

SONY®

REMOTE CONTROL UNIT

RM-B750



MEMORY STICK™

MAINTENANCE MANUAL

1st Edition (Revised 1)

Serial No. 100001 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。

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 angegeben 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.

ADVARSEL

Lithiumbatteri - Eksplosjonsfare.
Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

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.

VARNING

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

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.

VAROITUS

Paristo voi räjähtää jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.

Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.

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

Levér det brugte batteri tilbage til leverandøren.

For the customers in the Netherlands
Voor de klanten in Nederland

Hoe u de batterijen moet verwijderen, leest u in de tekst van deze handleiding.

Gooi de batterij niet weg maar lever deze in als klein chemisch afval (KCA).



Für Kunden in Deutschland

Entsorgungshinweis: Bitte werfen Sie nur entladene Batterien in die Sammelboxen beim Handel oder den Kommunen. Entladen sind Batterien in der Regel dann, wenn das Gerät abschaltet und signalisiert "Batterie leer" oder nach längerer Gebrauchsdauer der Batterien "nicht mehr einwandfrei funktioniert". Um sicherzugehen, kleben Sie die Batteriepole z.B. mit einem Klebestreifen ab oder geben Sie die Batterien einzeln in einen Plastikbeutel.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual for Remote Control Unit RM-B750.
This manual is intended for use by the trained system engineers and service engineers, and describes information (service overview, parts lists, schematic diagram and board layout) on the premise of component level service.

Relative manuals

Besides this maintenance manual the following manuals are available for this unit.

- **Operation Manual (Supplied with this unit)**

This manual is necessary for application and operation of this unit.
Part number: 3-620-577-XX

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

This manual is necessary for connection and operation of this unit 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 B&P 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 the each section for understanding the manual.

Section 1 Service Overview

Describes information about connector input/output signals, function of internal switches board locations, replacement of part and notes on services.

Section 2 Electrical Alignment

Describe video level adjustment procedure.

Section 3 Spare Parts

Describes parts list, exploded views and frame list used in the unit.

Section 4 Semiconductor Pin Assignments

Contains information on semiconductors used for the unit.

It includes a complete list of the semiconductors and their ID Nos. for retrieving information on “Semiconductor Pin Assignments” CD-ROM, which is available separately.

Please refer to this section together with the “Semiconductor Pin Assignments” CD-ROM.

Information on the semiconductors not contained in the CD-ROM at the time of issue of this manual, if any, is given in this section as well.

Section 5 Block Diagram

Describe overall block diagram.

Section 6 Schematic Diagrams

Describes schematic diagrams for every circuit board and frame wiring.

Section 7 Board Layouts

Describes board layouts for every circuit board.

Section 1

Service Overview

1-1. Connector Input/Output Signals

MONITOR*

(BNC Type)

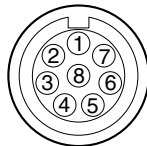
SDTV (NTSC/PAL) : VBS output (1.0 V p-p, 75 Ω)

HDTV : Y signal output (1.0 V p-p, 75 Ω)

* : This signal is output all the time.

CAMERA

(8P, FEMALE)



(External View)

No.	Signal	Specification
1	TX (+)	RM SERIAL DATA
2	TX (-)	
3	RX (+)	CAMERA SERIAL DATA
4	RX (-)	
5	VIDEO (GND)	GND for VIDEO
6	POWER (+) IN	RM POWER
7	POWER (-) IN	
8	VIDEO (X) OUT	VBS 1.0 V p-p, $Z_o = 75 \Omega$
C	CHASSIS GND	CHASSIS GND

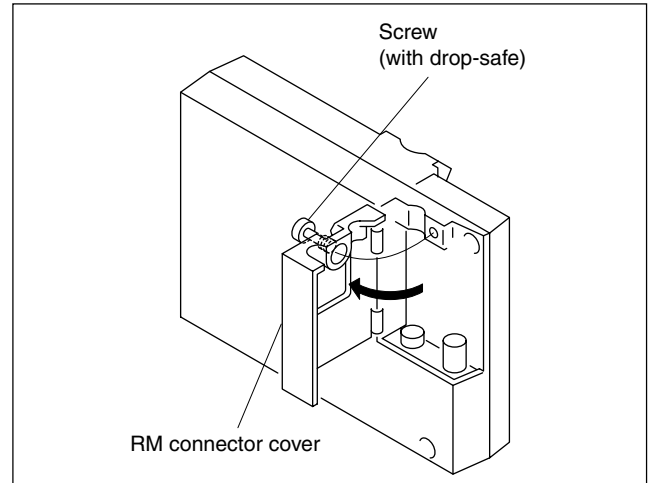
1-2. Connection Connector/Cable

Connection made with the connector panels during installation or service, should be made with the connectors/complete cable assemblies specified in the following list, or equivalent parts.

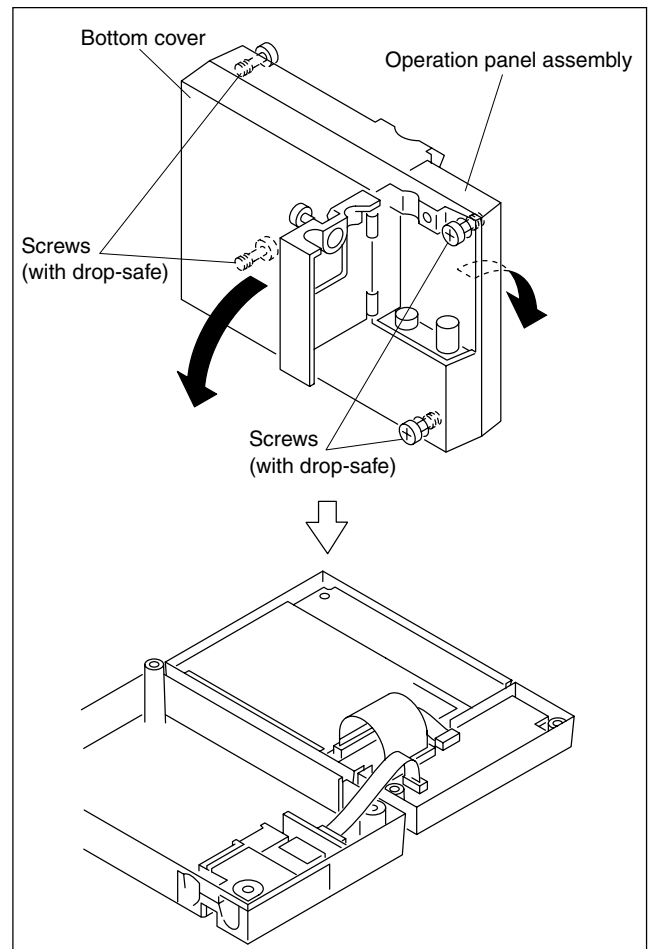
Connector function	Connection connector/Cable
CAMERA (8P, FEMALE)	1-706-848-11 PLUG, 8P MALE or 1-783-372-11 Connection cord (10 m) (supplied)
MONITOR (BNC)	1-569-370-12 PLUG, BNC

1-3. Opening the RM-B750

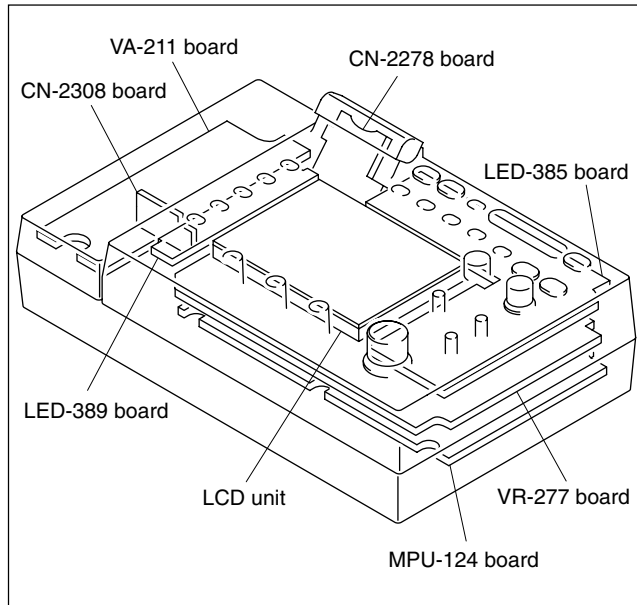
1. Loosen the screw (with drop-safe) and open the RM connector cover in the direction of the arrow.



2. Loosen the four screws (with drop-safe) and open the operation panel assembly and the bottom cover in the direction of the arrow respectively.



1-4. Board Layouts



1-5. Functions of Internal Switches

MPU-124 Board

- S201

This switch is not used.

Factory-setting: OFF

- S205 (BUZZER ON/OFF)*1

This switch selects whether the buzzer sounds (ON) or not (OFF) when the CALL signal is input.

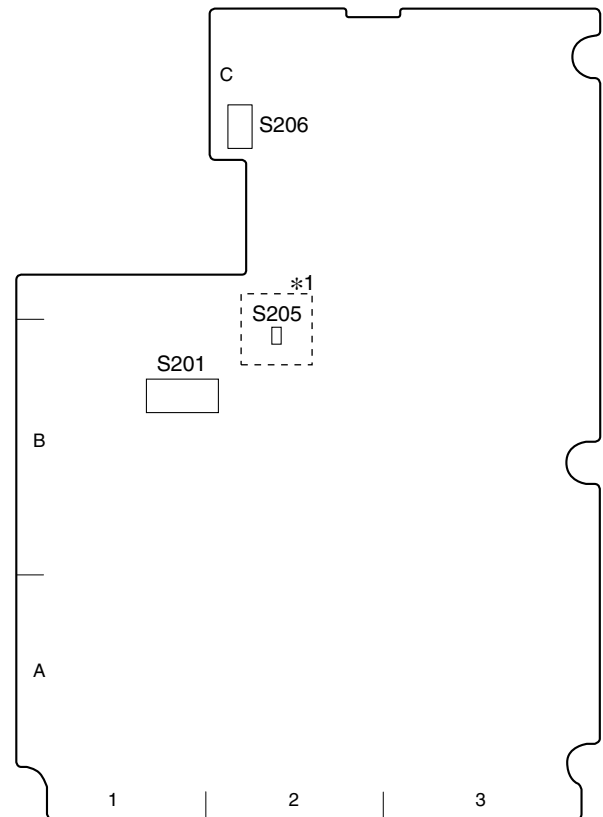
Factory-setting: ON

*1: S205 is not used on the MPU-124 board with suffix -21 and higher.

- S206 (CCU-PW ON/OFF)

This switch turns on/off the power to the front panel.

Factory-setting: ON



MPU-124 board (A side)

1-6. Flexible Card Wire

1-6-1. Disconnecting/Connecting the Flexible Card Wire

Life of flexible card wire will be significantly shortened if it is folded. Be very careful not to fold the flexible card wire. The five types of different shape connectors are used in this unit. (Type A to type E)

Because the direction of the flexible card wire is different depending on the shape of the connector, be careful when connecting the flexible card wire.

Disconnecting (Type A to D)

1. Turn off the power.
2. Slide the portion A in the direction of the arrow to unlock and pull out the flexible card wire.

Connecting (Type A to D)

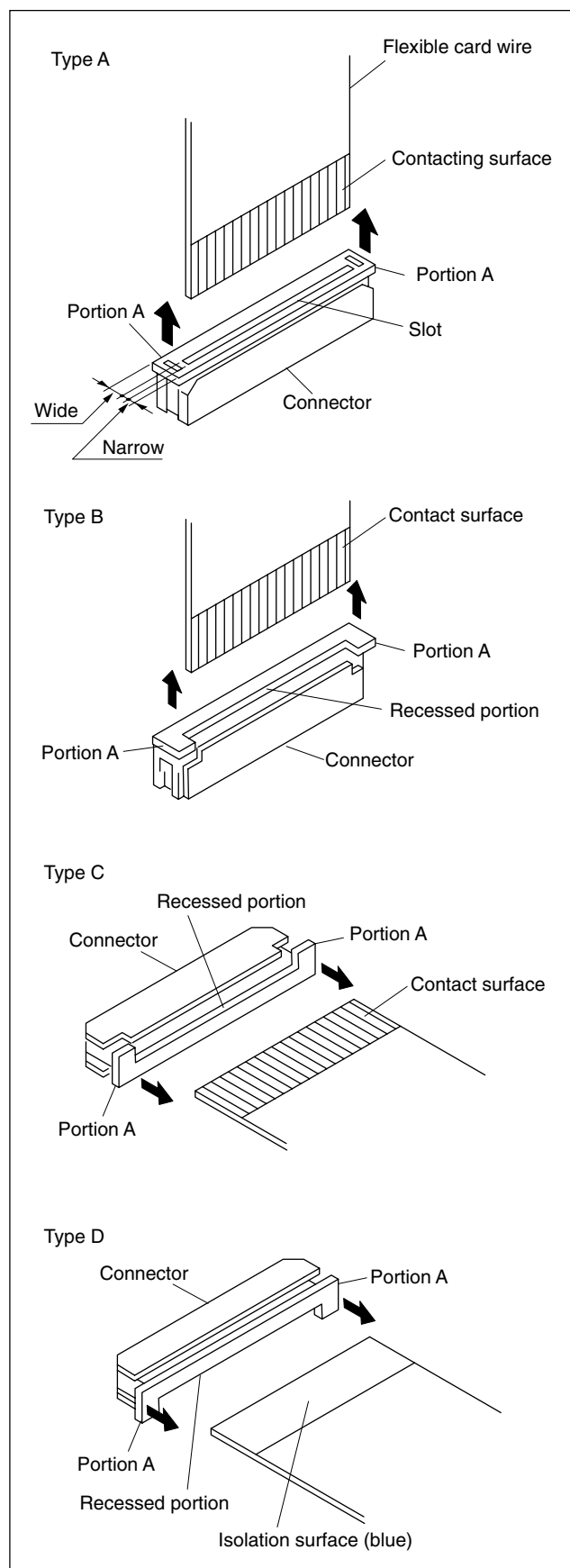
Notes

- Do not insert the flexible card wire sideways.
- Confirm that there is no stain or dust on the contact surface of the flexible card wire.

1. Slide the portion A in the direction of the arrow and securely insert the flexible card wire into the deep end of the connector.
2. Return the portion A to its original position and lock the connector.

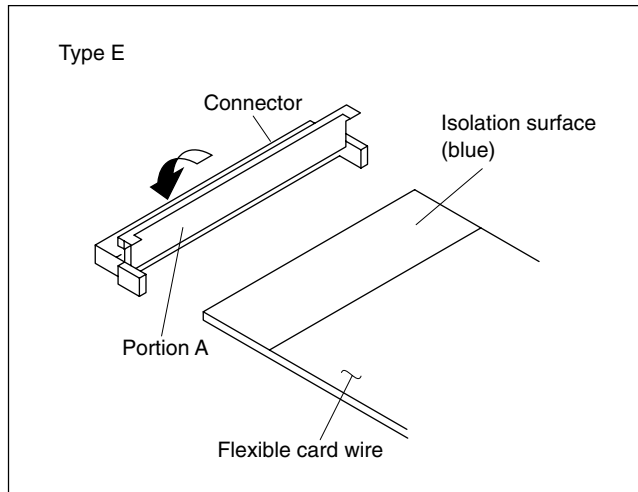
Note

When connecting the flexible card wire, check the connector shape, and great care should be taken for the direction of the contact surface or isolation surface (blue). (Refer to illustration of the type A to type D.)



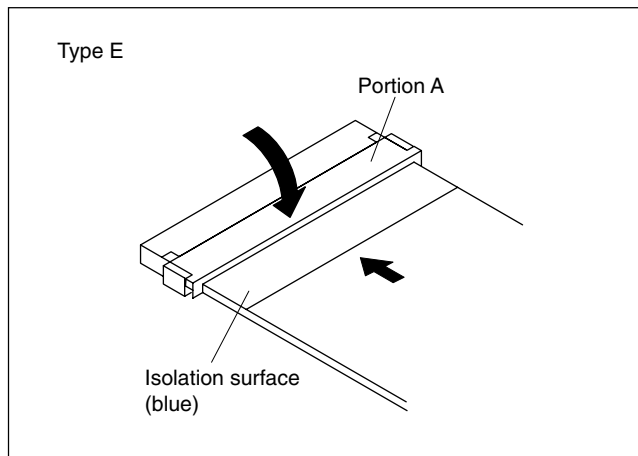
Disconnecting (Type E)

1. Turn off the power.
2. Open the portion A in the direction of the arrow and pull out the flexible card wire.



Connecting (Type E)

Insert the flexible card wire with the isolation surface (blue) facing up and close the portion A.



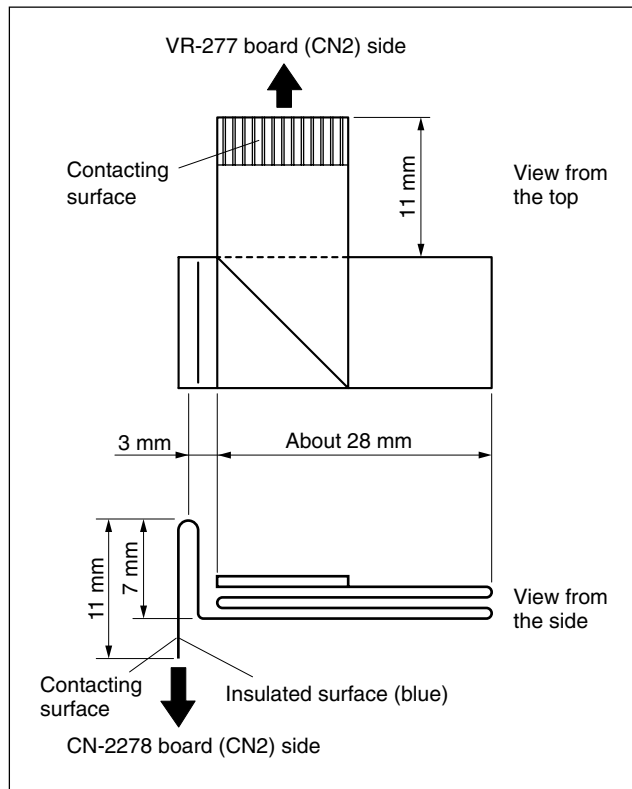
1-6-2. Shaping the Flexible Card Wire

When a new flexible card wire reaches as a service part, carefully fold it referring to the illustration before installation into connector.

Note

Never re-stretch the flexible card wire that has been folded once, to the original shape.

Between CN-2278 board CN2 ↔ VR-277 board CN2



1-7. Replacing the LCD Unit

Note

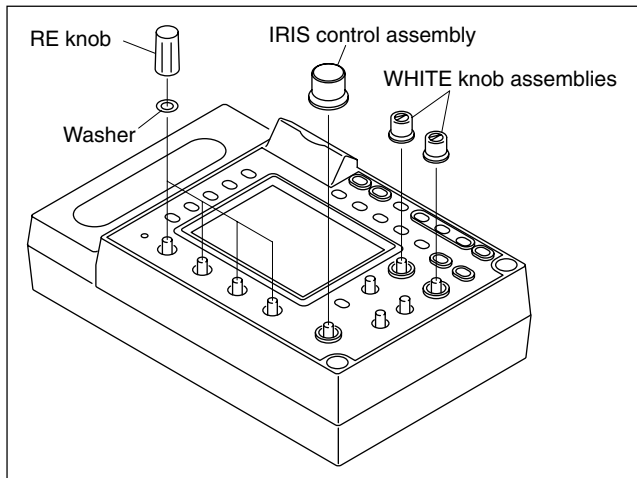
Life of flexible card wire will be significantly shortened if it is folded. Be very careful not to fold the flexible card wire.

1. Remove the four RE knobs.

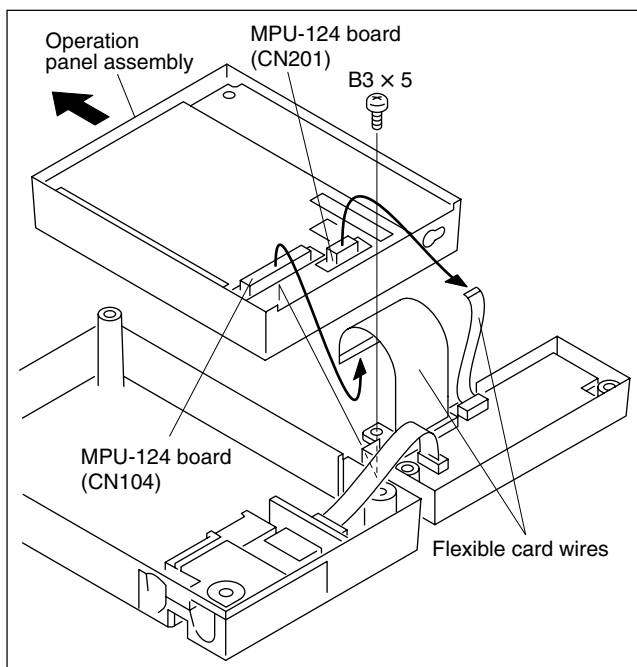
Note

Poly-washer is installed under the RE knob. Be careful not to lose the poly-washer.

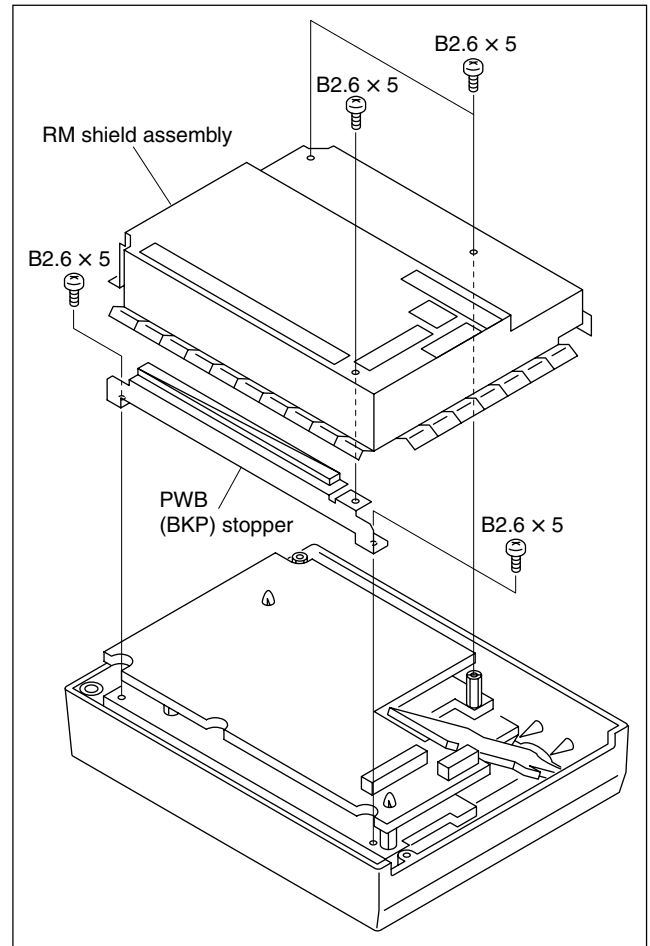
2. Remove the IRIS knob assembly.
3. Remove the WHITE knob assembly.



4. Open the RM-B750. (Refer to Section 1-3.)
5. Remove the connectors (CN104, CN201) from the MPU-124 board.
6. Remove the screws and the operation panel assembly in the direction of the arrow.



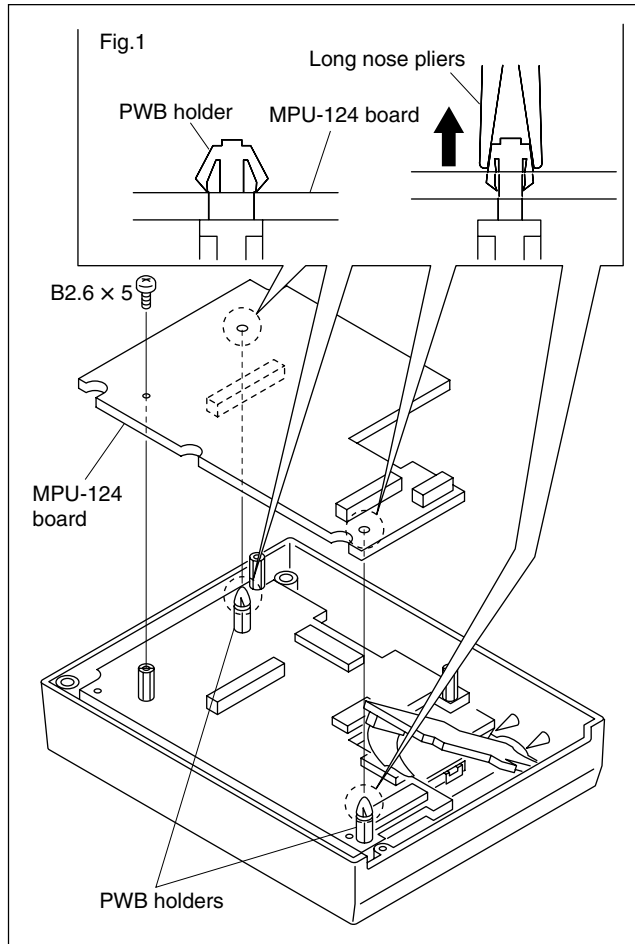
7. Remove the three screws and the RM shield assembly.
8. Remove the two screws and the PWB (BKP) stopper.



