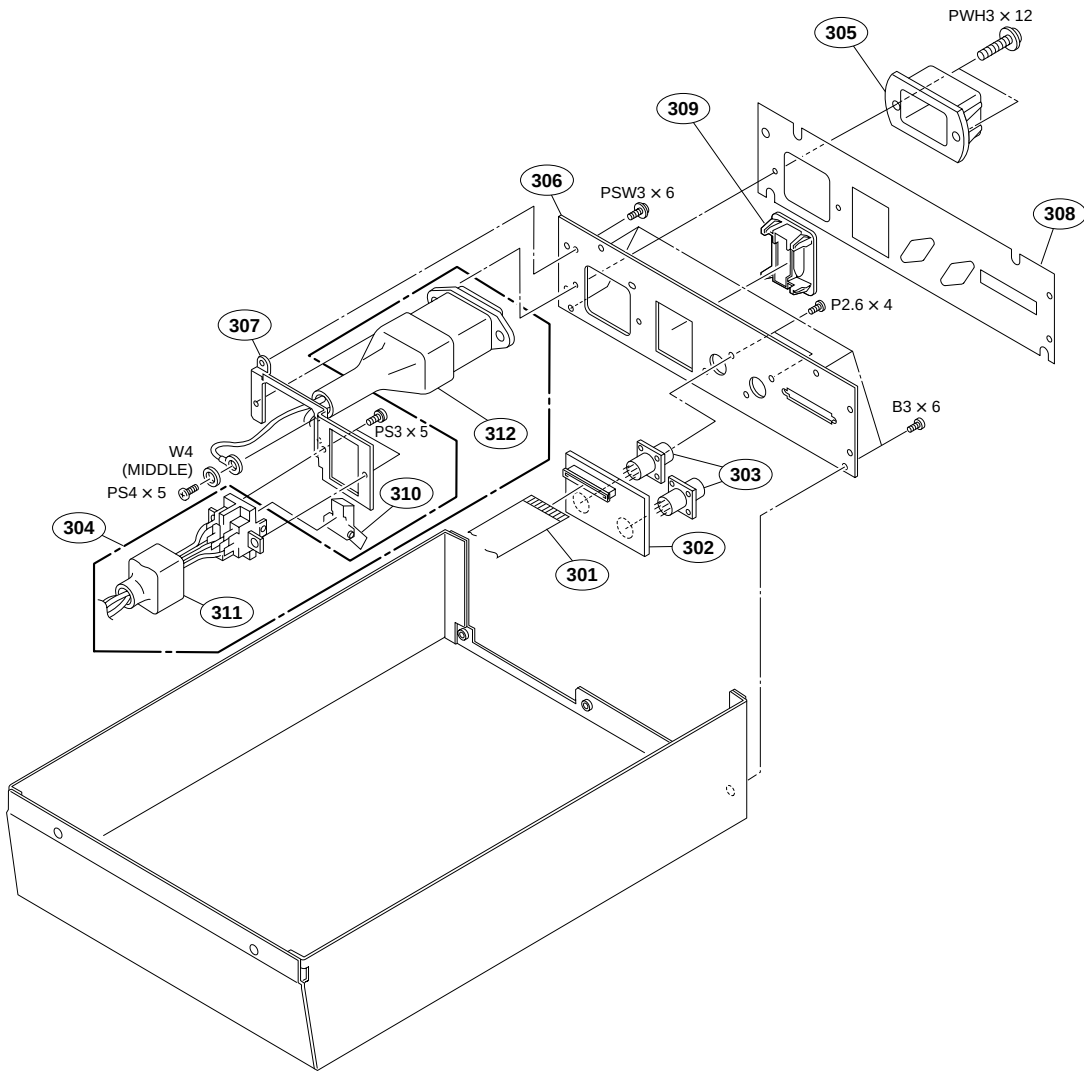


No.	Part No.	SP Description	No.	Part No.	SP Description
101	3-708-877-01	s CAP (PC)	201	A-8322-649-A	o MOUNTED CIRCUIT BOARD, LED-335
102	3-708-877-61	s CAP (PC)	202	A-8322-653-A	o MOUNTED CIRCUIT BOARD, SW-6
103	3-708-877-71	s CAP (PC)	203	A-8322-654-A	o MOUNTED CIRCUIT BOARD, CPU-286
104	3-708-877-81	s CAP (PC)	204	A-8322-655-A	o MOUNTED CIRCUIT BOARD, LED-334
105	3-708-895-01	s CAP (PC)	205	1-418-485-11	s ENCODER, ROTARY
106	3-708-930-01	s CAP (PC)	206	1-466-955-21	s ENCODER, ROTARY (SWITCH)
107	3-708-930-11	s CAP (PC)	207	1-574-144-11	s WIRE, FLAT TYPE (12 CORE)
108	3-708-930-21	s CAP (PC)	208	1-574-161-11	s CABLE, FLAT (1MM PITCH) 25P
109	3-708-930-31	s CAP (PC)	209	1-674-348-11	o PRINTED WIRING BOARD, LED-336
110	3-708-930-41	s CAP (PC)	210	1-692-994-11	s SWITCH, TACTILE (ILLUMINATED)
111	3-708-932-11	s CAP (PC)	211	1-692-994-71	s SWITCH, TACTILE (ILLUMINATED)
112	3-708-932-21	s CAP (PC)	212	1-692-994-81	s SWITCH, TACTILE (ILLUMINATED)
113	3-708-933-11	s CAP (PC)	213	1-692-994-91	s SWITCH, TACTILE (ILLUMINATED)
114	3-708-934-01	s CAP (PC)	214	1-762-042-11	s SWITCH, TACTILE (ILLUMINATED)
115	3-708-935-01	s CAP (PC)	215	1-762-129-11	s SWITCH, TACTILE (ILLUMINATED)
116	3-708-938-01	s CAP (PC)	216	1-762-129-21	s SWITCH, TACTILE (ILLUMINATED)
117	3-708-940-01	s CAP (PC)	217	1-762-129-31	s SWITCH, TACTILE (ILLUMINATED)
			218	1-762-129-41	s SWITCH, TACTILE (ILLUMINATED)
			219	1-762-129-51	s SWITCH, TACTILE (ILLUMINATED)
			220	1-762-131-21	s SWITCH, TACTILE (ILLUMINATED)
			221	1-762-131-31	s SWITCH, TACTILE (ILLUMINATED)
			222	1-762-132-21	s SWITCH, TACTILE (ILLUMINATED)
			223	1-762-133-11	s SWITCH, TACTILE (ILLUMINATED)



No.	Part No.	SP Description
224	1-762-134-11	s SWITCH, TACTILE (ILLUMINATED)
225	1-762-137-11	s SWITCH, TACTILE (ILLUMINATED)
226	1-762-139-11	s SWITCH, TACTILE (ILLUMINATED)
227	3-608-402-01	o SPACER
228	3-622-379-01	o BRACKET, ENC
229	3-622-396-01	o SHEET, ENC

Rear Panel Block



No.	Part No.	SP Description
301	1-574-144-11	s WIRE, FLAT TYPE (12 CORE)
302	1-674-347-11	o PRINTED WIRING BOARD, CN-1803
303	1-766-696-11	o CONNECTOR, ROUND TYPE 8P
304	△ 1-959-872-11	o HARNESS (PS)
305	2-990-241-02	s HOLDER (A), PLUG
306	3-622-383-01	o PANEL, CONNECTOR
307	3-622-384-01	o BRACKET, AC
308	3-622-385-01	o SHEET, CONNECTOR PANEL
309	3-681-054-01	o POWER SW GUARD
310	3-688-814-01	s CAP, SWITCH
311	4-381-806-01	o COVER, SWITCH
312	4-605-511-02	o COVER, INLET, 3P

Part No. SP Description

7-621-255-45 s SCREW +P 2X6 (EP-FE/ZN/CM2)
 7-623-925-01 s WASHER, PLASTIC (4X0.5)
 7-623-927-01 s WASHER, PLASTIC (6X0.5)
 7-627-556-38 s SCREW +P2 6X4(EP-FE/ZNBK/CM2)
 7-682-547-09 s SCREW +B3X6(EP-FE/ZNBK/CM2)

 7-682-646-09 s SCREW +PS 3X5(EP-FE/ZNBK/CM2)
 7-682-660-09 s SCREW +PS 4X6(EP-FE/ZNBK/CM2)
 7-682-903-11 s SCREW +PWH 3X6(EP-FE/ZN/CM2)
 7-682-903-49 s SCREW +PWH 3X12(EP-FE/ZNBK/CM2)
 7-682-947-09 s SCREW +PSW 3X6(EP-FE/ZNBK/CM2)

 7-682-949-01 s SCREW +PSW 3X10(EP-FE/ZN/CM2)
 7-688-004-11 o WASHER W4 (M)(EP-FE/ZN/CM2)

2-3. Electrical Parts List

----- CN-1803 BOARD -----

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-674-347-11	o PRINTED WIRING BOARD, CN-1803
1pc	3-622-383-01	o PANEL, CONNECTOR
3pcs	7-627-556-38	s SCREW +P2.6X4(EP-FE/ZNBK/CM2)
CN1	1-766-696-11	o CONNECTOR, ROUND TYPE 8P
CN2	1-766-696-11	o CONNECTOR, ROUND TYPE 8P
CN3	1-573-985-21	o CONNECTOR, FPC/FFC 12P
FB1	1-410-396-41	s FERRITE BEAD INDUCTOR

----- CN-1807 BOARD -----

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-645-A	o MOUNTED CIRCUIT BOARD, CN-1807
4pcs	7-621-255-45	s SCREW +P 2X6 (EP-FE/ZN/CM2)
1pc	1-793-266-11	o CONNECTOR (FRAME), PCMCIA CARD
CN1	1-766-705-31	o CONNECTOR, FPC/FFC 25P
CN2	1-766-705-31	o CONNECTOR, FPC/FFC 25P
CN3	1-766-705-31	o CONNECTOR, FPC/FFC 25P
CN4	1-774-921-11	o CONNECTOR, PC CARD(BASE)

----- CPU-286 BOARD -----

*1: Board No. suffix -11
*2: Board No. suffix -12

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-654-A	o MOUNTED CIRCUIT BOARD, CPU-286
1pc	1-759-081-11	o HOLDER, BATTERY
BT1	1-528-229-41	s BATTERY, LITHIUM (CR-2450)
C1	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C2	1-164-237-11	s CAPACITOR, CERAMIC 16PF/50V CH
C3	1-164-237-11	s CAPACITOR, CERAMIC 16PF/50V CH
C4	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C5	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C6	1-104-851-11	s CAPACITOR, TANTALUM 10MF/10V
C7	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C8	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C9	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C10	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C11	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C12	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C13	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C14	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C17	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C18	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C21	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C22	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C23	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C24	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C25	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C26	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C27	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C28	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C29	1-128-590-11	s CAPACITOR ERECT 100MF/6.3V(105
C30	*2 1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C31	*2 1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C32	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C33	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C34	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C35	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C36	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C37	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C38	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C39	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C41	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C42	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C101	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C102	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C103	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C104	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C105	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C106	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C107	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C108	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C109	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C110	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C111	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C112	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C113	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C114	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F
C115	1-164-156-11	s CAPACITOR, CERAMIC 0.1MF/25V F

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Ref. No. or Q'ty	Part No.	SP	Description
C116	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C117	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C118	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C119	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C120	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C121	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C122	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C123	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C124	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C125	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C126	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C127	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C128	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C129	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C130	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C131	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C132	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C133	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C134	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C135	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C136	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C137	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C138	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C201	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C202	1-113-985-11	s	CAPACITOR, TANTALUM 10MF/20V
C203	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C204	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C205	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C206	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C207	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C208	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C209	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C210	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C211	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C212	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C213	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C214	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C215	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C216	1-113-981-11	s	CAPACITOR TANTALUM 22MF/20V
C217	1-113-981-11	s	CAPACITOR TANTALUM 22MF/20V
C218	1-115-156-11	s	CAPACITOR, 1MF/10V (1608)
C219	1-115-156-11	s	CAPACITOR, 1MF/10V (1608)
C220	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C221	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C222	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C223	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C224	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C225	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C226	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C227	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C301	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C302	1-113-981-11	s	CAPACITOR TANTALUM 22MF/20V
C303	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C304	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C305	1-113-981-11	s	CAPACITOR TANTALUM 22MF/20V
C306	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C307	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C308	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C309	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH
C310	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH

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Ref. No. or Q'ty	Part No.	SP	Description
C311	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C312	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C313	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C315	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C316	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C317	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C318	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C319	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C320	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C411	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C412	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C413	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C414	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C415	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C416	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C417	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C418	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C419	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C420	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C421	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C422	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C423	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C424	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C425	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C426	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C427	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C428	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C429	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C430	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C431	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C432	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C433	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C434	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
CN1	1-506-471-11	o	PIN, CONNECTOR 6P
CN102	1-580-537-11	o	PIN, CONNECTOR (PC BOARD) 16P
CN201	1-766-705-31	o	CONNECTOR, FPC/FFC 25P
CN202	1-766-705-31	o	CONNECTOR, FPC/FFC 25P
CN203	1-766-705-31	o	CONNECTOR, FPC/FFC 25P
CN301	1-770-291-11	o	PIN, CONNECTOR (PC BOARD) 7P
CN302	1-573-985-21	o	CONNECTOR, FPC/FFC 12P
CN303	1-568-064-11	o	HEADER, FLAT CABLE 50P
CN401	1-573-985-21	o	CONNECTOR, FPC/FFC 12P
CN402	1-506-469-11	s	PIN, CONNECTOR 4P
CN403	1-506-469-11	s	PIN, CONNECTOR 4P
CN404	1-766-705-31	o	CONNECTOR, FPC/FFC 25P
CN405	1-766-705-31	o	CONNECTOR, FPC/FFC 25P
CN406	1-580-748-11	s	CONNECTOR, FPC(ZIF TYPE) 16P
D1	8-719-024-81	s	DIODE 1SS300-TE85L
D2	8-719-024-81	s	DIODE 1SS300-TE85L
D3	8-719-024-81	s	DIODE 1SS300-TE85L
D4	8-719-024-81	s	DIODE 1SS300-TE85L
D5	8-719-024-81	s	DIODE 1SS300-TE85L
D6	8-719-024-81	s	DIODE 1SS300-TE85L
D7	8-719-024-81	s	DIODE 1SS300-TE85L
D8	8-719-024-81	s	DIODE 1SS300-TE85L
D9	8-719-024-81	s	DIODE 1SS300-TE85L
D10	8-719-024-81	s	DIODE 1SS300-TE85L
D11	8-719-024-81	s	DIODE 1SS300-TE85L
D12	8-719-024-81	s	DIODE 1SS300-TE85L

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Ref. No. or Q'ty	Part No.	SP	Description
D13	8-719-024-81	s	DIODE 1SS300-TE85L
D14	8-719-024-81	s	DIODE 1SS300-TE85L
D15	8-719-024-81	s	DIODE 1SS300-TE85L
D16	8-719-024-81	s	DIODE 1SS300-TE85L
D17	8-719-820-41	s	DIODE 1SS302
D19	8-719-024-81	s	DIODE 1SS300-TE85L
D21	*2 8-719-105-57	s	DIODE RD3.9M-B1
D201	8-719-404-35	s	DIODE MA141WK
FB201	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB202	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB203	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB204	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB205	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB206	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB207	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB208	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB209	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB210	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB211	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB212	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB213	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB214	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB215	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB216	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB217	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB218	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB219	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB220	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB221	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB222	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB223	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB224	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB225	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB226	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB227	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB228	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB229	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB230	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB231	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB232	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB233	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB234	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB235	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB236	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB237	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB238	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB239	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB240	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB241	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB242	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB243	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB244	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB245	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB246	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB247	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB248	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB249	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB250	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB251	1-543-622-11	s	BEAD, FERRITE (CHIP)

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Ref. No. or Q'ty	Part No.	SP	Description
FB252	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB253	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB254	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB255	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB256	1-543-622-11	s	BEAD, FERRITE (CHIP)
FB301	1-410-396-41	s	FERRITE BEAD INDUCTOR
IC1	8-759-593-24	o	IC EPM7128STC100-MSU700-V1.00
IC2	*2 8-759-096-87	s	IC TC7WU04FU (TE12)
	*1 8-759-242-70	s	IC TC7WU04F
IC3	8-759-051-44	s	IC SN74HC4020APW (E05)
IC4	8-759-973-71	s	IC TL7705CPS-B
IC5	8-759-834-44	o	IC 29F040-MSU7X0AL-V1.10
IC6	8-759-834-45	o	IC 29F040-MSU7X0AH-V1.10
IC7	8-759-568-63	s	IC HD6437043AE65F
IC9	8-759-828-26	s	IC K6R4008C1C-JC15
IC10	8-759-828-26	s	IC K6R4008C1C-JC15
IC11	8-759-828-26	s	IC K6R4008C1C-JC15
IC12	8-759-828-26	s	IC K6R4008C1C-JC15
IC14	8-759-996-82	s	IC MSM82C55A-2GS
IC15	8-759-996-82	s	IC MSM82C55A-2GS
IC16	8-759-549-17	s	IC SN74LV32APWR
IC17	8-759-549-17	s	IC SN74LV32APWR
IC20	8-759-996-82	s	IC MSM82C55A-2GS
IC21	8-759-996-82	s	IC MSM82C55A-2GS
IC22	8-759-996-82	s	IC MSM82C55A-2GS
IC23	8-759-996-82	s	IC MSM82C55A-2GS
IC24	8-759-487-51	s	IC HN58C257AT10
IC25	8-759-487-51	s	IC HN58C257AT10
IC28	8-759-285-07	s	IC S-24S45IF10
IC29	8-759-049-60	s	IC SN74HC08APW
IC31	8-759-049-60	s	IC SN74HC08APW
IC32	8-759-049-60	s	IC SN74HC08APW
IC33	8-759-524-23	s	IC TC74VHC238FT (EL)
IC35	8-759-173-16	s	IC TL062CPW
IC36	8-759-071-01	s	IC UPD4991AGS
IC37	*2 8-759-659-96	s	IC SN74HC08APWR
IC38	*2 8-759-659-96	s	IC SN74HC08APWR
IC101	8-759-049-98	s	IC SN74HC74APW
IC102	8-759-049-83	s	IC SN74HC573BPW (E20)
IC103	8-759-049-83	s	IC SN74HC573BPW (E20)
IC104	8-759-050-10	s	IC SN74HC163APW (E05)
IC105	8-759-050-10	s	IC SN74HC163APW (E05)
IC106	8-759-049-59	s	IC SN74HC04APW-EL
IC107	8-759-320-64	s	IC HD64646FS
IC108	8-759-049-90	s	IC SN74HC10APW (E05)
IC109	8-759-050-10	s	IC SN74HC163APW (E05)
IC110	8-759-050-10	s	IC SN74HC163APW (E05)
IC111	8-759-253-32	s	IC CXD8888R
IC112	8-759-049-83	s	IC SN74HC573BPW (E20)
IC113	8-759-050-36	s	IC SN74HC540APW
IC114	8-759-050-10	s	IC SN74HC163APW (E05)
IC115	8-759-050-10	s	IC SN74HC163APW (E05)
IC116	8-759-549-17	s	IC SN74LV32APWR
IC117	8-759-049-98	s	IC SN74HC74APW
IC118	8-759-549-17	s	IC SN74LV32APWR
IC119	8-759-051-08	s	IC SN74HC27APW (E05)
IC120	8-759-662-12	s	IC LC35256FT-70U-TLM
IC121	8-759-662-12	s	IC LC35256FT-70U-TLM
IC122	8-759-050-34	s	IC SN74HC393APW (E05)

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Ref. No. or Q'ty	Part No.	SP	Description
IC123	8-759-049-98	s IC	SN74HC74APW
IC124	8-759-049-60	s IC	SN74HC08APW
IC125	8-759-049-98	s IC	SN74HC74APW
IC126	8-759-049-83	s IC	SN74HC573BPW (E20)
IC127	8-759-049-83	s IC	SN74HC573BPW (E20)
IC128	8-759-049-80	s IC	SN74HC541APW (E05)
IC129	8-759-049-80	s IC	SN74HC541APW (E05)
IC200	8-759-049-60	s IC	SN74HC08APW
IC201	8-759-049-96	s IC	SN74HC32APW
IC203	8-759-549-00	s IC	SN74LV123APWR
IC204	8-759-049-86	s IC	SN74HCT244APW (E05)
IC205	8-759-049-86	s IC	SN74HCT244APW (E05)
IC206	8-759-049-86	s IC	SN74HCT244APW (E05)
IC207	8-759-049-86	s IC	SN74HCT244APW (E05)
IC208	8-759-049-88	s IC	SN74HCT245APW (E05)
IC209	8-759-049-88	s IC	SN74HCT245APW (E05)
IC210	8-759-049-86	s IC	SN74HCT244APW (E05)
IC211	8-759-050-00	s IC	SN74HC86APW
IC212	8-759-049-55	s IC	SN74HC00APW (E20)
IC213	8-759-049-98	s IC	SN74HC74APW
IC214	8-759-049-98	s IC	SN74HC74APW
IC215	8-759-049-96	s IC	SN74HC32APW
IC216	8-759-049-98	s IC	SN74HC74APW
IC217	8-759-049-60	s IC	SN74HC08APW
IC218	8-759-049-90	s IC	SN74HC10APW (E05)
IC219	8-759-049-66	s IC	SN74HC125APW-E05
IC301	8-759-092-81	s IC	SN75158PS
IC302	8-759-447-94	s IC	NJU7201U32
IC304	8-759-594-17	o IC	CXD9093R
IC404	8-759-049-59	s IC	SN74HC04APW-EL
IC405	8-759-049-60	s IC	SN74HC08APW
IC406	8-759-287-56	s IC	UPD4701AGT
IC407	8-759-287-56	s IC	UPD4701AGT
IC408	8-759-287-56	s IC	UPD4701AGT
IC409	8-759-049-80	s IC	SN74HC541APW (E05)
IC410	8-759-049-80	s IC	SN74HC541APW (E05)
IC411	8-759-049-80	s IC	SN74HC541APW (E05)
IC412	8-759-049-92	s IC	SN74HC14APW
IC413	8-759-049-92	s IC	SN74HC14APW
IC414	8-759-049-59	s IC	SN74HC04APW-EL
IC415	8-759-049-59	s IC	SN74HC04APW-EL
IC416	8-759-096-87	s IC	TC7WU04FU (TE12R)
IS5	1-540-151-21	s SOCKET, IC	
IS6	1-540-151-21	s SOCKET, IC	
L301	1-412-026-11	s CHIP	INDUCTOR 10UH (3225)
L302	1-412-029-11	s CHIP	INDUCTOR 10UH (3225)
L303	1-412-029-11	s CHIP	INDUCTOR 10UH (3225)
L304	1-412-032-11	s INDUCTOR	CHIP 100UH (3225)
L305	1-412-029-11	s CHIP	INDUCTOR 10UH (3225)
L306	1-412-029-11	s CHIP	INDUCTOR 10UH (3225)
PH301	8-749-014-35	s IC	HCPL-0630-500
PH302	8-749-014-35	s IC	HCPL-0630-500
Q1	8-729-924-39	s	TRANSISTOR DTC143XU
Q2	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q3	*2 8-729-117-32	s	TRANSISTOR 2SC4177
Q4	*2 8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q201	8-729-924-39	s	TRANSISTOR DTC143XU

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Ref. No. or Q'ty	Part No.	SP	Description
Q202	8-729-924-39	s	TRANSISTOR DTC143XU
Q203	8-729-924-39	s	TRANSISTOR DTC143XU
Q204	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q205	8-729-807-34	s	TRANSISTOR 2SB1123-S
Q206	8-729-807-34	s	TRANSISTOR 2SB1123-S
R1	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R2	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R3	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R4	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R5	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R6	1-216-841-11	s	RESISTOR,CHIP 47K 1/16W 1608
R7	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W 1608
R8	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W 1608
R9	1-216-841-11	s	RESISTOR,CHIP 47K 1/16W 1608
R11	1-216-841-11	s	RESISTOR,CHIP 47K 1/16W 1608
R12	1-216-841-11	s	RESISTOR,CHIP 47K 1/16W 1608
R13	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R14	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R15	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R16	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R17	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R18	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R19	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R20	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R21	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R22	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R23	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R24	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R25	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R26	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R27	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R28	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W 1608
R29	1-216-818-11	s	RESISTOR,CHIP 560 1/16W 1608
R30	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R31	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R32	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R33	*2 1-216-822-11	s	RESISTOR,CHIP 1.2K 1/16W 1608
R35	1-216-813-11	s	RESISTOR,CHIP 220 1/16W 1608
R37	1-216-813-11	s	RESISTOR,CHIP 220 1/16W 1608
R39	1-216-841-11	s	RESISTOR,CHIP 47K 1/16W 1608
R41	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R51	*2 1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R52	*2 1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R53	*2 1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R54	*2 1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R55	*2 1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R201	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R202	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W 1608
R203	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W 1608
R204	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W 1608
R205	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W 1608
R206	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W 1608
R207	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R208	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R209	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R210	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W 1608
R211	1-216-813-11	s	RESISTOR,CHIP 220 1/16W 1608
R212	1-216-813-11	s	RESISTOR,CHIP 220 1/16W 1608
R301	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R302	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608

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Ref. No. or Q'ty	Part No.	SP Description
R303	1-218-671-11	s RESISTOR,CHIP 130 1/16W (1608)
R304	1-216-797-11	s RESISTOR,CHIP 10 1/16W 1608
R305	1-216-797-11	s RESISTOR,CHIP 10 1/16W 1608
R306	1-218-671-11	s RESISTOR,CHIP 130 1/16W (1608)
R307	1-216-831-11	s RESISTOR,CHIP 6.8K 1/16W(1608)
R308	1-216-831-11	s RESISTOR,CHIP 6.8K 1/16W(1608)
R309	1-216-831-11	s RESISTOR,CHIP 6.8K 1/16W(1608)
R310	1-216-831-11	s RESISTOR,CHIP 6.8K 1/16W(1608)
R311	1-216-833-11	s RESISTOR,CHIP 10K 1/16W 1608
R312	1-216-833-11	s RESISTOR,CHIP 10K 1/16W 1608
R313	1-216-833-11	s RESISTOR,CHIP 10K 1/16W 1608
R314	1-216-833-11	s RESISTOR,CHIP 10K 1/16W 1608
R315	1-216-833-11	s RESISTOR,CHIP 10K 1/16W 1608
R316	1-216-833-11	s RESISTOR,CHIP 10K 1/16W 1608
R317	1-216-833-11	s RESISTOR,CHIP 10K 1/16W 1608
R318	1-216-825-11	s RESISTOR,CHIP 2.2K 1/16W 1608
R401	1-216-845-11	s RESISTOR,CHIP 100K 1/16W(1608)
R402	1-216-845-11	s RESISTOR,CHIP 100K 1/16W(1608)
R403	1-216-845-11	s RESISTOR,CHIP 100K 1/16W(1608)
R404	1-216-845-11	s RESISTOR,CHIP 100K 1/16W(1608)
R405	1-216-813-11	s RESISTOR, CHIP 220 1/16W 1608
R406	1-216-813-11	s RESISTOR, CHIP 220 1/16W 1608
R407	1-216-845-11	s RESISTOR,CHIP 100K 1/16W(1608)
R408	1-216-845-11	s RESISTOR,CHIP 100K 1/16W(1608)
R409	1-216-857-11	s RESISTOR, CHIP 1.0M 1/16W 1608
R410	1-216-797-11	s RESISTOR,CHIP 10 1/16W 1608
R411	1-216-813-11	s RESISTOR, CHIP 220 1/16W 1608
R412	1-216-813-11	s RESISTOR, CHIP 220 1/16W 1608
R413	1-216-829-11	s RESISTOR, CHIP 4.7K 1/16W 1608
RB1	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB2	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB3	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB4	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB5	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB6	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB7	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB8	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB9	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB10	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB11	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB12	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB13	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB14	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB15	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB16	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB17	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB18	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB19	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB20	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB21	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB22	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB23	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB24	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB25	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB26	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB27	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB28	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB29	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB101	1-239-308-11	s RESISTOR ARRAY,CHIP 47K

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Ref. No. or Q'ty	Part No.	SP Description
RB102	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB201	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB202	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB203	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB301	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB302	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB303	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB304	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB305	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB306	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB307	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB308	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB309	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB310	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB311	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB312	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB313	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB314	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB315	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB401	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB404	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB405	1-239-426-11	s NETWORK RESISTOR 2.2K (1608)
RB406	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB407	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB408	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB409	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
S1	1-692-271-31	s SWITCH, SLIDE
S2	1-692-271-31	s SWITCH, SLIDE
S3	1-692-271-31	s SWITCH, SLIDE
S4	1-692-271-31	s SWITCH, SLIDE
S5	1-571-188-21	s SWITCH,TACTIL (REFLOW TYPE)
S6	1-571-275-31	s SWITCH,SLIDE (1-1-2)
X1	1-767-204-21	s VIBRATOR, CRYSTAL
X2	1-760-458-11	s VIBRATOR, CRYSTAL
X401	1-760-435-11	s VIBRATOR, CRYSTAL

LED-334 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-655-A	o MOUNTED CIRCUIT BOARD, LED-334
CN1	1-778-532-11	o CONNECTOR, BOARD TO BOARD 80P
CN4	1-566-475-11	o PIN, SOCKET 3P
CN5	1-566-475-11	o PIN, SOCKET 3P
CN6	1-566-475-11	o PIN, SOCKET 3P
D5	8-719-033-55	s DIODE LD-101YY
ND1	8-719-061-17	s LED HCMS-2913
ND2	8-719-061-17	s LED HCMS-2913
ND3	8-719-061-17	s LED HCMS-2913
ND4	8-719-061-17	s LED HCMS-2913
ND6	8-719-050-78	s LED MD0708C-RG
ND7	8-719-939-53	s LED ARRAY LB-203ML
ND8	8-719-939-53	s LED ARRAY LB-203ML

LED-335 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-649-A	o MOUNTED CIRCUIT BOARD, LED-335
CN1	1-793-265-11	o PIN (PC BOARD), CONNECTOR
CN2	1-793-265-11	o PIN (PC BOARD), CONNECTOR
D1	8-719-054-22	s LED SML-020MLTT87
D2	8-719-054-22	s LED SML-020MLTT87
D3	8-719-054-22	s LED SML-020MLTT87
D4	8-719-054-22	s LED SML-020MLTT87
D5	8-719-054-22	s LED SML-020MLTT87
D6	8-719-054-22	s LED SML-020MLTT87
D7	8-719-054-22	s LED SML-020MLTT87
D8	8-719-054-22	s LED SML-020MLTT87
D9	8-719-054-22	s LED SML-020MLTT87
D10	8-719-054-22	s LED SML-020MLTT87
D11	8-719-054-22	s LED SML-020MLTT87
D12	8-719-054-22	s LED SML-020MLTT87
D13	8-719-054-22	s LED SML-020MLTT87
D14	8-719-054-22	s LED SML-020MLTT87
D15	8-719-054-22	s LED SML-020MLTT87
D16	8-719-054-22	s LED SML-020MLTT87
D17	8-719-054-22	s LED SML-020MLTT87
D18	8-719-054-22	s LED SML-020MLTT87
D19	8-719-054-22	s LED SML-020MLTT87
D20	8-719-054-22	s LED SML-020MLTT87
D21	8-719-054-22	s LED SML-020MLTT87
D22	8-719-054-22	s LED SML-020MLTT87
D23	8-719-054-22	s LED SML-020MLTT87
D24	8-719-054-22	s LED SML-020MLTT87
D25	8-719-054-22	s LED SML-020MLTT87
D26	8-719-054-22	s LED SML-020MLTT87
D27	8-719-054-22	s LED SML-020MLTT87
D28	8-719-054-22	s LED SML-020MLTT87
D29	8-719-054-22	s LED SML-020MLTT87
D30	8-719-054-22	s LED SML-020MLTT87
D31	8-719-054-22	s LED SML-020MLTT87
D32	8-719-054-22	s LED SML-020MLTT87
D33	8-719-054-22	s LED SML-020MLTT87
D34	8-719-054-22	s LED SML-020MLTT87
D35	8-719-054-22	s LED SML-020MLTT87
D36	8-719-054-22	s LED SML-020MLTT87
D37	8-719-054-22	s LED SML-020MLTT87
D38	8-719-054-22	s LED SML-020MLTT87
D39	8-719-054-22	s LED SML-020MLTT87
D40	8-719-054-22	s LED SML-020MLTT87
D41	8-719-054-22	s LED SML-020MLTT87
D42	8-719-054-22	s LED SML-020MLTT87
D43	8-719-054-22	s LED SML-020MLTT87
D44	8-719-054-22	s LED SML-020MLTT87
D45	8-719-054-22	s LED SML-020MLTT87
D46	8-719-054-22	s LED SML-020MLTT87
D47	8-719-054-22	s LED SML-020MLTT87
D48	8-719-054-22	s LED SML-020MLTT87
D49	8-719-054-22	s LED SML-020MLTT87
D50	8-719-054-22	s LED SML-020MLTT87
D51	8-719-054-22	s LED SML-020MLTT87
D52	8-719-054-22	s LED SML-020MLTT87
D53	8-719-054-22	s LED SML-020MLTT87
D54	8-719-054-22	s LED SML-020MLTT87
D55	8-719-054-22	s LED SML-020MLTT87

(LED-335 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D56	8-719-054-22	s LED SML-020MLTT87
D57	8-719-054-22	s LED SML-020MLTT87
D58	8-719-054-22	s LED SML-020MLTT87
D59	8-719-054-22	s LED SML-020MLTT87
D60	8-719-054-22	s LED SML-020MLTT87
D61	8-719-054-22	s LED SML-020MLTT87
D62	8-719-054-22	s LED SML-020MLTT87
D63	8-719-054-22	s LED SML-020MLTT87
D64	8-719-054-22	s LED SML-020MLTT87
D65	8-719-054-22	s LED SML-020MLTT87
D66	8-719-054-22	s LED SML-020MLTT87
D67	8-719-054-22	s LED SML-020MLTT87
D68	8-719-054-22	s LED SML-020MLTT87
D69	8-719-054-22	s LED SML-020MLTT87
D70	8-719-054-22	s LED SML-020MLTT87
D71	8-719-054-22	s LED SML-020MLTT87
D72	8-719-054-22	s LED SML-020MLTT87

LED-336 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-674-348-11	o PRINTED WIRING BOARD, LED-336
CN1	1-566-492-11	o PIN, SOCKET 20P
CN2	1-566-475-11	o PIN, SOCKET 3P
D7	8-719-028-30	s DIODE SPR-39MVWF (25MA)
ND1	8-719-948-06	s LED ARRAY LB-202ML
ND2	8-719-948-06	s LED ARRAY LB-202ML
ND3	8-719-948-06	s LED ARRAY LB-202ML
ND4	8-719-948-06	s LED ARRAY LB-202ML
ND5	8-719-939-52	s LED ARRAY LA-301ML
ND6	8-719-939-52	s LED ARRAY LA-301ML

SW-6 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8322-653-A	o	MOUNTED CIRCUIT BOARD, SW-6
2pcs	1-563-521-11	o	SOCKET, SIL 20P
BZ1	1-529-025-00	s	BUZZER, PIEZO
C1	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C2	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C3	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C4	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C5	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C6	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C7	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C8	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C9	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C10	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C12	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C17	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C19	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C21	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C22	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C23	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C24	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C26	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C28	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C29	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C30	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C101	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C102	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C103	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C104	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C105	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C106	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C107	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C108	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C117	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C118	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C119	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C201	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C202	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C203	1-113-642-11	s	CAPACITOR, TANTALUM 47MF/10V
C204	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
CN1	1-766-705-31	o	CONNECTOR, FPC/FFC 25P
CN2	1-766-705-31	o	CONNECTOR, FPC/FFC 25P
CN11	1-573-985-21	o	CONNECTOR, FPC/FFC 12P
CN21	1-563-521-11	o	SOCKET, SIL 20P
CN23	1-793-264-11	o	CONNECTOR, BOARD TO BOARD 80P
D1	8-719-024-81	s	DIODE 1SS300-TE85L
D2	8-719-024-81	s	DIODE 1SS300-TE85L
D3	8-719-024-81	s	DIODE 1SS300-TE85L
D4	8-719-024-81	s	DIODE 1SS300-TE85L
D5	8-719-024-81	s	DIODE 1SS300-TE85L
D6	8-719-024-81	s	DIODE 1SS300-TE85L
D9	8-719-024-81	s	DIODE 1SS300-TE85L
D10	8-719-024-81	s	DIODE 1SS300-TE85L
D11	8-719-024-81	s	DIODE 1SS300-TE85L
D12	8-719-024-81	s	DIODE 1SS300-TE85L
D13	8-719-024-81	s	DIODE 1SS300-TE85L
D14	8-719-024-81	s	DIODE 1SS300-TE85L
D15	8-719-024-81	s	DIODE 1SS300-TE85L

(SW-6 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D16	8-719-024-81	s	DIODE 1SS300-TE85L
D17	8-719-024-81	s	DIODE 1SS300-TE85L
D18	8-719-024-81	s	DIODE 1SS300-TE85L
D19	8-719-024-81	s	DIODE 1SS300-TE85L
D20	8-719-024-81	s	DIODE 1SS300-TE85L
D21	8-719-024-81	s	DIODE 1SS300-TE85L
D22	8-719-024-81	s	DIODE 1SS300-TE85L
D23	8-719-024-81	s	DIODE 1SS300-TE85L
D24	8-719-024-81	s	DIODE 1SS300-TE85L
D25	8-719-024-81	s	DIODE 1SS300-TE85L
D26	8-719-024-81	s	DIODE 1SS300-TE85L
D27	8-719-024-81	s	DIODE 1SS300-TE85L
D28	8-719-024-81	s	DIODE 1SS300-TE85L
D29	8-719-024-81	s	DIODE 1SS300-TE85L
D30	8-719-024-81	s	DIODE 1SS300-TE85L
D31	8-719-024-81	s	DIODE 1SS300-TE85L
D32	8-719-024-81	s	DIODE 1SS300-TE85L
EN1	1-418-485-11	s	ENCODER, ROTARY
EN2	1-418-485-11	s	ENCODER, ROTARY
EN3	1-418-485-11	s	ENCODER, ROTARY
EN4	1-418-485-11	s	ENCODER, ROTARY
FB1	1-410-396-41	s	FERRITE BEAD INDUCTOR
IC1	8-759-049-83	s	IC SN74HC573BPW (E20)
IC2	8-759-049-83	s	IC SN74HC573BPW (E20)
IC3	8-759-049-83	s	IC SN74HC573BPW (E20)
IC4	8-759-049-83	s	IC SN74HC573BPW (E20)
IC5	8-759-049-83	s	IC SN74HC573BPW (E20)
IC6	8-759-049-83	s	IC SN74HC573BPW (E20)
IC7	8-759-049-83	s	IC SN74HC573BPW (E20)
IC8	8-759-049-83	s	IC SN74HC573BPW (E20)
IC10	8-759-082-55	s	IC TC7W00FU
IC17	8-759-524-23	s	IC TC74VHC238FT (EL)
IC19	8-759-524-23	s	IC TC74VHC238FT (EL)
IC21	8-759-524-23	s	IC TC74VHC238FT (EL)
IC22	8-759-524-23	s	IC TC74VHC238FT (EL)
IC23	8-759-049-70	s	IC SN74HC138APW
IC24	8-759-524-23	s	IC TC74VHC238FT (EL)
IC26	8-759-049-59	s	IC SN74HC04APW-EL
IC27	8-759-082-58	s	IC TC7W08FU
IC28	8-759-388-15	o	IC HD6435328RE48F
JC2	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC3	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
L1	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
Q1	8-729-924-39	s	TRANSISTOR DTC143XU
Q2	8-729-924-39	s	TRANSISTOR DTC143XU
Q3	8-729-924-39	s	TRANSISTOR DTC143XU
Q4	8-729-924-39	s	TRANSISTOR DTC143XU
Q5	8-729-924-39	s	TRANSISTOR DTC143XU
Q6	8-729-924-39	s	TRANSISTOR DTC143XU
Q7	8-729-924-39	s	TRANSISTOR DTC143XU
Q8	8-729-924-39	s	TRANSISTOR DTC143XU
Q9	8-729-924-39	s	TRANSISTOR DTC143XU
Q10	8-729-924-39	s	TRANSISTOR DTC143XU
Q11	8-729-924-39	s	TRANSISTOR DTC143XU
Q12	8-729-924-39	s	TRANSISTOR DTC143XU
Q17	8-729-924-39	s	TRANSISTOR DTC143XU

 FRAME

Ref. No. or Q'ty	Part No.	SP Description
1pc	△ 1-468-411-11	s SWITCHING REGULATOR
F1	△ 1-532-827-11	s FUSE 3A 250V
HN101	1-466-955-21	s ENCODER, ROTARY (SWITCH)
EN102	1-466-955-21	s ENCODER, ROTARY (SWITCH)
HN101	1-574-161-11	s CABLE, FLAT 25P (FROM CN201/CPU-286 BOARD TO CN1/CN-1807 BOARD)
HN102	1-574-161-11	s CABLE, FLAT 25P (FROM CN202/CPU-286 BOARD TO CN2/CN-1807 BOARD)
HN103	1-574-161-11	s CABLE, FLAT 25P (FROM CN203/CPU-286 BOARD TO CN3/CN-1807 BOARD)
HN104	1-959-871-11	o HARNESS (EL) (FROM CN102/CPU-286 BOARD TO CN4/EL DISPLAY)
HN105	1-574-144-12	s WIRE, FLAT (12 CORE) (FROM CN401/CPU-286 BOARD TO CN11/SW-6 BOARD)
HN106	1-574-144-12	s WIRE, FLAT (12 CORE) (FROM CN302/CPU-286 BOARD TO CN3/CN-1803 BOARD)
HN107	1-959-870-11	o HARNESS (DC) (TO CN2/SWITCHING REGULATOR)
1pcs	1-562-833-11	o HOUSING, CONNECTOR 7P
7pcs	1-562-210-11	s CONTACT, CONNECTOR (TO CN301/CPU-286 BOARD)
1pcs	1-562-833-11	o HOUSING, CONNECTOR 7P
7pcs	1-562-210-11	s CONTACT, CONNECTOR
HN108	△ 1-959-872-11	o HARNESS (PS) (FROM CN1/SWITCHING REGULATOR TO CN101/AC-INLET)
HN109	1-574-161-11	s WIRE, FLAT 25P (FROM CN405/CPU-286 BOARD TO CN1/SW-6 BOARD)
HN110	1-574-161-11	s WIRE, FLAT 25P (FROM CN404/CPU-286 BOARD TO CN2/SW-6 BOARD)

2-4. Power Cords List

Q'ty	Part No.	SP Description
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<For customers in Japan>

1pc	△ -----	DK-2401(J)
1pc	3-613-640-01	o HOLDER (C), PLUG (Brown)
1pc	1-793-461-11	o PLUG, CONVERSION (3P-2P)

Plug holder and Plug conversion are included in DK-2401(J).

<For customers in the U.S.A. and Canada>

1pc	△ 1-551-812-11	s CORD, POWER
1pc	2-990-242-01	s HOLDER (B), PLUG (Black)

<For customers in the United Kingdom>

1pc	△ -----	DK-2401(UK)
1pc	2-990-242-01	s HOLDER (B), PLUG (Black)

Plug holder is included in DK-2401(UK).

<For customers in Europe except the United Kingdom>

1pc	△ -----	DK-2401(AE)
1pc	3-613-640-01	o HOLDER (C), PLUG (Brown)

Plug holder is included in DK-2401(AE).

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-xx) 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 (ソニー部品番号：9-968-546-xx)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.
1SS300-TE85L	DC001-02
1SS301-TE85L	DC001-03
1SS302	DC001-01
1SS302-TE85L	DC001-01

MA141WK	DC001-03
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LED	Page or ID No.
LA-301ML	LR072-02
LB-202ML	LR076-01
LB-203ML	3-3
LD-101YY	3-3
MD0708C-RG	3-3

SML-020MLTT87	LC009-02
SPR-39MVWF	LR019-03

TRANSISTOR	Page or ID No.
2SB1123-S	TC001-01
2SB624-BV5	TC001-01
2SB624-T1BV5	TC001-01
2SB766A-R-TX	TC001-01
2SD596-DV5	TC001-02
2SD596-T1DV5	TC001-02
DTA143XUA-T106	TC001-04
DTC143XUA-T106	TC001-03

IC	Page or ID No.
AM29F040B-90JC	AM29F040-90JC

CXD8888R	3-4
CXD9093R	3-3

EPM7128STC100-10	EPM7128STC100-7
------------------------	-----------------

HCMS-2913	HCMS-2913
HD6435328RE48F	HD6435328RD63F
HD6437043AE00F	HD6437043AP00F
HD64646FS	3-6
HN58C257AT-10	HN58C257T
HN58C257AT10	HN58C257T

KM62256DLTG-7L	3-4
KM684002AJ-20	3-4

MSM82C55A-2GS	MSM82C55A-5GS
MSM82C55A-2GS-VK	MSM82C55A-5GS

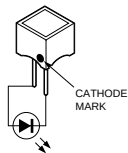
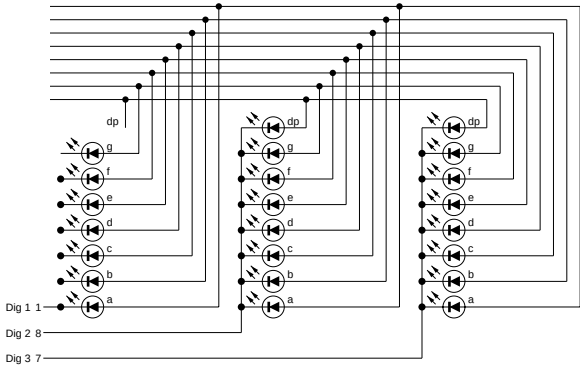
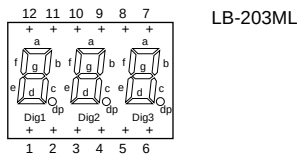
NJU7201U32	NJU7201U50
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S-24S451F10	S-24S45110
SN74HC00APW-E05	TC74HC00P
SN74HC00APW-E20	TC74HC00P
SN74HC04APW-E05	TC74HC04P
SN74HC04APW-E20	TC74HC04P
SN74HC08APW-E05	TC74HC08P
SN74HC10APW-E05	TC74HC10P
SN74HC125APW-E05	MC74HC125N
SN74HC138APW-E05	TC74HC138P
SN74HC14APW-E05	TC74HC14P
SN74HC14APW-E20	TC74HC14P
SN74HC163APW-E05	TC74HC163P
SN74HC27APW-E05	TC74HC27P
SN74HC32APW-E05	TC74HC32P

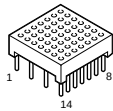
IC	Page or ID No.
SN74HC393APW-E05	TC74HC393P
SN74HC4020APW-E05	TC74HC4020P
SN74HC540APW-E05	MC74HC540N
SN74HC541APW-E05	MC74HC541N
SN74HC573BPW-E05	TC74HC573F
SN74HC573BPW-E20	TC74HC573F
SN74HC74APW-E05	TC74HC74P
SN74HC86APW-E05	TC74HC86P
SN74HCT244APW-E05	TC74HC244P
SN74HCT245APW-E05	TC74HC245P
SN74LV123APWR	TC74HC123P
SN74LV32APWR	TC74HC32P
SN75158PS	SN75158P
SN75158PSR	SN75158P
TC74VHC238FT(EL)	TC74HC238P
TC7W00FU	TC7W00F
TC7W00FU(TE12R)	TC7W00F
TC7W08FU	TC7W08F
TC7W08FU(TE12R)	TC7W08F
TC7WU04F(TE12R)	TC7W04F
TC7WU04F-TE12R	TC7W04F
TC7WU04FU(TE12R)	TC7W04F
TL062CPW	RC4558
TL062CPW-E05	RC4558
TL7705CPS-B	TL7705CP
TL7705CPS-B-E05	TL7705CP
UPD4701AGT	UPD4701AC
UPD4991AGS	3-5
UPD4991AGS-E2	3-5