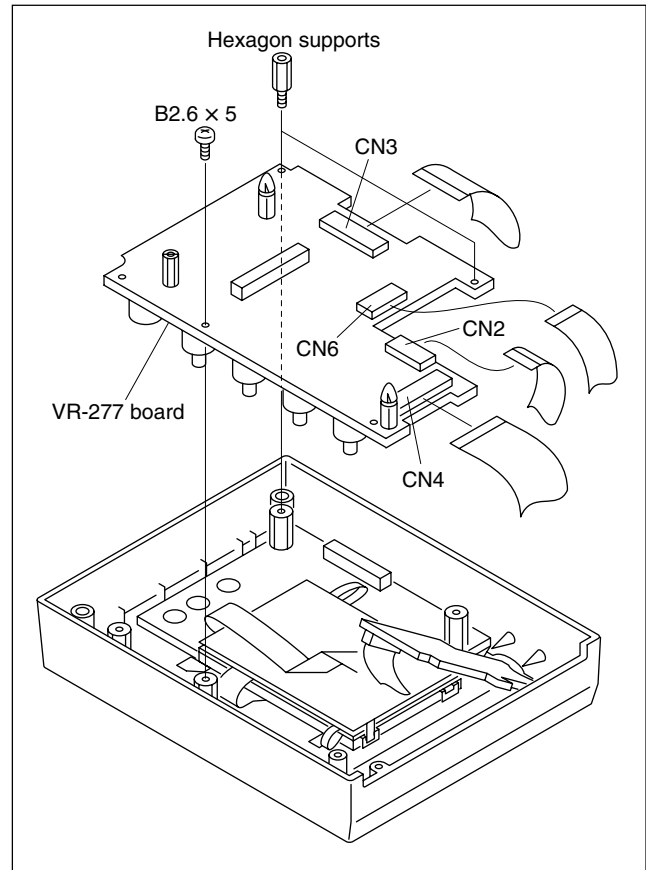
9. Remove the screw.
10. Hold the two PWB holders using a long nose pliers as shown in Fig. and remove the MPU-124 board by holding it up.

Note

Be careful not to damage the printed foil pattern of the MPU-124 board with the tip of a long nose plier.



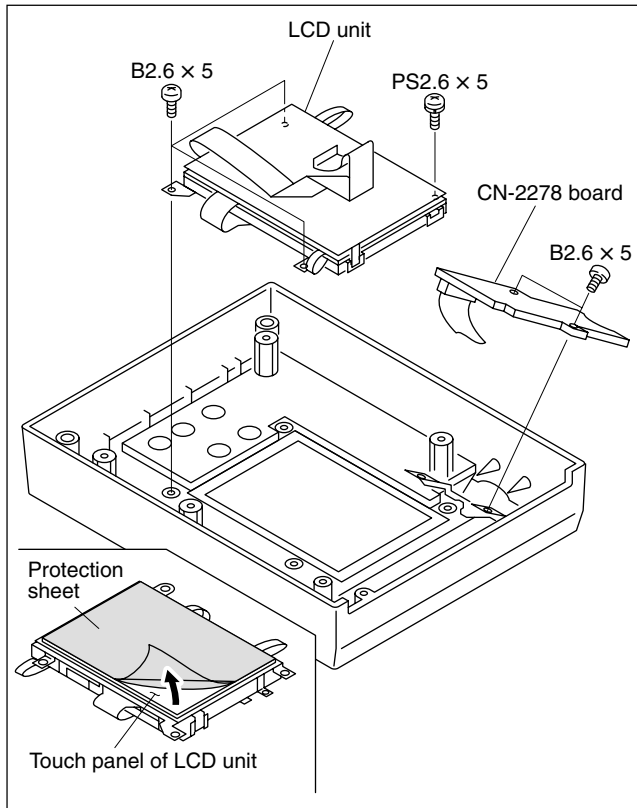
11. Disconnect the connectors (CN2, CN3, CN4, CN6) from the VR-277 board.
12. Remove the two screws and hexagonal supports, and remove the VR-277 board.



13. Remove the two screws and the CN-2278 board.
14. Remove the screws (B2.6 × 5 : 3 pcs, PS2.6 × 5 : 1 pc) and the LCD unit.
15. Install the new LCD unit by reversing the steps of removal.

Note

The new LCD unit is supplied with the protection sheet attached to the touch panel. Peel off the protection sheet before installation.



16. Install the four RE knobs, the IRIS control knob assembly and the two WHITE knob assemblies.

Note

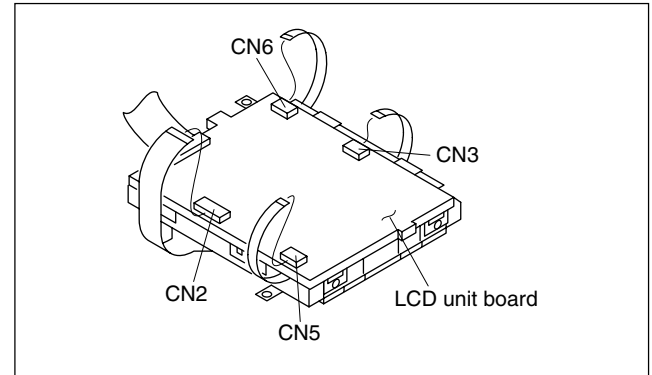
When installing the IRIS control knob assembly and the WHITE knob assemblies, refer to Section 1-9.

1-8. Replacing the Touch Panel and Backlight

1. Remove the LCD unit. (Refer to Section 1-7.)
2. Disconnect the connectors (CN2, CN3, CN5, CN6) from the LCD unit board.

Note

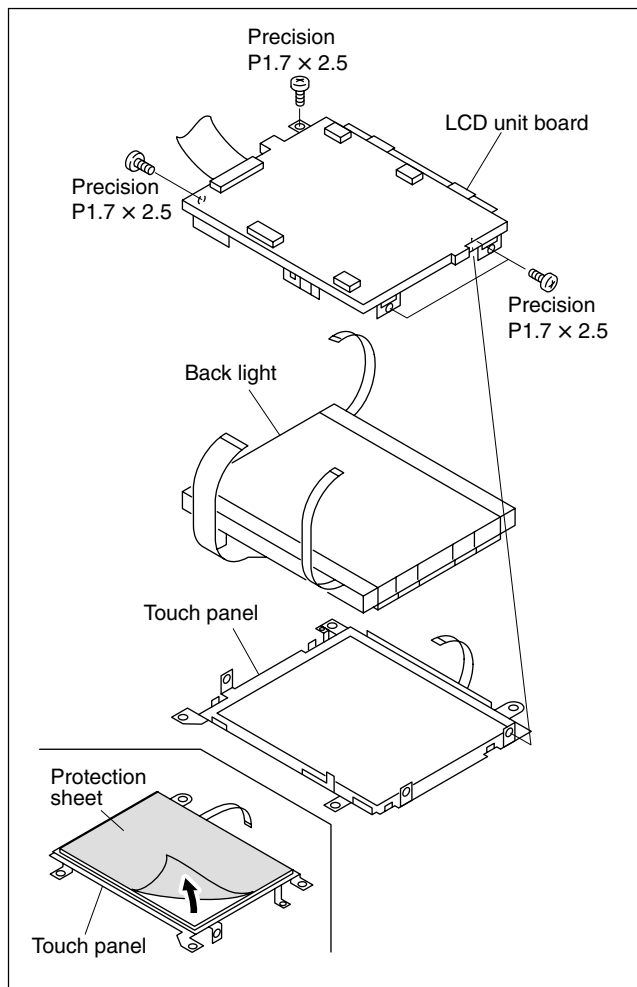
Life of flexible card wire will be significantly shortened if it is folded. Be very careful not to fold the flexible card wire.



3. Remove the four screws, the touch panel and the backlight.
4. Install the new touch panel or the new backlight in the LCD unit board.

Note

The new touch panel is supplied with the protection sheet attached. Peel off the protection sheet before installation.

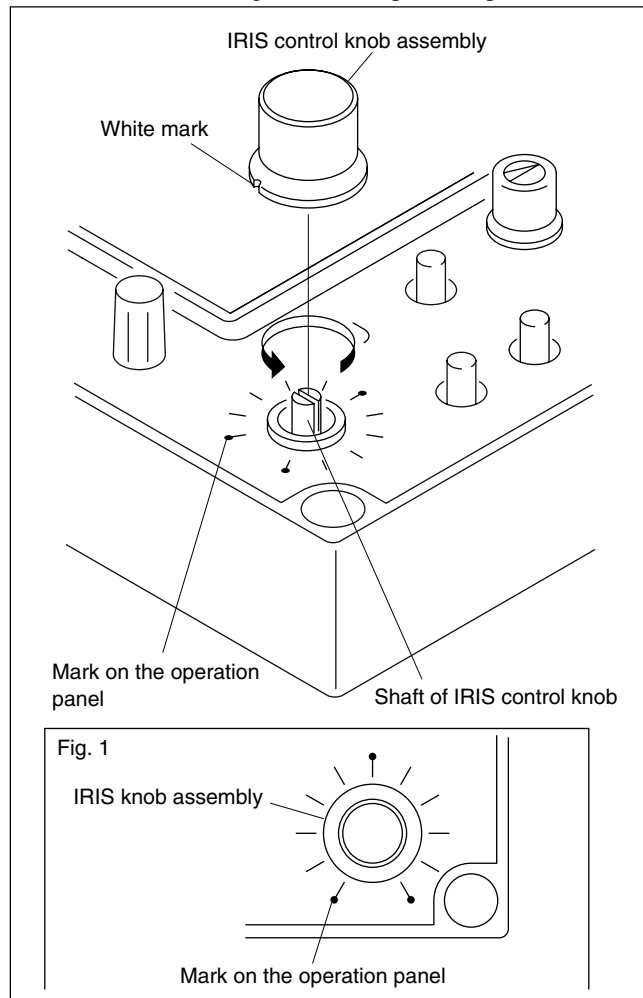


5. When installing the LCD unit in the RM-B750, reverse the steps in Section 1-7.

1-9. Installing the IRIS Knob Assembly and WHITE Knob Assembly

1-9-1. Installing the IRIS Knob Assembly

1. Rotate the shaft of the IRIS knob fully in the direction of the arrow.
2. To install the IRIS control knob assembly, align the white mark of the IRIS control knob assembly with the mark (shown in Fig. 1) on the operation panel.

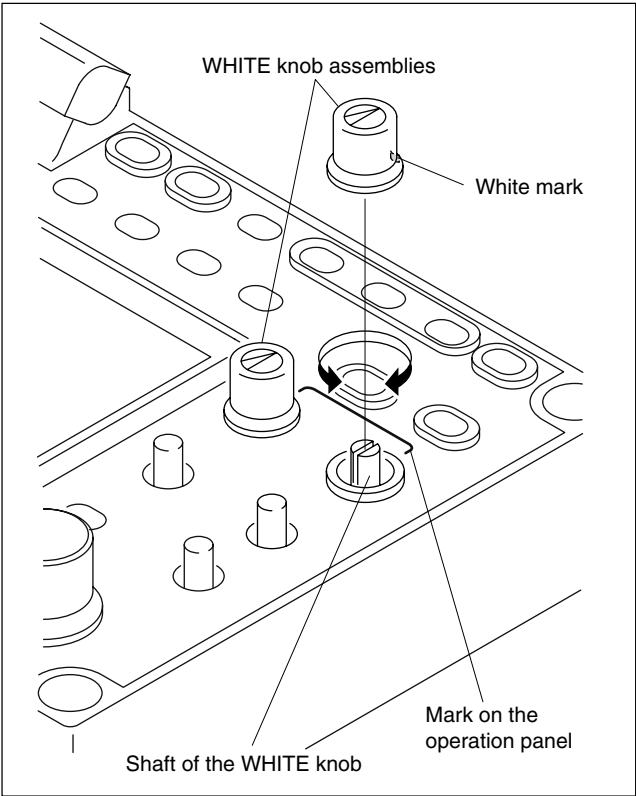


1-9-2. Installing the WHITE Knob Assembly

Note

The two WHITE knob assemblies can be replace in the same way.

1. Rotate the shaft of the WHITE knob fully and stop rotation at the position that generates the clicking sound.
2. Install the WHITE knob assembly while aligning the white mark of it with the corresponding mark of the operation panel.



1-10. Note on Service

1-10-1. Information of the Software Version

There are the following Camcorder models to which this unit can be connected:

Model	Software	File writing to Memory Stick in this unit
HDW-700/700A series	Ver.1.00 or later	No
HDW-F900 series	Ver.1.00 or later	Yes
HDW-750/730 series	Ver.1.50 or later	No*
MSW-900 series	Ver.1.60 or later	No*
DVW-707/709WS/ 790WS series	Ver.1.19 or later	No

No* : Data writing to the memory stick in the camera is possible.

1-10-2. Description on Backup Battery

WARNING

The lithium battery is a critical part to safe operation. Replace the component with Sony part whose part number is listed in the manual published by Sony. If the component is replaced by any part other than the specified ones, this may cause a fire or electric shock.

CAUTION

When replacing the lithium battery, ensure that the battery is installed with + and – poles connected to the correct terminals. An incorrect connection may cause an explosion or leakage of fluid as a result, physical damage in the surrounding materials may be caused.

A lithium battery on the MPU-124 board is used to back up the date data to be stored in the memory stick. Reset the date data using the RM configuration menu is the Maintenance menu (Refer to the operation manual “Initial Settings”). after replacing the MPU-124 board or the dead battery.

Replacement part : BT1 (MPU-124 board)
DescriptiWon : CR-2032 (Lithium battery)
Parts number : Δ 1-528-174-31
Recommended replacement period : Every 7 years

Notes

- When replacing the MPU-124 board, it is recommended to replace the battery at the same time.
- Resetting the date data is required also when the battery is removed from the battery holder.

1-10-3. Writing and Rewriting the PLD Internal Data

This unit uses the PLD (Programmable Logic Device) that supports the e-Production (EPR) system to write and rewrite the internal data.

If the part listed below needs to be replaced or to be upgraded, contact your Sony Sales Office/Service Center.

Note

The part number of PLD (or ROM for PLD) in which data is not written yet, is shown in “Section 3. Spare Parts”. Therefore, if part replacement is required, write the data by the following procedure.

In the case of the PLD type that runs on the program stored in external ROM, data needs not to be written only by replacing the part if the specific PLD only is defective.

e-Production system has the advantages shown below.

- To write/rewrite the PLD internal data:
 1. The standard fixture (cable) can be used.
 2. The standard software (PLD Download Tool) can be used.
- The PLD internal data is controlled in the Sony Database Server under the name Project file (E_000_000_xx_xx).
- The printed circuit board is equipped with the standard connector (EPR connector) to write the PLD internal data. The indication “EPR” is shown on the printed circuit board.

Corresponding PLD

PLD (Ref No./board name)	EPR connector (Ref No./board name)	Project file No.
IC106/MPU-124	CN101/ MPU-124	E_000_000_31_xx

Equipment required

- PLD download fixture
(Sony part number: J-7120-140-A)
The cable connected PC to this unit.
- PC
A PC having parallel port.
A PC in which the PLD Download Tool software is already installed.
For the applicable OS and the operating environment, refer to “Download Tool Operating Instruction for Device Programming”.

Data write procedure

Data write procedure in the PLD (or ROM for PLD) is outlined below.

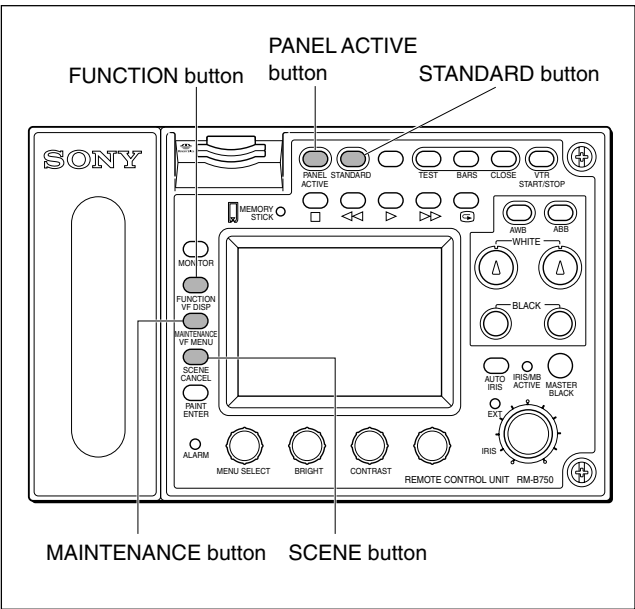
For details of data write procedure, refer to “Download Tool Operating Instruction for Device Programming” which is available in the same site where the PLD Download Tool software is available.

1. Prepare the Project file.

Note

Download the Project file from the Sony Database Server.

2. Turn off the power of this unit. Connect the PC parallel port to the EPR connector of the target board using the PLD download fixture (cable).
3. Turn on the power of this unit.
Start the Download Tool software and read the Project file.
4. Program the PLD (or ROM for PLD) with the Download Tool software.
5. Upon completion of programming, check that error message is not displayed. Turn off the power of this unit and back on.

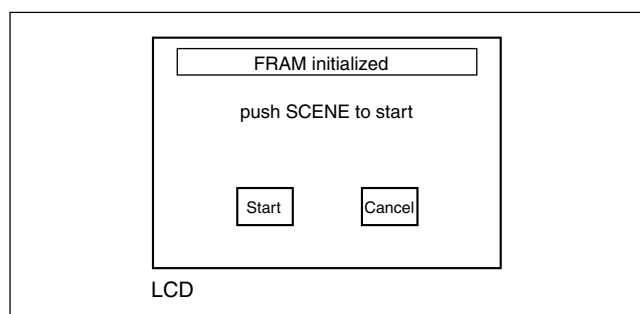


1-10-4. Note on Replacing the FRAM

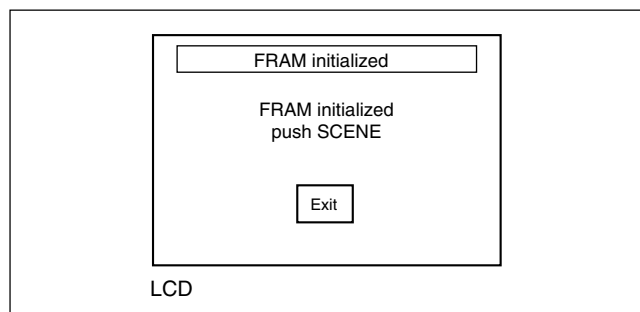
Initialize the FRAM (IC10, IC11) on the MPU-124 board as described below after replacing them.

Procedures

1. Press and light the PANEL ACTIVE button.
2. Press the PANEL ACTIVE, STANDARD and FUNCTION buttons simultaneously.
The Diag Mode 2 menu appears.
3. Press the SCENE button. FRAM initialized display appears.
4. Press **Start** or the SCENE button. Initializing will start.



5. On completing initializing, the message "FRAM initialized" appears.



6. Press **Exit** or the SCENE button to leave the menu.

1-10-5. Checking the Software Version

For checking the software version, follow the procedure described below.

Procedures

1. Press and light the PANEL ACTIVE button.
2. Press and light the MAINTENANCE button.
The maintenance menu appears.
3. Press **RM Config** in the maintenance menu. The display will be switched to the RM Configuration menu.
4. Press **Security** of the RM configuration menu to select the Security screen.
5. Press **Engineer** and set the engineer mode. Then press **Exit** to return to the RM configuration menu.
6. Press **Information** in the RM Configuration menu and check the software version.

1-10-6. Updating the Software

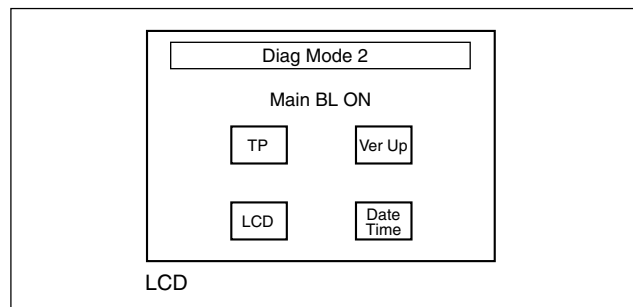
The program can be updated using a memory stick. When updating is necessary, follow the procedure described below.

Note

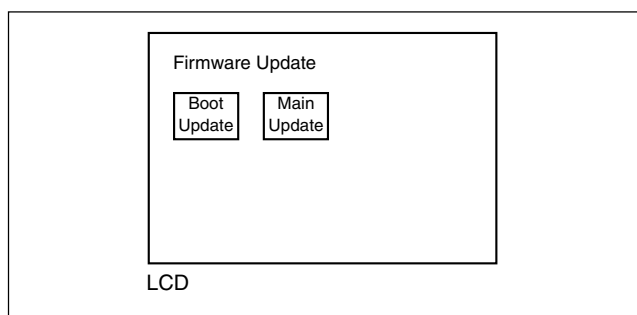
Save an updated program in a memory stick in advance.

Procedures

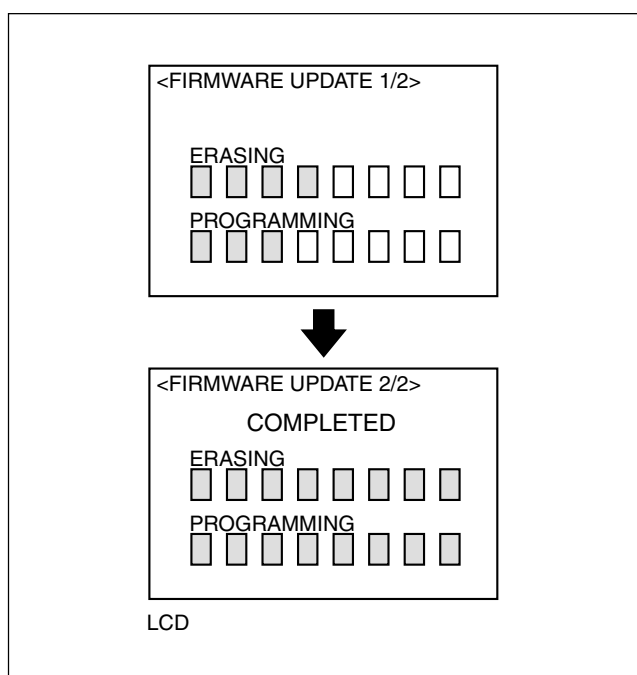
1. Insert the memory stick in which an updated program is already saved.
2. Press and light the PANEL ACTIVE button.
3. Press the PANEL ACTIVE, STANDARD and FUNCTION buttons simultaneously.
The Diag Mode 2 menu appears.
4. Press **Ver Up** in the Diag Mode 2 menu. The display will be switched to the Firmware Update display.



5. Press **Main Update**. Updating will start.



6. On completing updating, the message "COMPLETED" appears.



7. Finish updating in either way described below.
- While pressing the PANEL ACTIVE button, press the STANDARD button within one second to exit the menu.
 - Turn the power of the power supply unit to off, and then turn on.

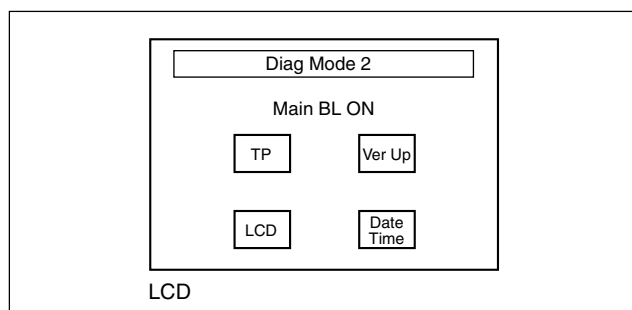
1-10-7. Touch Panel Calibration

If the display is not put into the appropriate mode, or is not switched to the appropriate screen when pressing the parameter on the LCD, calibrate the touch panel as described below.

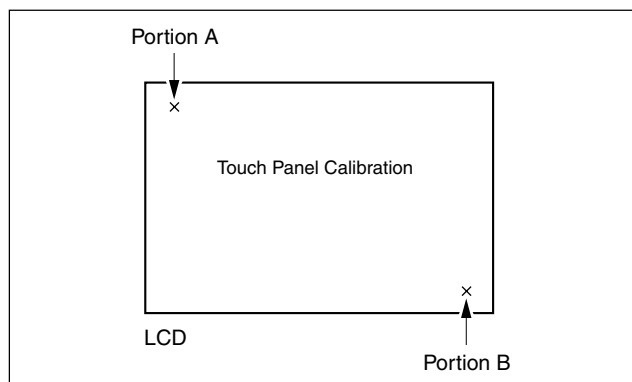
Tool: Stylus pen (commercially available) or the stick with thin tip which does not damage the touch panel.