OTHERS	Page or ID No.
HCPL-0630-500	MA009-01

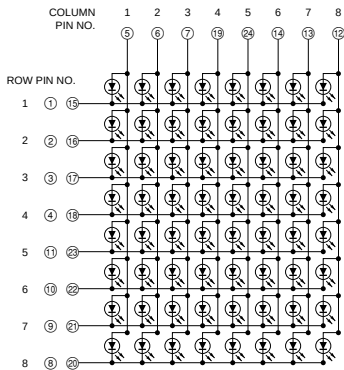
LED



LD-101YY



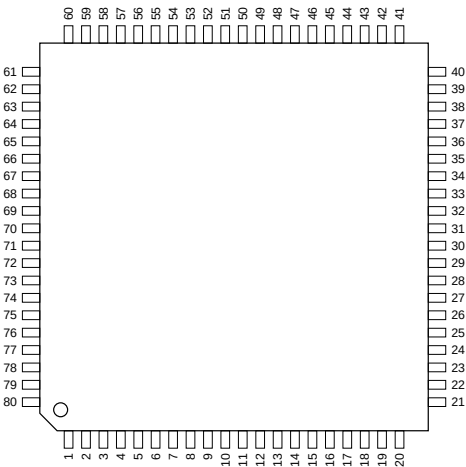
MD0708C-RG



IC

CXD9093R (SONY)

SERIAL I/O
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	GND	21	—	Vcc	41	—	GND	61	—	Vcc
2	I/O	D0	22	O	TOUT0	42	O	BREAKA	62	O	BREAKB
3	I/O	D1	23	O	TOUT1	43	O	CABLEA	63	O	CABLEB
4	I/O	D2	24	O	TOUT2	44	O	PACKETA	64	O	PACKETB
5	I/O	D3	25	O	TOUT3	45	I	TDI	65	O	INTA
6	—	GND	26	I	TEB	46	I	TMS	66	O	INTB
7	I/O	D4	27	I	TIN	47	I	TCK	67	I	TRST
8	I/O	D5	28	O	BTVDA	48	O	BTVDB	68	O	TDO
9	I/O	D6	29	O	TVDA	49	O	TVDB	69	I	RESET
10	I/O	D7	30	O	NTVDA	50	O	NTVDB	70	I	RESET
11	—	GND	31	—	GND	51	—	GND	71	—	GND
12	—	Vcc	32	—	Vcc	52	—	Vcc	72	—	Vcc
13	I	WR	33	I	RVDA	53	I	RVDB	73	I	CSA
14	—	NC	34	I	RVDA	54	I	RVDB	74	I	CSB
15	I	RD	35	I	CTSA	55	I	CTSB	75	—	GND
16	I	TEST	36	O	RTSA	56	O	RTSB	76	I	A0
17	O	WAIT	37	O	BRVDA	57	O	BRVDB	77	I	A1
18	—	GND	38	O	TCLKA	58	O	TCLKB	78	I	A2
19	I	CLK	39	O	BCLKA	59	O	BCLKB	79	I	A3
20	—	GND	40	—	Vcc	60	—	GND	80	—	Vcc

INPUTS

A0 - A3 : ADDRESS BUS
CLK : MAIN CLOCK
CSA, CSB : A/B-CH CS
CTS, CTSB : A/B-CH CTS
RD : READ
RESET, RESET : RESET
RVDA, RVDB : A/B-CH SERIAL DATA
RVDA, RVDB : A/B-CH NEGATIVE SERIAL DATA
TCK, TDI, TMS, TRST : FOR BOUNDARY SCAN
WR : WRITE

OUTPUTS

BCLKA, BCLKB : A/B-CH BCLK
BREAKA, BREAKB : A/B-CH BREAK DETECT
BRVDA, BRVDB : A/B-CH BI-PHASE DEMODULATION DATA
BTVD, BTVDB : A/B-CH BI-PHASE SERIAL DATA
CABLEA, CABLEB : A/B-CH CABLE DETECT
INTA, INTB : A/B-CH INTERRUPT
NTVDA, NTVDB : A/B-CH NORMAL SERIAL DATA
PACKETA, PACKETB : A/B-CH PACKET DETECT
RTSA, RTSB : A/B-CH RTS
TCLKA, TCLKB : A/B-CH TCLK
TDO : FOR BOUNDARY SCAN
TVDA, TVDB : A/B-CH SERIAL DATA
WAIT : WAIT

INPUTS/OUTPUTS

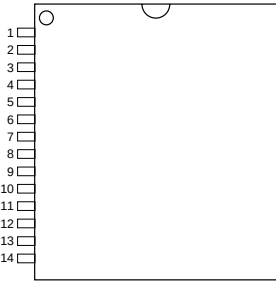
D0 - D7 : DATA BUS

OTHERS

NC : NO CONNECTION
TEB, TEST, TIN : TEST
TOUT0 - TOUT3 : TEST

KM62256DLTG-7L (SAMSUNG)

256K (32,768x8)-BIT SRAM
—TOP VIEW—

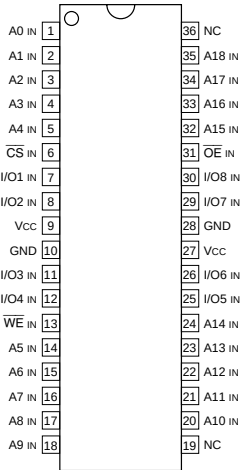


- INPUTS**
A0 - A14 : ADDRESS
CS : CHIP SELECT
OE : OUTPUT ENABLE
WE : WRITE ENABLE
- INPUTS/OUTPUTS**
I/O0 - I/O8 : DATA
- OTHER**
NC : NO CONNECTION

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	OE	8	I	A14	15	I	A2	22	I/O	I/O4
2	I	A11	9	I	A12	16	I	A1	23	I/O	I/O5
3	I	A9	10	I	A7	17	I	A0	24	I/O	I/O6
4	I	A8	11	I	A6	18	I/O	I/O1	25	I/O	I/O7
5	I	A13	12	I	A5	19	I/O	I/O2	26	I/O	I/O8
6	I	WE	13	I	A4	20	I/O	I/O3	27	I	CS
7	—	Vcc	14	I	A3	21	—	GND	28	I	A10

KM684002AJ-20 (SAMSUNG)

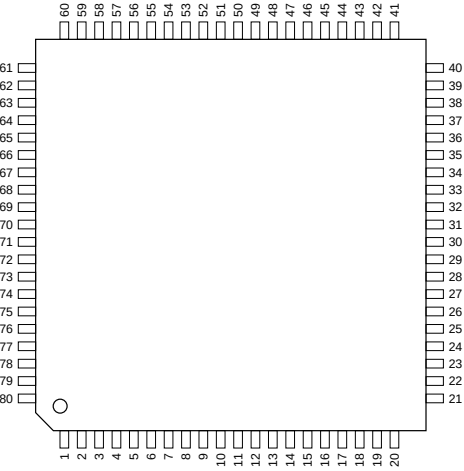
4M (524,288x8)-BIT SRAM
—TOP VIEW—



- INPUTS**
A0 - A18 : ADDRESS
CS : CHIP SELECT
OE : OUTPUT ENABLE
WE : WRITE ENABLE
- INPUTS/OUTPUTS**
I/O0 - I/O8 : DATA
- OTHER**
NC : NO CONNECTION

CXD8888R (SONY)

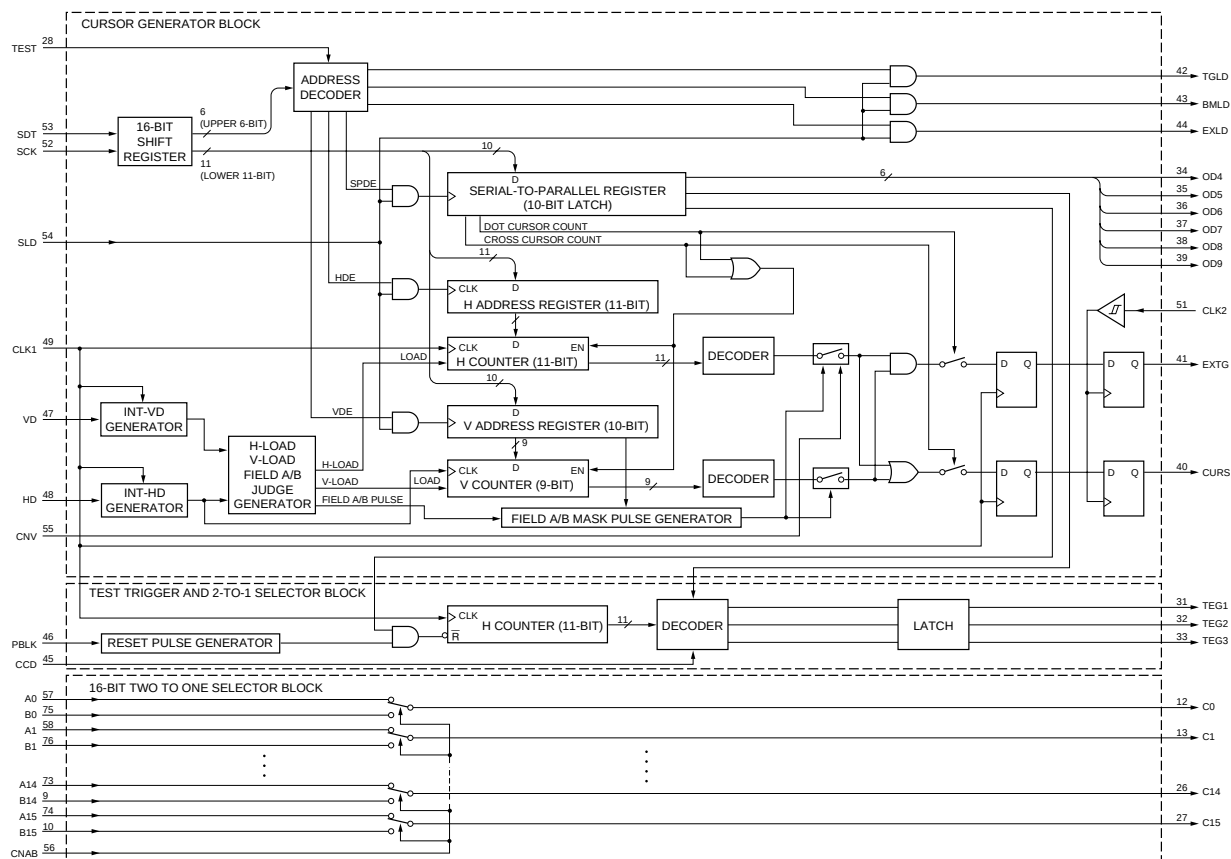
CURSOR GENERATOR
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	B6	21	O	C9	41	O	EXTG	61	I	A4
2	I	B7	22	O	C10	42	O	TGLD	62	I	A5
3	I	B8	23	O	C11	43	O	BMLD	63	I	A6
4	I	B9	24	O	C12	44	O	EXLD	64	I	A7
5	I	B10	25	O	C13	45	I	CCD	65	I	A8
6	I	B11	26	O	C14	46	I	PBLK	66	I	A9
7	I	B12	27	O	C15	47	I	VD	67	I	A10
8	I	B13	28	I	TEST	48	I	HD	68	I	A11
9	I	B14	29	—	GND	49	I	CLK1	69	I	A12
10	I	B15	30	—	Vcc	50	—	GND	70	I	A13
11	—	GND	31	O	TEG1	51	I	CLK2	71	—	GND
12	O	C0	32	O	TEG2	52	I	SCK	72	—	Vcc
13	O	C1	33	O	TEG3	53	I	SDT	73	I	A14
14	O	C2	34	O	OD4	54	I	SLD	74	I	A15
15	O	C3	35	O	OD5	55	I	CNV	75	I	B0
16	O	C4	36	O	OD6	56	I	CNAB	76	I	B1
17	O	C5	37	O	OD7	57	I	A0	77	I	B2
18	O	C6	38	O	OD8	58	I	A1	78	I	B3
19	O	C7	39	O	OD9	59	I	A2	79	I	B4
20	O	C8	40	O	CURS	60	I	A3	80	I	B5

- INPUTS**
A0 - A15 : A
B0 - B15 : B
CCD : CCD 40/50
CLK1, CLK2 : CLOCK
CNAB : OUTPUT SELECT A/B
CNV : V CURSOR FIELD/ALL
HD : HD
PBLK : PRE BLANKING
SCK : SERIAL CLOCK
SDT : SERIAL DATA
SLD : SERIAL LOAD
TEST : TEST
VD : VD

- OUTPUTS**
BMLD : BLEMISH LOAD
C0 - C15 : C
CURS : CURSOR
EXLD : EXTERNAL LOAD
EXTG : DOT
OD4 - OD9 : DATA
TEG1 - TEG3 : TEST TRIGGER
TGLD : TG LOAD

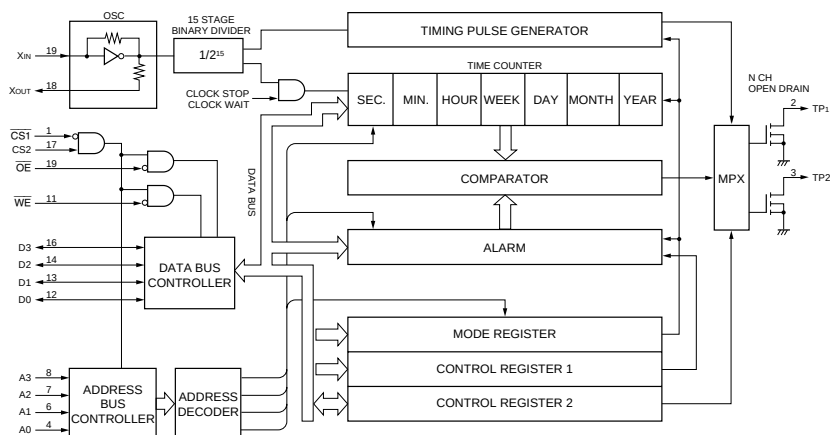
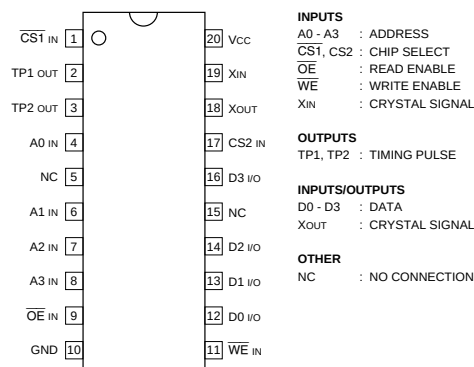


UPD4991AGS (NEC)

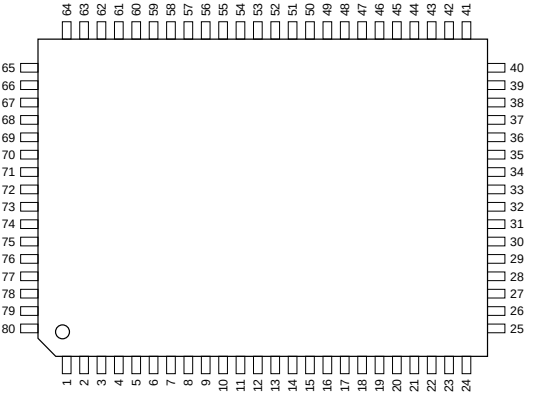
UPD4991AGS-E2

4-BIT PARALLEL I/O FOR CALENDAR/CLOCK

—TOP VIEW—



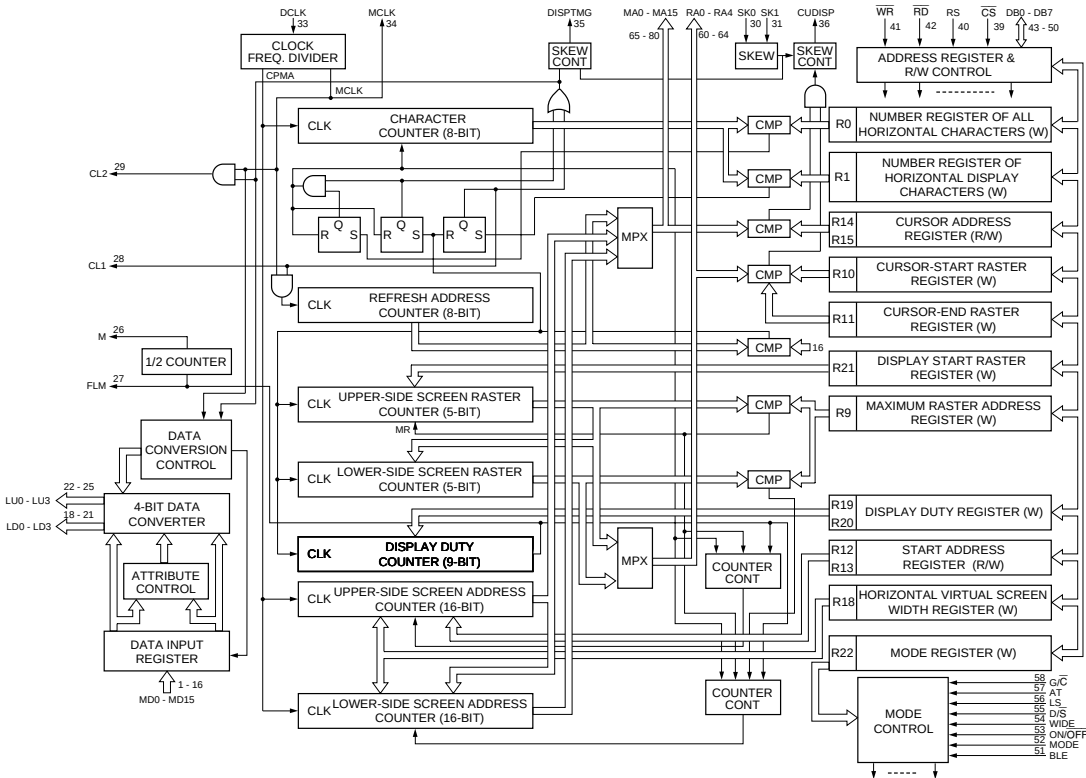
HD64646FS (HITACHI)
LIQUID CRYSTAL DISPLAY CONTROLLER
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	MD0	21	O	LD0	41	I	WR	61	O	RA3
2	I	MD1	22	O	LU3	42	I	RD	62	O	RA2
3	I	MD2	23	O	LU2	43	I/O	DB0	63	O	RA1
4	I	MD3	24	O	LU1	44	I/O	DB1	64	O	RA0
5	I	MD4	25	O	LU0	45	I/O	DB2	65	O	MA15
6	I	MD5	26	O	M	46	I/O	DB3	66	O	MA14
7	I	MD6	27	O	FLM	47	I/O	DB4	67	O	MA13
8	I	MD7	28	O	CL1	48	I/O	DB5	68	O	MA12
9	I	MD8	29	O	CL2	49	I/O	DB6	69	O	MA11
10	I	MD9	30	I	SK0	50	I/O	DB7	70	O	MA10
11	I	MD10	31	I	SK1	51	I	BLE	71	O	MA9
12	I	MD11	32	—	VDD	52	I	MODE	72	O	MA8
13	I	MD12	33	I	DCLK	53	I	ON/OFF	73	O	MA7
14	I	MD13	34	O	MCLK	54	I	WIDE	74	O	MA6
15	I	MD14	35	O	DISPTMG	55	I	D/S	75	O	MA5
16	I	MD15	36	O	CUDISP	56	I	LS	76	O	MA4
17	—	VDD	37	—	GND	57	I	AT	77	O	MA3
18	O	LD3	38	I	RES	58	I	G/C	78	O	MA2
19	O	LD2	39	I	CS	59	—	GND	79	O	MA1
20	O	LD1	40	I	RS	60	O	RA4	80	O	MA0

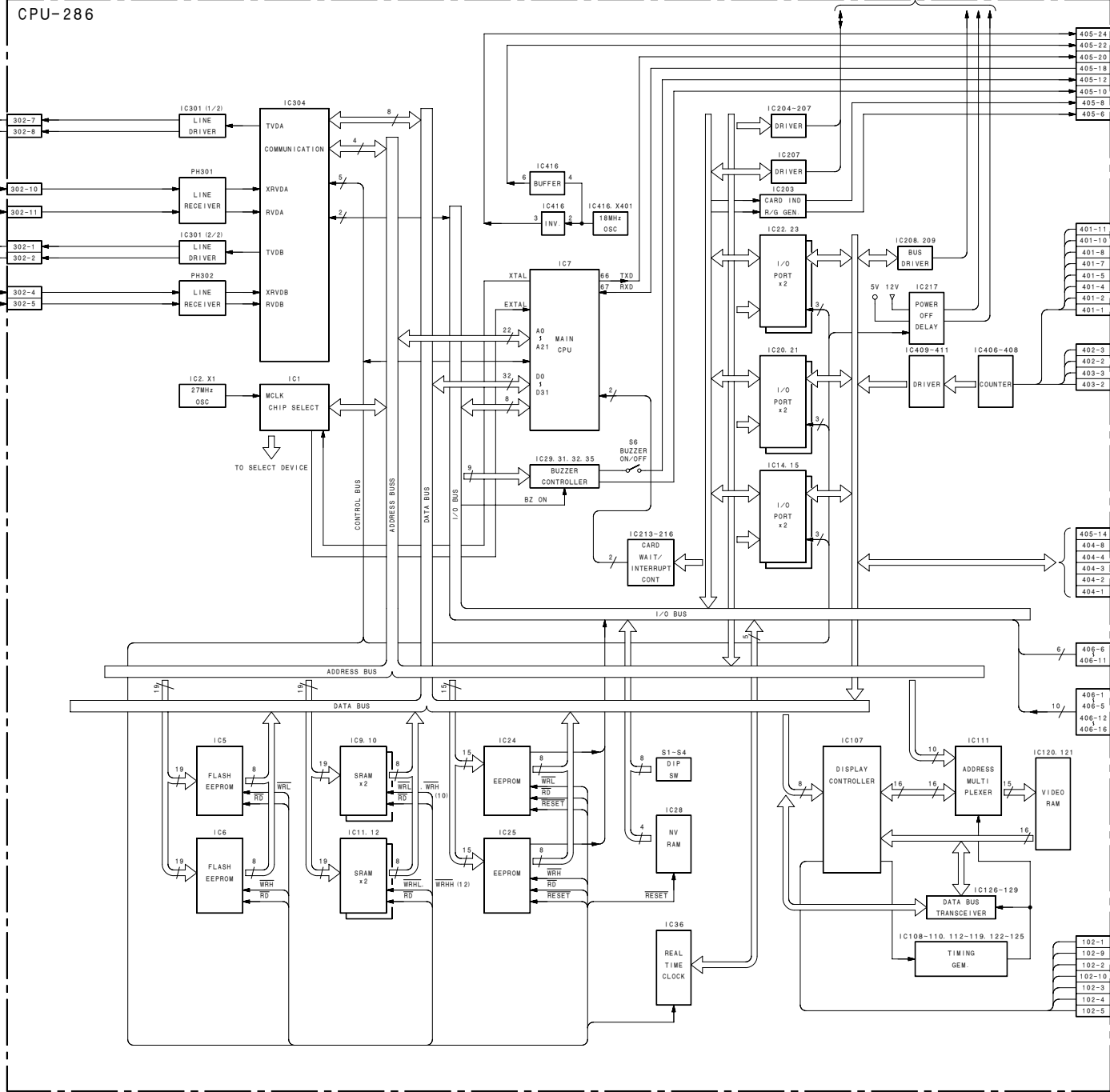
- INPUTS**
- AT : ATTRIBUTE
 - BLE : BLINK ENABLE
 - CS : CHIP SELECT
 - D/S : DUAL/SINGLE
 - DCLK : D CLOCK
 - G/C : GRAPHIC/CHARACTER
 - LS : LARGE SCREEN
 - MD0 - MD15 : MEMORY DATA
 - MODE : MODE
 - ON/OFF : DISPLAY ON/OFF
 - RD : READ
 - RES : RESET
 - RS : REGISTER SELECT
 - SK0, SK1 : SKEW 0, 1
 - WIDE : WIDE
 - WR : WRITE
- OUTPUTS**
- CL1, CL2 : CLOCK 1, 2
 - CUDISP : CURSOR DISPLAY
 - DISPTMG : DISPLAY TIMING
 - FLM : FIRST LINE MARKER
 - LD0 - LD3 : LCD UP PANEL DATA
 - LU0 - LU3 : LCD DOWN PANEL DATA
 - M : M
 - MA0 - MA15 : MEMORY ADDRESS
 - MCLK : MEMORY CLOCK
 - RA0 - RA4 : RASTER ADDRESS

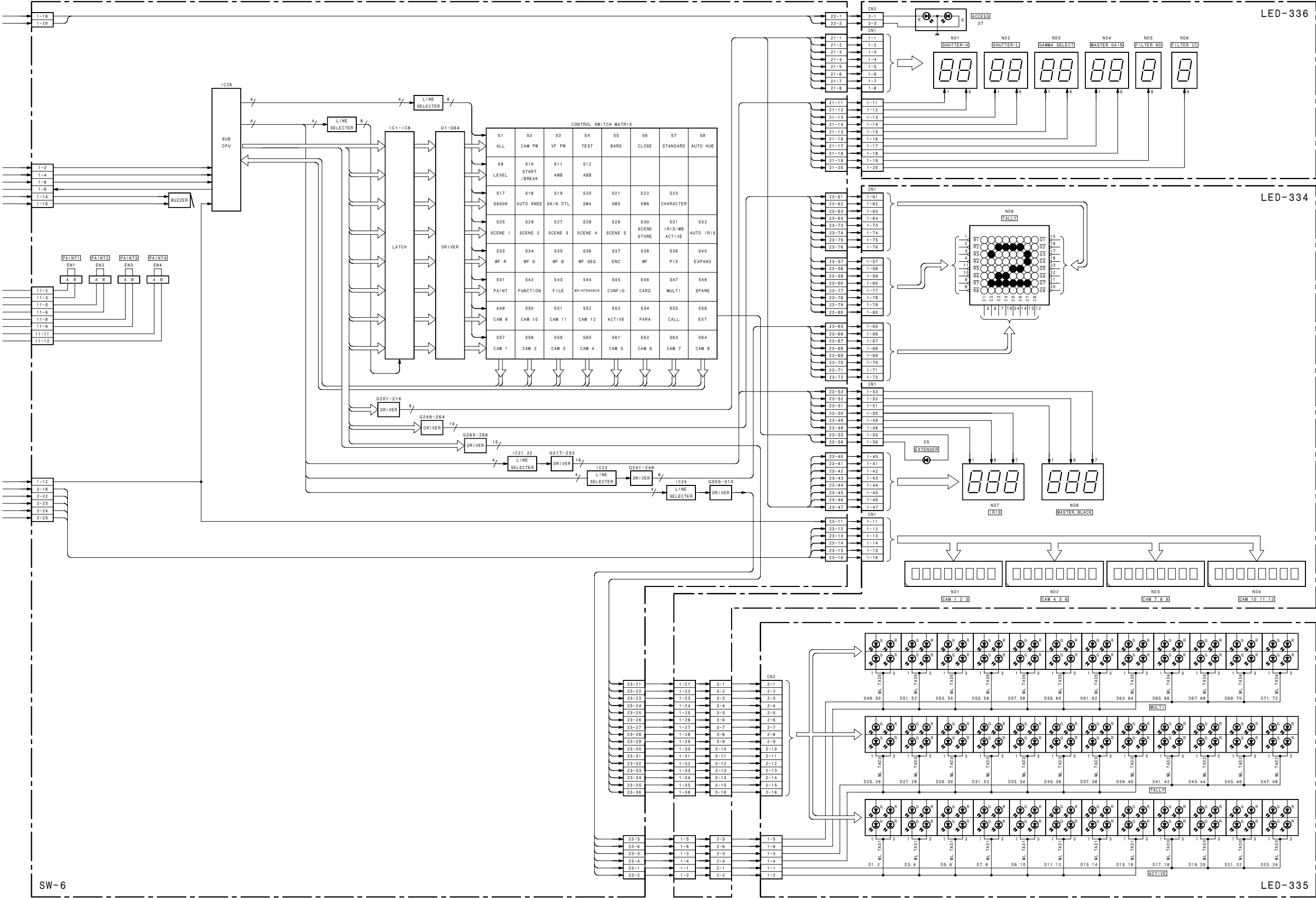
INPUTS/OUTPUTS
DB0 - DB7 : DATA BUS

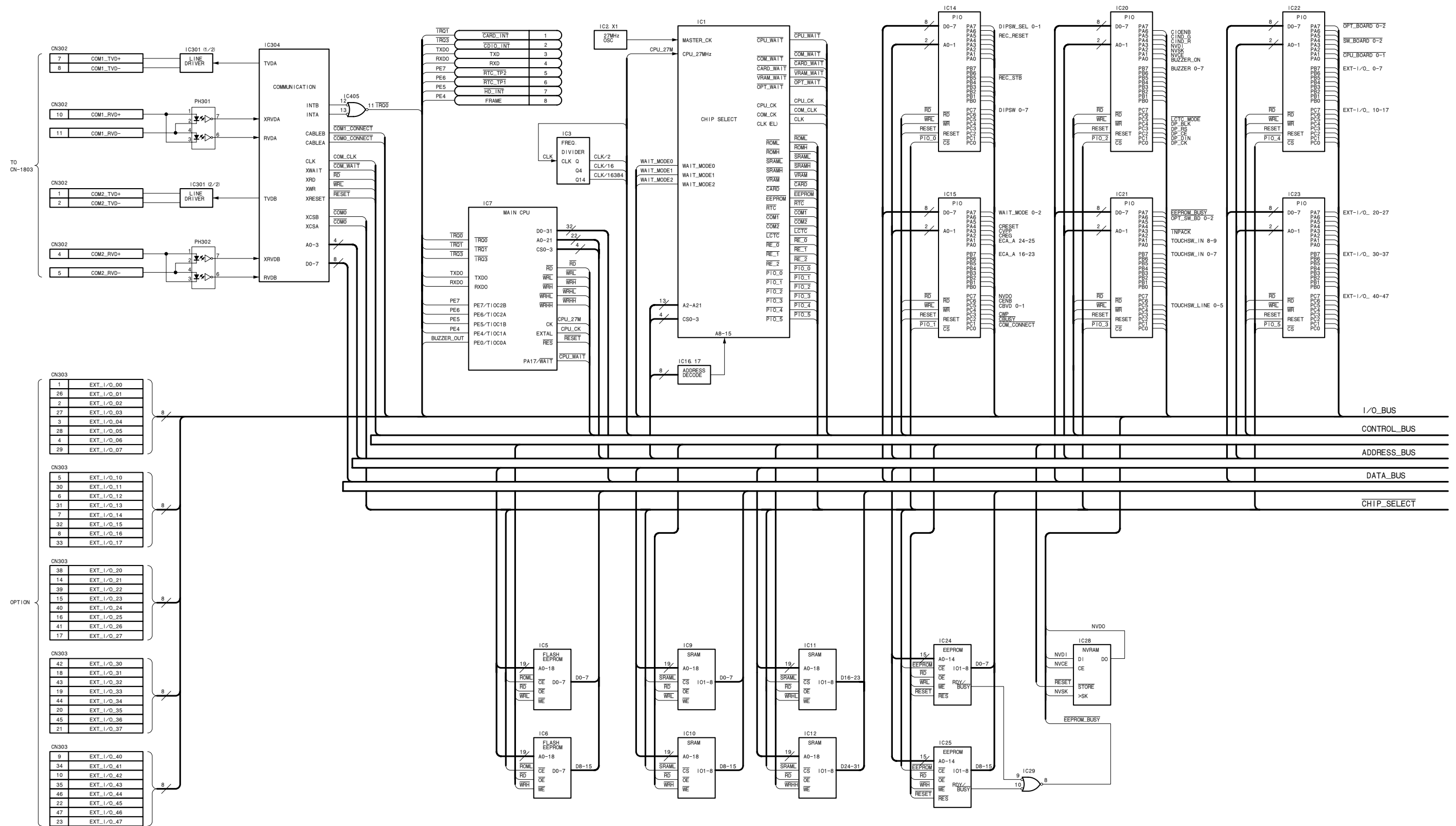


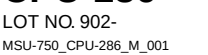
Section 4
Block Diagrams

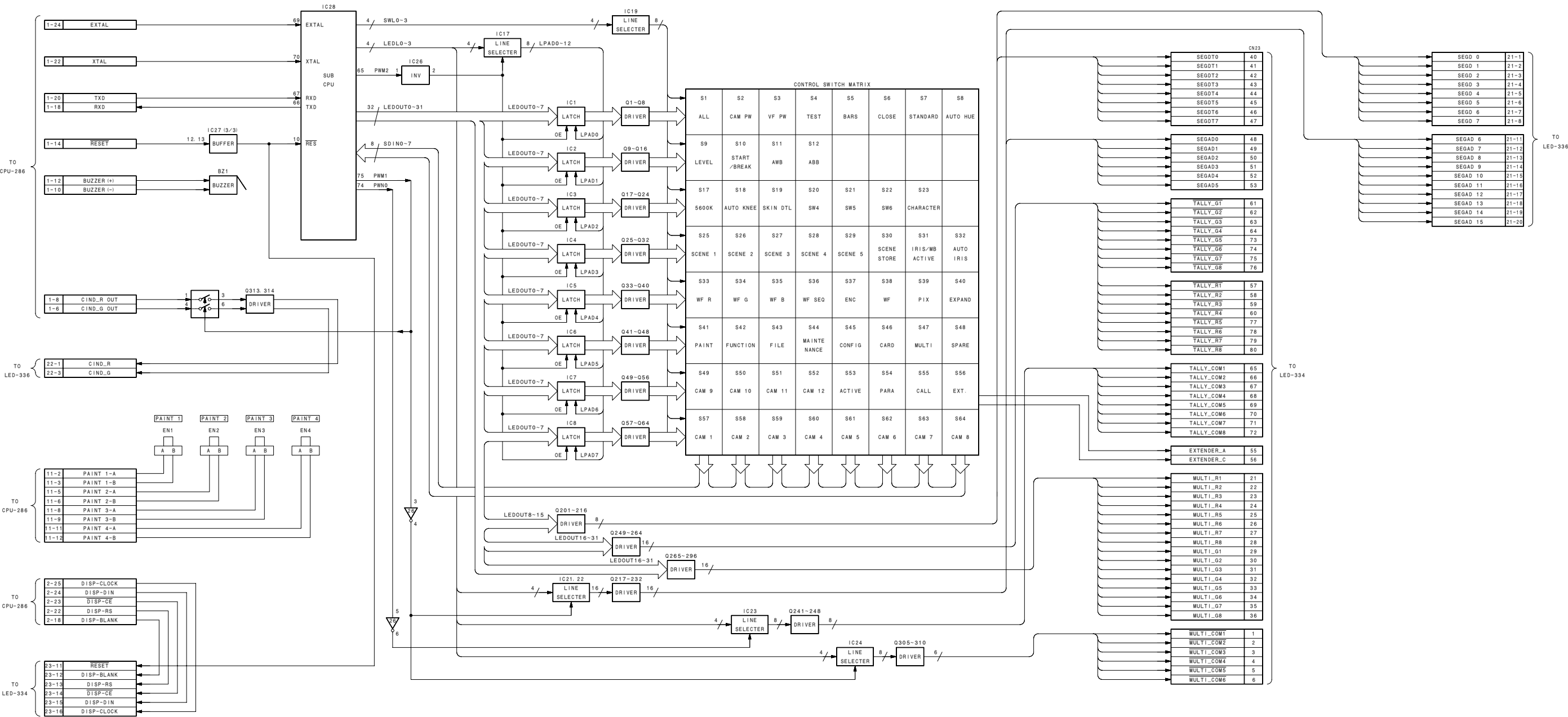
Index	Page
C. CPU-286	4-4
S. SW-6	4-6
Overall Block	4-2











Section 5

Schematic Diagrams

Index	Page
C. CPU-286	5-2
S. SW-6	5-15
Frame Wiring	5-20

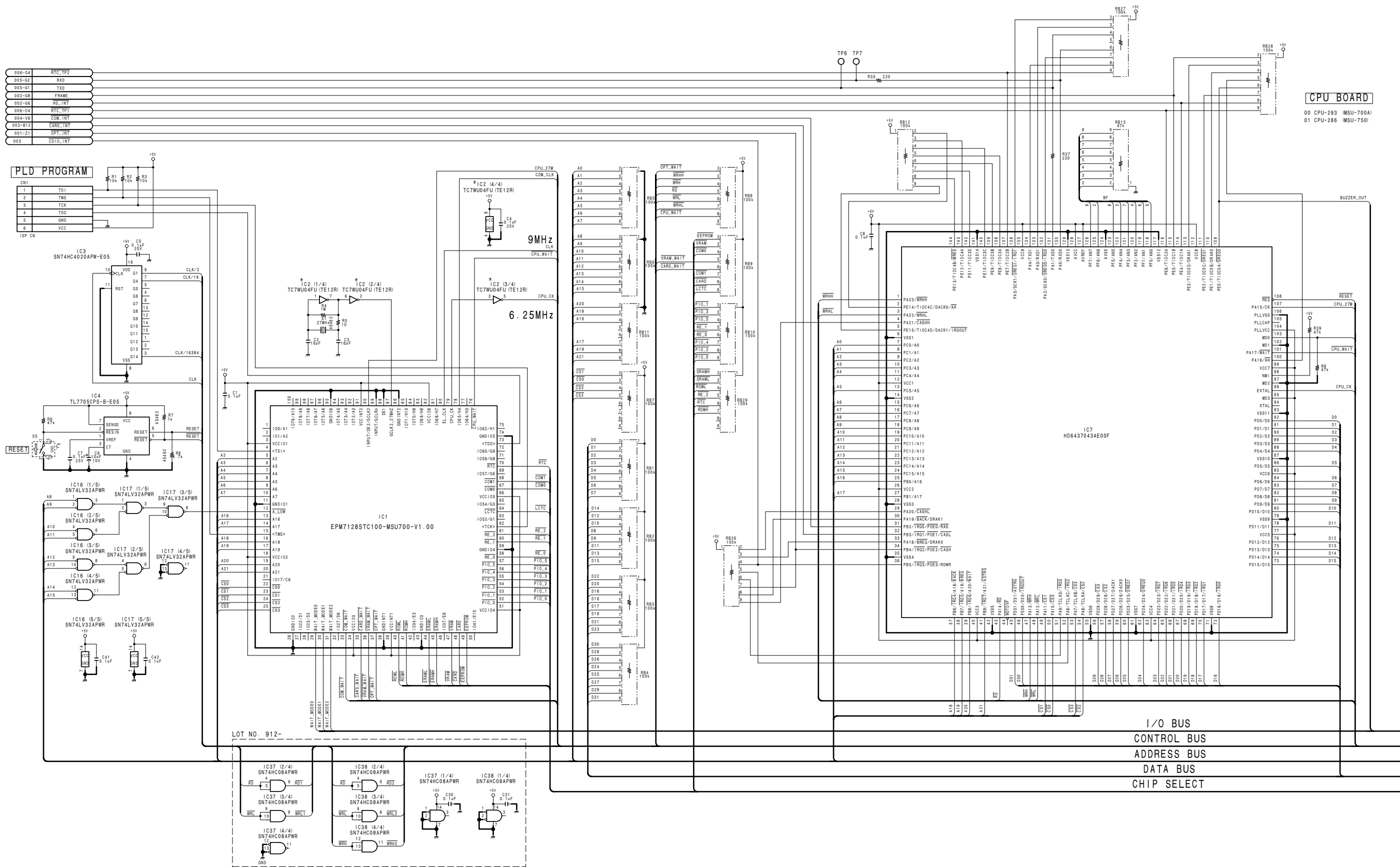
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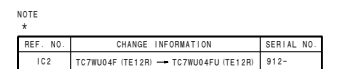
2