Procedures

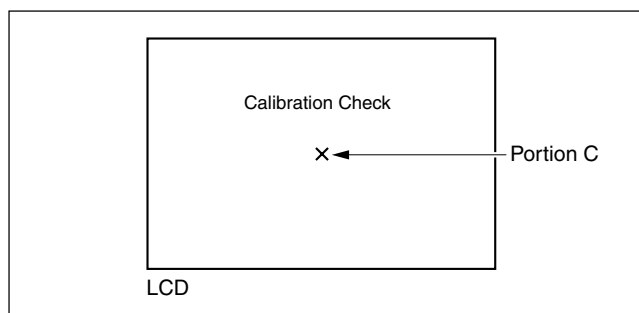
1. Press and light the PANEL ACTIVE button.
2. Press the PANEL ACTIVE, STANDARD and FUNCTION buttons simultaneously.
The Diag Mode 2 menu appears.
3. Press **TP** in the Diag Mode 2 menu.
The display will be switched to the Touch Panel Calibration display.
(If the display is not switched, press the PAINT button.)



4. Touch the center of × mark (Portion A) at the left top on the LCD first, and touch the center of × mark (Portion B) at the bottom right on the LCD using the stylus pen.
The display will be switched to the Calibration Check display.



- Touch the center of the X mark (Portion C) at the center on the Calibration Check display using the stylus pen.



- On completing calibration properly, the message "Calibration Complete" appears.
- When the calibration is failed, the message "Retry" appears and return to the Diag Mode 2 menu after few seconds.
Perform the steps 3 to 5 again.
- Press the PANEL ACTIVE and STANDARD buttons simultaneously to leave the menu.

1-10-8. Diagnosis

The unit is provided with the diagnosis function which can be used for the self-diagnosis of the knobs on the control panel by performing the following procedure.

- Press and light the PANEL ACTIVE button.
- Press the PANEL ACTIVE, STANDARD and MONITOR buttons simultaneously to the diagnosis mode.
- For the diagnosis items, perform the operation or the checking as shown below.

Buttons

Turn off the lit button, and the next button will be lit. Then turn off the lit button. Repeat this operation in order from the all buttons.

Indicator, Access lamp

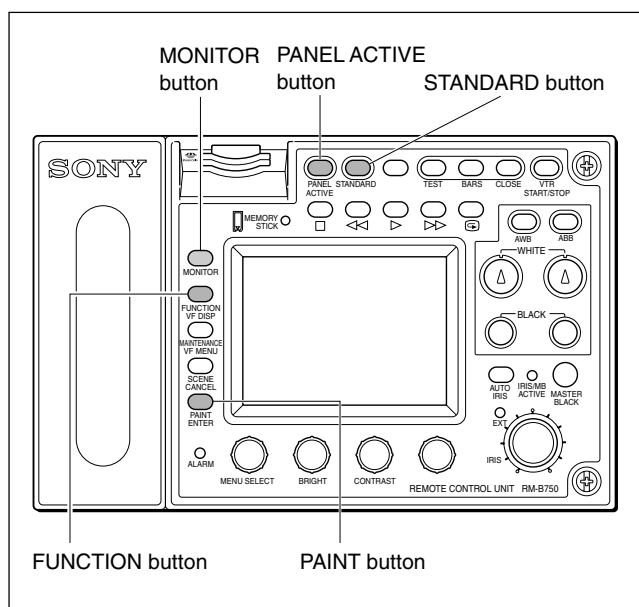
(EXT, MEMORY STICK, ALARM, IRIS/MB ACTIVE)

EXT : LED is flashing from amber.

MEMORY STICK, ALARM :

green → red → amber → off, and
back to green.

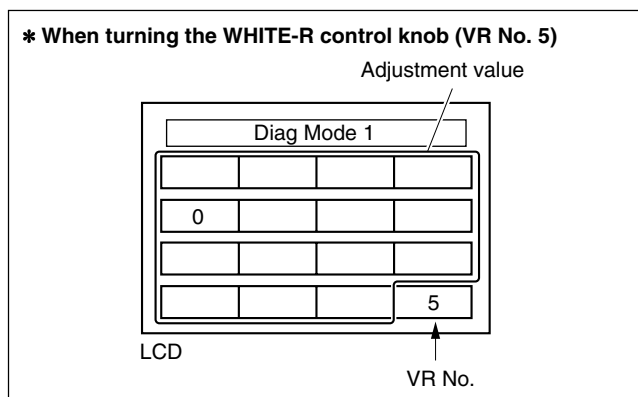
IRIS/MB ACTIVE : LED is flashing from green.



Controls, Rotary Encoder

Turn the controls from 01 to 15 in the following table in order, and check that the followings are satisfied using Diag Mode 1.

- When turning the control knob, the appropriate VR No. of this control knob is displayed at the bottom right on the LCD. Also the adjustment value is displayed in the appropriate box on the LCD.
(The display position of the VR No is assigned in order of VR No. 01 and 02 from the upper left on the LCD.)
- The variable range of the adjustment value which is displayed by turning the control knob is coincide with the value of the adjustable range column in the following table.



VR No.	Adjustment controls	Adjustable range
01	Rotary encoder 1 *1	-99 to +99
02	Rotary encoder 2 *1	
03	Rotary encoder 3 *1	
04	Rotary encoder 4 *1	
05	WHITE-R	-90 (or less) to
06	—	+90 (or more)
07	WHITE-B	
08	—	
09	BLACK-R	
10	—	
11	BLACK-B	
12	MASTER BLACK control	
13	IRIS control	
14	—	
15	—	

*1: The rotary encoder 1 is the left most of the control knob.

- Press the PANEL ACTIVE and STANDARD buttons simultaneously to leave the menu.

1-10-9. Circuit Protective Elements

The positive characteristic thermistor (for power supply) functions as a circuit protective element on the VR-277 board (B side) of the unit shown below. The thermistor increases the internal resistance and limits the current flowing to the circuits when an overcurrent flows or when the ambient temperature increases and the element reaches the specified temperature. If the element operates, turn off the main power and inspect the RM-B750 internal circuit. After removing the cause of the equipment abnormality and the temperature of the element decreases, turn on the power again and operate the unit correctly. It takes about 1 minute for the elements to cool down after the main power is turned off.

Borad	Ref.No.	Address	Protective circuit/equipment
VR-277	THP203	C-2	Circuit inside the board
	THP205	B-2	

1-10-10. 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.

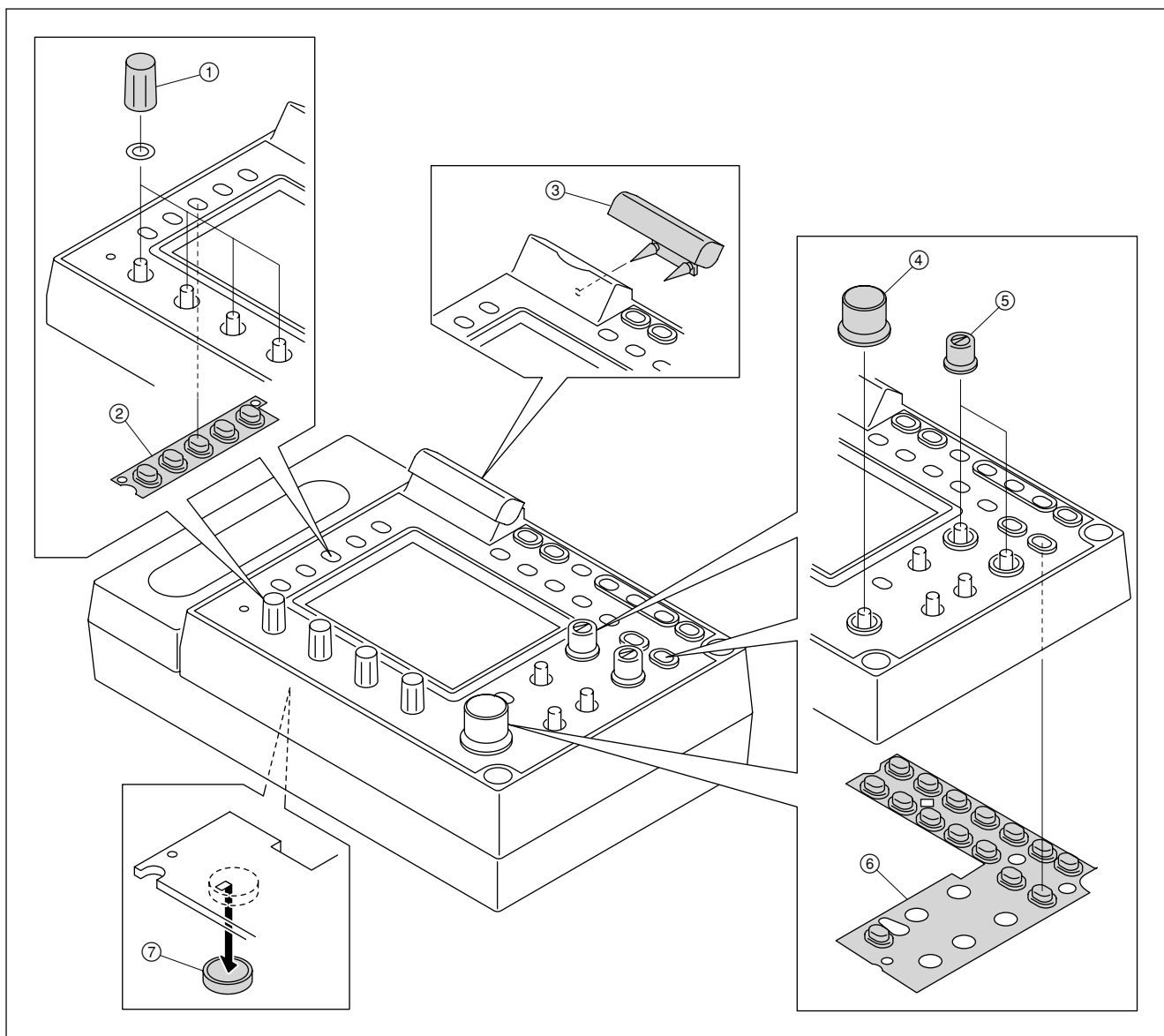
1-11. Recommended Replacement Parts

The list below shows the recommended replacement parts. Replace them as needed.

No.	Part name	Sony part number	Remarks
1	KNOB, RE	3-635-891-0X	Rubber part *1
2	RUBBER KEY B	3-620-281-0X	Rubber part *1
3	MS LID	3-620-276-0X	Rubber part *1
4	KNOB ASSY, VOLUME CONTROL	X-3651-342-X	Rubber part *1
5	WHITE KNOB ASSY	X-3608-461-X	Rubber part *1
6	RUBBER KEY A	3-620-280-0X	Rubber part *1
7	BATTERY, LITHIUM CR2032	1-528-174-1X	Replace it every 7 years.

*1 : Check that parts are not deformed or deteriorated periodically. Replace them as needed.

*2 : Refer to Section 1-10-1.



Section 2

Electrical Alignment

2-1. Preparation

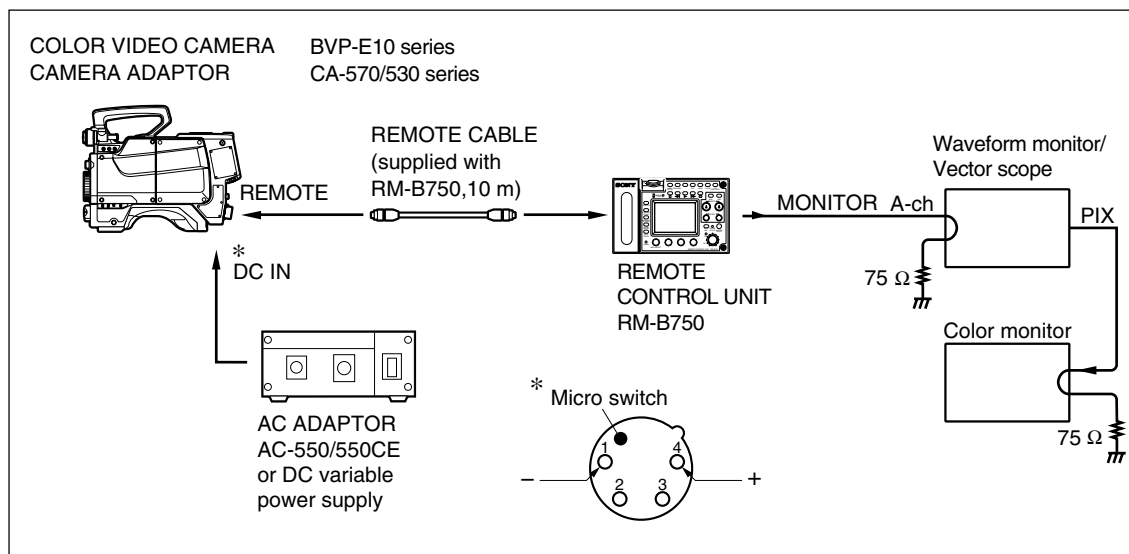
Measuring Equipment

- Waveform monitor/Vectorscope Tektronix 1780R (for NTSC)/1781R (for PAL) or equivalent
- Color monitor

Peripheral Equipment

- BVP-E10 + CA-530/570/950, or
HDC-950/930
(The video output should be present at the remote connector.)
- AC adaptor AC-550/550CE, or DC variable power supply

Connection



If using a DC variable power supply to drive power, connect the positive (+) side of the power supply to pin 4 of the DC IN connector on the camera adaptor, and negative (−) side to pin 1.

Note

When the power is supplied via the DC IN connector, be sure to press the micro switch on the DC IN connector, that turns on the power. It is recommended to use an XLR plug when driving power via the DC IN connector.

Initial settings

- PANEL ACTIVE button/Operation panel : ON (lit)
- Test signal select button/Operation panel : BARS
- CABLE COMP SELECT*1 : 10 m

*1 : To select the cable length, use the menu of this unit. For details, refer to the operation manual supplied with the unit.

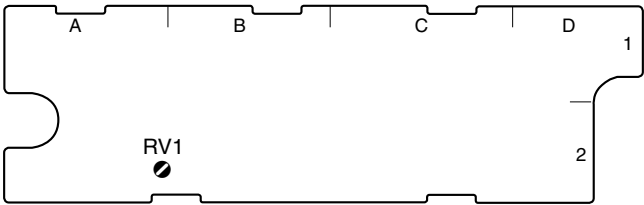
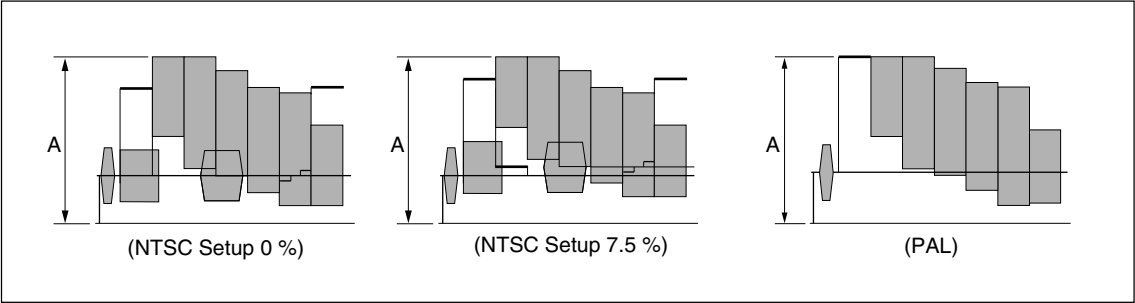
2-2. Adjusting the Video Level

Notes

- All measuring equipment shall be calibrated.
 - Also the alignment for the camera, camera adaptor and OHB shall be completed.
 - About ten-minute warm-up time is allowed before beginning adjustment.
 - The waveforms differ according to the specifications (TV standard and encoded level) of a camera connected to the unit during adjustment.
- In this manual, every waveform corresponding to the specifications is given.

Adjustment Procedure

Test Point : MONITOR connector
Adjustment Point : ●RV1/VA-211 board
Specification : $A = 1.00 \pm 0.05$ Vp-p (terminated with 75Ω)
(140 ± 7 IRE)



VA-211 board (A side)

Section 3

Spare Parts

3-1. 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.

4. Harness

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

In need of repair, get components shown in the list and repair using them.

3-1. 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

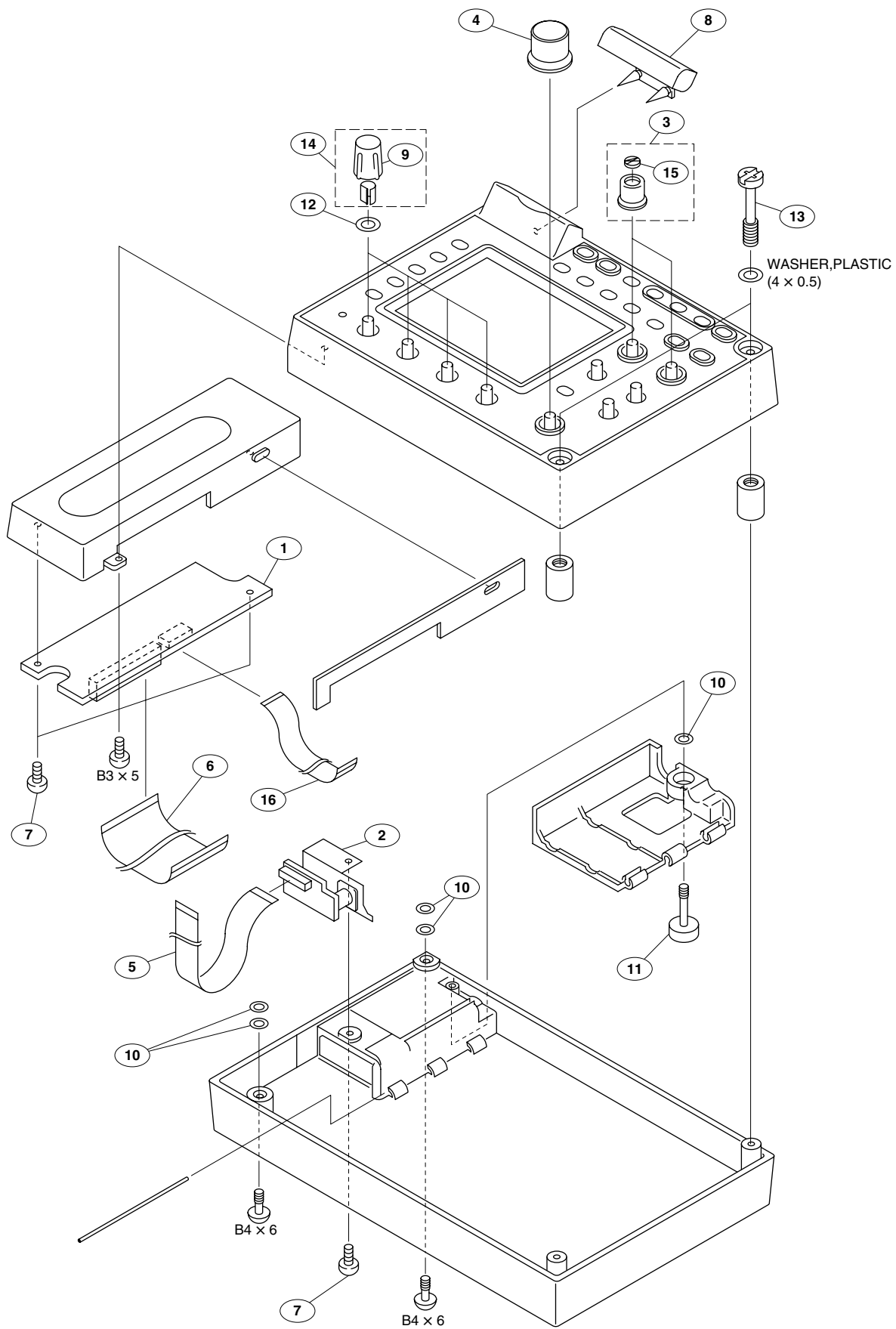
部品表のSP (Supply code) 欄に “o” で示される部品は在庫していないことがあり、納期が長くなることがあります。

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ていません。

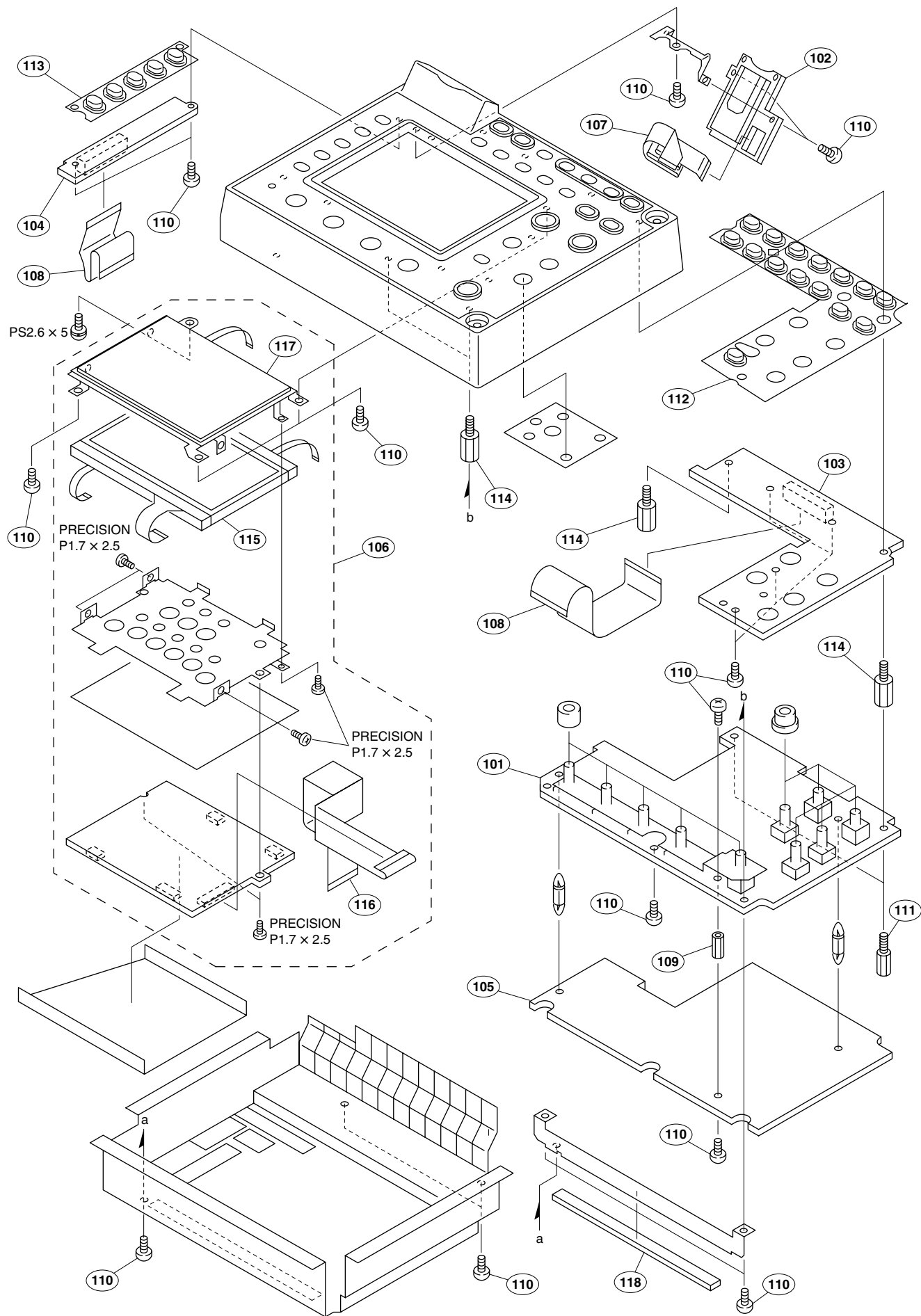
これらは、リストに展開されているコンポーネント部品で補修してください。

3-2. Exploded Views



No.	Part No.	SP Description
1	A-8345-286-A	s MOUNTED CIRCUIT BOARD, VA-211
2	A-8345-288-A	s MOUNTED CIRCUIT BOARD, CN-2308
3	X-3608-461-1	s WHITE KNOB ASSY
4	X-3651-342-0	s KNOB ASSY,VOLUME CONTROL
5	1-574-144-11	s WIRE, FLAT TYPE (12 CORE)
6	1-775-422-11	s WIRE,FLAT TYPE(30CORE)
7	3-364-941-01	s SCREW (+B) (2.6X5),NYLOK
8	3-620-276-02	s MS LID
9	3-635-891-02	s KNOB,RE
10	3-687-116-01	o WASHER(4),STOPPER (PLA)
11	3-697-760-11	s SCREW,COIN
12	3-701-444-21	s WASHER PLASTIC 6.2X0.5)
13	3-729-091-01	s SCREW (M4X17.5) (STEEL)
14	A-8279-951-A	s KNOB ASSY,RE
15	2-141-015-41	s PLATE,COLOR
16	1-769-629-11	s WIRE,FLAT TYPE (12P)
	7-623-925-01	s WASHER,PLASTIC (4X0.5)
	7-682-546-04	s SCREW +B3X5
	7-682-560-09	s SCREW +B4X6

LCD Unit and Board Block



No.	Part No.	SP Description
101	A-8345-277-A	s MOUNTED CIRCUIT BOARD, VR-277
102	A-8345-278-A	s MOUNTED CIRCUIT BOARD, CN-2278
103	A-8345-279-A	s MOUNTED CIRCUIT BOARD, LED-385
104	A-8345-281-A	s MOUNTED CIRCUIT BOARD, LED-389
105	A-8345-285-A	s MOUNTED CIRCUIT BOARD, MPU-124
106	1-477-236-23	s LCD UNIT (RM)
107	1-574-144-11	s WIRE, FLAT TYPE (12 CORE)
108	1-769-630-12	s WIRE, FLAT TYPE (25 CORE)
109	2-130-288-01	o SUPPORT
110	3-364-941-01	s SCREW (+B) (2.6X5), NYLOK
111	3-608-438-01	o SUPPORT, HEXAGON
112	3-620-280-01	s RUBBER KEY A
113	3-620-281-02	s RUBBER KEY B
114	3-680-844-01	o SPACER
115	9-885-023-12	s BACK LIGHT
116	9-885-023-13	s CABLE (RCP), FLAT
117	9-885-026-98	s PANEL (RM), TOUCH
118	9-911-844-99	o SHEET, SPONGE
	7-627-552-07	s SCREW, PRECISION+P1.7X2.5
	7-628-254-00	s SCREW +PS2.6X5

3-3. Electrical Parts List

----- CN-2278 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8345-278-A	s MOUNTED CIRCUIT BOARD, CN-2278
CN1	1-794-917-11	s CONNECTOR, MEMORY STICK
CN2	1-770-297-21	o HOUSING, CONNECTOR 12P

----- CN-2308 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8345-288-A	s MOUNTED CIRCUIT BOARD, CN-2308
2pcs	3-165-162-01	s SCREW(+P2.6X5) (TYPE 1) (ST)
CN1	1-766-696-11	o CONNECTOR, ROUND TYPE 8P
CN2	1-561-336-00	s CONNECTOR, COAXIAL
CN3	1-770-297-21	o HOUSING, CONNECTOR 12P

----- LED-385 BOARD

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

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8345-279-A	s MOUNTED CIRCUIT BOARD, LED-385
C1	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C2	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C3	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C4	1-165-872-11	s CAPACITOR, SOLID ELECT 47MF
C5	1-126-394-11	s CAPACITOR, ELECT 10MF/16V(CHIP)
C6	1-126-394-11	s CAPACITOR, ELECT 10MF/16V(CHIP)
CN1	1-785-207-11	s HOUSING, CONNECTOR 25P
D1	*1 8-719-037-96	s LED CL-190G-CD
	*2 6-500-276-01	s DIODE CL-191G1-C-T
D2	8-719-991-00	s DIODE DAP222
D3	8-719-038-03	s LED CL-190Y-CD-T
D4	8-719-991-00	s DIODE DAP222
D5	8-719-061-16	s LED CL-190SR-C
D6	8-719-991-00	s DIODE DAP222
D7	*1 8-719-037-96	s LED CL-190G-CD
	*2 6-500-276-01	s DIODE CL-191G1-C-T
D8	8-719-038-03	s LED CL-190Y-CD-T
D9	8-719-061-16	s LED CL-190SR-C
D10	8-719-038-03	s LED CL-190Y-CD-T
D11	8-719-991-00	s DIODE DAP222
D12	8-719-038-03	s LED CL-190Y-CD-T
D13	8-719-991-00	s DIODE DAP222
D14	8-719-038-03	s LED CL-190Y-CD-T
D15	8-719-991-00	s DIODE DAP222
D16	8-719-038-03	s LED CL-190Y-CD-T
D17	8-719-038-03	s LED CL-190Y-CD-T
D18	8-719-038-03	s LED CL-190Y-CD-T
D19	8-719-038-03	s LED CL-190Y-CD-T
D20	8-719-991-00	s DIODE DAP222
D21	8-719-038-03	s LED CL-190Y-CD-T
D22	8-719-991-00	s DIODE DAP222
D23	*1 8-719-037-96	s LED CL-190G-CD
	*2 6-500-276-01	s DIODE CL-191G1-C-T
D24	8-719-038-03	s LED CL-190Y-CD-T
D25	8-719-061-16	s LED CL-190SR-C
D26	8-719-038-03	s LED CL-190Y-CD-T
D28	8-719-054-22	s LED SML-020MLTT87
IC1	8-759-472-61	s IC 74VHC573MTCX
IC2	8-759-472-61	s IC 74VHC573MTCX
IC3	8-759-472-61	s IC 74VHC573MTCX
L1	*1 1-410-478-11	s MICRO INDUCTOR 47UH
	*2 1-410-389-31	s INDUCTOR, CHIP 47UH(3225)
Q1	8-729-929-08	s TRANSISTOR DTC123JE
Q2	8-729-929-08	s TRANSISTOR DTC123JE
Q3	8-729-929-08	s TRANSISTOR DTC123JE
Q4	8-729-929-08	s TRANSISTOR DTC123JE
Q5	8-729-929-08	s TRANSISTOR DTC123JE
Q6	8-729-929-08	s TRANSISTOR DTC123JE
Q7	8-729-929-08	s TRANSISTOR DTC123JE
Q8	8-729-929-08	s TRANSISTOR DTC123JE
Q9	8-729-929-08	s TRANSISTOR DTC123JE
Q10	8-729-929-08	s TRANSISTOR DTC123JE

(LED-385 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q11	8-729-929-08	s	TRANSISTOR DTC123JE
Q12	8-729-929-08	s	TRANSISTOR DTC123JE
Q13	8-729-929-08	s	TRANSISTOR DTC123JE
Q14	8-729-929-08	s	TRANSISTOR DTC123JE
Q15	8-729-929-08	s	TRANSISTOR DTC123JE
Q16	8-729-929-08	s	TRANSISTOR DTC123JE
Q17	8-729-929-08	s	TRANSISTOR DTC123JE
Q18	8-729-929-08	s	TRANSISTOR DTC123JE
Q20	8-729-929-08	s	TRANSISTOR DTC123JE
Q21	8-729-929-08	s	TRANSISTOR DTC123JE
R1	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R2	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R3	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R4	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R5	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R6	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R7	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R8	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R9	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R10	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R11	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R12	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R13	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R14	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R15	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R16	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R17	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R18	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R20	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R21	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)

LED-389 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8345-281-A	s	MOUNTED CIRCUIT BOARD, LED-389
C1	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C2	1-165-872-11	s	CAPACITOR,SOLID ELECT 47MF
CN1	1-785-207-11	s	HOUSING, CONNECTOR 25P
D1	8-719-038-03	s	LED CL-190Y-CD-T
D2	8-719-991-00	s	DIODE DAP222
D3	8-719-047-66	s	LED CL-190D-CD
D4	8-719-038-03	s	LED CL-190Y-CD-T
D5	8-719-991-00	s	DIODE DAP222
D6	8-719-038-03	s	LED CL-190Y-CD-T
D7	8-719-038-03	s	LED CL-190Y-CD-T
D8	8-719-991-00	s	DIODE DAP222
D9	8-719-054-22	s	LED SML-020MLT87
IC1	8-759-472-61	s	IC 74VHC573MTCX
L1	1-410-389-31	s	INDUCTOR,CHIP 47UH (3225)
Q1	8-729-929-08	s	TRANSISTOR DTC123JE
Q2	8-729-929-08	s	TRANSISTOR DTC123JE
Q3	8-729-929-08	s	TRANSISTOR DTC123JE
Q4	8-729-929-08	s	TRANSISTOR DTC123JE
Q5	8-729-929-08	s	TRANSISTOR DTC123JE
Q6	8-729-929-08	s	TRANSISTOR DTC123JE
Q7	8-729-929-08	s	TRANSISTOR DTC123JE
R1	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R2	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R3	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R4	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R5	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R6	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R7	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)

MPU-124 BOARD [Board No. suffix 21-]

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8345-285-A	s MOUNTED CIRCUIT BOARD, MPU-124
1pc	6-707-760-01	s IC MBM29DL161TE90TN
1pc	Δ 1-528-174-11	s BATTERY, LITHIUM (CR2032 TYPE)
BT1	1-756-076-21	s HOLDER, LITHIUM BATTERY
C1	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C2	1-127-692-11	s CAP, CHIP CERAMIC 10MF B 3216
C3	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C4	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C5	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C6	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C7	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C8	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C9	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C10	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C11	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C13	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C14	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C15	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C16	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C17	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C18	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C19	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C20	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C21	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C23	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C24	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C25	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C26	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C31	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C32	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C33	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C34	1-128-414-11	s CAPACITOR ELECT 220MF/6.3V
C123	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C124	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C125	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C126	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C127	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C128	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C129	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C130	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C131	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C132	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C133	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C134	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C135	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C136	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C137	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C138	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C139	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C140	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C141	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C142	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C143	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C144	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C145	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C146	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C147	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C148	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B

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Ref. No. or Q'ty	Part No.	SP Description
C149	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C150	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C160	1-128-414-11	s CAPACITOR ELECT 220MF/6.3V
C161	1-128-414-11	s CAPACITOR ELECT 220MF/6.3V
C201	1-162-921-11	s CAPACITOR, CERAMIC 33PF/50V CH
C203	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C204	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C205	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C207	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C208	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C209	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C210	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C212	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C213	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C214	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C215	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C216	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C217	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C222	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C223	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C225	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C226	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C227	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
CN101	1-764-093-21	o PIN, CONNECTOR (PC BOARD) 8P
CN103	1-785-848-11	o CONNECTOR, BOARD TO BOARD 100P
CN104	1-766-431-21	o HOUSING, CONNECTOR 30P
CN201	1-770-297-21	o HOUSING, CONNECTOR 12P
D217	8-719-991-00	s DIODE DAP222
D218	8-719-036-80	s DIODE RD3.9SB
E1	1-535-757-11	s CHIP, CHECKER (CONNECTOR)
E2	1-535-757-11	s CHIP, CHECKER (CONNECTOR)
FB2	1-469-094-11	s FERRITE, EMI (SMD)
FB3	1-469-094-11	s FERRITE, EMI (SMD)
FB4	1-469-094-11	s FERRITE, EMI (SMD)
FB5	1-469-094-11	s FERRITE, EMI (SMD)
FB101	1-469-094-11	s FERRITE, EMI (SMD)
IC1	8-759-669-69	s IC TLC7733IPWR-12
IC2	8-759-082-57	s IC TC7W04FU
IC3	8-759-083-94	s IC TC7W74FU
IC4	8-759-083-94	s IC TC7W74FU
IC5	8-759-568-63	s IC HD6437043AE65F
IC6	6-802-246-02	s IC 29DL161TE-RMB750-BOOT
IC7	8-759-524-10	s IC TC74VHC157FT (EL)
IC8	6-707-242-01	s IC R1LV0416CSB-5SI
IC9	6-707-242-01	s IC R1LV0416CSB-5SI
IC10	6-704-988-01	s IC FM18L08-70-STR
IC14	8-759-082-57	s IC TC7W04FU
IC17	8-759-566-06	s IC TC7WH08FU (TE12R)
IC19	8-759-566-06	s IC TC7WH08FU (TE12R)
IC21	6-704-988-01	s IC FM18L08-70-STR
IC104	8-759-472-39	s IC 74VHC244MTCX
IC105	6-801-953-01	s IC MB90099PFV-G-119-BND
IC106	6-700-387-01	s IC EPC2LC20-TP
IC107	6-706-487-01	s IC TC7SH08FU (T5RSOYJF)
IC108	8-752-371-65	s IC CXD2304R
IC109	8-759-712-68	s IC EP1K50QC208-3
IC110	8-759-662-38	s IC 74VHCT08AMTCX

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Ref. No. or Q'ty	Part No.	SP	Description
IC113	8-759-530-05	s	IC TC4053BFT (EL.N)
IC201	8-759-594-17	o	IC CXD9093R
IC202	8-759-996-82	s	IC MSM82C55A-2GS
IC203	8-759-337-40	s	IC NJM2904V(Te2)
IC204	8-759-996-82	s	IC MSM82C55A-2GS
IC205	8-759-071-01	s	IC UPD4991AGS
IC206	8-759-584-32	s	IC MB86189PFV-G-BND-ER
IC207	8-759-092-81	s	IC SN75158PS
IC208	8-759-662-38	s	IC 74VHCT08AMTCX
IC209	8-759-662-38	s	IC 74VHCT08AMTCX
IC214	8-759-471-91	s	IC 74VHC04MTCX
IC215	8-759-566-06	s	IC TC7WH08FU(Te12R)
IC217	8-759-471-96	s	IC 74VHC08MTCX
IC218	8-759-337-40	s	IC NJM2904V(Te2)
L1	1-414-398-11	s	INDUCTOR (SMD) 10UH
L2	1-414-398-11	s	INDUCTOR (SMD) 10UH
L3	1-414-398-11	s	INDUCTOR (SMD) 10UH
L4	1-414-398-11	s	INDUCTOR (SMD) 10UH
L5	1-414-398-11	s	INDUCTOR (SMD) 10UH
L107	1-414-400-11	s	INDUCTOR, 22UH
L109	1-414-398-11	s	INDUCTOR (SMD) 10UH
L110	1-414-398-11	s	INDUCTOR (SMD) 10UH
L111	1-416-510-21	s	COIL, CHOKE 100UH
L112	1-416-510-21	s	COIL, CHOKE 100UH
L113	1-416-510-21	s	COIL, CHOKE 100UH
L114	1-414-398-11	s	INDUCTOR (SMD) 10UH
L115	1-414-398-11	s	INDUCTOR (SMD) 10UH
L201	1-414-404-11	s	INDUCTOR (SMD) 100UH
PH201	8-749-014-35	s	IC HCPL-0630-500
Q201	8-729-117-32	s	TRANSISTOR 2SC4177
Q202	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q203	8-729-928-81	s	TRANSISTOR DTC144EE
Q204	8-729-807-34	s	TRANSISTOR 2SB1123-S
R1	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R4	1-218-989-11	s	RESISTOR,CHIP 1M 1/16W (1005)
R5	1-218-989-11	s	RESISTOR,CHIP 1M 1/16W (1005)
R6	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R7	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R8	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R9	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R10	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R11	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R12	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R13	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R14	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R15	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R16	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R17	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R18	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R20	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R22	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R23	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R25	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R26	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R27	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R28	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R30	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R31	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R33	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R34	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R35	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R36	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R117	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R118	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R122	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R124	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R125	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R126	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R128	1-208-671-11	s	RESISTOR CHIP 330 1/16W (1005)
R129	1-208-671-11	s	RESISTOR CHIP 330 1/16W (1005)
R130	1-208-671-11	s	RESISTOR CHIP 330 1/16W (1005)
R131	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R133	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R134	1-218-864-11	s	RESISTOR,CHIP 5.1K 1/10W(1608)
R135	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R136	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R137	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R138	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R139	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R140	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R141	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R142	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R143	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R144	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R145	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R146	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R147	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R148	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R149	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R151	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R152	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R153	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R170	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R171	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R172	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R173	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R174	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R175	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R176	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R177	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R178	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R179	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R180	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R181	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R185	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R189	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R190	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R191	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R192	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R201	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R202	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R203	1-208-661-11	s	RESISTOR CHIP 120 1/16W (1005)
R204	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R205	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R207	1-208-703-11	s	RESISTOR,CHIP 6.8K 1/16W(1005)
R208	1-208-703-11	s	RESISTOR,CHIP 6.8K 1/16W(1005)
R209	1-208-703-11	s	RESISTOR,CHIP 6.8K 1/16W(1005)

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Ref. No. or Q'ty	Part No.	SP Description
R210	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R211	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R212	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R213	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R214	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R215	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R216	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R217	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R218	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R219	1-218-849-11	s RESISTOR,CHIP 1.2K 1/10W(1608)
R220	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R221	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R222	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R223	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R224	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R225	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R226	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R227	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R228	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R229	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R230	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R231	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R232	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R233	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R234	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R235	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R236	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R237	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R238	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R239	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R240	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R243	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R244	1-208-677-11	s RESISTOR CHIP 560 1/16W (1005)
R248	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R249	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R251	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R254	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R255	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R256	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R257	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R258	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R259	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R260	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R261	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R262	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R263	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R264	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R265	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R266	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R268	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
RB1	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB2	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB3	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB4	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB5	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB6	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB7	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB8	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB9	1-234-381-21	s RES, NETWORK 100KX4 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
RB10	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB11	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB12	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB13	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB14	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB15	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB16	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB17	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB18	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB19	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB20	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB21	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB22	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB23	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB24	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB25	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB26	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB27	1-234-380-11	s RESISTOE,NETWORK 47KX4 (1005)
RB28	1-234-380-11	s RESISTOE,NETWORK 47KX4 (1005)
RB29	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB30	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB101	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB103	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB104	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB105	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB106	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB108	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB110	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB113	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB114	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB115	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB116	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB117	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB201	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB202	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB203	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB204	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB205	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB206	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB207	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB208	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB209	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB210	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB211	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB212	1-234-381-21	s RES, NETWORK 100KX4 (1005)
S201	1-692-271-31	s SWITCH, SLIDE
S206	1-570-711-11	s SWITCH,SLIDE
X1	1-767-347-11	s VIBRATOR, CRYSTAL
X2	1-760-435-11	s VIBRATOR, CRYSTAL
X201	1-781-696-11	s VIBRATOR, CRYSTAL

MPU-124 BOARD [Board No. suffix 13]

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8345-285-A	s	MOUNTED CIRCUIT BOARD, MPU-124
BT1	Δ 1-528-174-31	s	BATTERY, LITHIUM CR2032
	1-756-076-11	s	HOLDER, LITHIUM BATTERY
C1	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C2	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C3	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C4	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C5	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C6	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C7	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C8	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C9	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C10	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C11	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C13	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C14	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C15	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C16	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C17	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C18	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C19	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C20	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C21	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C22	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C23	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C24	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C25	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C26	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C27	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C28	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C29	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C30	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C31	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C32	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C33	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C34	1-128-414-11	s	CAPACITOR ELECT 220MF/6.3V
C123	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C124	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C125	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C126	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C127	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C128	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C129	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C130	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C131	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C132	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C133	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C134	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C135	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C136	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C137	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C138	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C139	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C140	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C141	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C142	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C143	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C144	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C145	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C146	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C147	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C148	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C149	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C150	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C160	1-128-414-11	s	CAPACITOR ELECT 220MF/6.3V
C161	1-128-414-11	s	CAPACITOR ELECT 220MF/6.3V
C201	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH
C203	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C204	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C205	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
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	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C215	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C216	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C217	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
C225	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C226	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C227	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
CN101	1-764-093-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN103	1-785-848-11	o	CONNECTOR, BOARD TO BOARD 100P
CN104	1-766-431-21	o	HOUSING, CONNECTOR 30P
CN201	1-770-297-21	o	HOUSING, CONNECTOR 12P
D217	8-719-991-00	s	DIODE DAP222
D218	8-719-036-80	s	DIODE RD3.9SB
E1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E2	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
FB2	1-469-094-11	s	FERRITE, EMI (SMD)
FB3	1-469-094-11	s	FERRITE, EMI (SMD)
FB4	1-469-094-11	s	FERRITE, EMI (SMD)
FB5	1-469-094-11	s	FERRITE, EMI (SMD)
FB101	1-469-094-11	s	FERRITE, EMI (SMD)
IC1	8-759-669-69	s	IC TLC7733IPWR-12
IC2	8-759-082-57	s	IC TC7W04FU
IC3	8-759-083-94	s	IC TC7W74FU
IC4	8-759-083-94	s	IC TC7W74FU
IC5	8-759-568-63	s	IC HD6437043AE65F
IC6	6-802-246-01	s	IC 29DL161-RMB750-BOOT
IC7	8-759-524-10	s	IC TC74VHC157FT (EL)
IC8	6-701-043-11	s	IC HM62V16256CLTT-5SLZ
IC9	6-701-043-11	s	IC HM62V16256CLTT-5SLZ
IC10	6-701-040-01	s	IC FM1808-70-STR
IC11	6-701-040-01	s	IC FM1808-70-STR
IC12	8-759-578-68	s	IC SN74LVCC4245APWR
IC13	8-759-578-68	s	IC SN74LVCC4245APWR
IC14	8-759-082-57	s	IC TC7W04FU
IC17	8-759-566-06	s	IC TC7WH08FU (TE12R)
IC18	8-759-557-84	s	IC NC7SZ04P5X
IC19	8-759-566-06	s	IC TC7WH08FU (TE12R)

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Ref. No. or Q'ty	Part No.	SP Description
IC104	8-759-472-39	s IC 74VHC244MTCX
IC105	6-801-953-01	s IC MB90099PFV-G-119-BND
IC106	6-700-387-01	s IC EPC2LC20-TP
IC107	8-759-196-96	s IC TC7SH08FU (TE85R)
IC108	8-752-371-65	s IC CXD2304R
IC109	8-759-712-68	s IC EP1K50QC208-3
IC110	8-759-662-38	s IC 74VHCT08AMTCX
IC113	8-759-530-05	s IC TC4053BFT (EL.N)
IC201	8-759-594-17	o IC CXD9093R
IC202	8-759-996-82	s IC MSM82C55A-2GS
IC203	8-759-337-40	s IC NJM2904V(TE2)
IC204	8-759-996-82	s IC MSM82C55A-2GS
IC205	8-759-071-01	s IC UPD4991AGS
IC206	8-759-584-32	s IC MB86189PFV-G-BND-ER
IC207	8-759-092-81	s IC SN75158PS
IC208	8-759-662-38	s IC 74VHCT08AMTCX
IC209	8-759-662-38	s IC 74VHCT08AMTCX
IC214	8-759-471-91	s IC 74VHC04MTCX
IC215	8-759-566-06	s IC TC7WH08FU(TE12R)
IC217	8-759-471-96	s IC 74VHC08MTCX
IC218	8-759-337-40	s IC NJM2904V(TE2)
L1	1-414-398-11	s INDUCTOR (SMD) 10UH
L2	1-414-398-11	s INDUCTOR (SMD) 10UH
L3	1-414-398-11	s INDUCTOR (SMD) 10UH
L4	1-414-398-11	s INDUCTOR (SMD) 10UH
L5	1-414-398-11	s INDUCTOR (SMD) 10UH
L107	1-414-400-11	s INDUCTOR, 22UH
L109	1-414-398-11	s INDUCTOR (SMD) 10UH
L110	1-414-398-11	s INDUCTOR (SMD) 10UH
L111	1-416-510-21	s COIL, CHOKE 100UH
L112	1-416-510-21	s COIL, CHOKE 100UH
L113	1-416-510-21	s COIL, CHOKE 100UH
L114	1-414-398-11	s INDUCTOR (SMD) 10UH
L115	1-414-398-11	s INDUCTOR (SMD) 10UH
L201	1-414-404-11	s INDUCTOR (SMD) 100UH
PH201	8-749-014-35	s IC HCPL-0630-500
Q201	8-729-117-32	s TRANSISTOR 2SC4177
Q202	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q203	8-729-928-81	s TRANSISTOR DTC144EE
Q204	8-729-807-34	s TRANSISTOR 2SB1123-S
R1	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R4	1-218-989-11	s RESISTOR,CHIP 1M 1/16W (1005)
R5	1-218-989-11	s RESISTOR,CHIP 1M 1/16W (1005)
R6	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R7	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R8	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R9	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R10	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R11	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R12	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R13	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R14	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R15	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R16	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R17	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R18	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R20	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R22	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R23	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R24	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R25	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R26	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R27	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R28	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R30	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R31	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R33	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R34	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R35	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R36	1-208-707-11	s RESISTOR,CHIP 10K 1/16W (1005)
R117	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R118	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R122	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R124	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R125	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R126	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R128	1-208-671-11	s RESISTOR CHIP 330 1/16W (1005)
R129	1-208-671-11	s RESISTOR CHIP 330 1/16W (1005)
R130	1-208-671-11	s RESISTOR CHIP 330 1/16W (1005)
R131	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R133	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R134	1-218-864-11	s RESISTOR,CHIP 5.1K 1/10W(1608)
R135	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R136	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R137	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R138	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R139	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R140	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R141	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R142	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R143	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R144	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R145	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R146	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R147	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R148	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R149	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R151	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R152	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R153	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R170	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R171	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R172	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R173	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R174	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R175	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R176	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R177	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R178	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R179	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R180	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R181	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R185	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R189	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R190	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R191	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)

(MPU-124 BOARD [Board No. suffix 13])