3

4

5





MSU-750 MMP2

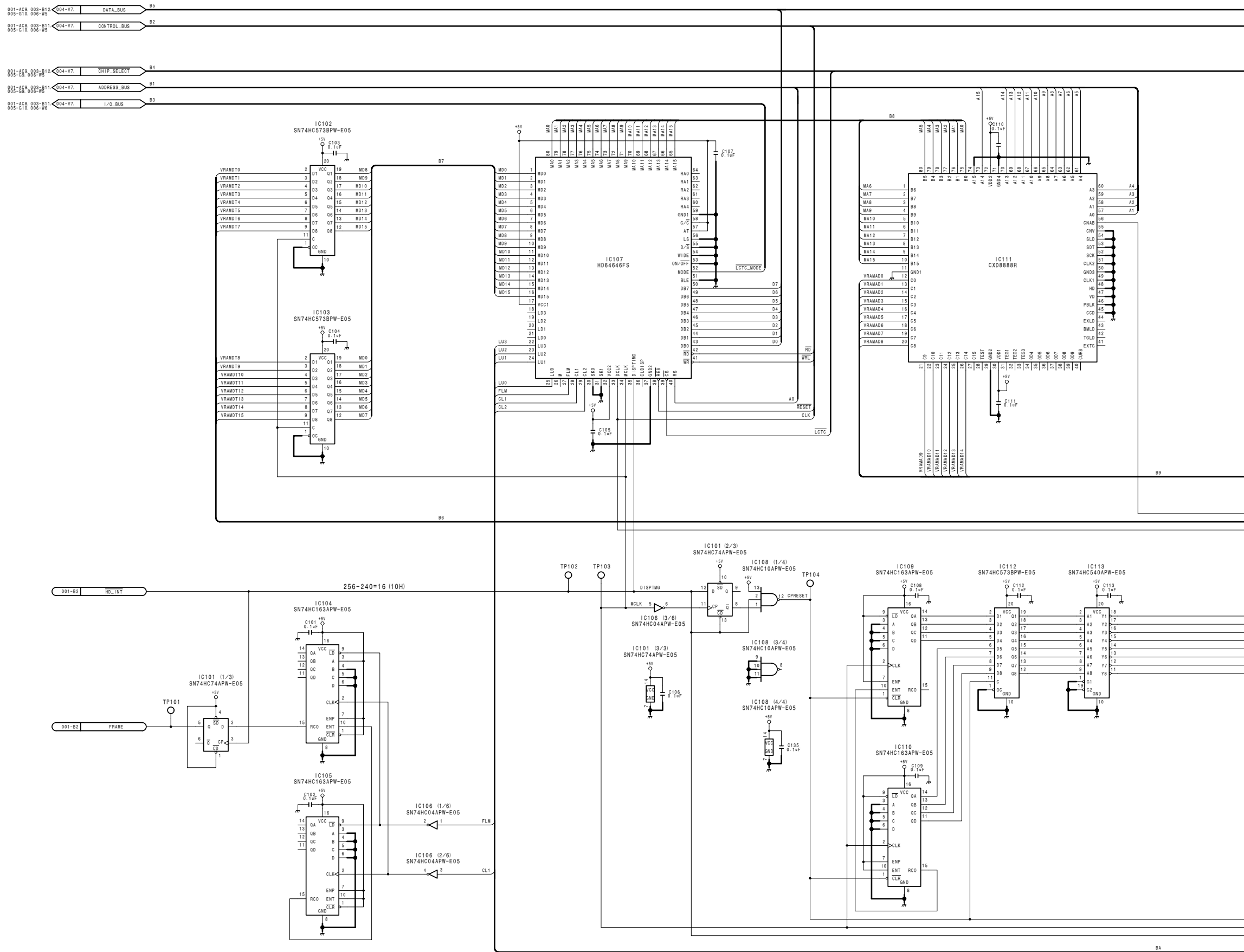
1

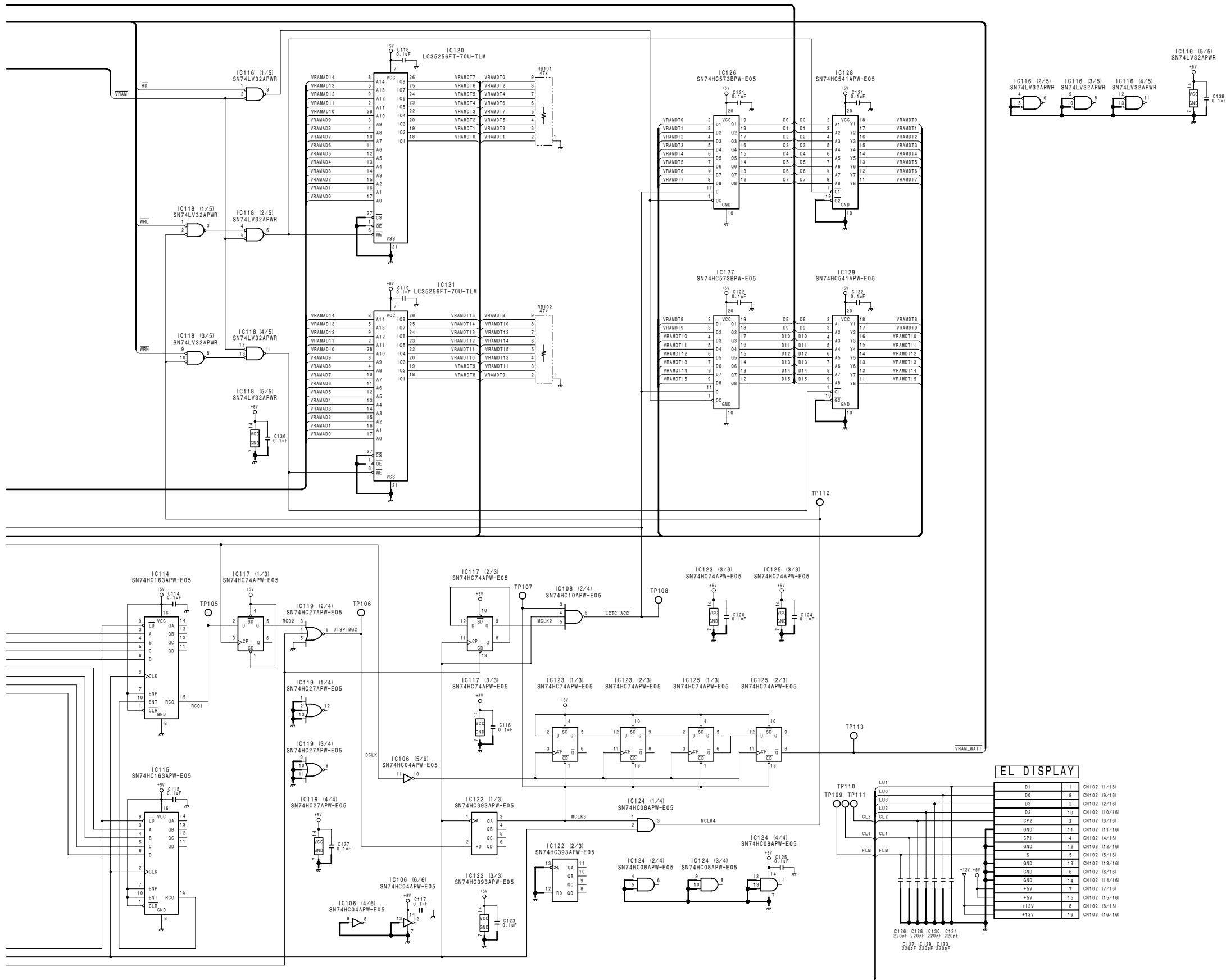
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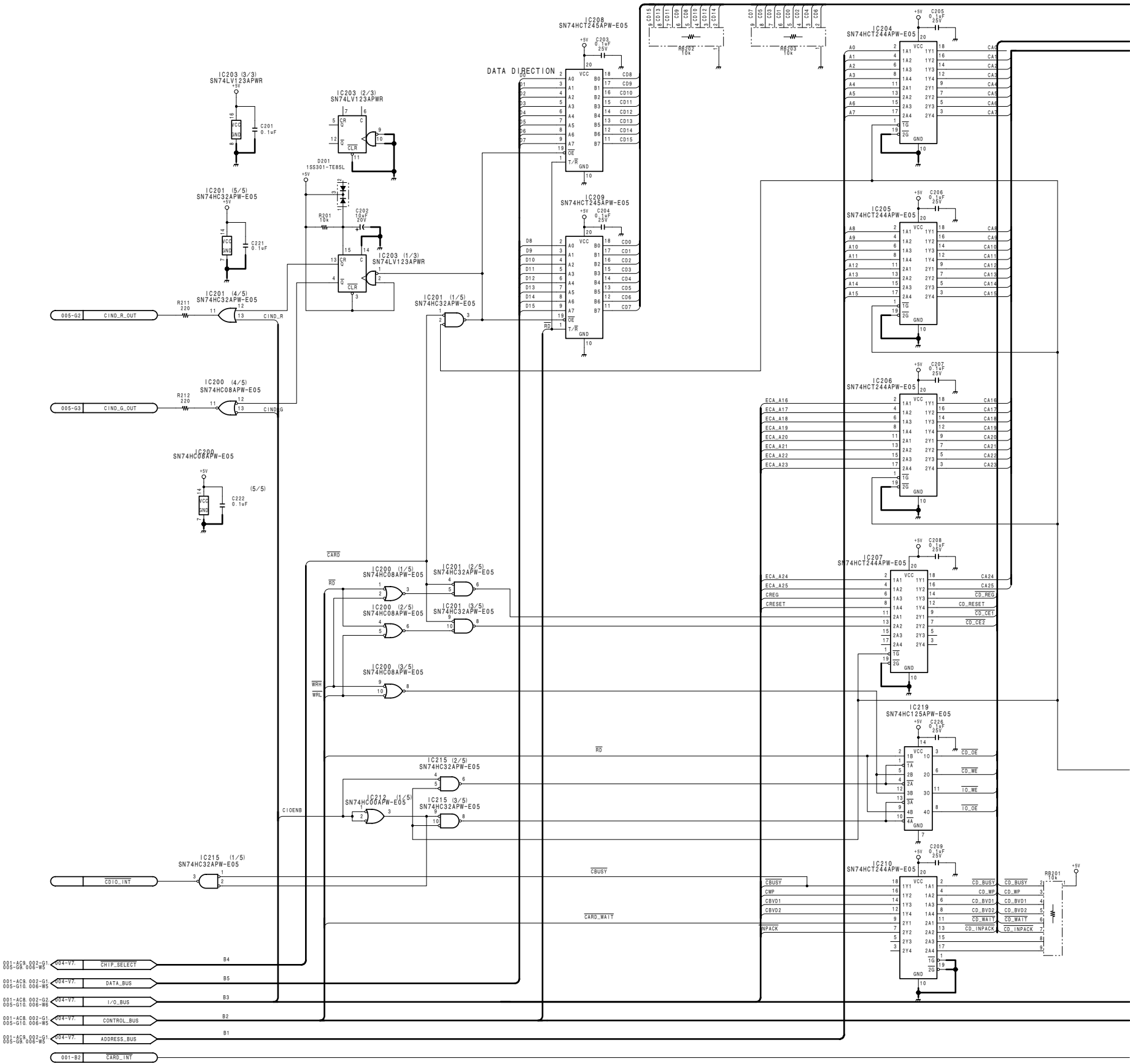
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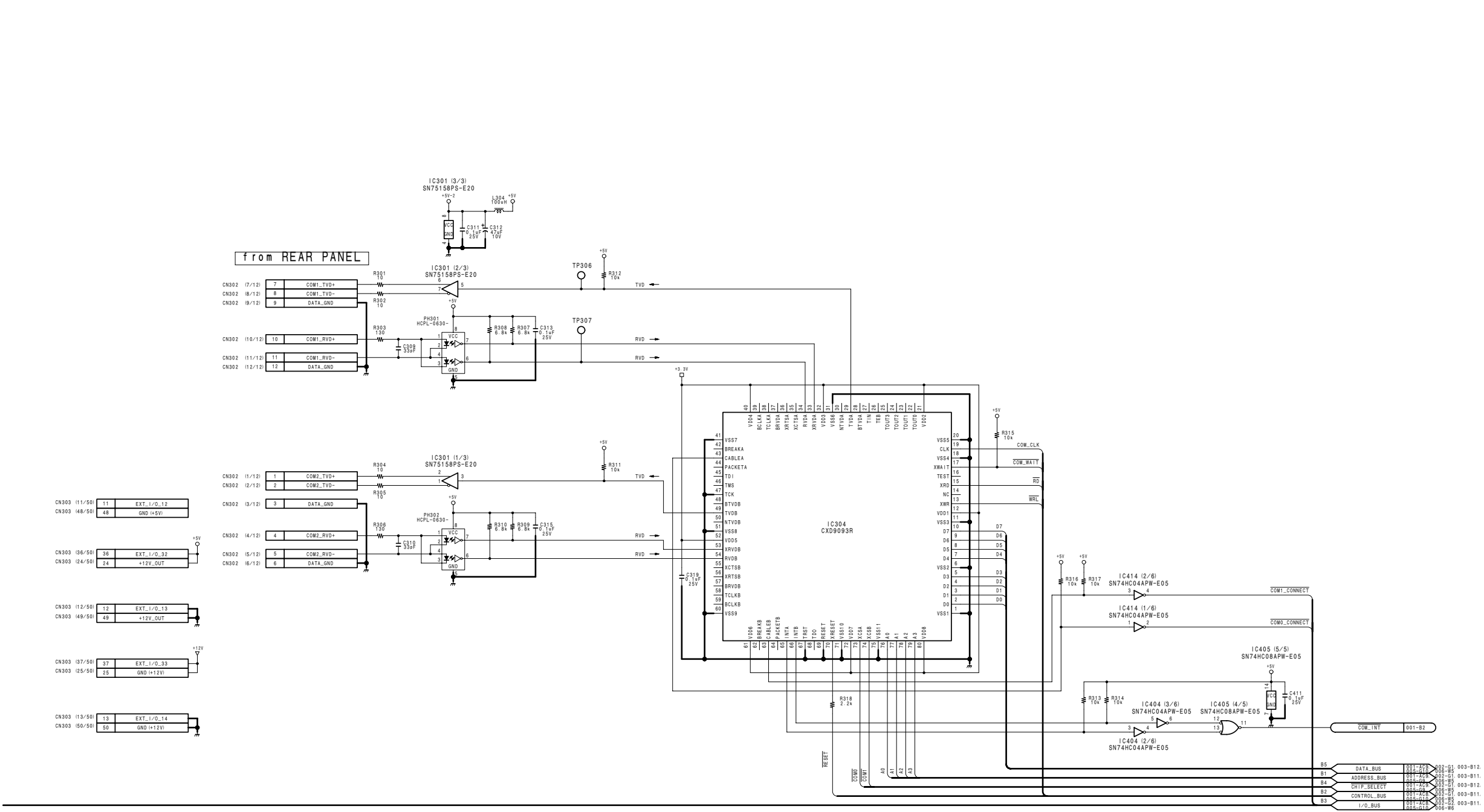
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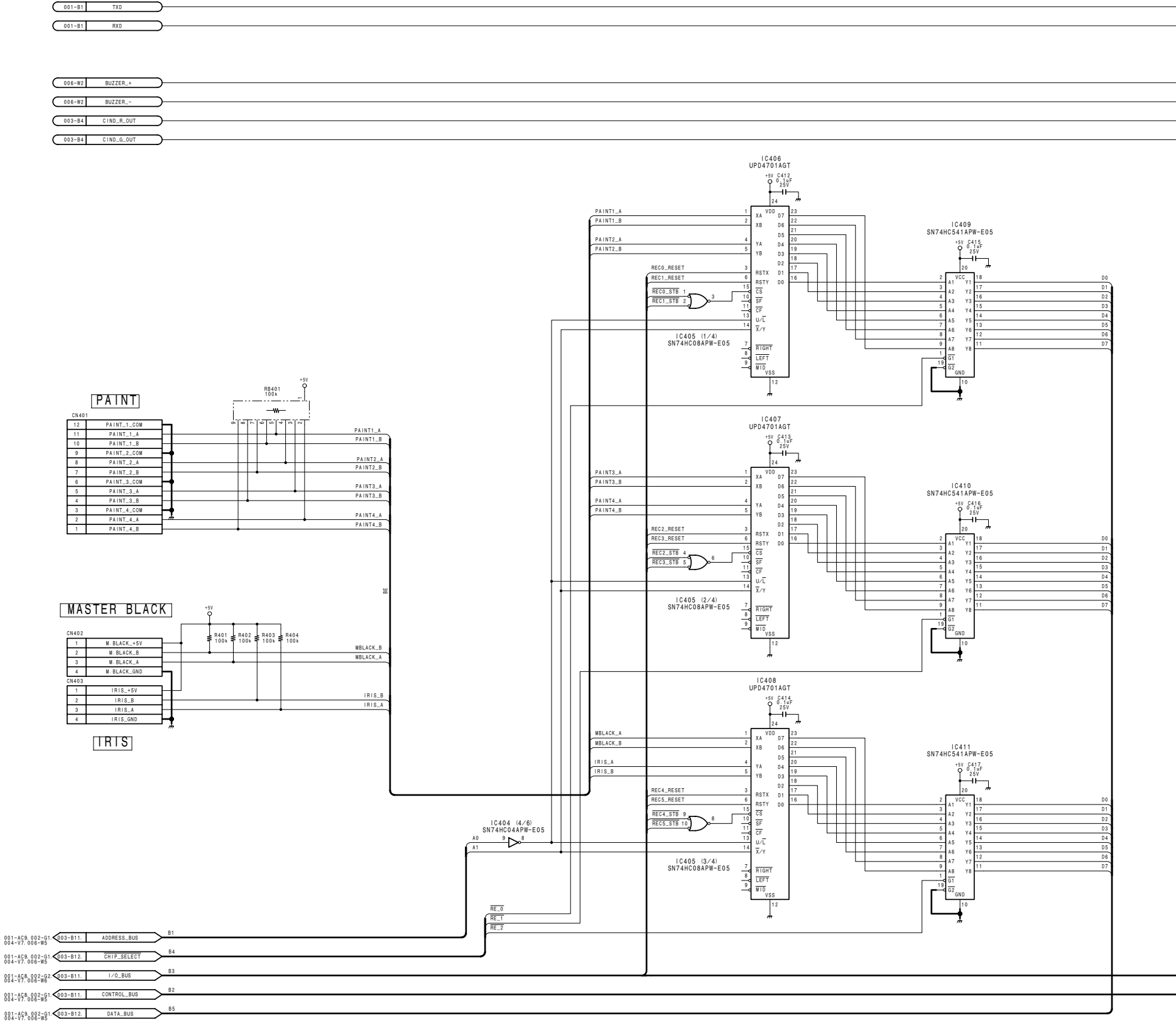














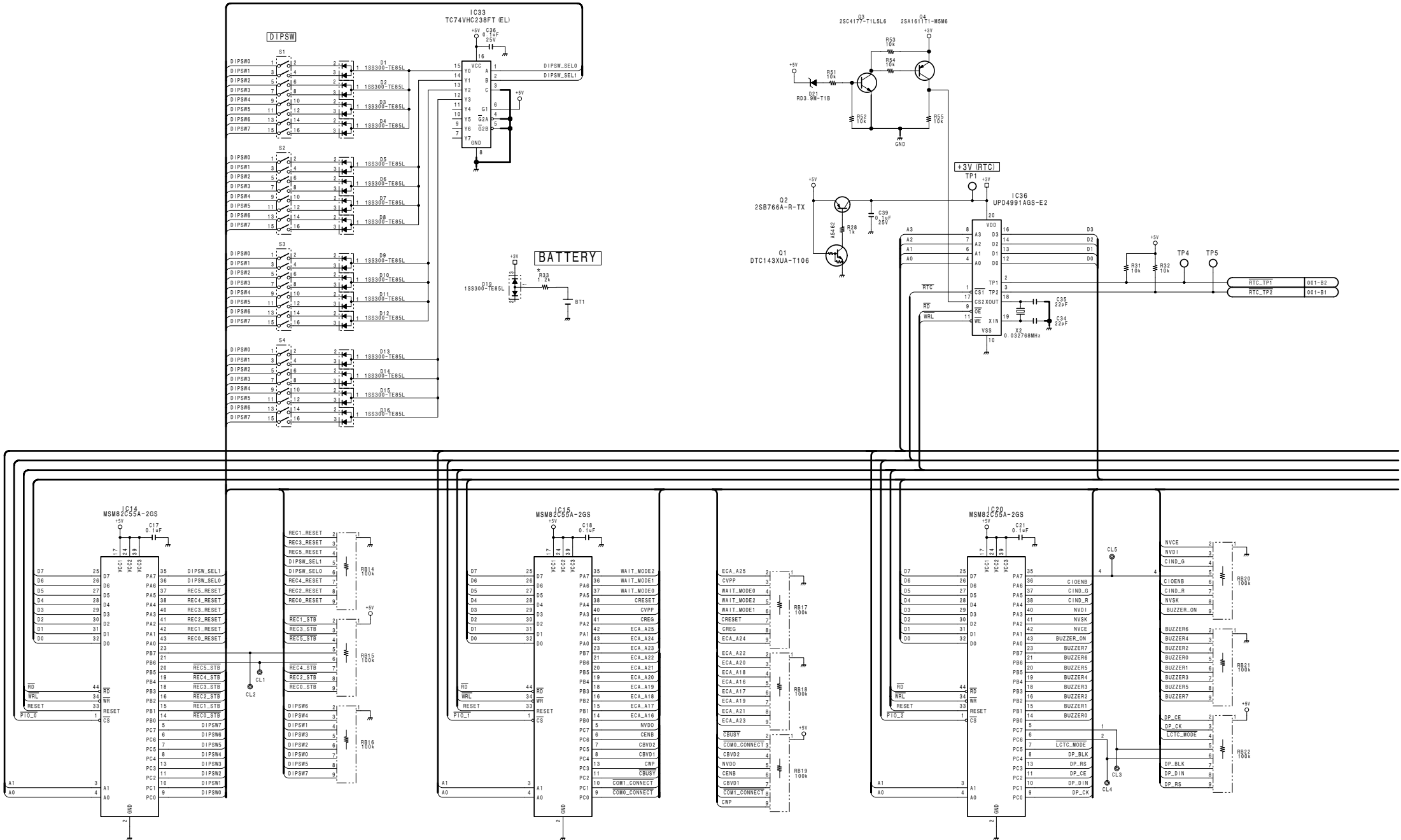
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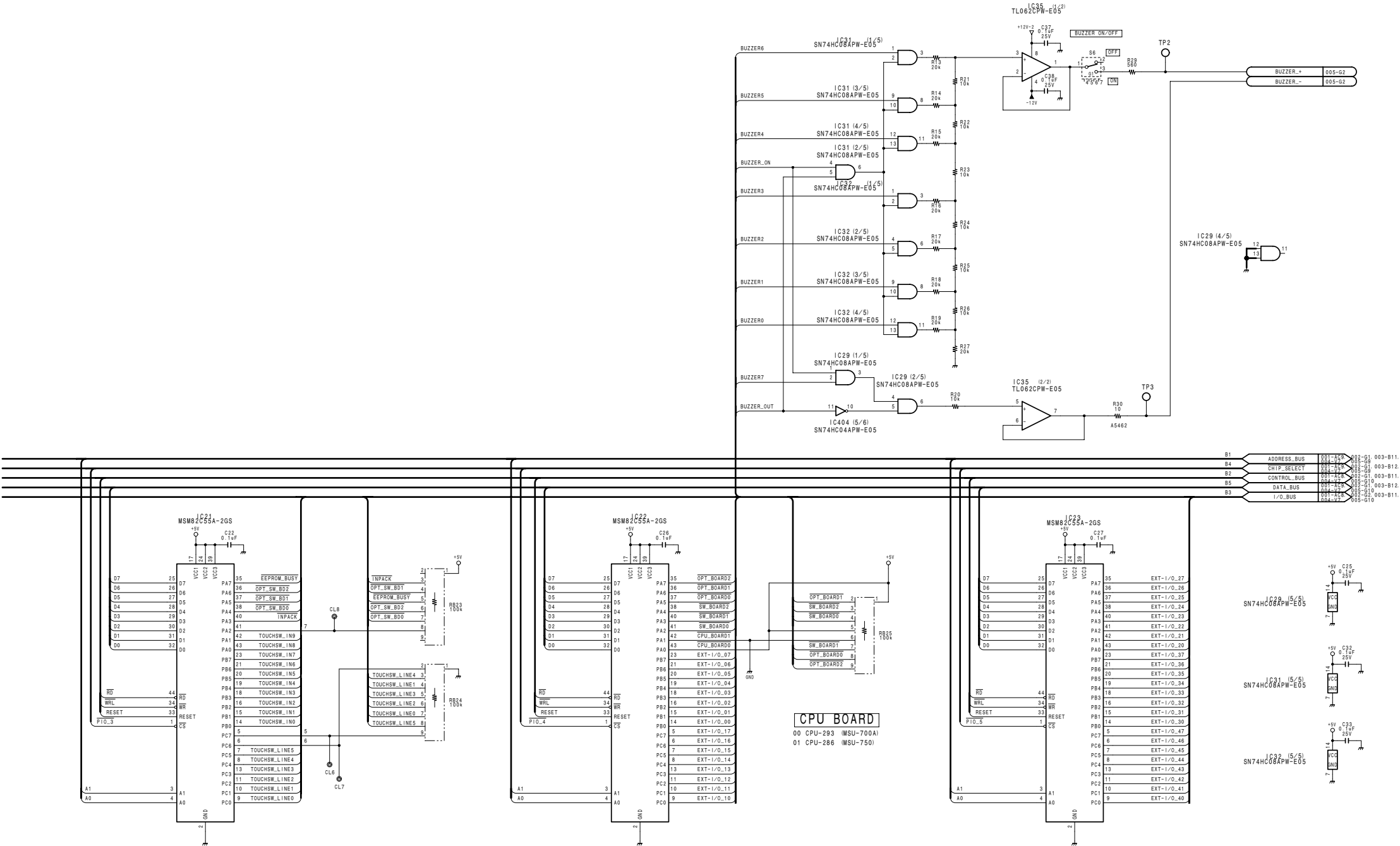
2

3

4

5





NOTE

REF. NO.	CHANGE INFORMATION	SERIAL NO.
R33	1. 2k ADD	912~

CPU-286 (6/6)
BOARD NO. 1-674-343-11, 12
LOT NO. 902-
MSU-750_CPU-286_003



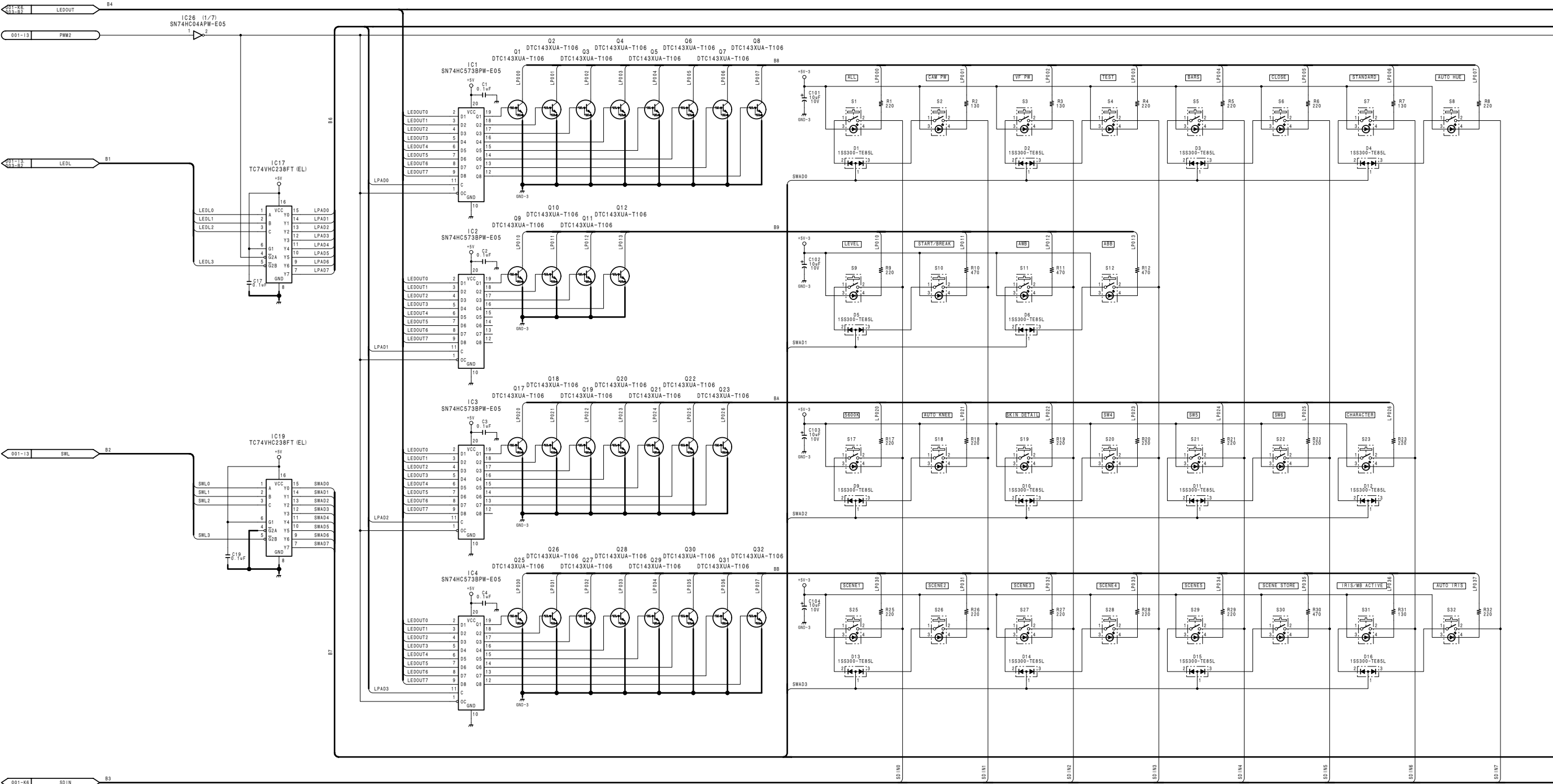
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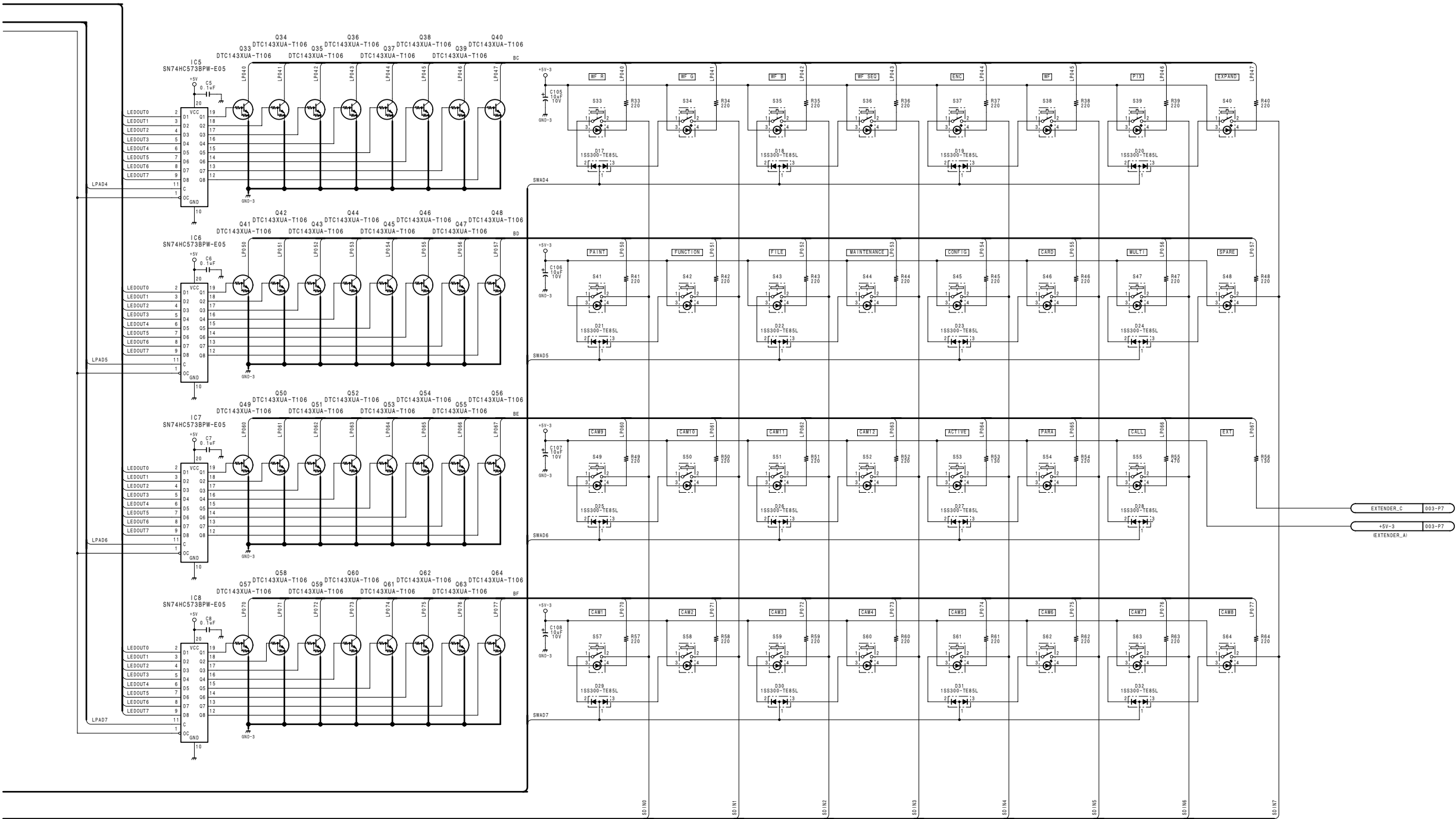
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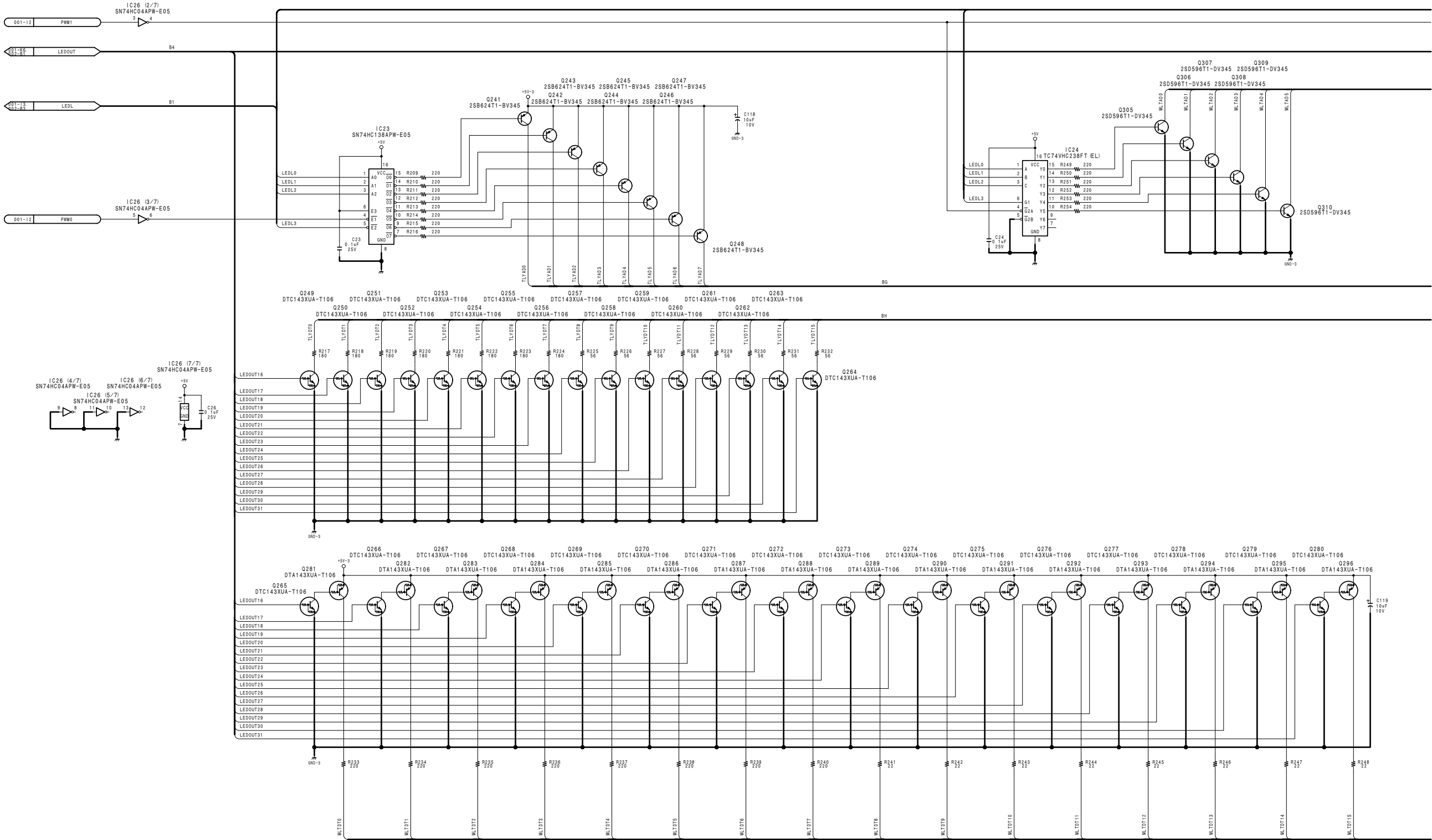
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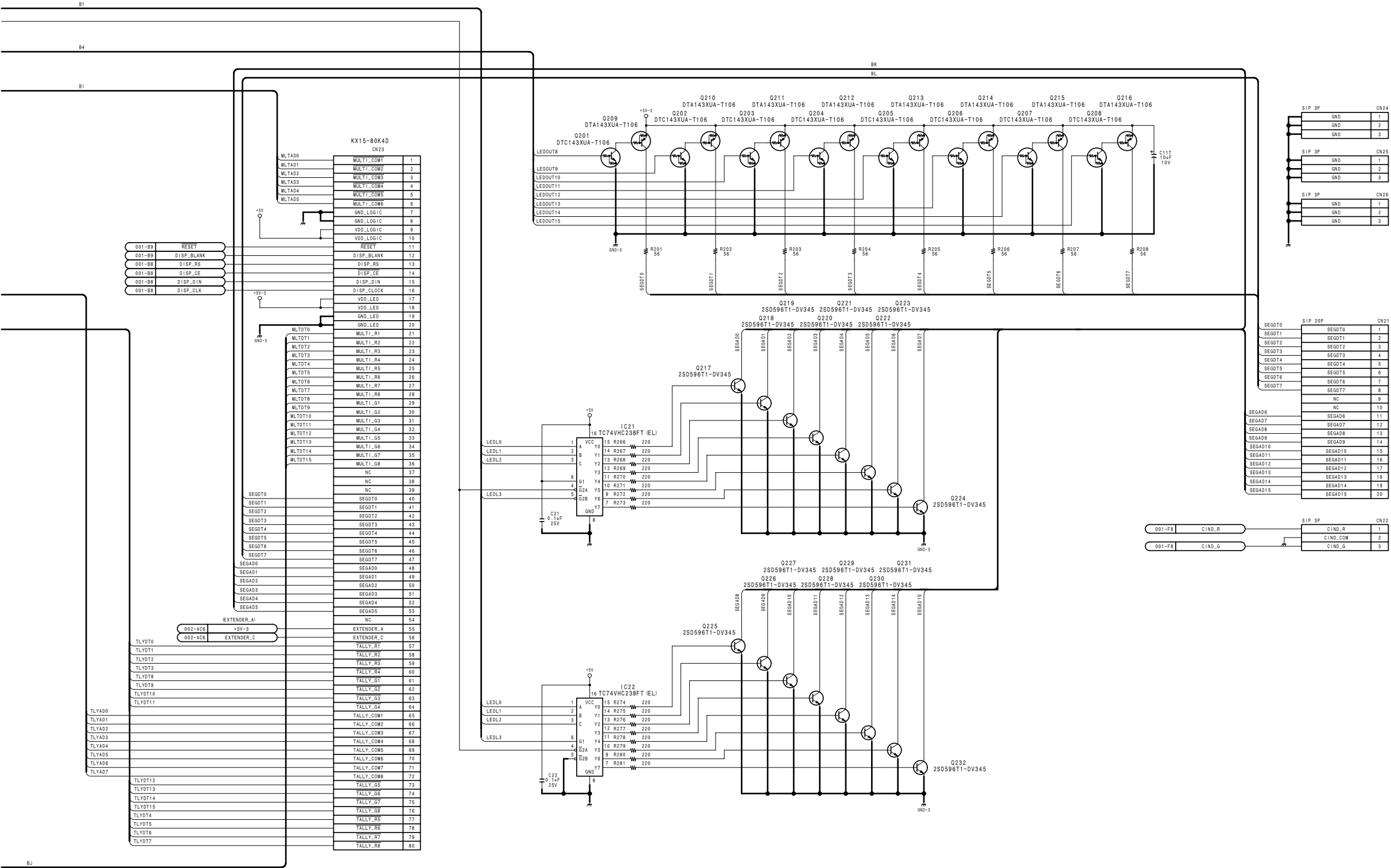
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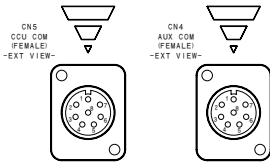
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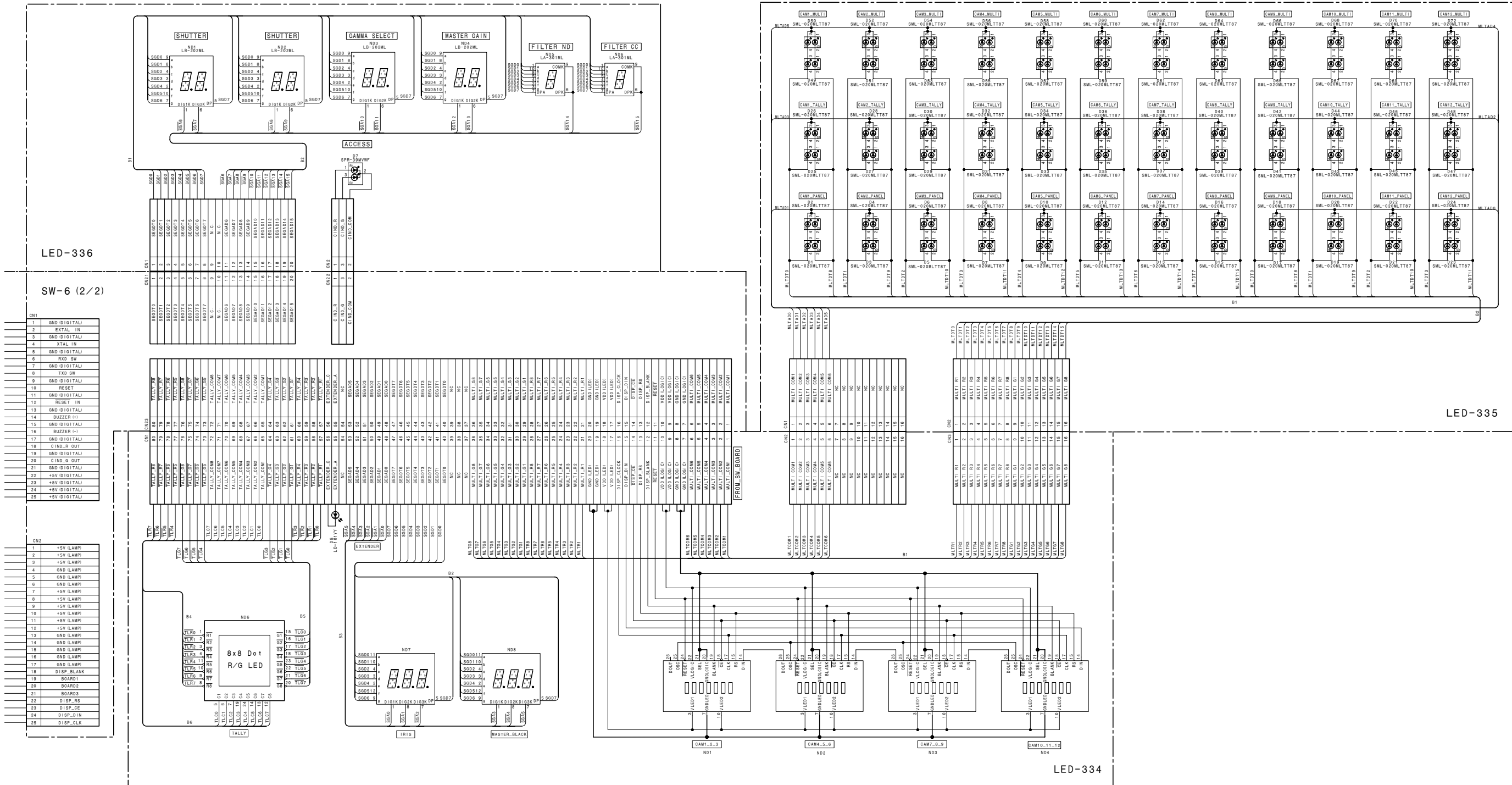












Section 6

Board Layouts

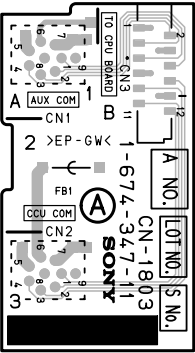
Index	Page
C. CN-1803	6-1
CN-1807	6-1
CPU-286	6-2
L. LED-334	6-4
LED-335	6-5
LED-336	6-5
S. SW-6	6-6

CN-1803(1-674-347-11)

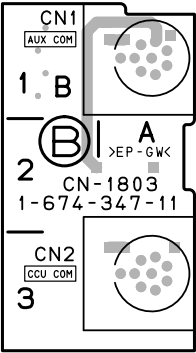
CN1 *A1
CN2 *A3
CN3 B1

FB1 A2

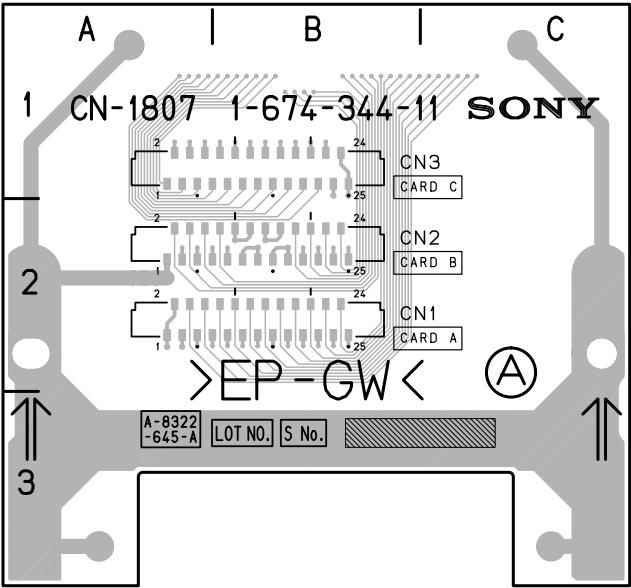
*:B SIDE



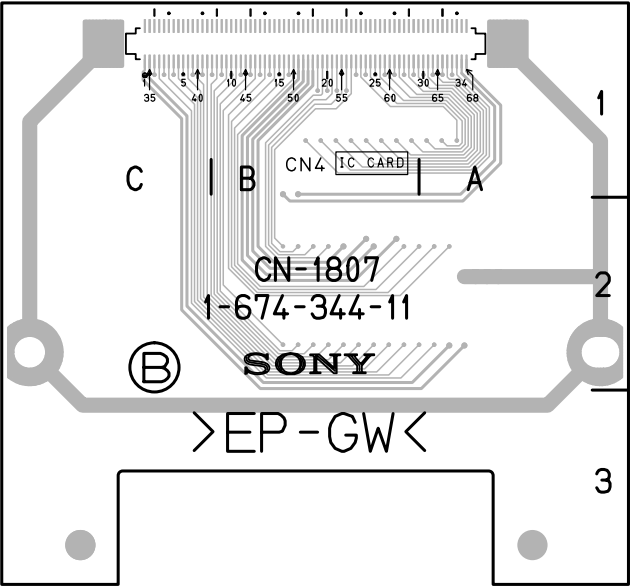
CN-1803 -A SIDE-
SUFFIX: -11



CN-1803 -B SIDE-
SUFFIX: -11



CN-1807 -A SIDE-
SUFFIX: -11



CN-1807 -B SIDE-
SUFFIX: -11

CN-1807(1-674-344-11)

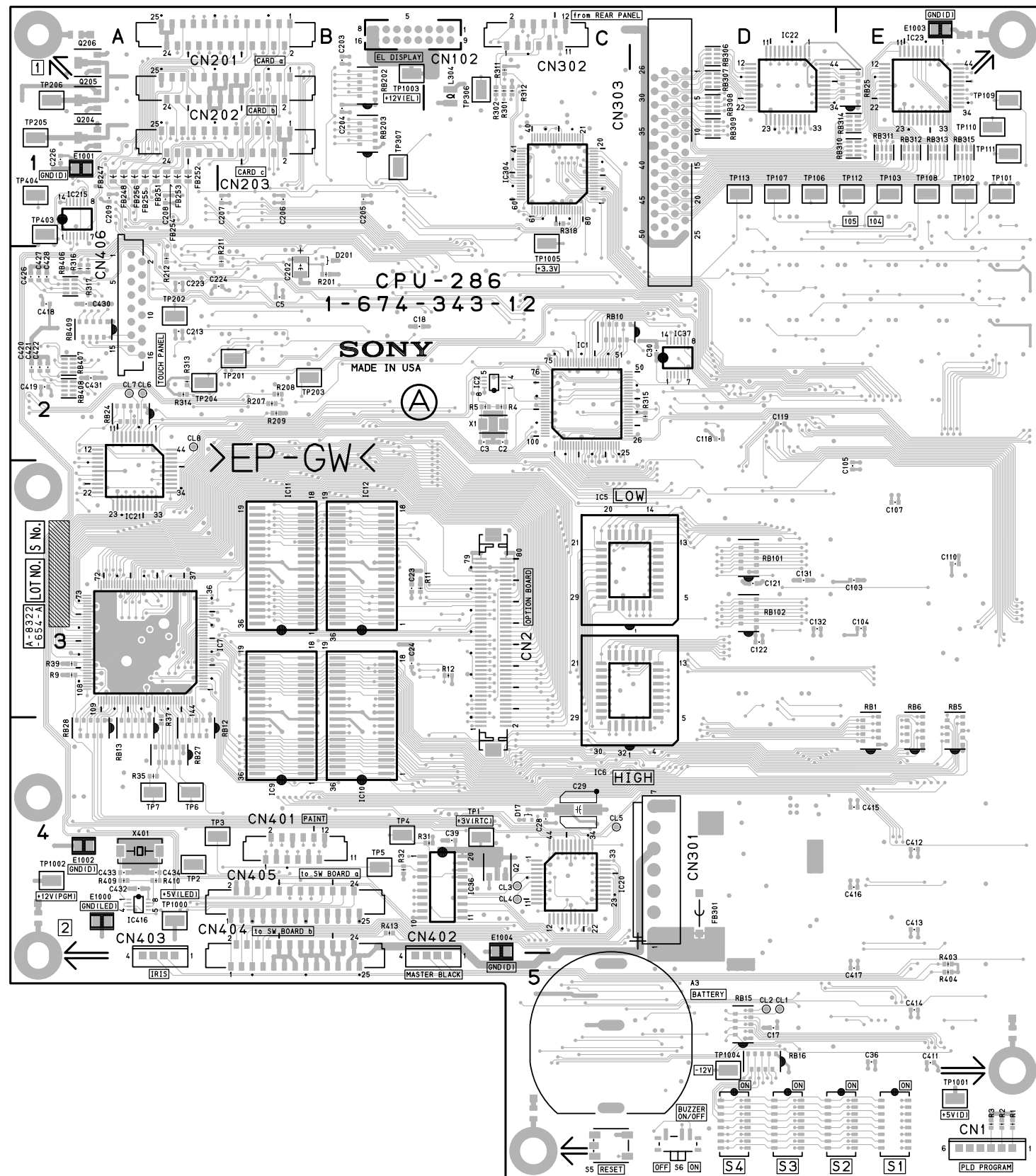
CN1 B2
CN2 B2
CN3 B1
CN4 *B1

*:B SIDE

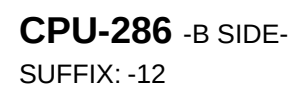
CPU-286

CPU-286(1-674-343-12)