Ref. No. or Q'ty	Part No.	SP	Description	
RB1	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB2	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB3	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB4	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB5	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB6	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB7	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB8	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB9	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB10	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB11	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB12	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB13	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB14	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB15	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB16	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB17	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB18	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB19	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB20	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB21	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB22	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB23	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB24	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB25	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB26	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB27	1-234-380-11	s	RESISTOE, NETWORK 47KX4	(1005)
RB28	1-234-380-11	s	RESISTOE, NETWORK 47KX4	(1005)
RB29	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB30	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB31	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB32	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB33	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB34	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB101	1-234-375-21	s	RES, NETWORK 1KX4	(1005)
RB103	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB104	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB105	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB106	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB108	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB110	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB113	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB114	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB115	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB116	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB117	1-234-372-11	s	RES, NETWORK 100X4	(1005)
RB201	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB202	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB203	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB204	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB205	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB206	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB207	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB208	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB209	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB210	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB211	1-234-381-21	s	RES, NETWORK 100KX4	(1005)
RB212	1-234-381-21	s	RES, NETWORK 100KX4	(1005)

(MPU-124 BOARD [Board No. suffix 13])

Ref. No. or Q'ty	Part No.	SP Description
S201	1-692-271-31	s SWITCH, SLIDE
S205	1-571-275-31	s SWITCH,SLIDE (1-1-2)
S206	1-570-711-11	s SWITCH,SLIDE
X1	1-767-347-11	s VIBRATOR, CRYSTAL
X2	1-760-435-11	s VIBRATOR, CRYSTAL
X201	1-760-458-21	s VIBRATOR, CRYSTAL

VA-211 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8345-286-A	s MOUNTED CIRCUIT BOARD, VA-211
C1	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C2	1-131-661-11	s CAPACITOR,ELECT 100MF/10V CHIP
C3	1-131-661-11	s CAPACITOR,ELECT 100MF/10V CHIP
C4	1-128-394-11	s CAPACITOR,ELECT 220MF/10V
C5	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C6	1-164-941-11	s CAPACITOR,CHIP CERAMIC 4700/16
C7	1-164-842-11	s CAPACITOR CERAMIC 2PF/16V 1005
C8	1-164-842-11	s CAPACITOR CERAMIC 2PF/16V 1005
C9	1-126-390-11	s CAPACITOR ELECT 22MF/6.3V(105)
C10	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C11	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C12	1-164-843-11	s CAPACITOR CHIP CERAMIC 3PF/16V
C13	1-164-842-11	s CAPACITOR CERAMIC 2PF/16V 1005
C15	1-164-844-11	s CAPACITOR,CHIP 4PF/16V (1005)
C17	1-164-842-11	s CAPACITOR CERAMIC 2PF/16V 1005
C19	1-164-844-11	s CAPACITOR,CHIP 4PF/16V (1005)
C21	1-164-842-11	s CAPACITOR CERAMIC 2PF/16V 1005
C23	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C24	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C26	1-164-842-11	s CAPACITOR CERAMIC 2PF/16V 1005
C27	1-110-530-11	s CAPACITOR ERECT 1000MF/6.3V
C28	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C29	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C30	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C31	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C32	1-119-923-11	s CAPACITOR,CHIP CERAMIC 0.047MF
C33	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C34	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C35	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C36	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C37	1-135-342-11	s CAPACITOR,SOLID ELECT 56MF
C38	1-135-342-11	s CAPACITOR,SOLID ELECT 56MF
C39	1-128-934-11	s CAPCITOR CHIP CERAMIC 0.33MF
C40	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C41	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C42	1-126-398-11	s CAPACITOR ELECT 4.7MF/35V(CHIP)
C43	1-164-941-11	s CAPACITOR,CHIP CERAMIC 4700/16
C44	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C45	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C46	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C47	1-125-837-11	s CAPACITOR,CHIP CERAMIC1MF/6.3V
C48	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C49	1-125-837-11	s CAPACITOR,CHIP CERAMIC1MF/6.3V
C50	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C51	1-125-837-11	s CAPACITOR,CHIP CERAMIC1MF/6.3V
C52	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C53	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C54	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C55	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C56	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C57	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C58	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C59	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C60	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C61	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C65	1-125-837-11	s CAPACITOR,CHIP CERAMIC1MF/6.3V
C66	1-115-414-11	s CAPACITOR,CHIP CERAMIC 820PF
C67	1-162-913-11	s CAPACITOR,CHIP CERAMIC 8PF/50V

(VA-211 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C69	1-162-913-11	s	CAPACITOR,CHIP CERAMIC 8PF/50V
C73	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C74	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C75	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C76	1-164-939-11	s	CAPACITOR,CHIP CERAMIC 2200PF
C80	1-164-937-11	s	CAPACITOR,CHIP CERAMIC 1000PF
C81	1-164-943-11	s	CAPACITOR,CHIP CERAMIC 0.01MF
C82	1-164-943-11	s	CAPACITOR,CHIP CERAMIC 0.01MF
C85	1-164-878-11	s	CAPACITOR, CHIP CERAMIC 150PF
C88	1-164-936-11	s	CAPACITOR,CHIP CERAMIC 680PF
C89	1-164-850-11	s	CAPACITOR,CERAMIC 10PF/16V CH
CN1	1-770-297-21	o	HOUSING, CONNECTOR 12P
CN2	1-793-293-11	s	CONNECTOR, FPC 12P
CN3	1-766-431-21	o	HOUSING, CONNECTOR 30P
D1	8-719-069-28	s	DIODE 1SS400TE61
D2	8-719-948-48	s	DIODE HSM88AS-TL (TL)
E1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
IC1	8-759-184-64	s	IC TC4W66FU
IC2	8-759-530-05	s	IC TC4053BFT (EL.N)
IC3	8-759-450-52	s	IC IR3Y29B4
IC4	8-759-344-12	s	IC GS4981CTA
IC5	6-700-655-01	s	IC LT1963ES8#TR
IC6	8-759-662-38	s	IC 74VHCT08AMTCX
L1	1-414-398-11	s	INDUCTOR (SMD) 10UH
L2	1-414-398-11	s	INDUCTOR (SMD) 10UH
L3	1-416-344-11	s	COIL, CHOKE 10UH
L4	1-414-521-11	s	INDUCTOR, SMALL TYPE 10.0UH
L5	1-414-398-11	s	INDUCTOR (SMD) 10UH
Q1	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q2	8-729-122-63	s	TRANSISTOR 2SA1226-E4
Q3	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q4	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q5	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q6	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q7	8-729-122-63	s	TRANSISTOR 2SA1226-E4
Q8	8-729-122-63	s	TRANSISTOR 2SA1226-E4
Q9	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q10	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q11	8-729-122-63	s	TRANSISTOR 2SA1226-E4
Q12	8-729-927-99	s	TRANSISTOR 2SC4617R
Q13	8-729-927-99	s	TRANSISTOR 2SC4617R
Q14	8-729-928-81	s	TRANSISTOR DTC144EE
Q15	8-729-027-57	s	TRANSISTOR DTC143XKA-T146
Q17	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q18	8-729-122-63	s	TRANSISTOR 2SA1226-E4
R1	1-208-860-11	s	RESISTOR CHIP 75 1/16W (1005)
R3	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R4	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R5	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R6	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R7	1-208-911-11	s	RESISTOR,CHIP 10K (1005)
R8	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R9	1-208-679-11	s	RESISTOR CHIP 680 1/16W (1005)
R10	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R11	1-208-911-11	s	RESISTOR, CHIP 10K (1005)

(VA-211 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R12	1-208-687-11	s	RESISTOR CHIP 1.5K 1/16W (1005)
R13	1-208-671-11	s	RESISTOR CHIP 330 1/16W (1005)
R14	1-208-679-11	s	RESISTOR CHIP 680 1/16W (1005)
R15	1-208-663-11	s	RESISTOR CHIP 150 1/16W (1005)
R16	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R17	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R18	1-208-679-11	s	RESISTOR CHIP 680 1/16W (1005)
R19	1-208-663-11	s	RESISTOR CHIP 150 1/16W (1005)
R20	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R21	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R22	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R23	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R24	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R25	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R26	1-208-911-11	s	RESISTOR,CHIP 10K (1005)
R27	1-208-911-11	s	RESISTOR,CHIP 10K (1005)
R28	1-208-911-11	s	RESISTOR,CHIP 10K (1005)
R29	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R30	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R31	1-208-911-11	s	RESISTOR,CHIP 10K (1005)
R32	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R33	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R34	1-208-703-11	s	RESISTOR,CHIP 6.8K 1/16W(1005)
R35	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R36	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R37	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R38	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R39	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R40	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R41	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R42	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R43	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R44	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R45	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R46	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R48	1-218-939-11	s	RESISTOR, CHIP 68 1/16W (1005)
R49	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R50	1-208-703-11	s	RESISTOR,CHIP 6.8K 1/16W(1005)
R51	1-208-911-11	s	RESISTOR,CHIP 10K (1005)
R52	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R53	1-218-989-11	s	RESISTOR,CHIP 1M 1/16W (1005)
R54	1-208-905-11	s	RESISTOR CHIP 5.6K (1005)
R55	1-208-909-11	s	RESISTOR,CHIP 8.2K 1/16W(1005)
R56	1-208-713-11	s	RESISTOR CHIP 18K 1/16W (1005)
R57	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R58	1-208-947-11	s	RESISTOR CHIP 330K 1/16W(1005)
R59	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R60	1-208-947-11	s	RESISTOR CHIP 330K 1/16W(1005)
R61	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R62	1-208-911-11	s	RESISTOR,CHIP 10K (1005)
R63	1-208-713-11	s	RESISTOR CHIP 18K 1/16W (1005)
R64	1-208-679-11	s	RESISTOR CHIP 680 1/16W (1005)
R65	1-208-679-11	s	RESISTOR CHIP 680 1/16W (1005)
R66	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R67	1-208-911-11	s	RESISTOR,CHIP 10K (1005)
R68	1-208-679-11	s	RESISTOR CHIP 680 1/16W (1005)
R69	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R70	1-208-911-11	s	RESISTOR,CHIP 10K (1005)
R71	1-208-935-11	s	RESISTOR, CHIP 100K (1005)

(VA-211 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R72	1-208-677-11	s RESISTOR CHIP 560 1/16W (1005)
R73	1-208-713-11	s RESISTOR CHIP 18K 1/16W (1005)
R74	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R75	1-208-713-11	s RESISTOR CHIP 18K 1/16W (1005)
R76	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R77	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R78	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R79	1-208-911-11	s RESISTOR,CHIP 10K (1005)
R80	1-208-911-11	s RESISTOR,CHIP 10K (1005)
R81	1-208-687-11	s RESISTOR CHIP 1.5K 1/16W (1005)
R82	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R83	1-208-909-11	s RESISTOR,CHIP 8.2K 1/16W(1005)
R84	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R86	1-208-911-11	s RESISTOR,CHIP 10K (1005)
R87	1-208-911-11	s RESISTOR,CHIP 10K (1005)
R88	1-208-955-11	s RESISTOR CHIP 680K
R89	1-208-911-11	s RESISTOR,CHIP 10K (1005)
R90	1-208-911-11	s RESISTOR,CHIP 10K (1005)
R91	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R92	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R93	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R94	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R95	1-208-911-11	s RESISTOR,CHIP 10K (1005)
R97	1-208-687-11	s RESISTOR CHIP 1.5K 1/16W (1005)
R100	1-218-849-11	s RESISTOR,CHIP 1.2K 1/10W(1608)
R101	1-208-679-11	s RESISTOR CHIP 680 1/16W (1005)
R107	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R108	1-218-849-11	s RESISTOR,CHIP 1.2K 1/10W(1608)
R109	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R110	1-208-687-11	s RESISTOR CHIP 1.5K 1/16W (1005)
R111	1-208-671-11	s RESISTOR CHIP 330 1/16W (1005)
R112	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R113	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R114	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R115	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R117	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R118	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R119	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R120	1-208-905-11	s RESISTOR CHIP 5.6K (1005)
R121	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R122	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R123	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R124	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R127	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R128	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R129	1-216-863-11	s RESISTOR,CHIP 3.3M 1/16W 1608
R130	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R131	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R132	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R133	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R134	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R135	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R136	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
RV1	1-225-787-21	s RES, ADJ, CERMET 500
RY1	1-755-380-21	s RELAY
TP1	1-535-757-11	s CHIP, CHECKER (CONNECTOR)
TP2	1-535-757-11	s CHIP, CHECKER (CONNECTOR)

(VA-211 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
TP3	1-535-757-11	s CHIP, CHECKER (CONNECTOR)
TP4	1-535-757-11	s CHIP, CHECKER (CONNECTOR)
X1	1-567-859-11	s VIBRATOR,CRYSTAL
X2	1-567-860-11	s VIBRATOR,CRYSTAL

VR-277 BOARD [Board No. suffix 22-]

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8345-277-A	s MOUNTED CIRCUIT BOARD, VR-277
BZ1	1-544-886-11	s BUZZER, PIEZOELECTRIC
C6	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C7	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C8	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C9	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C10	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C11	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C12	1-125-837-91	s CAPACITOR,CHIP CERAMIC1MF/6.3V
C15	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C16	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C19	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C20	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C21	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C24	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C25	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C26	1-165-811-11	s CAPACITOR CHIP CERAMIC 22MF B
C27	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C28	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C29	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C30	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C31	1-131-992-11	s CAP, CERAMIC 100000PF F 1608
C32	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C33	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C34	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C35	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C36	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C37	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C38	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C39	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C228	1-131-661-11	s CAPACITOR,ELECT 100MF/10V CHIP
C231	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C232	1-135-342-11	s CAPACITOR,SOLID ELECT 56MF
C235	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C238	1-126-396-11	s CAPACITOR,ELECT 47MF/16V(CHIP)
C250	1-126-396-11	s CAPACITOR,ELECT 47MF/16V(CHIP)
C255	1-131-661-11	s CAPACITOR,ELECT 100MF/10V CHIP
C301	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)
C302	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C303	1-164-862-11	s CAPACITOR,CHIP CERAMIC 33PF/50
C304	1-164-862-11	s CAPACITOR,CHIP CERAMIC 33PF/50
C305	1-164-937-11	s CAPACITOR,CHIP CERAMIC 1000PF
C306	1-164-937-11	s CAPACITOR,CHIP CERAMIC 1000PF
C307	1-164-858-11	s CAPACITOR,CERAMIC 22PF/50V
C308	1-164-878-11	s CAPACITOR, CHIP CERAMIC 150PF
C309	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C310	1-164-937-11	s CAPACITOR,CHIP CERAMIC 1000PF
C311	1-164-937-11	s CAPACITOR,CHIP CERAMIC 1000PF
C313	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C314	1-127-738-11	s CAPACITOR, CERAMIC 4.7MF/25V
C315	1-125-889-11	s CAPACITOR, CERAMIC 2.2MF
C316	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C317	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C318	1-165-629-11	s CAPACITOR,CERAMIC1000000PF B
C319	1-165-629-11	s CAPACITOR,CERAMIC1000000PF B
C320	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)
C321	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)

(VR-277 BOARD [Board No. suffix 22-])

Ref. No. or Q'ty	Part No.	SP Description
C322	1-127-738-11	s CAPACITOR, CERAMIC 4.7MF/25V
C323	1-127-738-11	s CAPACITOR, CERAMIC 4.7MF/25V
C324	1-135-341-11	s CAPACITOR,SOLID ELECT 330MF
C325	1-135-344-11	s CAPACITOR,SOLID ELECT 270MF
C326	1-135-344-11	s CAPACITOR,SOLID ELECT 270MF
C329	1-131-996-21	s CAPACITOR,SOLID ELECT 220MF
C330	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C331	1-135-342-11	s CAPACITOR,SOLID ELECT 56MF
C332	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C333	1-135-342-11	s CAPACITOR,SOLID ELECT 56MF
C359	1-127-738-11	s CAPACITOR, CERAMIC 4.7MF/25V
C360	1-127-738-11	s CAPACITOR, CERAMIC 4.7MF/25V
C362	1-164-874-11	s CAPACITOR,CHIP CERAMIC 100PF
C363	1-127-738-11	s CAPACITOR, CERAMIC 4.7MF/25V
C364	1-100-309-21	s CAP, ELECT 22MF
C365	1-165-629-11	s CAPACITOR,CERAMIC1000000PF B
C366	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)
C367	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)
C368	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)
C369	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)
C370	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)
C372	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)
C373	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C375	1-165-629-11	s CAPACITOR,CERAMIC1000000PF B
C376	1-127-573-11	s CAPACITOR,CERAMIC 1MF(2012)
C377	1-164-882-11	s CAPACITOR,CERAMIC 220PF/16V CH
C378	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
CN2	1-766-767-21	s CONNECTOR, FPC (12P)
CN3	1-764-875-21	s CONNECTOR, FPC (25P)
CN4	1-764-875-21	s CONNECTOR, FPC (25P)
CN6	1-784-625-11	o CONNECTOR, FFC (ZIF) 30P
D1	8-719-024-81	s DIODE 1SS300-TE85L
D302	8-719-069-28	s DIODE 1SS400TE61
D303	8-719-069-28	s DIODE 1SS400TE61
D304	8-719-046-87	s DIODE F1J6
D305	8-719-046-87	s DIODE F1J6
D310	8-719-989-00	s DIODE DA221
D311	8-719-046-87	s DIODE F1J6
D313	8-719-073-92	s DIODE RB060L-40TE25
EN1	1-477-592-11	s ENCODER, ROTARY
EN2	1-477-592-11	s ENCODER, ROTARY
EN3	1-477-592-11	s ENCODER, ROTARY
EN4	1-477-592-11	s ENCODER, ROTARY
FB1	1-469-094-11	s FERRITE, EMI (SMD)
FB2	1-469-094-11	s FERRITE, EMI (SMD)
FB3	1-469-094-11	s FERRITE, EMI (SMD)
FB301	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB302	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB303	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB304	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB305	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB306	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB307	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB308	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB309	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB310	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB311	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB312	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)

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Ref. No. or Q'ty	Part No.	SP Description
FB313	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB314	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB315	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB316	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB317	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB318	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB335	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB336	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB337	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB338	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB339	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB340	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
FB341	1-414-864-11	s INDUCTOR, MICRO (CHIP TYPE)
IC1	8-759-388-15	o IC HD6435328RE48F
IC2	8-759-524-23	s IC TC74VHC238FT (EL)
IC3	8-759-524-23	s IC TC74VHC238FT (EL)
IC4	8-759-531-92	s IC TC7WH04FU (TE12R)
IC5	8-759-471-91	s IC 74VHC04MTCX
IC6	8-759-471-91	s IC 74VHC04MTCX
IC7	8-759-471-91	s IC 74VHC04MTCX
IC11	8-759-257-96	s IC TC7S14FU (TE85R)
IC12	8-759-058-56	s IC TC7S02FU (TE85R)
IC204	6-700-655-01	s IC LT1963ES8#TR
IC206	6-700-655-01	s IC LT1963ES8#TR
IC301	8-759-597-57	s IC LTC1628CG#TR
IC302	6-700-655-01	s IC LT1963ES8#TR
IC303	6-701-041-01	s IC LT1619EMS8-E2
IC304	6-705-481-01	s IC LT1931ES5#TR
IC305	6-700-655-01	s IC LT1963ES8#TR
L5	1-414-398-11	s INDUCTOR (SMD) 10UH
L211	1-416-344-11	s COIL, CHOKE 10UH
L215	1-414-398-11	s INDUCTOR (SMD) 10UH
L216	1-410-283-11	s INDUCTOR
L301	1-416-344-11	s COIL, CHOKE 10UH
L302	1-416-606-11	s COIL, CHOKE (SMD)
L303	1-416-948-21	s COIL, CHOKE (SMD)
L304	1-416-344-11	s COIL, CHOKE 10UH
L305	1-416-344-11	s COIL, CHOKE 10UH
L312	1-416-344-11	s COIL, CHOKE 10UH
L313	1-416-948-21	s COIL, CHOKE (SMD)
L314	1-416-344-11	s COIL, CHOKE 10UH
L315	1-416-344-11	s COIL, CHOKE 10UH
L316	1-416-344-11	s COIL, CHOKE 10UH
L317	1-416-344-11	s COIL, CHOKE 10UH
L318	1-416-344-11	s COIL, CHOKE 10UH
L319	1-416-344-11	s COIL, CHOKE 10UH
Q1	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q2	8-729-928-81	s TRANSISTOR DTC144EE
Q304	8-729-040-83	s TRANSISTOR SI4450DY-T1
Q305	8-729-040-83	s TRANSISTOR SI4450DY-T1
Q306	8-729-040-83	s TRANSISTOR SI4450DY-T1
Q307	8-729-040-83	s TRANSISTOR SI4450DY-T1
Q316	8-729-046-85	s TRANSISTOR SI9945AEY-T1
R3	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R4	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R5	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R6	1-208-935-11	s RESISTOR, CHIP 100K (1005)

(VR-277 BOARD [Board No. suffix 22-])

Ref. No. or Q'ty	Part No.	SP Description
R7	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R8	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R9	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R10	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R11	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R12	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R13	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R14	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R15	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R16	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R17	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R18	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R19	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R20	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R21	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R22	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R23	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R24	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R25	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R26	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R27	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R28	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R29	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R30	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R31	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R32	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R33	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R34	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R35	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R36	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R37	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R217	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R218	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R219	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R220	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R222	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R223	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R224	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R225	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R235	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R237	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R238	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R239	1-208-683-11	s RESISTOR,CHIP 1K 1/16W (1005)
R240	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R241	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R242	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R301	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R304	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R305	1-218-967-11	s RESISTOR,CHIP 15K 1/16W (1608)
R306	1-218-953-11	s RESISTOR, CHIP 1K 1/16W
R307	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R308	1-218-977-11	s RESISTOR,CHIP 100K 1/16W(1005)
R309	1-208-939-11	s RESISTOR, CHIP 150K (1005)
R310	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R311	1-208-931-11	s RESISTOR, CHIP 68K (1005)
R312	1-208-679-11	s RESISTOR CHIP 680 1/16W (1005)
R314	1-218-977-11	s RESISTOR,CHIP 100K 1/16W(1005)
R315	1-218-929-11	s RESISTOR,CHIP 10 1/16W (1005)
R316	1-218-977-11	s RESISTOR,CHIP 100K 1/16W(1005)

(VR-277 BOARD [Board No. suffix 22-])

Ref. No. or Q'ty	Part No.	SP	Description
R317	1-218-985-11	s	RESISTOR CHIP 470K 1/16W(1005)
R318	1-219-610-11	s	RESISTOR, (SQUARE TYPE) 0.022
R319	1-219-610-11	s	RESISTOR, (SQUARE TYPE) 0.022
R320	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R321	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R322	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R323	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R324	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R325	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R326	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R327	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R341	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R342	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R343	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R344	1-208-703-11	s	RESISTOR,CHIP 6.8K 1/16W(1005)
R345	1-219-610-11	s	RESISTOR, (SQUARE TYPE) 0.022
R346	1-219-610-11	s	RESISTOR, (SQUARE TYPE) 0.022
R347	1-208-943-11	s	RESISTOR CHIP 220K
R348	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R349	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R350	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R351	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
RB1	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB2	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB3	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB4	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB5	1-234-380-11	s	RESISTOE,NETWORK 47KX4 (1005)
RB6	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB8	1-234-380-11	s	RESISTOE,NETWORK 47KX4 (1005)
RB9	1-234-380-11	s	RESISTOE,NETWORK 47KX4 (1005)
RB10	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB11	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB12	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB13	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB14	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB15	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB16	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB17	1-234-378-11	s	RES, NETWORK 10KX4 (1005)
RB18	1-234-378-11	s	RES, NETWORK 10KX4 (1005)
RB19	1-234-372-11	s	RES, NETWORK 100X4 (1005)
RB20	1-234-372-11	s	RES, NETWORK 100X4 (1005)
RV1	1-223-547-11	s	RES, VAR, CARBON 10K
RV2	1-223-547-11	s	RES, VAR, CARBON 10K
RV3	1-238-255-21	s	RESISTOR,VAR,CARBON 10K
RV4	1-238-255-21	s	RESISTOR,VAR,CARBON 10K
RV5	1-238-255-21	s	RESISTOR,VAR,CARBON 10K
RV6	1-241-874-11	s	RES, VAR, CARBON 10K
TP1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP3	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP4	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP5	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP6	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP7	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP8	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)

VR-277 BOARD [Board No. suffix 13]

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8345-277-A	s	MOUNTED CIRCUIT BOARD, VR-277
BZ1	1-544-886-11	s	BUZZER, PIEZOELECTRIC
C6	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C8	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C9	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C10	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C11	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C12	1-125-837-11	s	CAPACITOR,CHIP CERAMIC1MF/6.3V
C15	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C16	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C19	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C20	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C21	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	1-165-811-11	s	CAPCITOR CHIP CERAMIC 22MF B
C27	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C28	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C29	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C30	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C31	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C32	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C33	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C34	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C35	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C36	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C37	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C38	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C39	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C204	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C205	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C206	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C207	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF
C208	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF
C209	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF
C210	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF
C211	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF
C212	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF
C213	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C214	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C215	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-135-342-11	s	CAPACITOR,SOLID ELECT 56MF
C217	1-135-342-11	s	CAPACITOR,SOLID ELECT 56MF
C218	1-135-342-11	s	CAPACITOR,SOLID ELECT 56MF
C219	1-135-342-11	s	CAPACITOR,SOLID ELECT 56MF
C220	1-135-342-11	s	CAPACITOR,SOLID ELECT 56MF
C221	1-135-342-11	s	CAPACITOR,SOLID ELECT 56MF
C222	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C223	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C224	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C225	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C226	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C227	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C228	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C229	1-135-342-11	s	CAPACITOR,SOLID ELECT 56MF
C230	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF

(VR-277 BOARD [Board No. suffix 13])

Ref. No. or Q'ty	Part No.	SP	Description
C231	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C232	1-135-342-11	s	CAPACITOR,SOLID ELECT 56MF
C233	1-125-837-11	s	CAPACITOR,CHIP CERAMIC1MF/6.3V
C234	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C235	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C236	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C237	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C238	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C239	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C240	1-135-346-11	s	CAP, SOLID ELECT 39MF 16V
C241	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C242	1-128-406-11	s	CAPACITOR ELECT 33MF/50V(CHIP)
C243	1-128-406-11	s	CAPACITOR ELECT 33MF/50V(CHIP)
C244	1-128-406-11	s	CAPACITOR ELECT 33MF/50V(CHIP)
C245	1-128-406-11	s	CAPACITOR ELECT 33MF/50V(CHIP)
C246	1-128-406-11	s	CAPACITOR ELECT 33MF/50V(CHIP)
C247	1-128-406-11	s	CAPACITOR ELECT 33MF/50V(CHIP)
C248	1-128-406-11	s	CAPACITOR ELECT 33MF/50V(CHIP)
C249	1-128-406-11	s	CAPACITOR ELECT 33MF/50V(CHIP)
C250	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C251	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C252	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C253	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C255	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
CN2	1-766-767-21	s	CONNECTOR, FPC (12P)
CN3	1-764-875-21	s	CONNECTOR, FPC (25P)
CN4	1-764-875-21	s	CONNECTOR, FPC (25P)
CN6	1-784-625-11	o	CONNECTOR, FFC (ZIF) 30P
D1	8-719-024-81	s	DIODE 1SS300-TE85L
D202	8-719-073-92	s	DIODE RB060L-40TE25
D203	8-719-073-92	s	DIODE RB060L-40TE25
D204	8-719-073-92	s	DIODE RB060L-40TE25
D205	8-719-073-92	s	DIODE RB060L-40TE25
D206	8-719-073-92	s	DIODE RB060L-40TE25
D207	8-719-073-92	s	DIODE RB060L-40TE25
D208	8-719-073-92	s	DIODE RB060L-40TE25
E1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
EN1	1-477-592-11	s	ENCODER, ROTARY
EN2	1-477-592-11	s	ENCODER, ROTARY
EN3	1-477-592-11	s	ENCODER, ROTARY
EN4	1-477-592-11	s	ENCODER, ROTARY
FB1	1-469-094-11	s	FERRITE, EMI (SMD)
FB2	1-469-094-11	s	FERRITE, EMI (SMD)
FB3	1-469-094-11	s	FERRITE, EMI (SMD)
IC1	8-759-388-15	o	IC HD6435328RE48F
IC2	8-759-524-23	s	IC TC74VHC238FT (EL)
IC3	8-759-524-23	s	IC TC74VHC238FT (EL)
IC4	8-759-531-92	s	IC TC7WH04FU(TE12R)
IC5	8-759-471-91	s	IC 74VHC04MTCX
IC6	8-759-471-91	s	IC 74VHC04MTCX
IC7	8-759-471-91	s	IC 74VHC04MTCX
IC11	8-759-257-96	s	IC TC7S14FU (TE85R)
IC12	8-759-058-56	s	IC TC7S02FU(TE85R)
IC201	6-700-986-01	s	IC MAX1745EUB-TG068
IC202	6-700-986-01	s	IC MAX1745EUB-TG068
IC203	6-700-986-01	s	IC MAX1745EUB-TG068
IC204	6-700-655-01	s	IC LT1963ES8#TR

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Ref. No. or Q'ty	Part No.	SP	Description
IC205	6-703-121-01	s	IC MAX1606EUA-TG069
IC206	6-700-655-01	s	IC LT1963ES8#TR
IC207	6-700-655-01	s	IC LT1963ES8#TR
IC208	6-703-121-01	s	IC MAX1606EUA-TG069
L5	1-414-398-11	s	INDUCTOR (SMD) 10UH
L204	1-416-510-21	s	COIL, CHOKE 100UH
L205	1-416-510-21	s	COIL, CHOKE 100UH
L206	1-416-510-21	s	COIL, CHOKE 100UH
L207	1-416-510-21	s	COIL, CHOKE 100UH
L208	1-416-510-21	s	COIL, CHOKE 100UH
L209	1-416-510-21	s	COIL, CHOKE 100UH
L210	1-416-510-21	s	COIL, CHOKE 100UH
L211	1-416-344-11	s	COIL, CHOKE 10UH
L212	1-416-344-11	s	COIL, CHOKE 10UH
L213	1-416-344-11	s	COIL, CHOKE 10UH
L214	1-414-398-11	s	INDUCTOR (SMD) 10UH
L215	1-414-398-11	s	INDUCTOR (SMD) 10UH
L216	1-410-283-11	s	INDUCTOR
Q1	8-729-141-48	s	TRANSISTOR 2SB624-BV345
Q2	8-729-928-81	s	TRANSISTOR DTC144EE
Q201	6-550-022-01	s	TRANSISTOR SI9407AEY-T1
Q202	6-550-022-01	s	TRANSISTOR SI9407AEY-T1
Q203	6-550-022-01	s	TRANSISTOR SI9407AEY-T1
R3	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R4	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R5	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R6	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R7	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R8	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R9	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R10	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R11	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R12	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R13	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R14	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R15	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R16	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R17	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R18	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R19	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R20	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R21	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R22	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R23	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R24	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R25	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R26	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R27	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R28	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R29	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R30	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R31	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R32	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R33	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R34	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R35	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R36	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R37	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)

(VR-277 BOARD [Board No. suffix 13])

Ref. No. or Q'ty	Part No.	SP	Description
R201	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R202	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R203	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R204	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R205	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R206	1-208-719-11	s	RESISTOR CHIP 33K 1/16W (1005)
R207	1-208-707-11	s	RESISTOR,CHIP 10K 1/16W (1005)
R208	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R209	1-208-719-11	s	RESISTOR CHIP 33K 1/16W (1005)
R210	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R211	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R212	1-208-719-11	s	RESISTOR CHIP 33K 1/16W (1005)
R213	1-208-671-11	s	RESISTOR CHIP 330 1/16W (1005)
R214	1-219-611-21	s	RESISTOR, CHIP 0.047 1W
R215	1-219-611-21	s	RESISTOR, CHIP 0.047 1W
R216	1-219-611-21	s	RESISTOR, CHIP 0.047 1W
R217	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R218	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R219	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R220	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R221	1-218-231-11	s	RESISTOR, CHIP 1 1/2W (4532)
R222	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R223	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R224	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R225	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R226	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R227	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R228	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R229	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R230	1-208-933-11	s	RESISTOR CHIP 82K
R231	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R232	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R233	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R234	1-218-985-11	s	RESISTOR CHIP 470K 1/16W(1005)
R235	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R237	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R238	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R239	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R240	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R241	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R242	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R243	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R244	1-208-703-11	s	RESISTOR,CHIP 6.8K 1/16W(1005)
R245	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R246	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R247	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R248	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
RB1	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB2	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB3	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB4	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB5	1-234-380-11	s	RESISTOE,NETWORK 47KX4 (1005)
RB6	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB8	1-234-380-11	s	RESISTOE,NETWORK 47KX4 (1005)
RB9	1-234-380-11	s	RESISTOE,NETWORK 47KX4 (1005)
RB10	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB11	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB12	1-234-381-21	s	RES, NETWORK 100KX4 (1005)

(VR-277 BOARD [Board No. suffix 13])

Ref. No. or Q'ty	Part No.	SP	Description
RB13	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB14	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB15	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB16	1-234-381-21	s	RES, NETWORK 100KX4 (1005)
RB17	1-234-378-11	s	RES, NETWORK 10KX4 (1005)
RB18	1-234-378-11	s	RES, NETWORK 10KX4 (1005)
RB19	1-234-372-11	s	RES, NETWORK 100X4 (1005)
RB20	1-234-372-11	s	RES, NETWORK 100X4 (1005)
RV1	1-223-547-11	s	RES, VAR, CARBON 10K
RV2	1-223-547-11	s	RES, VAR, CARBON 10K
RV3	1-238-255-21	s	RESISTOR,VAR,CARBON 10K
RV4	1-238-255-21	s	RESISTOR,VAR,CARBON 10K
RV5	1-238-255-21	s	RESISTOR,VAR,CARBON 10K
RV6	1-241-874-11	s	RES, VAR, CARBON 10K
THP203	△ 1-533-817-21	s	THERMISTOR
THP205	△ 1-533-817-21	s	THERMISTOR
TP1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP3	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP4	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP5	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP6	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP7	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP8	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)

FRAME

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-477-236-23	s	LCD UNIT (RM)
HN001	1-574-144-11	s	WIRE, FLAT TYPE (12 CORE) (CN2/CN-2278 board to CN2/VR-277 board)
HN002	1-769-630-12	s	WIRE, FLAT TYPE (25 CORE) (CN1/LED-385 board to CN3/VR-277 board)
HN003	1-769-630-12	s	WIRE, FLAT TYPE (25 CORE) (CN1/LED-389 board to CN4/VR-277 board)
HN004	1-574-144-11	s	WIRE, FLAT TYPE (12 CORE) (CN3/CN-2308 board to CN1/VA-211 board)
HN005	1-769-629-11	s	WIRE, FLAT TYPE (12 P) (CN2/VA-211 board to CN201/MPU-124 board)
HN006	1-775-422-11	s	WIRE,FLAT TYPE(30CORE) (CN3/VA-211 board to CN104/MPU-124 board)

SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-783-372-11	s	CORD, CONNECTION
2pc	1-766-848-11	s	CONNECTOR, ROUND TYPE (PLUG) 8P
1pc	3-620-577-01	s	OPERATION MANUAL

Section 4

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
1SS400TE61	DC008-02
DA221	DC001-01
DAP222	DC001-02
DAP222-TL	DC001-02
HSM88AS-TL	DC001-01
RB060L-40TE25	DC007-01
RD3.9SB	DC008-04
RD3.9SB-T1	DC008-04
LED	Page or ID No.
CL-190D-CD	LC004-01
CL-190D-CD-T	LC004-01
CL-190G-CD-T	LC004-01
CL-190SR-C	LC004-01
CL-190SR-CD-T	LC004-01
CL-190Y-CD-T	LC004-01
F1J6	LC001-01
F1J6TP	LC001-01
SML-020MLTT86	LC003-03
SML-020MLTT87	LC009-02

TRANSISTOR	Page or ID No.
2SA1226-E4	TC001-01
2SA1226-T1E4	TC001-01
2SA1611-M5M6	TC001-01
2SA1611T1-M5M6	TC001-01
2SB1123-S	TC001-01
2SB624-BV345	TC001-01
2SB624T1-BV345	TC001-01
2SB766A-R-TX	TC002-01
2SC4176-B34	TC001-02
2SC4176T1B33B34B35	TC001-02
2SC4177-T1L5L6	TC001-02
2SC4177	TC001-02
2SC4617R	TC001-02
2SC4617TL-QR	TC001-02
DTC123JE	TC001-03
DTC123JE-TL	TC001-03
DTC143XKA-T146	TC001-03
DTC144EE	TC001-03
DTC144EE-TL	TC001-03
SI4450DY-T1	TC012-06
SI9407AEY-T1	TC012-04
SI9945AEY-T1	TC012-01

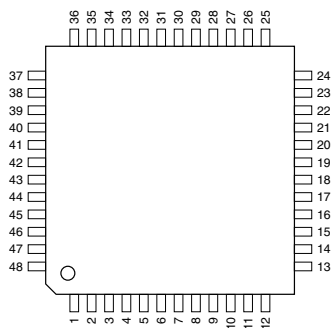
IC	Page or ID No.		
74VHC04MTCX	TC74HC04P	UPD4991AGS	UPD4991AGS
74VHC08MTCX	TC74HC08P	UPD4991AGS-E2	UPD4991AGS
74VHC244MTCX	TC74HC244P		
74VHC573MTCX	TC74HC573F	W1789	LT1963ES8
74VHCT08AMTCX	TC74HC08P		
		OTHERS	Page or ID No.
CXD2304R	CXD2304R	HCPL-0630-500	MA009-01
CXD2304R-T4	CXD2304R		
CXD9093R	CXD9093R		
EP1K50QC208-3	EP1K50QC208-3		
EPC2LC20-TP	EPC2LC20		
EPC2LC20N-TP	EPC2LC20		
FM1808-70-STR	FM1808-70-STR		
FM18L08-70-STR	FM1808-70-STR		
GS4981CTA	GS4981CTA		
HD6435328RE48F	HD6435328RD63F		
HD6437043AE00F	HD6437043AP00F		
HD6437043AE65F	HD6437043AP00F		
HM62V16256CLTT-5SLZ	4-4		
IR3Y29B4	IR3Y29B4		
LT1619EMS8-E2	LT1619EMS8-E2		
LT1963ES8	LT1963ES8		
MAX1745EUB-TG068	MAX1745EUB-TG068		
MB86189PFV-G-BND-ER	MB86189PFV-G-BND-ER		
MB90099PFV-G-119-BND	MB90099PFV-G-119-BND		
MBM29DL161TD-90PTFN	MBM29LV160B-90PTFN		
MSM82C55A-2GS	MSM82C55A-5GS		
NC7SZ04P5X	TC7S04F		
NJM2904V(TE2)	RC4558		
SN74LVCC4245APWR	74LVX4245QSCX		
SN75158PS	SN75158P		
SN75158PSR	SN75158P		
TC4053BFT(EL,N)	MC74HC4053F		
TC4053BFT(EL,N)	MC74HC4053F		
TC4W66FU(TE12R)	TC4W66F		
TC4W66FU	TC4W66F		
TC74VHC157FT(EL)	TC74HC157P		
TC74VHC238FT(EL)	TC74HC238P		
TC7S02FU(TE85R)	TC4S01F		
TC7S14FU(TE85R)	TC7S14FU		
TC7SH08FU(TE85R)	TC7S08F		
TC7SH08FU-TE85R	TC7S08F		
TC7W04FU(TE12R)	TC7W04F		
TC7W04FU	TC7W04F		
TC7W74FU(TE12R)	TC7W74FU		
TC7W74FU	TC7W74FU		
TC7WH04FU(TE12R)	TC7W04F		
TC7WH08FU(TE12R)	TC7W08F		
TLC7733IPWR-12	TLC7733IPWR		

IC

IR3Y29B4

VIDEO ENCODER

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	TRAP	13	I	TINT	25	I	B DC DET	37	I	COM AMP ADJ
2	I	CONTRAST	14	I	VCO IN	26	I	GAMMA 2	38	O	COMMON OUT
3	I	VIDEO IN	15	I	APC FILTER	27	I	GAMMA 0	39	I	SW
4	I	IDENT FILTER	16	O	VCO OUT	28	I	RGB AMP ADJ	40	I	B IN
5	I	C IN	17	—	GND1	29	I	BRIGHT	41	I	G IN
6	I	COLOR	18	—	GND2	30	I	SUB BRIGHT B	42	I	R IN
7	O	BURST OUT	19	O	R OUT	31	I	SUB BRIGHT R	43	—	Vcc1
8	I	KILLER FILTER	20	I	R DC DET	32	I	COMMON FRP	44	I	F ADJ
9	I	R-Y	21	O	G OUT	33	I	FRP	45	I	CLAMP
10	I	B-Y	22	I	G DC DET	34	I	SYNC IN	46	I	AGC FILTER
11	I	ACC FILTER	23	—	Vcc2	35	O	SYNC OUT	47	O	AGC OUT
12	O	CHROMA OUT	24	O	B OUT	36	I	SYNC SEP	48	I	PICTURE

INPUTS

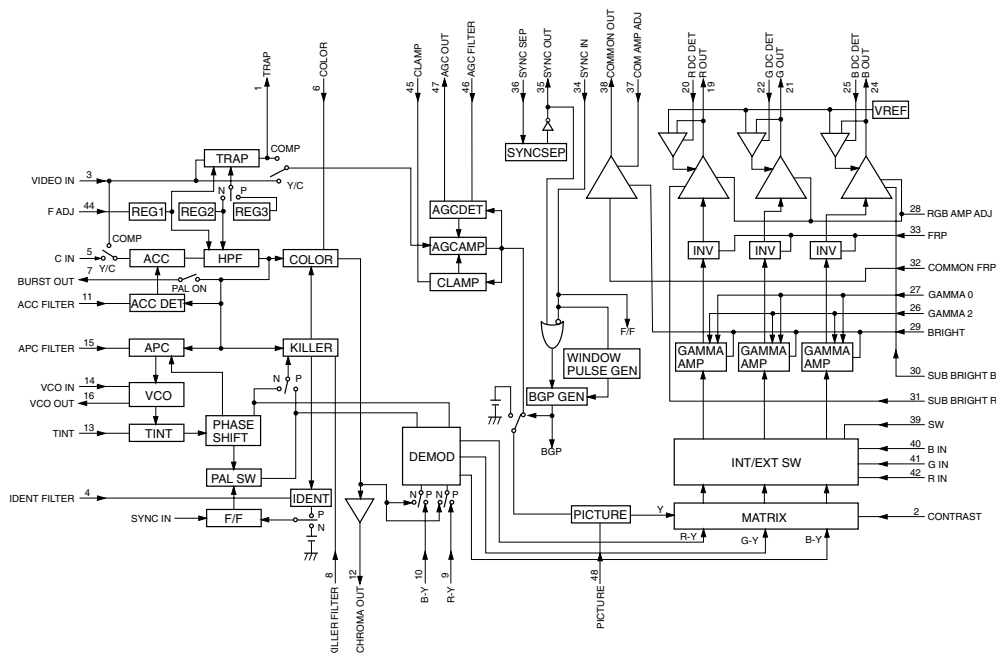
ACC FILTER : ACC DETECT FILTER
 AGC FILTER : AGC DETECT FILTER OF BRIGHTNESS SIGNAL
 APC FILTER : APC DETECT FILTER
 B DC DET : DC LEVEL CONTROL FOR B SIGNAL OUTPUT
 B IN : B SIGNAL
 BRIGHT : AMPLITUDE ADJUSTMENT OF COMMON OUTPUT AND GAMMA CORRECTION
 B-Y : B-Y SIGNAL
 C IN : CHROMA SIGNAL
 CLAMP : PEDESTAL CLAMP FOR BRIGHTNESS SIGNAL
 COLOR : COLOR ADJUSTMENT
 COM AMP ADJ : COMMON SIGNAL AMPLITUDE ADJUSTMENT
 COMMON FRP : LEVEL SWITCHING TIMMING PULSE FOR COMMON OUTPUT
 CONTRAST : CONTRAST ADJUSTMENT
 F ADJ : ADJUST THE CHARACTERISTIC OF THE BUILT-IN FILTER
 FRP : TIMMING PULSE FOR INVERTING THE RGB OUTPUT POLARITY
 GAMMA 0 : GAMMA 0 POINT ADJUST
 GAMMA 2 : GAMMA 2 POINT ADJUST
 G DC DET : DC LEVEL CONTROL FOR G SIGNAL OUTPUT
 G IN : G SIGNAL
 IDENT FILTER : IDENT DETECT FILTER
 KILLER FILTER : KILLER DETECT FILTER
 PICTURE : ADJUST THE FREQUENCY CHARACTERISTIC OF THE BRIGHTNESS SIGNAL
 R DC DET : DC LEVEL CONTROL FOR R SIGNAL OUTPUT
 RGB AMP ADJ : ADJUST THE AMPLITUDE OF PEDESTAL LEVEL AND DYNAMIC RANGE OF THE RGB OUTPUT SIGNAL
 R IN : R SIGNAL
 R-Y : R-Y SIGNAL
 SUB BRIGHT B : FINE ADJUSTMENT OF THE B BRIGHTNESS SIGNAL
 SUB BRIGHT R : FINE ADJUSTMENT OF THE R BRIGHTNESS SIGNAL
 SW : RGB INPUT/VIDEO INPUT SELECT
 SYNC IN : HORIZONTAL SYNC SIGNAL
 SYNC SEP : SYNC SEPARATOR SIGNAL
 TINT : HUE ADJUST AND NTSC/PAL SELECT
 VCO IN : VCO
 VIDEO IN : COMPOSITE VIDEO SIGNAL

OUTPUTS

AGC OUT : VOLTAGE OF DETECT THE AGC DETECTION CIRCUIT
 B OUT : B SIGNAL
 BURST OUT : BURST CLEANING COIL (PAL ONLY)
 CHROMA OUT : CHROMA SIGNAL
 COMMON OUT : COMMON SIGNAL
 G OUT : G SIGNAL
 R OUT : R SIGNAL
 SYNC OUT : SYNC SIGNAL
 TRAP : TRAP
 VCO OUT : VCO

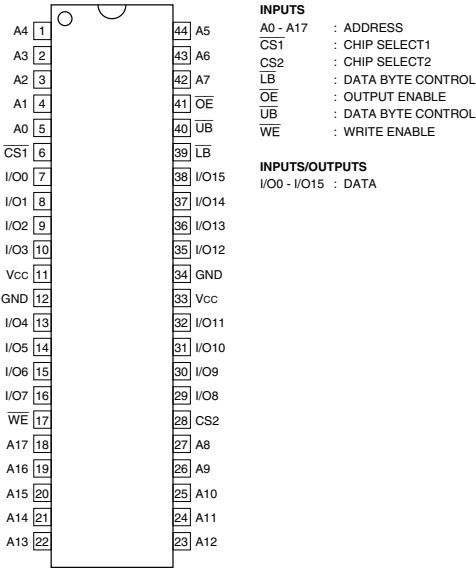
OTHERS

Vcc1 : POWER SUPPLY
 Vcc2 : POWER SUPPLY FOR RGB SIGNAL OUTPUT



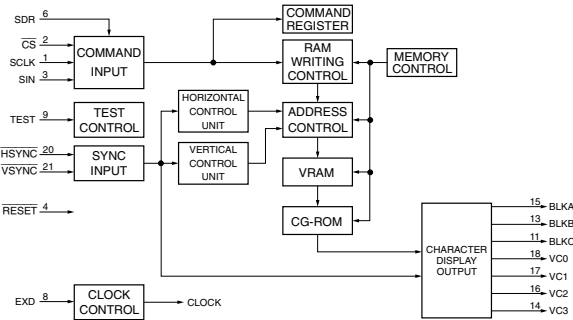
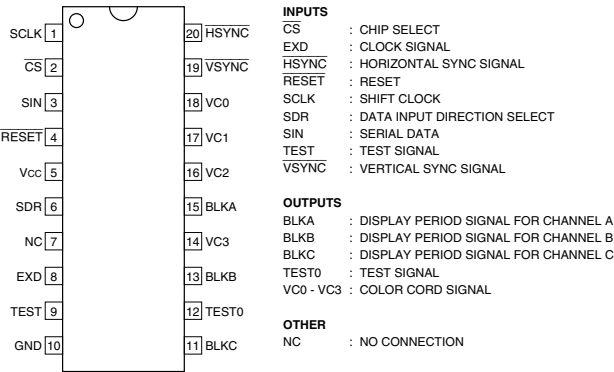
HM62V16256CLTT-5SLZ