B1	C5	C216	*A1	D12	*D5	IC23	E1	Q202	*A1	RB2	*D3	TP404	A1
		C217	*A1	D13	*D5	IC24	*B3	Q203	*A1	RB3	*A3	TP1000	A4
C1	*C2	C218	*A2	D14	*D5	IC25	*B3	Q204	A1	RB4	*A3	TP1001	E5
C2	C2	C219	*A2	D15	*D5	IC28	*C4	Q205	A1	RB5	E4	TP1002	A4
C3	C2	C220	*B2	D16	*D5	IC29	*C4	Q206	A1	RB6	E4	TP1003	B1
C4	*C2	C221	*B1	D17	C4	IC31	*D5			RB7	*A3	TP1004	D5
C5	B2	C222	*A1	D19	*C5	IC32	*D5	R1	E5	RB8	*C3	TP1005	C1
C6	*A4	C223	A2	D21	*C4	IC33	*E5	R2	E5	RB9	*C2		
C7	*A4	C224	B2	D201	B2	IC35	*D5	R3	E5	RB10	C2	X1	C2
C8	*A3	C225	*B2			IC36	B4	R4	C2	RB11	*C2	X2	*C4
C9	*C3	C226	A1	E1000	A4	IC37	D2	R5	C2	RB12	A4	X401	A4
C10	*C3	C227	*A1	E1001	A1	IC38	*B3	R6	*A4	RB13	A4		
C11	*B4	C301	*D4	E1002	A4	IC101	*E1	R7	*A4	RB14	*D5	*:B	SIDE
C12	*B4	C302	*D4	E1003	E1	IC102	*D3	R8	*A4	RB15	D5		
C13	*B3	C303	*D4	E1004	C4	IC103	*D3	R9	A3	RB16	D5		
C14	*B3	C304	*D4			IC104	*E2	R11	B3	RB17	*B2		
C17	D5	C305	*D4	FB201	*A1	IC105	*E2	R12	C3	RB18	*C2		
C18	B2	C306	*D4	FB202	*A1	IC106	*E1	R13	*D5	RB19	*C2		
C21	*C4	C307	*D4	FB203	*A1	IC107	*E2	R14	*D5	RB20	*C4		
C22	*A3	C308	*D4	FB204	*A1	IC108	*E1	R15	*D5	RB21	*C4		
C23	B3	C309	*C1	FB205	*B1	IC109	*E2	R16	*D5	RB22	*C4		
C24	B3	C310	*C1	FB206	*A1	IC110	*E2	R17	*D5	RB23	*A3		
C25	*C4	C311	*C1	FB207	*B1	IC111	*E3	R18	*D5	RB24	A2		
C26	*D1	C312	*C1	FB208	*A1	IC112	*E2	R19	*D5	RB25	E1		
C27	*E1	C313	*C1	FB209	*B1	IC113	*E2	R20	*D5	RB26	*A3		
C28	C4	C315	*C1	FB210	*B1	IC114	*E2	R21	*D5	RB27	A4		
C29	C4	C316	*D4	FB211	*B1	IC115	*E2	R22	*D5	RB28	A4		
C30	D2	C317	*D4	FB212	*B1	IC116	*D2	R23	*D5	RB29	*C2		
C31	*A3	C318	*D4	FB213	*B1	IC117	*D2	R24	*D5	RB101	D3		
C32	*D5	C319	*C1	FB214	*A1	IC118	*D2	R25	*D5	RB102	D3		
C33	*D5	C320	*D4	FB215	*A1	IC119	*D2	R26	*D5	RB201	*A1		
C34	*C4	C411	E5	FB216	*B1	IC120	*D2	R27	*D5	RB202	B1		
C35	*C4	C412	E4	FB217	*B1	IC121	*D2	R28	*C4	RB203	B1		
C36	E5	C413	E4	FB218	*B1	IC122	*D2	R29	*D5	RB301	*C1		
C37	*D5	C414	E5	FB219	*B1	IC123	*D2	R30	*D5	RB302	*C1		
C38	*D5	C415	E4	FB220	*B1	IC124	*D1	R31	C4	RB303	*C1		
C39	C4	C416	E4	FB221	*B1	IC125	*D1	R32	B4	RB304	*C1		
C41	*D3	C417	E5	FB222	*B1	IC126	*D3	R33	*C5	RB305	*C1		
C42	*D3	C418	A2	FB223	*B1	IC127	*D3	R35	A4	RB306	D1		
C101	*E2	C419	A2	FB224	*B1	IC128	*D3	R37	A4	RB307	D1		
C102	*E2	C420	A2	FB225	*B1	IC129	*D3	R39	A3	RB308	D1		
C103	E3	C421	A2	FB226	*B1	IC200	*A2	R41	*C4	RB309	D1		
C104	E3	C422	A2	FB227	*B1	IC201	*B2	R51	*C4	RB310	E1		
C105	E3	C423	*A2	FB228	*B1	IC203	*B2	R52	*C4	RB311	E1		
C106	*E1	C424	*A2	FB229	*A1	IC204	*B1	R53	*C4	RB312	E1		
C107	E3	C425	*A2	FB230	*A1	IC205	*B1	R54	*C4	RB313	E1		
C108	*E2	C426	A2	FB231	*A1	IC206	*B1	R55	*C4	RB314	E1		
C109	*E2	C427	A2	FB232	*B1	IC207	*A1	R201	B2	RB315	E1		
C110	E3	C428	A2	FB233	*B1	IC208	*B1	R202	*A1	RB401	*B4		
C111	*E3	C429	*A2	FB234	*A1	IC209	*B1	R203	*A1	RB404	*A2		
C112	*E2	C430	A2	FB235	*A1	IC210	*A1	R204	*A1	RB405	*A2		
C113	*E2	C431	A2	FB236	*A1	IC211	*B2	R205	*A1	RB406	A2		
C114	*E2	C432	A4	FB237	*A1	IC212	*B2	R206	*A1	RB407	A2		
C115	*E2	C433	A4	FB238	*B1	IC213	*B2	R207	B2	RB408	A2		
C116	*D2	C434	A4	FB239	*B1	IC214	*B2	R208	B2	RB409	A2		
C117	*E1			FB240	*B1	IC215	A1	R209	B2				
C118	D2	CL1	D5	FB241	*B1	IC216	*A2	R210	*B2	S1	E5		
C119	D2	CL2	D5	FB242	*A1	IC217	*A2	R211	B2	S2	E5		
C120	*D2	CL3	C4	FB243	*A1	IC218	*B2	R212	A2	S3	D5		
C121	D3	CL4	C4	FB244	*B1	IC219	*A1	R301	C1	S4	D5		
C122	D3	CL5	C4	FB245	*B1	IC301	*C1	R302	C1	S5	C5		
C123	*D2	CL6	A2	FB246	*B1	IC302	*D4	R303	*C1	S6	D5		
C124	*D1	CL7	A2	FB247	A1	IC304	C1	R304	*C1				
C125	*D1	CL8	A2	FB248	A1	IC404	*A2	R305	*C1	TP1	C4		
C126	*E1			FB249	*A1	IC405	*E5	R306	*C1	TP2	A4		
C127	*E1	CN1	E5	FB250	*A1	IC406	*E4	R307	*C1	TP3	A4		
C128	*E1	CN2	C3	FB251	A1	IC407	*E4	R308	*C1	TP4	B4		
C129	*E1	CN102	B1	FB252	A1	IC408	*E4	R309	*C1	TP5	B4		
C130	*E1	CN201	B1	FB253	A1	IC409	*E4	R310	*C1	TP6	A4		
C131	D3	CN202	B1	FB254	A1	IC410	*E4	R311	C1	TP7	A4		
C132	D3	CN203	B1	FB255	A1	IC411	*E5	R312	C1	TP101	E1		
C133	*E1	CN301	D4	FB256	A1	IC412	*A2	R313	A2	TP102	E1		
C134	*E1	CN302	C1	FB301	D4	IC413	*A2	R314	A2	TP103	E1		
C135	*E1	CN303	D1			IC414	*A2	R315	D2	TP104	*E1		
C136	*D2	CN401	B4	IC1	C2	IC415	*A2	R316	A2	TP105	*E1		
C137	*D2	CN402	C5	IC2	C2	IC416	A4	R317	A2	TP106	D1		
C138	*D2	CN403	A5	IC3	*B2			R318	C1	TP107	D1		
C201	*B1	CN404	B5	IC4	*A4	L301	*D4	R401	*C4	TP108	E1		
C202	B2	CN405	B4	IC5	C3	L302	*D4	R402	*C4	TP109	E1		
C203	B1	CN406	A2	IC6	C3	L303	*D4	R403	E5	TP110	E1		
C204	B1			IC7	A3	L304	C1	R404	E5	TP111	E1		
C205	B1	D1	*E5	IC9	B4	L305	*D4	R405	*B4	TP112	E1		
C206	B1	D2	*E5	IC10	B4	L306	*D4	R406	*B4	TP113	D1		
C207	B1	D3	*E5	IC11	B3			R407	*A2	TP201	B2		
C208	A1	D4	*E5	IC12	B3	PH301	*C1	R408	*A2	TP202	A2		
C209	A1	D5	*E5	IC14	*D5	PH302	*C1	R409	A4	TP203	B2		
C210	*A2	D6	*E5	IC15	*B2			R410	A4	TP204	A2		
C211	*B2	D7	*E5	IC16	*D3	Q1	*C4	R411	*A4	TP205	A1		
C212	*B2	D8	*E5	IC17	*D3	Q2	*C4	R412	*A4	TP206	A1		
C213	A2	D9	*D5	IC20	C4	Q3	*C4	R413	B4	TP306	C1		
C214	*A1	D10	*D5	IC21	A3	Q4	*C4			TP307	B1		
C215	*A1	D11	*D5	IC22	D1	Q201	*A1	RB1	E4	TP403	A1		



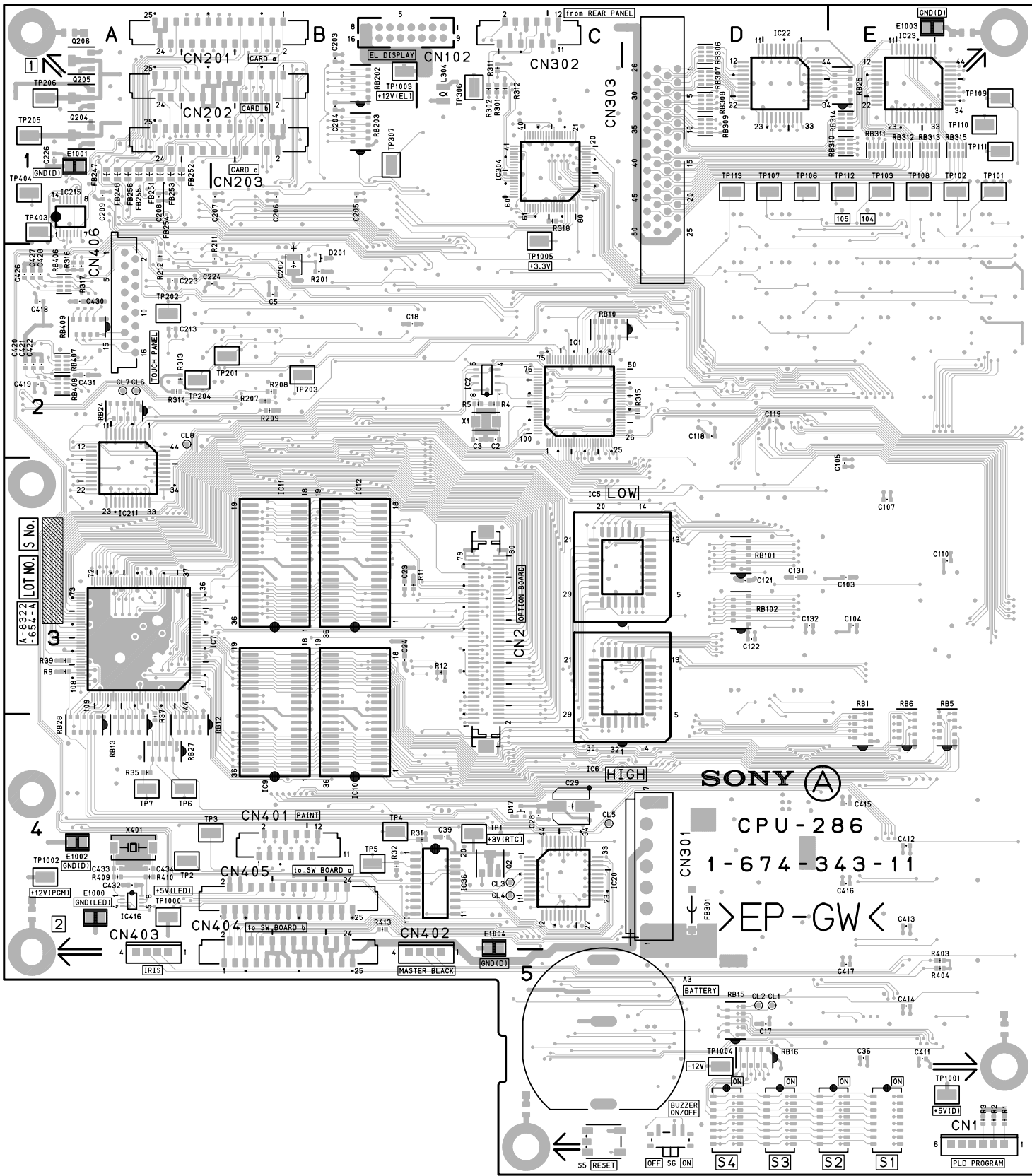
CPU-286 -A SIDE-SUFFIX: -12



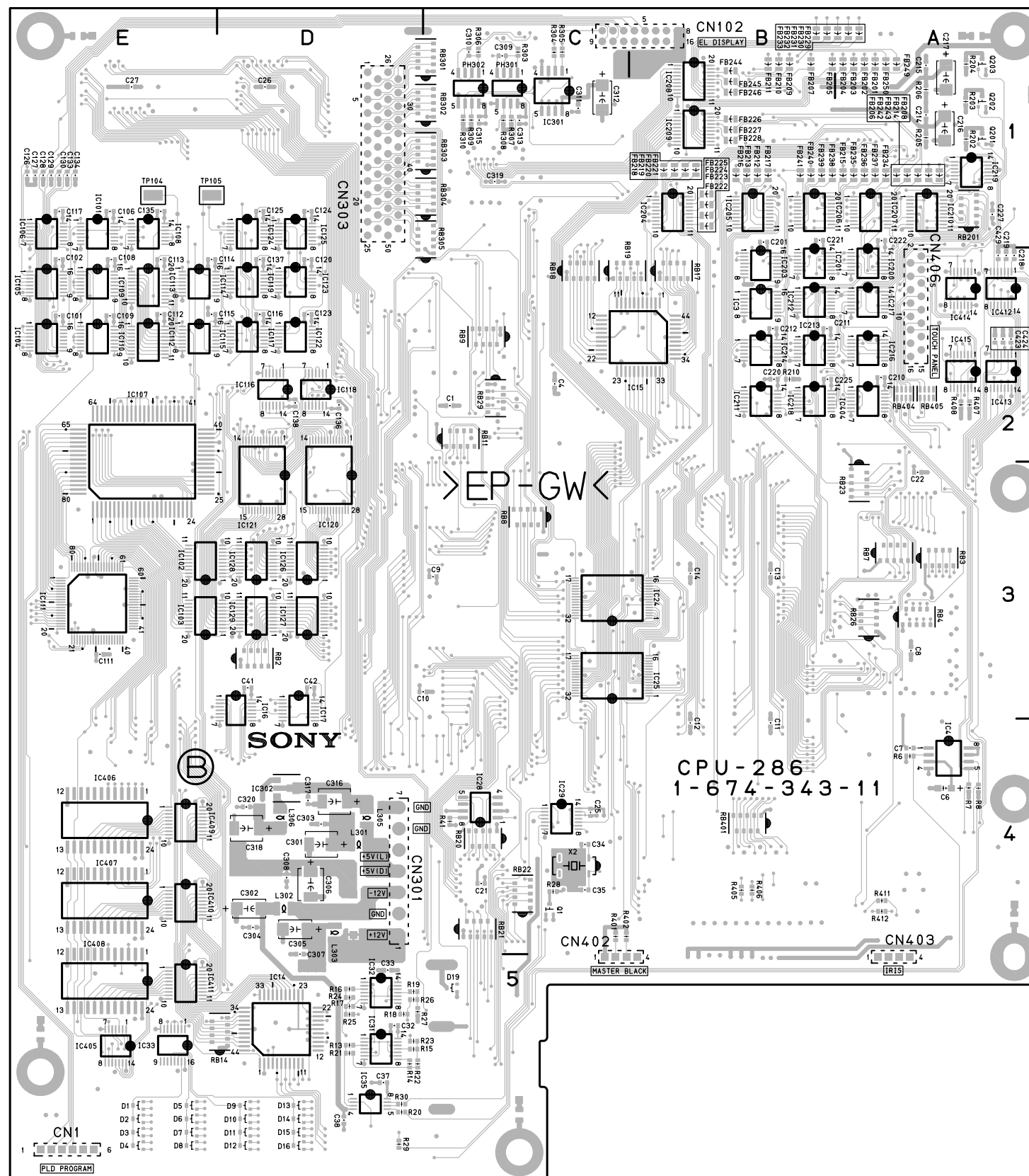
CPU-286

CPU-286(1-674-343-11)

	T1	C5	C218	A2	D14	*D5	IC28	*C4	R2	E5	RB15	D5
			C219	A2	D15	*D5	IC29	*C4	R3	E5	RB16	D5
C1		*C2	C220	*B2	D16	*D5	IC31	*D5	R4	C2	RB17	*B2
C2		C2	C221	*B1	D17	C4	IC32	*D5	R5	C2	RB18	*C2
C3		C2	C222	*A1	D19	*C5	IC33	*E5	R6	*A4	RB19	*C2
C4		*C2	C223	A2	D201	B2	IC35	*D5	R7	*A4	RB20	*C4
C5		B2	C224	B2			IC36	B4	R8	*A4	RB21	*C4
C6		*A4	C225	*B2	E1000	A4	IC101	*E1	R9	A3	RB22	*C4
C7		*A4	C226	A1	E1001	A1	IC102	*D3	R11	B3	RB23	*A3
C8		*A3	C227	*A1	E1002	A4	IC103	*D3	R12	C3	RB24	A2
C9		*C3	C301	*D4	E1003	E1	IC104	*E2	R13	*D5	RB25	E1
C10		*C3	C302	*D4	E1004	C4	IC105	*E2	R14	*D5	RB26	*A3
C11		*B4	C303	*D4			IC106	*E1	R15	*D5	RB27	A4
C12		*B4	C304	*D4	FB201	*A1	IC107	*E2	R16	*D5	RB28	A4
C13		*B3	C305	*D4	FB202	*A1	IC108	*E1	R17	*D5	RB29	*C2
C14		*B3	C306	*D4	FB203	*A1	IC109	*E2	R18	*D5	RB101	D3
C17		D5	C307	*D4	FB204	*A1	IC110	*E2	R19	*D5	RB102	D3
C18		B2	C308	*D4	FB205	*B1	IC111	*E3	R20	*D5	RB201	*A1
C21		*C4	C309	*C1	FB206	*A1	IC112	*E2	R21	*D5	RB202	B1
C22		*A3	C310	*C1	FB207	*B1	IC113	*E2	R22	*D5	RB203	B1
C23		B3	C311	*C1	FB208	*A1	IC114	*E2	R23	*D5	RB301	*C1
C24		B3	C312	*C1	FB209	*B1	IC115	*E2	R24	*D5	RB302	*C1
C25		*C4	C313	*C1	FB210	*B1	IC116	*D2	R25	*D5	RB303	*C1
C26		*D1	C315	*D1	FB211	*B1	IC117	*D2	R26	*D5	RB304	*C1
C27		*E1	C316	*C4	FB212	*B1	IC118	*D2	R27	*D5	RB305	*C1
C28		C4	C317	*D4	FB213	*B1	IC119	*D2	R28	*C4	RB306	D1
C29		C4	C318	*D4	FB214	*A1	IC120	*D2	R29	*D5	RB307	D1
C32		*D5	C319	*C1	FB215	*A1	IC121	*D2	R30	*D5	RB308	D1
C33		*D5	C320	*D4	FB216	*B1	IC122	*D2	R31	C4	RB309	D1
C34		*C4	C411	E5	FB217	*B1	IC123	*D2	R32	B4	RB310	E1
C35		*C4	C412	E4	FB218	*B1	IC124	*D1	R35	A4	RB311	E1
C36		C5	C413	E4	FB219	*B1	IC125	*D1	R37	A4	RB312	E1
C37		*D5	C414	E5	FB220	*B1	IC126	*D3	R39	A3	RB313	E1
C38		*D5	C415	E4	FB221	*B1	IC127	*D3	R41	*C4	RB314	E1
C39		C4	C416	E4	FB222	*B1	IC128	*D3	R201	B2	RB315	E1
C41		*D3	C417	E5	FB223	*B1	IC129	*D3	R202	*A1	RB401	*B4
C42		*D3	C418	A2	FB224	*B1	IC200	*A2	R203	*A1	RB404	*A2
C101		*E2	C419	A2	FB225	*B1	IC201	*B2	R204	*A1	RB405	*A2
C102		*E2	C420	A2	FB226	*B1	IC203	*B2	R205	*A1	RB406	A2
C103		E3	C421	A2	FB227	*B1	IC204	*B1	R206	*A1	RB407	A2
C104		E3	C422	A2	FB228	*B1	IC205	*B1	R207	B2	RB408	A2
C105		E3	C423	*A2	FB229	*A1	IC206	*B1	R208	B2	RB409	A2
C106		*E1	C424	*A2	FB230	*A1	IC207	*A1	R209	B2		
C107		E3	C425	*A2	FB231	*A1	IC208	*B1	R210	*B2	S1	E5
C108		*E2	C426	A2	FB232	*B1	IC209	*B1	R211	B2	S2	E5
C109		*E2	C427	A2	FB233	*B1	IC210	*A1	R212	A2	S3	D5
C110		E3	C428	A2	FB234	*A1	IC211	*B2	R301	C1	S4	D5
C111		*E3	C429	*A2	FB235	*A1	IC212	*B2	R302	C1	S5	C5
C112		*E2	C430	A2	FB236	*A1	IC213	*B2	R303	*C1	S6	D5
C113		*E2	C431	A2	FB237	*A1	IC214	*B2	R304	*C1		
C114		*E2	C432	A4	FB238	*B1	IC215	A1	R305	*C1	TP1	C4
C115		*E2	C433	A4	FB239	*B1	IC216	*A2	R306	*C1	TP2	A4
C116		*D2	C434	A4	FB240	*B1	IC217	*A2	R307	*C1	TP3	A4
C117		*E1			FB241	*B1	IC218	*B2	R308	*C1	TP4	B4
C118		D2	CL1	D5	FB242	*A1	IC219	*A1	R309	*C1	TP5	B4
C119		D2	CL2	D5	FB243	*A1	IC301	*C1	R310	*C1	TP6	A4
C120		*D2	CL3	C4	FB244	*B1	IC302	*D4	R311	C1	TP7	A4
C121		D3	CL4	C4	FB245	*B1	IC304	C1	R312	C1	TP101	E1
C122		D3	CL5	C4	FB246	*B1	IC404	*A2	R313	A2	TP102	E1
C123		*D2	CL6	A2	FB247	A1	IC405	*E5	R314	A2	TP103	E1
C124		*D1	CL7	A2	FB248	A1	IC406	*E4	R315	D2	TP104	*E1
C125		*D1	CL8	A2	FB249	*A1	IC407	*E4	R316	A2	TP105	*E1
C126		*E1			FB250	*A1	IC408	*E4	R317	A2	TP106	D1
C127		*E1	CN1	E5	FB251	A1	IC409	*E4	R318	C1	TP107	D1
C128		*E1	CN2	C3	FB252	A1	IC410	*E4	R401	*C4	TP108	E1
C129		*E1	CN102	B1	FB253	A1	IC411	*E5	R402	*C4	TP109	E1
C130		*E1	CN201	B1	FB254	A1	IC412	*A2	R403	E5	TP110	E1
C131		D3	CN202	B1	FB255	A1	IC413	*A2	R404	E5	TP111	E1
C132		D3	CN203	B1	FB256	A1	IC414	*A2	R405	*B4	TP112	E1
C133		*E1	CN301	D4	FB301	D4	IC415	*A2	R406	*B4	TP113	D1
C134		*E1	CN302	C1			IC416	A4	R407	*A2	TP201	B2
C135		*E1	CN303	D1	IC1	C2			R408	*A2	TP202	A2
C136		*D2	CN401	B4	IC2	C2	L301	*D4	R409	A4	TP203	B2
C137		*D2	CN402	C5	IC3	*B2	L302	*D4	R410	A4	TP204	A2
C138		*D2	CN403	A5	IC4	*A4	L303	*D4	R411	*A4	TP205	A1
C201		*B1	CN404	B5	IC5	C3	L304	C1	R412	*A4	TP206	A1
C202		B2	CN405	B4	IC6	C3	L305	*D4	R413	B4	TP306	C1
C203		B1	CN406	A2	IC7	A3	L306	*D4			TP307	B1
C204		B1			IC9	B4			RB1	E4	TP403	A1
C205		B1	D1	*E5	IC10	B4	PH301	*C1	RB2	*D3	TP404	A1
C206		B1	D2	*E5	IC11	B3	PH302	*C1	RB3	*A3	TP1000	A4
C207		B1	D3	*E5	IC12	B3			RB4	*A3	TP1001	E5
C208		A1	D4	*E5	IC14	*D5	Q1	*C4	RB5	E4	TP1002	A4
C209		A1	D5	*E5	IC15	*B2	Q2	C4	RB6	E4	TP1003	B1
C210		*A2	D6	*E5	IC16	*D3	Q201	*A1	RB7	*A3	TP1004	D5
C211		*B2	D7	*E5	IC17	*D3	Q202	*A1	RB8	*C3	TP1005	C1
C212		*B2	D8	*E5	IC20	C4	Q203	*A1	RB9	*C2		
C213		A2	D9	*D5	IC21	A3	Q204	A1	RB10	C2	X1	C2
C214		*A1	D10	*D5	IC22	D1	Q205	A1	RB11	*C2	X2	*C4
C215		*A1	D11	*D5	IC23	E1	Q206	A1	RB12	A4	X401	A4
C216		*A1	D12	*D5	IC24	*B3			RB13	A4		
C217		*A1	D13	*D5	IC25	*B3	R1	E5	RB14	*D5	*:B SIDE	



CPU-286 -A SIDE-SUFFIX: -11



CPU-286 -B SIDE-
SUFFIX: -11

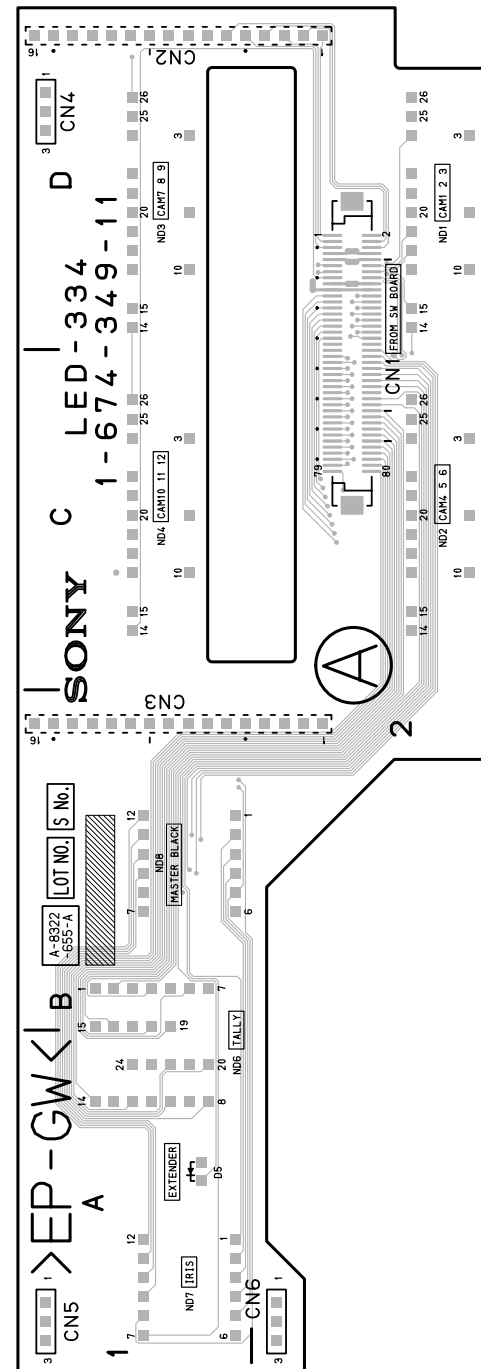
LED-334(1-674-349-11)