4M (262144 × 16)-BIT SRAM
—TOP VIEW—

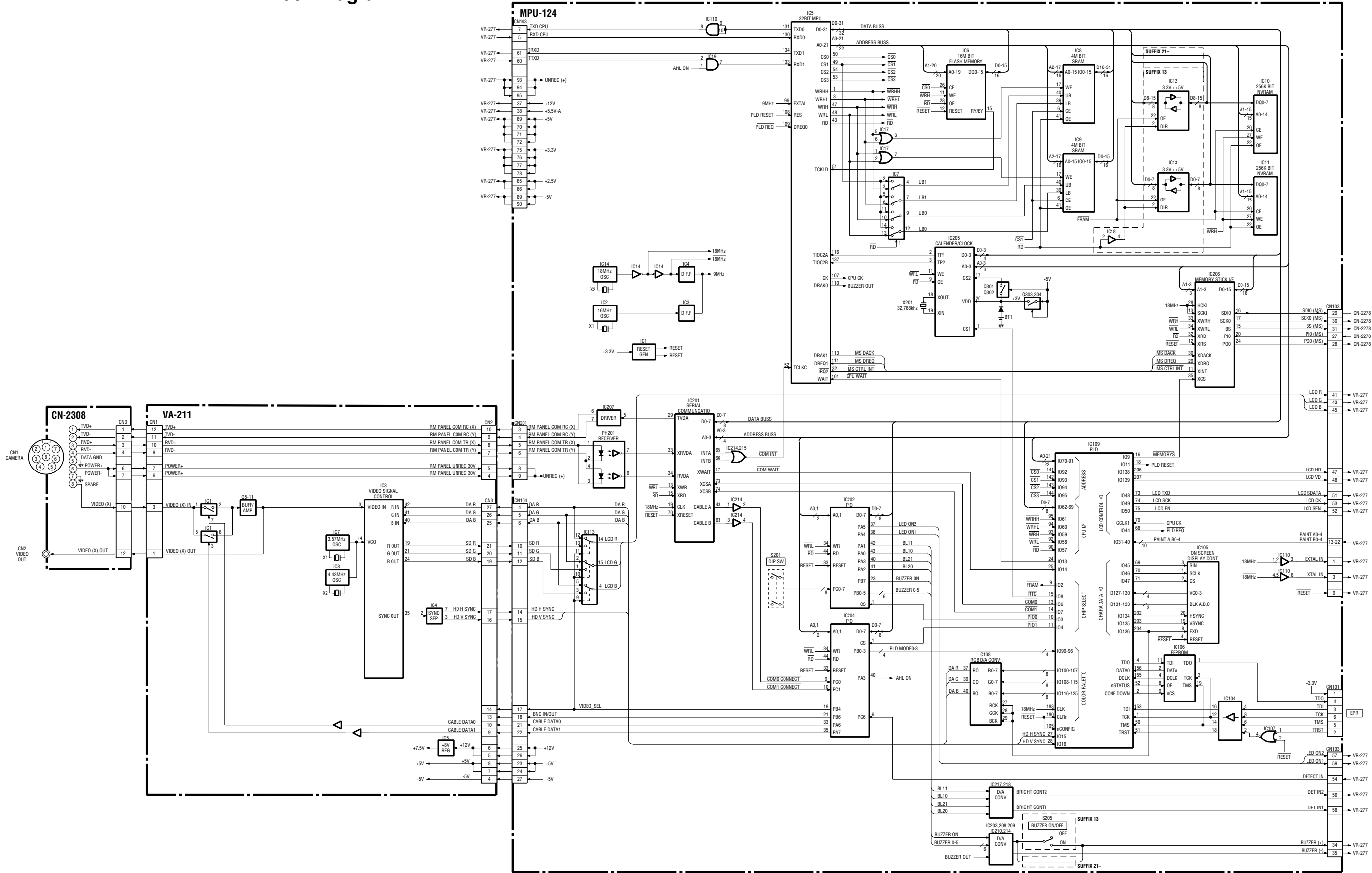


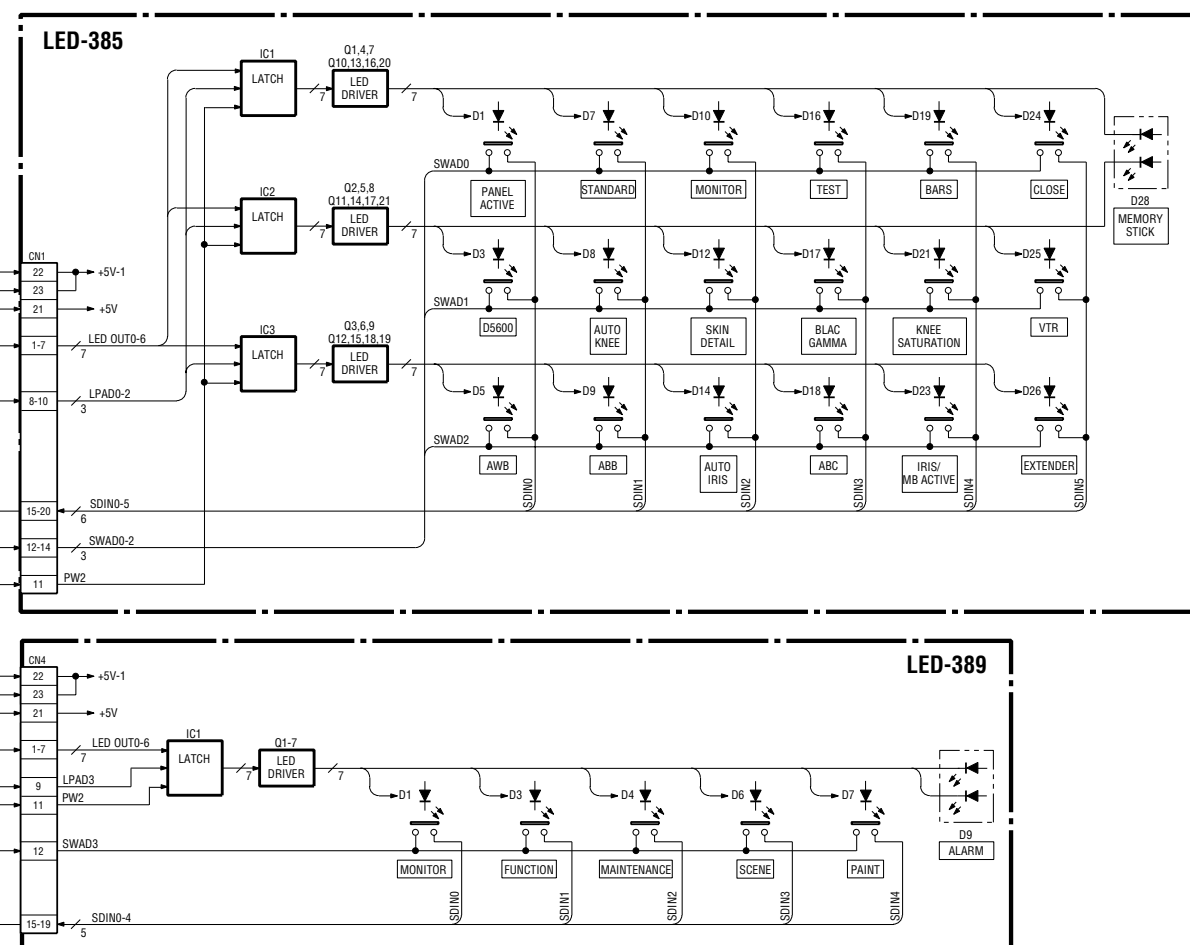
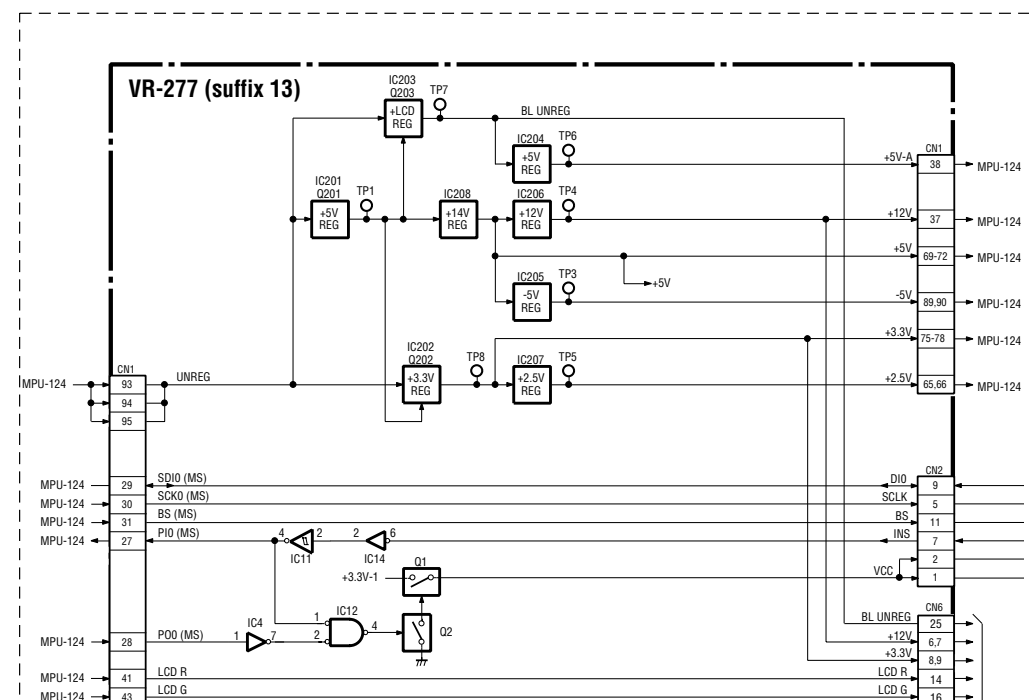
MB90099PFV-G-119-BND

ON-SCREEN DISPLAY CONTROLLER
—TOP VIEW—



Section 5
Block Diagram





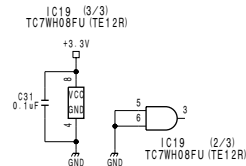
Section 6

Schematic Diagrams

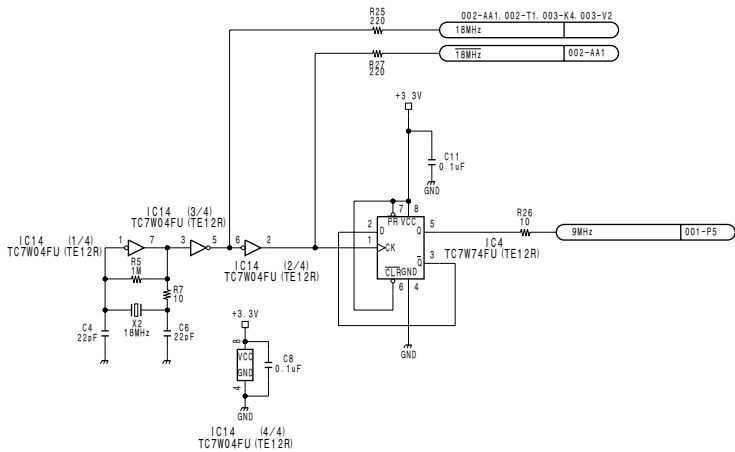
Schematic Diagrams Index

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CN-2308	6-15
L. LED-385	6-13
LED-389	6-14
M. MPU-124	6-2
V. VA-211	6-8
VR-277	6-10
Frame Wiring	6-15

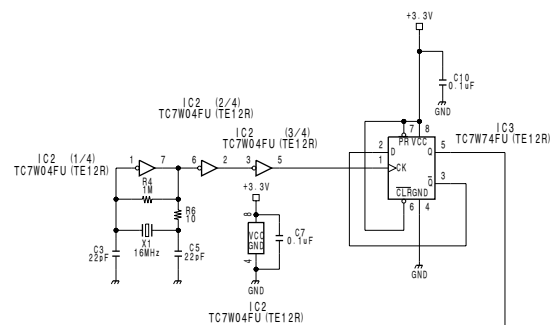
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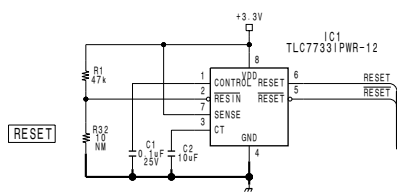
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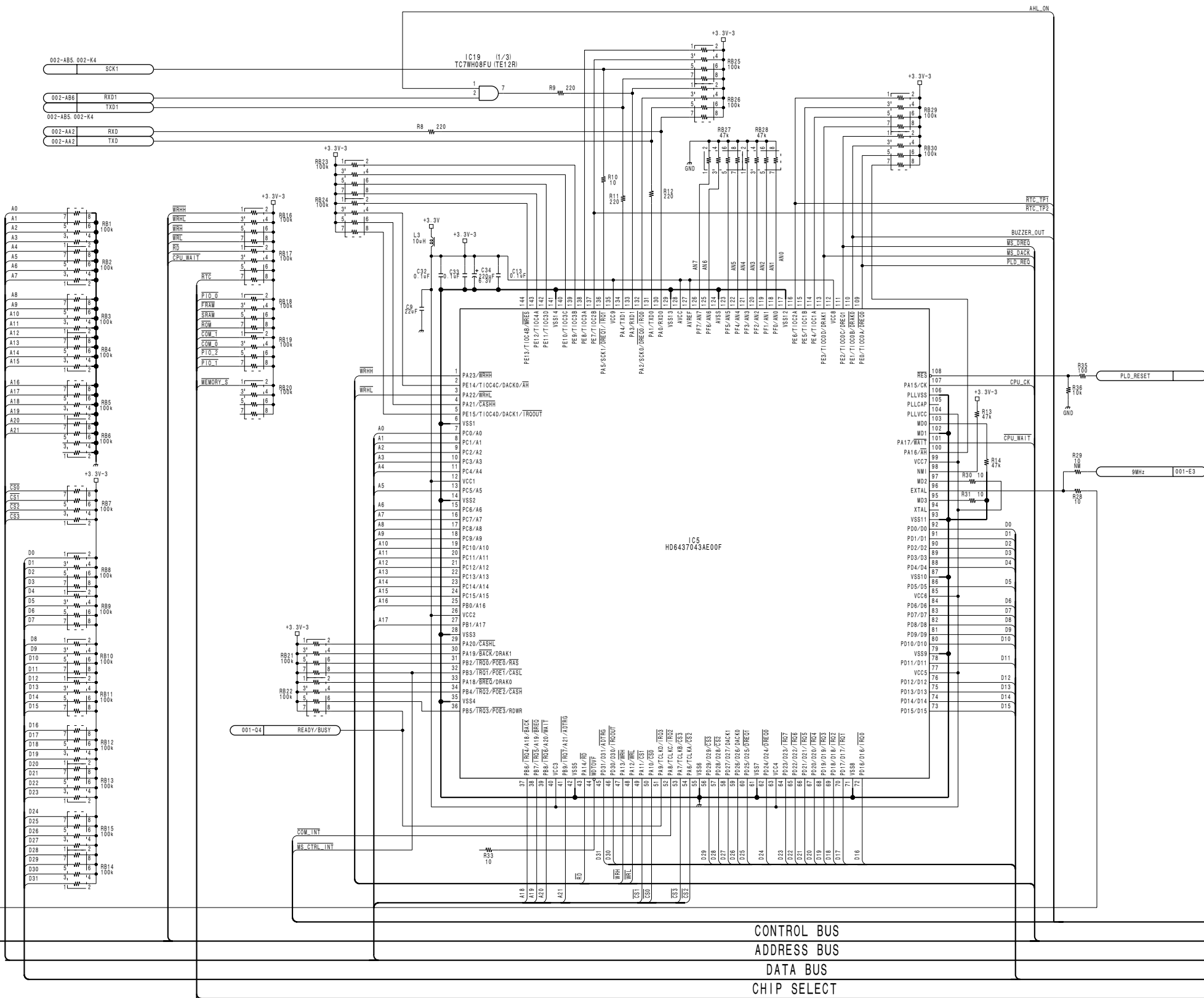
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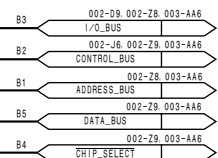
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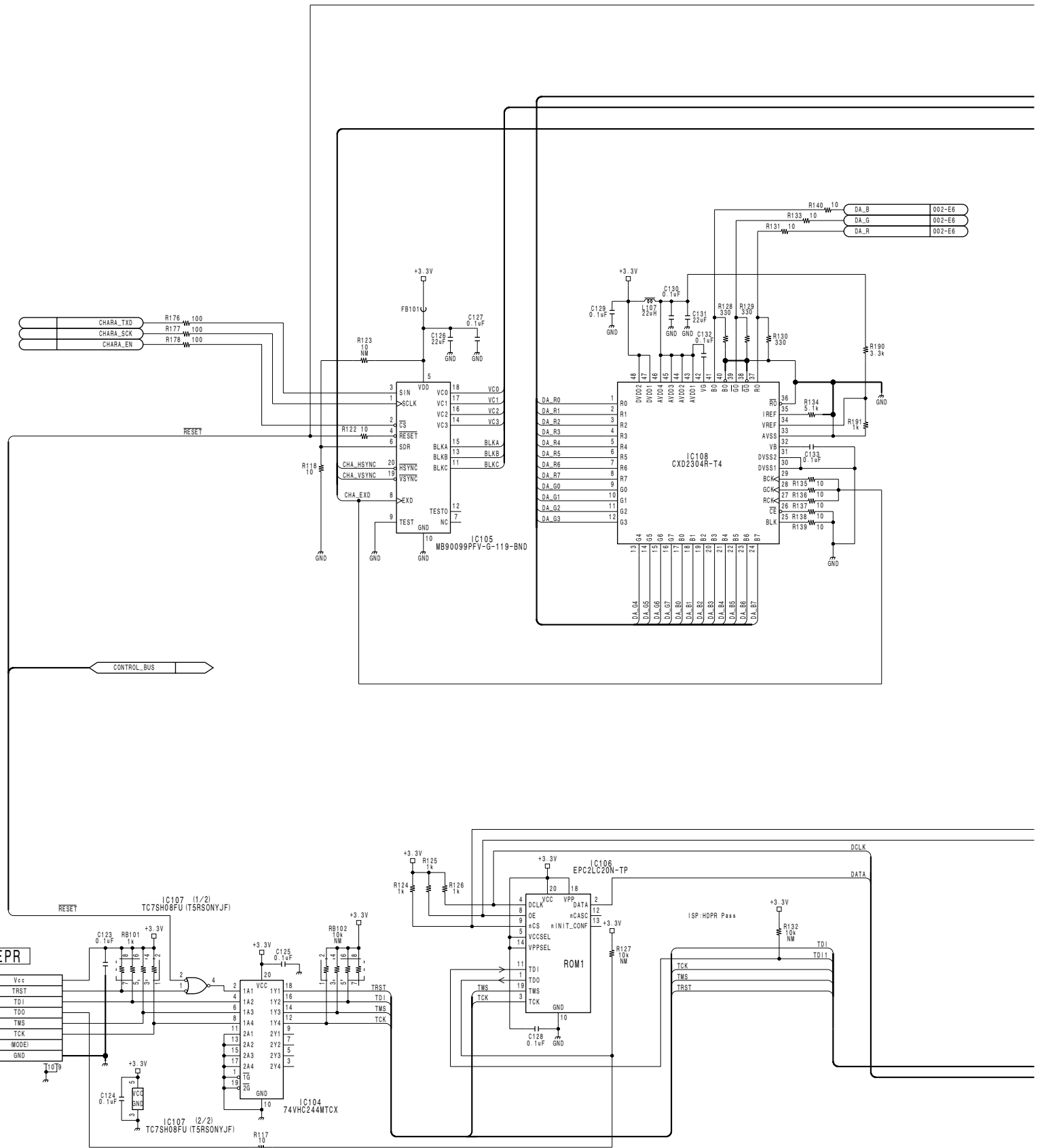
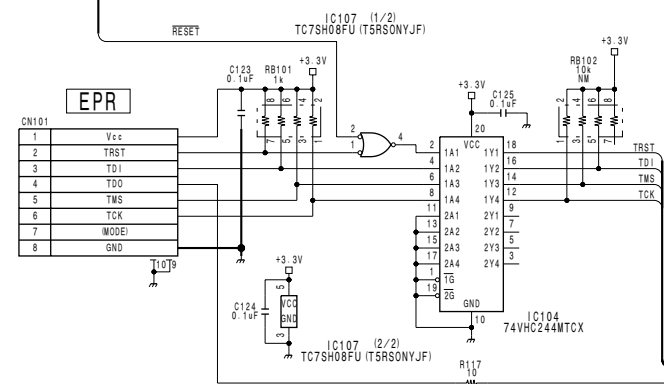


MPU-124 (1/3)
SUFFIX: -21



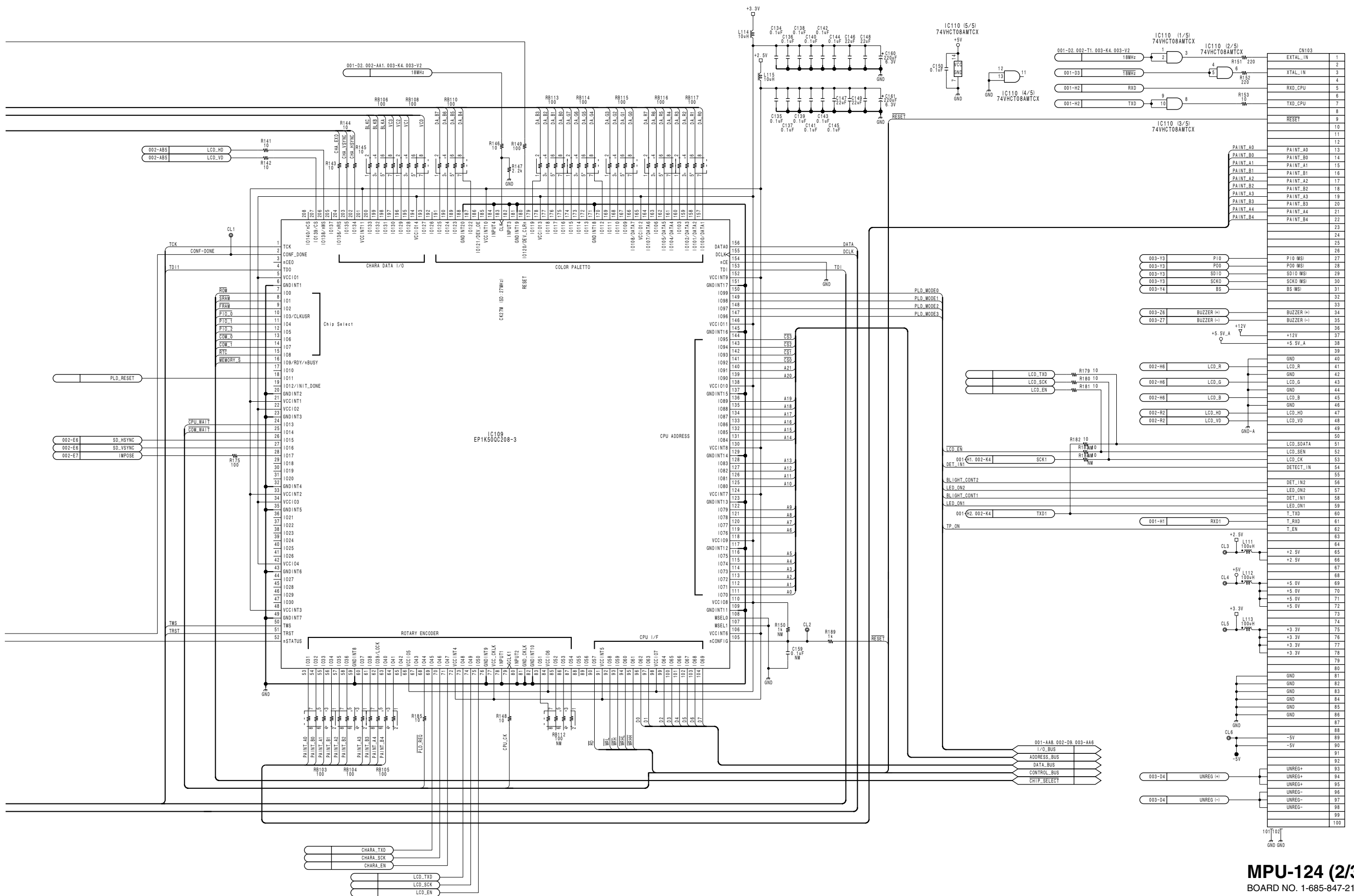
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5