CN1	C2
CN2	* D1
CN3	* B1
CN4	D1
CN5	A1
CN6	A2

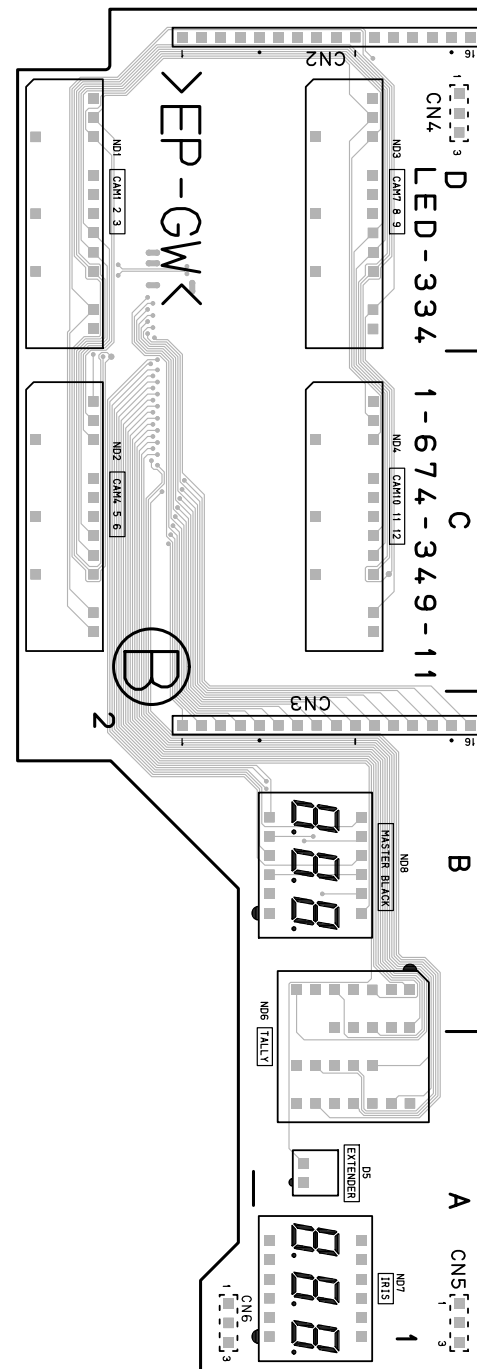
D5 A1

ND1	D2
ND2	C2
ND3	D1
ND4	C1
ND6	A1
ND7	* A1
ND8	* B1

*:B SIDE



LED-334 -A SIDE-SUFFIX: -11

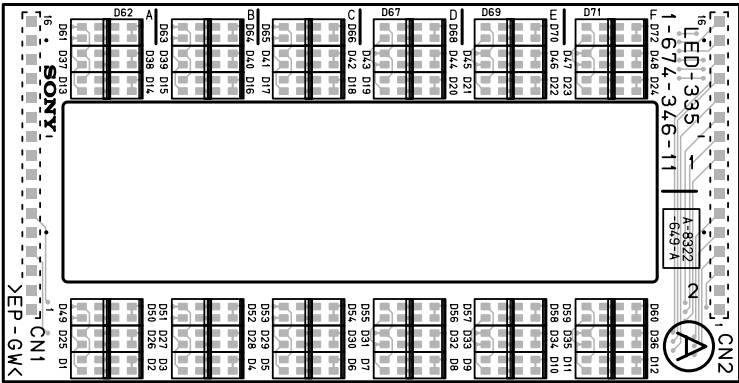


LED-334 -B SIDE-
SUFFIX: -11

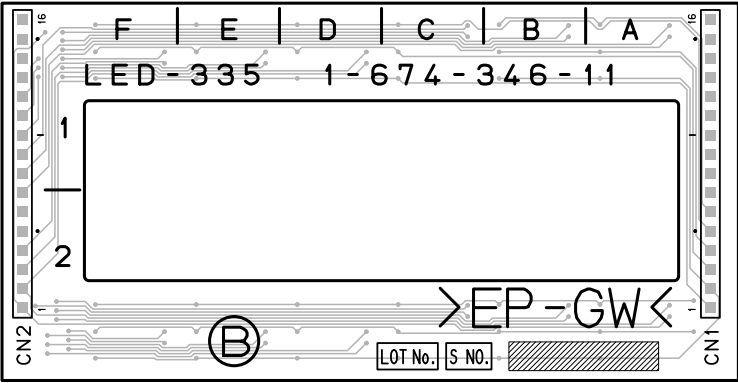
LED-335(1-674-346-11)

CN1	*A1	D37	A1
CN2	*F1	D38	A1
		D39	B1
D1	A2	D40	B1
D2	A2	D41	C1
D3	B2	D42	C1
D4	B2	D43	D1
D5	C2	D44	D1
D6	C2	D45	E1
D7	D2	D46	E1
D8	D2	D47	F1
D9	E2	D48	F1
D10	E2	D49	A2
D11	F2	D50	A2
D12	F2	D51	B2
D13	A1	D52	B2
D14	A1	D53	C2
D15	B1	D54	C2
D16	B1	D55	D2
D17	C1	D56	D2
D18	C1	D57	E2
D19	D1	D58	E2
D20	D1	D59	F2
D21	E1	D60	F2
D22	E1	D61	A1
D23	F1	D62	A1
D24	F1	D63	B1
D25	A2	D64	B1
D26	A2	D65	C1
D27	B2	D66	C1
D28	B2	D67	D1
D29	C2	D68	D1
D30	C2	D69	E1
D31	D2	D70	E1
D32	D2	D71	F1
D33	E2	D72	F1
D34	E2		
D35	F2		
D36	F2		

*:B SIDE



LED-335 -A SIDE-
SUFFIX: -11

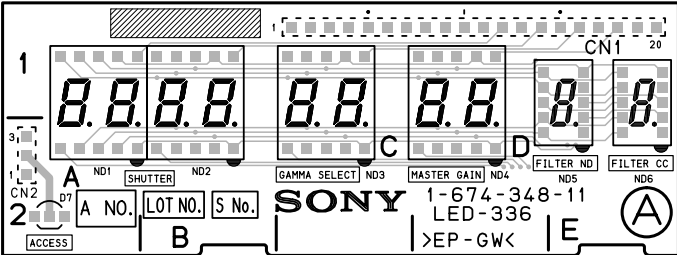


LED-335 -B SIDE-
SUFFIX: -11

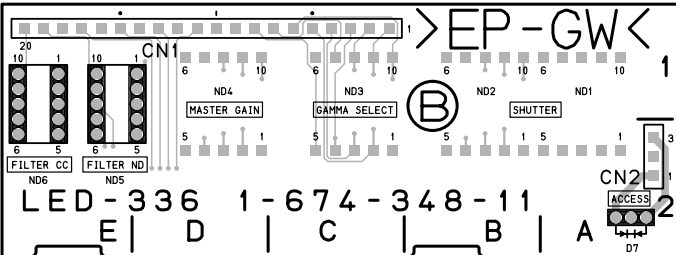
LED-336(1-674-348-11)

CN1	*D1
CN2	*A2
D7	A2
ND1	A1
ND2	B1
ND3	C1
ND4	D1
ND5	E1
ND6	E1

*:B SIDE



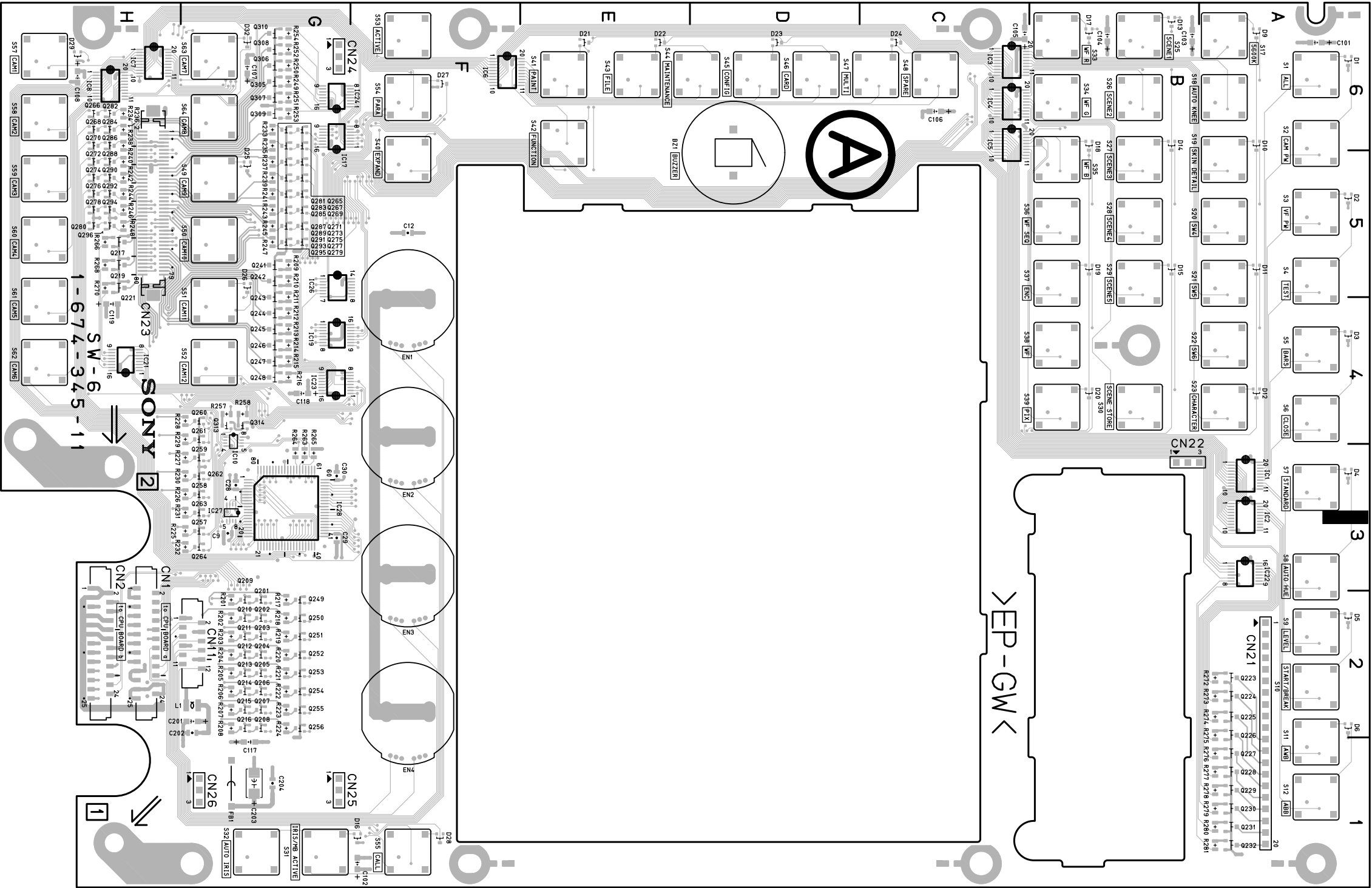
LED-336 -A SIDE-
SUFFIX: -11



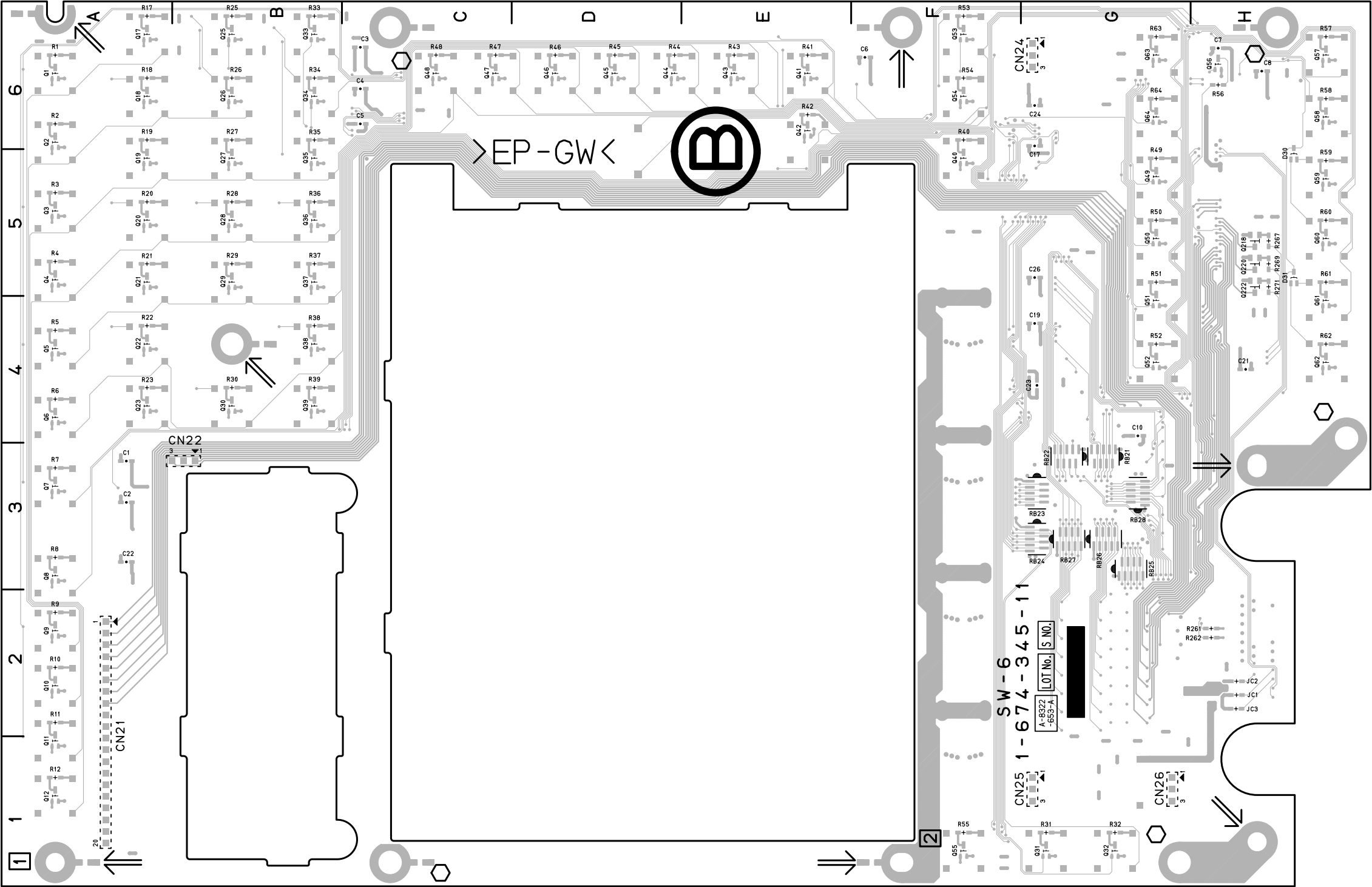
LED-336 -B SIDE-
SUFFIX: -11

SW-6(1-674-345-11)

BZ1	D5	IC6	F6	Q214	G2
C1	*A3	IC7	H6	Q215	G2
C2	*A3	IC8	H6	Q216	G2
C3	*C6	IC10	G4	Q217	H5
C4	*C6	IC17	F6	Q218	*H5
C5	*C6	IC19	G4	Q219	H5
C6	*F6	IC21	H4	Q220	*H5
C7	*H6	IC22	A3	Q221	H5
C8	*H6	IC23	F4	Q222	*H5
C9	G3	IC24	F6	Q223	A2
C10	*G4	IC26	G5	Q224	A2
C12	F5	IC27	G3	Q225	A2
C17	*G6	IC28	G3	Q226	A2
C19	*G4	JC1	*H2	Q227	A1
C21	*H4	JC2	*H2	Q228	A1
C22	*A3	JC3	*H2	Q229	A1
C23	*G4			Q230	A1
C24	*G6	L1	G2	Q231	A1
C26	*G5			Q232	A1
C28	G3	Q1	*A6	Q241	G5
C29	G3	Q2	*A6	Q242	G4
C30	G3	Q3	*A5	Q243	G4
C101	A6	Q4	*A4	Q244	G4
C102	F1	Q5	*A5	Q245	G4
C103	B6	Q6	*A4	Q246	G4
C104	B6	Q7	*A3	Q247	G4
C105	C6	Q8	*A3	Q248	G4
C106	C6	Q9	*A2	Q249	G2
C107	G6	Q10	*A2	Q250	G2
C108	H6	Q11	*A1	Q251	G2
C117	G1	Q12	*A1	Q252	G2
C118	H4	Q17	*A6	Q253	G2
C119	H4	Q18	*A6	Q254	G2
C201	G2	Q19	*A5	Q255	G2
C202	G2	Q20	*A5	Q256	G2
C203	G1	Q21	*A5	Q257	G3
C204	G1	Q22	*A4	Q258	G3
		Q23	*A5	Q259	G3
CN1	H2	Q25	*A4	Q260	G4
CN2	H2	Q26	*B6	Q261	G4
CN11	G2	Q27	*B5	Q262	G3
CN21	A2	Q28	*B5	Q263	G3
CN22	B3	Q29	*B5	Q264	G3
CN23	H5	Q30	*B4	Q265	G6
CN24	G6	Q31	*G1	Q266	H6
CN25	G1	Q32	*G1	Q267	H6
CN26	G1	Q33	*B6	Q268	G5
		Q34	*B6	Q269	G5
D1	A6	Q35	*B5	Q270	H6
D2	A5	Q36	*B5	Q271	H6
D3	A4	Q37	*B5	Q272	G5
D4	A3	Q38	*B4	Q273	H5
D5	A2	Q39	*F5	Q274	H5
D6	A2	Q40	*F5	Q275	H5
D9	A6	Q41	*F6	Q276	G5
D10	A6	Q42	*F6	Q277	H5
D11	A5	Q43	*F6	Q278	G5
D12	A4	Q44	*F6	Q279	H5
D13	B6	Q45	*D6	Q280	H5
D14	B6	Q46	*D6	Q281	G6
D15	B5	Q47	*C6	Q282	H6
D16	F1	Q48	*C6	Q283	G6
D17	B6	Q49	*G5	Q284	H6
D18	B6	Q50	*G5	Q285	G5
D19	B5	Q51	*G4	Q286	H6
D20	B4	Q52	*F6	Q287	G5
D21	E6	Q53	*F6	Q288	H5
D22	E6	Q54	*F6	Q289	G5
D23	D6	Q55	*F1	Q290	H5
D24	C6	Q56	*H6	Q291	G5
D25	G5	Q57	*H6	Q292	H5
D26	G5	Q58	*H6	Q293	G5
D27	F6	Q59	*H6	Q294	H5
D28	F1	Q60	*H5	Q295	G5
D29	H6	Q61	*H4	Q296	H5
D30	*H5	Q62	*H4	Q297	G6
D31	*H5	Q63	*G6	Q300	G6
D32	G6	Q64	*G6	Q307	G6
		Q201	G2	Q308	G6
EN1	F4	Q202	G2	Q309	G6
EN2	F3	Q203	G2	Q310	G6
EN3	F3	Q204	G2	Q313	G4
EN4	F2	Q205	G2	Q314	G4
		Q206	G2		
FB1	G1	Q207	G2	R1	*A6
		Q208	G2	R2	*A6
IC1	A3	Q209	G2	R3	*A5
IC2	A3	Q210	G2	R4	*A5
IC3	C6	Q211	G2	R5	*A4
IC4	C6	Q212	G2	R6	*A4
IC5	C6	Q213	G2	R7	*A3
			G2	R8	*A3



SW-6 -A SIDE-SUFFIX: -11



SW-6 -B SIDE-
SUFFIX: -11

R9	*A2	R242	H5	S52	G4
R10	*A2	R243	G5	S53	F6
R11	*A2	R244	H5	S54	F6
R12	*A1	R245	G5	S55	F1
R17	*A6	R246	H5	S57	H6
R18	*A6	R247	G5	S58	H6
R19	*A6	R248	H5	S59	H5
R20	*A5	R249	G6	S60	H5
R21	*A5	R250	G6	S61	H4
R22	*A4	R251	G6	S62	H4
R23	*A4	R252	G6	S63	G6
R25	*B6	R253	G6	S64	G6
R26	*B6	R254	G6		
R27	*B6	R257	G4		
R28	*B5	R258	G4		
R29	*B5	R261	*H2		
R30	*B4	R262	*H2		
R31	*G1	R263	G3		
R32	*G1	R264	G3		
R33	*B6	R265	G3		
R34	*B6	R266	H5		
R35	*B6	R267	*H5		
R36	*B5	R268	H5		
R37	*B5	R269	*H5		
R38	*B4	R271	*H5		
R39	*B4	R270	H5		
R40	*F6	R272	A2		
R41	*E6	R273	A2		
R42	*E6	R274	A2		
R43	*E6	R275	A2		
R44	*D6	R276	A1		
R45	*D6	R277	A1		
R46	*D6	R278	A1		
R47	*C6	R279	A1		
R48	*C6	R280	A1		
R49	*G5	R281	A1		
R50	*G5				
R51	*G5	RB21	*G3		
R52	*G4	RB22	*G3		
R53	*F6	RB23	*G3		
R54	*F6	RB24	*G3		
R55	*F1	RB25	*G3		
R56	*H6	RB26	*G3		
R57	*H6	RB27	*G3		
R58	*H6	RB28	*G3		
R59	*H5				
R60	*H5	S1	A6		
R61	*H5	S2	A6		
R62	*H4	S3	A5		
R63	*G6	S4	A5		
R64	*G6	S5	A4		
R201	G2	S6	A4		
R202	G2	S7	A3		
R203	G2	S8	A3		
R204	G2	S9	A2		
R205	G2	S10	A2		
R206	G2	S11	A1		
R207	G2	S12	A1		
R208	G2	S17	A6		
R209	G5	S18	A6		
R210	G5	S19	A5		
R211	G4	S20	A5		
R212	G4	S21	A5		
R213	G4	S22	A4		
R214	G4	S23	A4		
R215	G4	S25	B6		
R216	G4	S26	B6		
R217	G2	S27	B5		
R218	G2	S28	B5		
R219	G2	S29	B5		
R220	G2	S30	B4		
R221	G2	S31	G1		
R222	G2	S32	G1		
R223	G2	S33	B6		
R224	G2	S34	B6		
R225	G3	S35	B5		
R226	G3	S36	B5		
R227	G3	S37	B5		
R228	G4	S38	B4		
R229	G4	S39	B4		
R230	G3	S40	F5		
R231	G3	S41	E6		
R232	G3	S42	E6		
R233	G6	S43	E6		
R234	H6	S44	D6		
R235	G6	S45	D6		
R236	H6	S46	D6		
R237	G5	S47	C6		
R238	H6	S48	C6		
R239	G5	S49	G5		
R240	H5	S50	G5		
R241	G5	S51	G4		

*:B SIDE

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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)

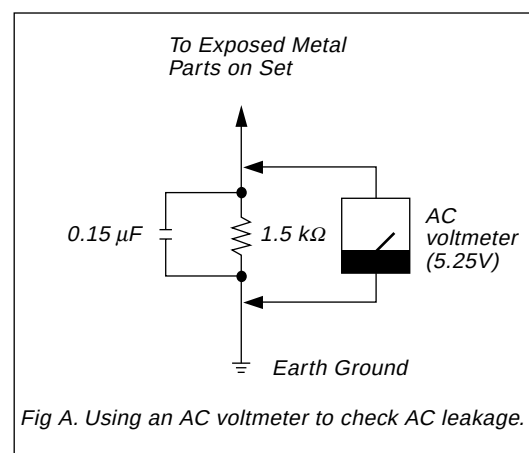


Fig A. Using an AC voltmeter to check AC leakage.