MPU-124 (2/3)
SUFFIX: -21

MPU-124 (2/3)
SUFFIX: -21

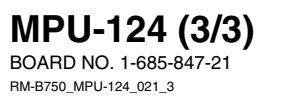


MPU-124 (2/3)
BOARD NO. 1-685-847-21
RM-B750_MPU-124_021_2

MPU-124 (3/3)
SUFFIX: -21

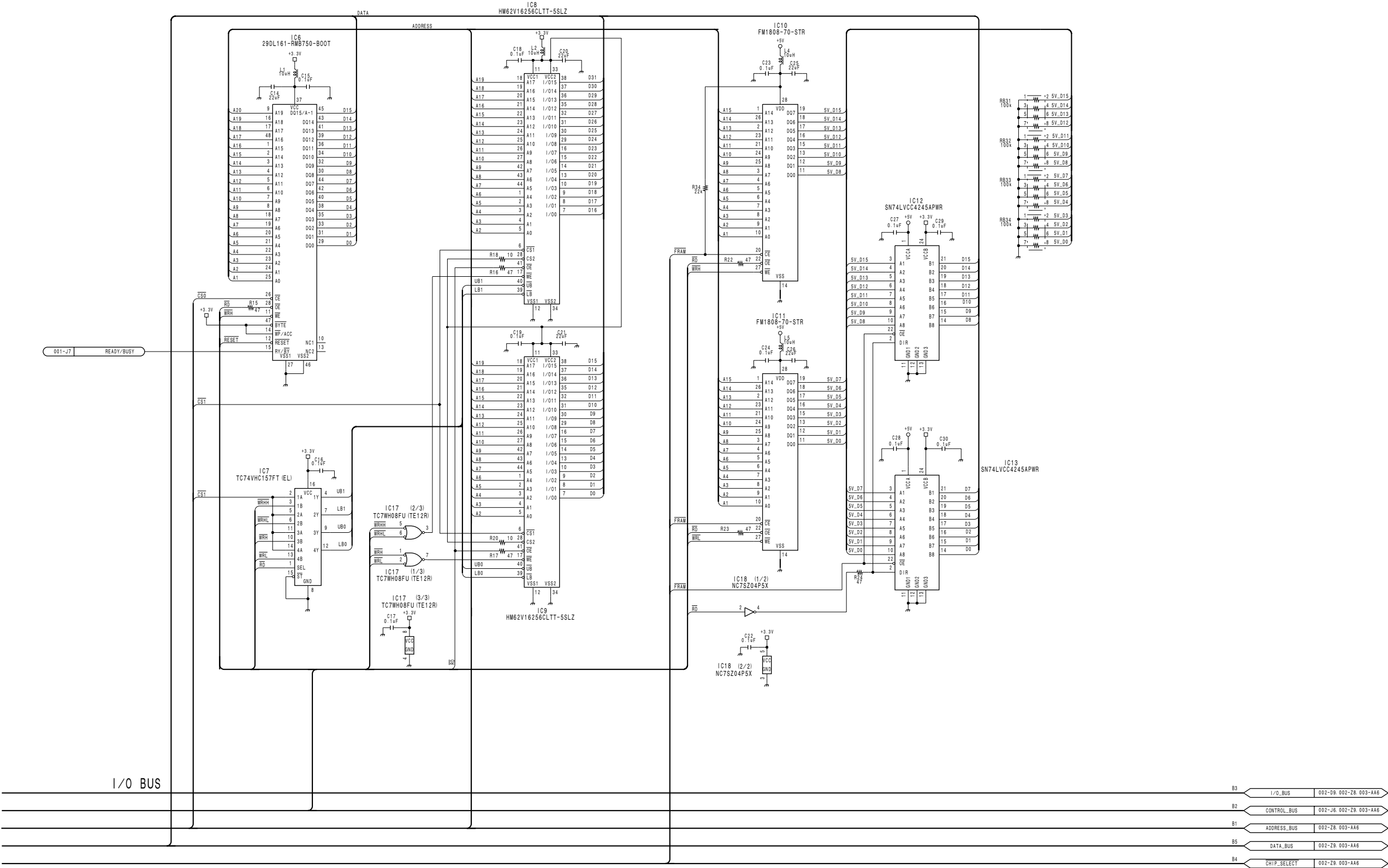


MPU-124 (3/3)
SUFFIX: -21



MPU-124 (1/3)
SUFFIX: -13



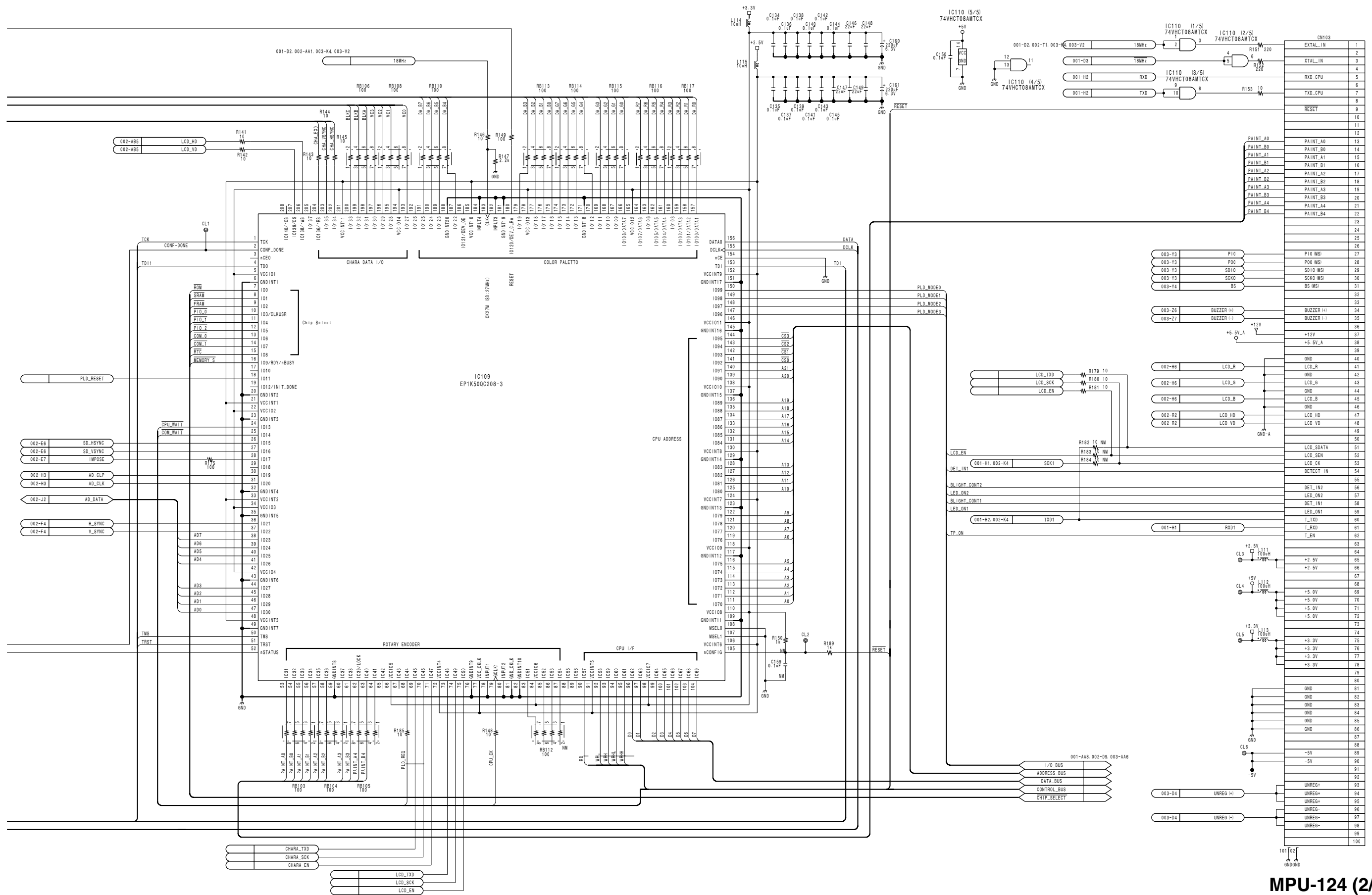


MPU-124 (2/3)
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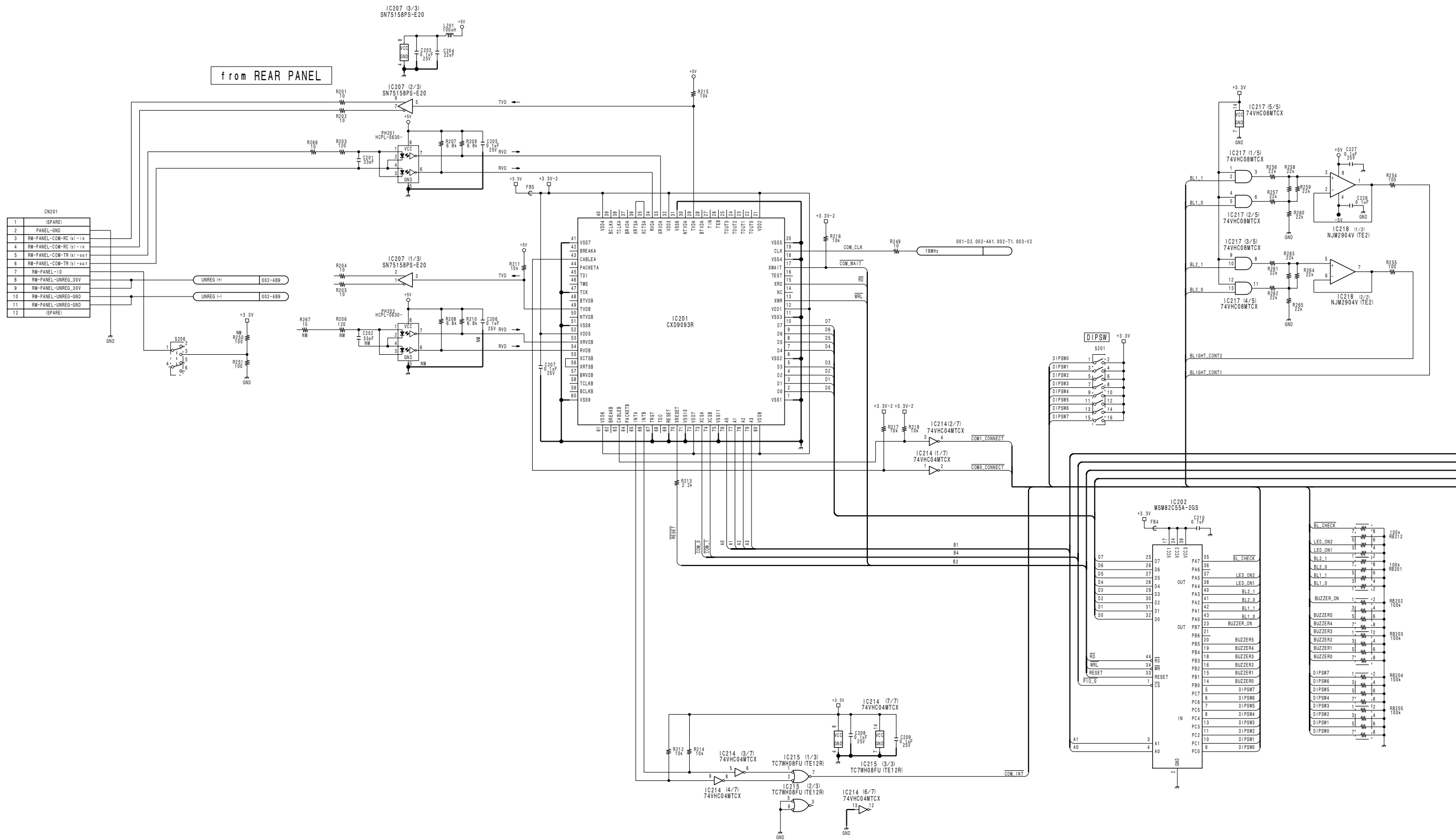


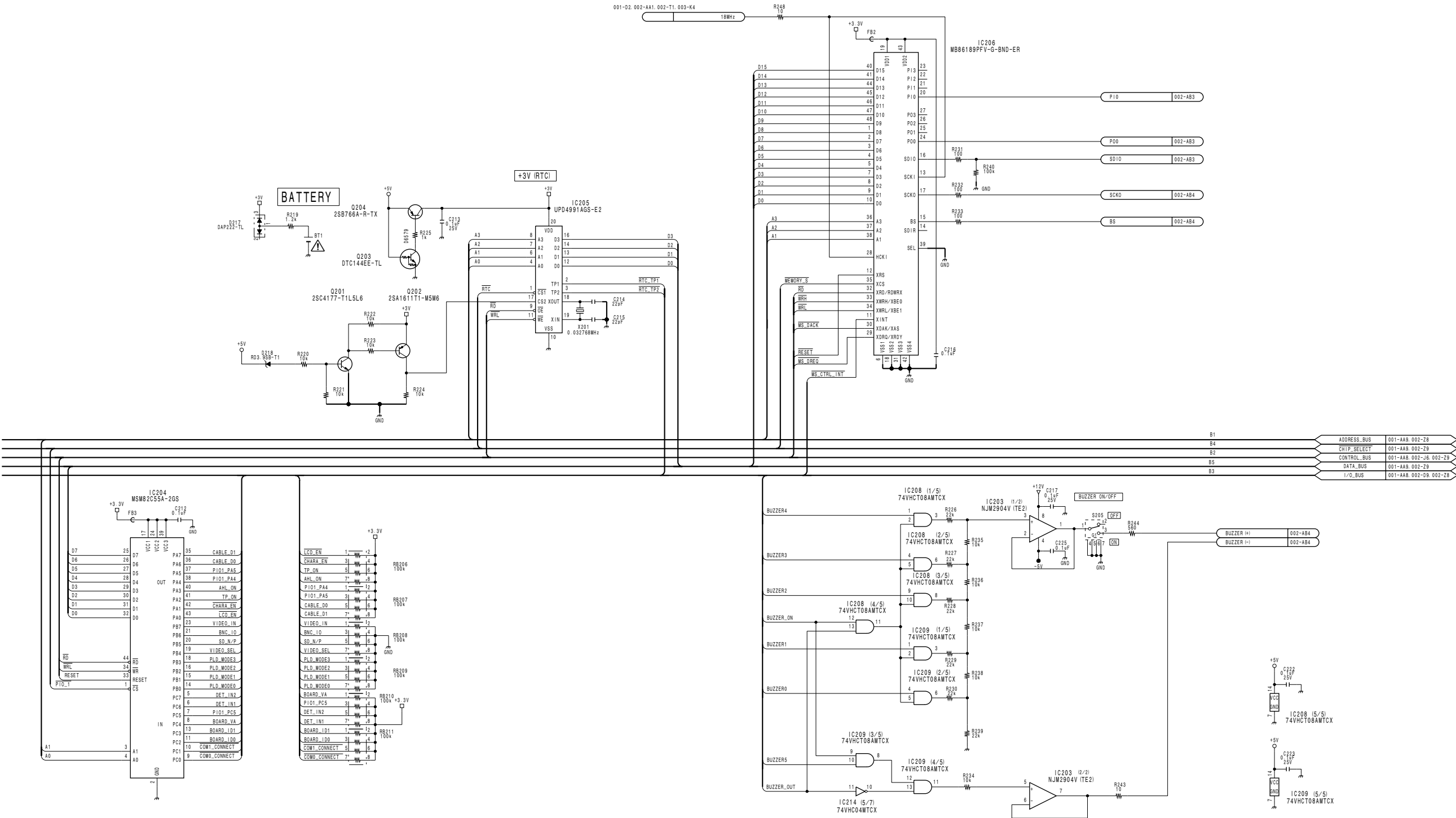
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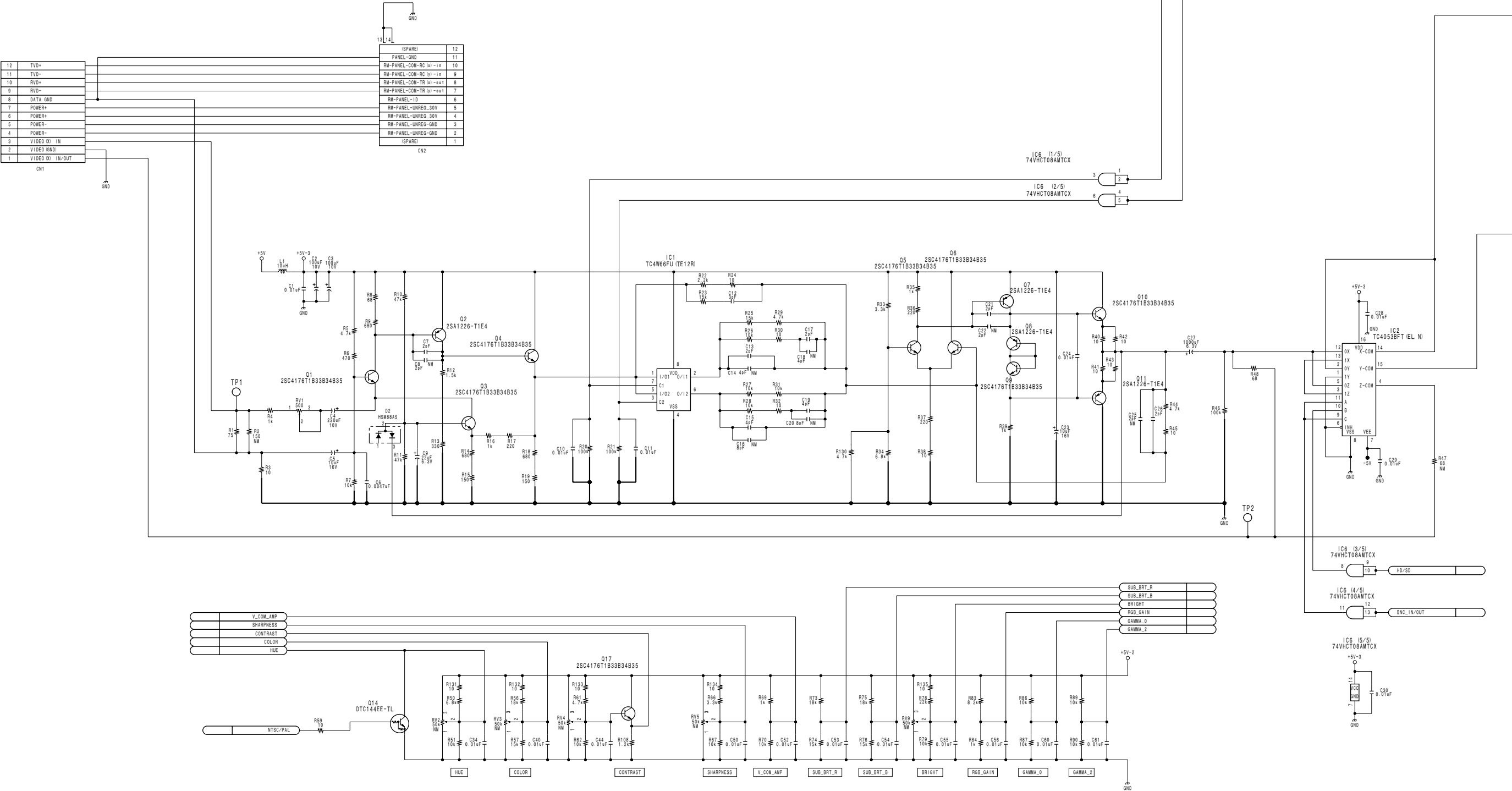
MPU-124 (2/3)
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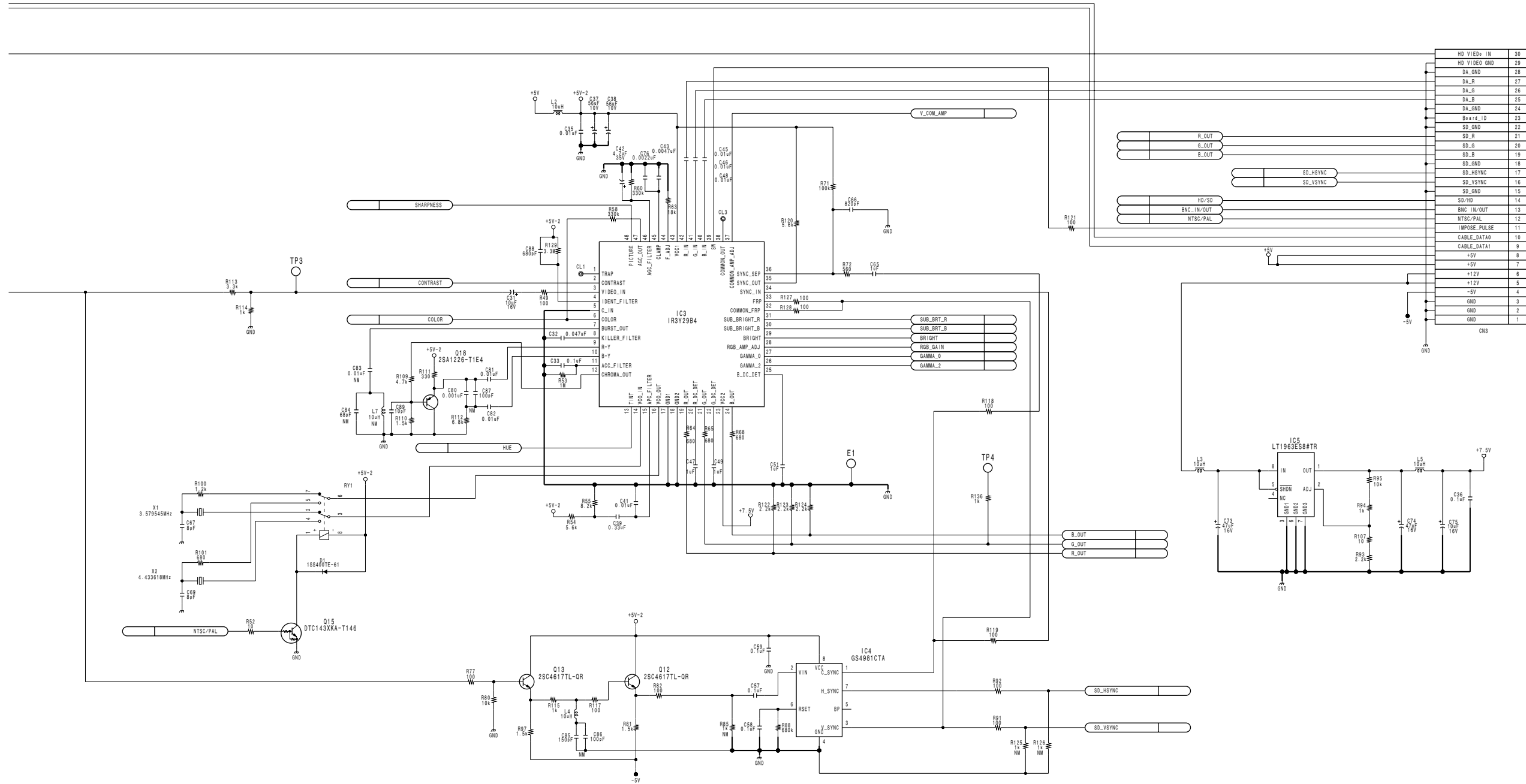


MPU-124 (2/3)
BOARD NO. 1-685-847-13
RM-B750_MPU-124_013_2









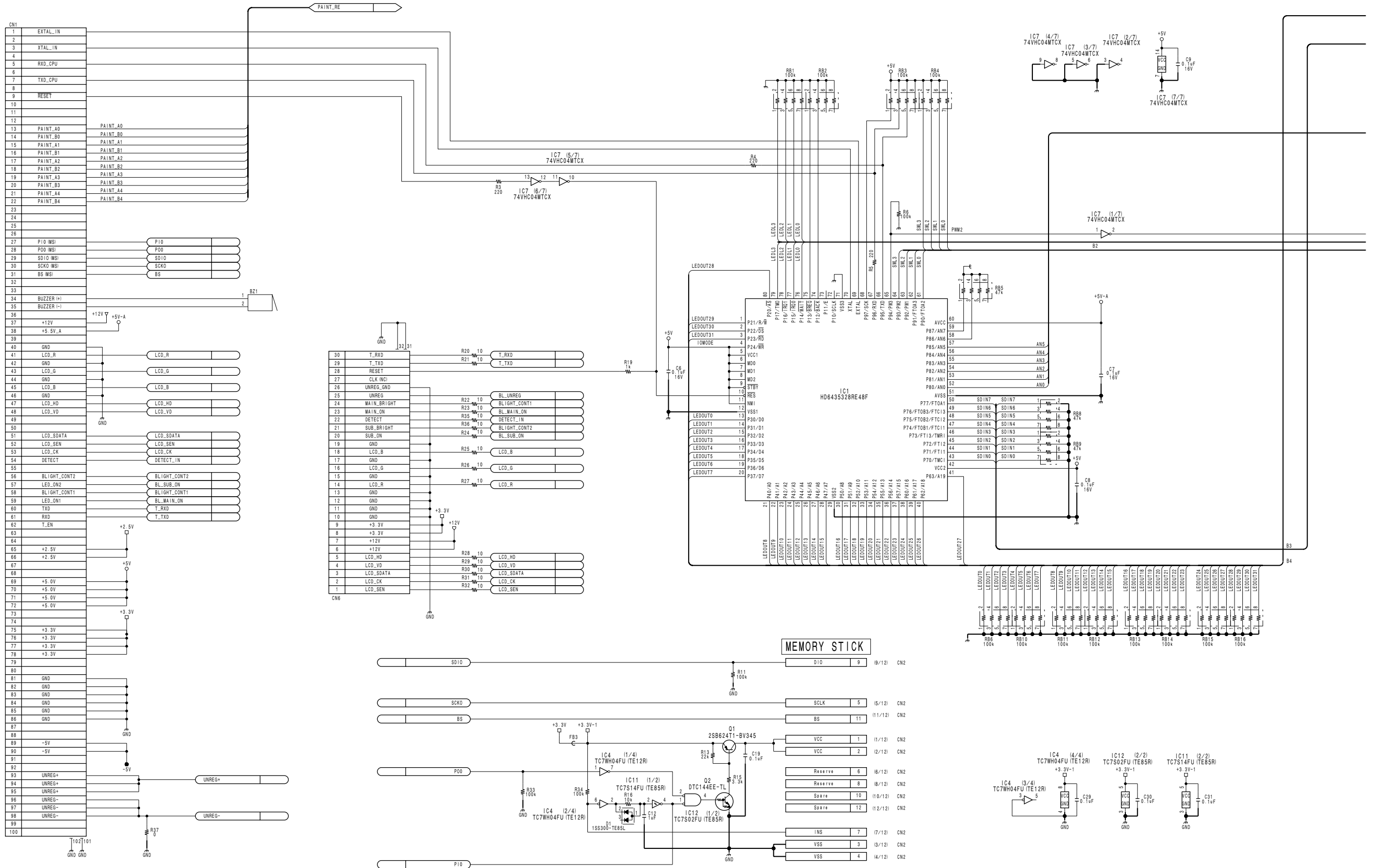
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2

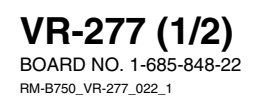
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4

5

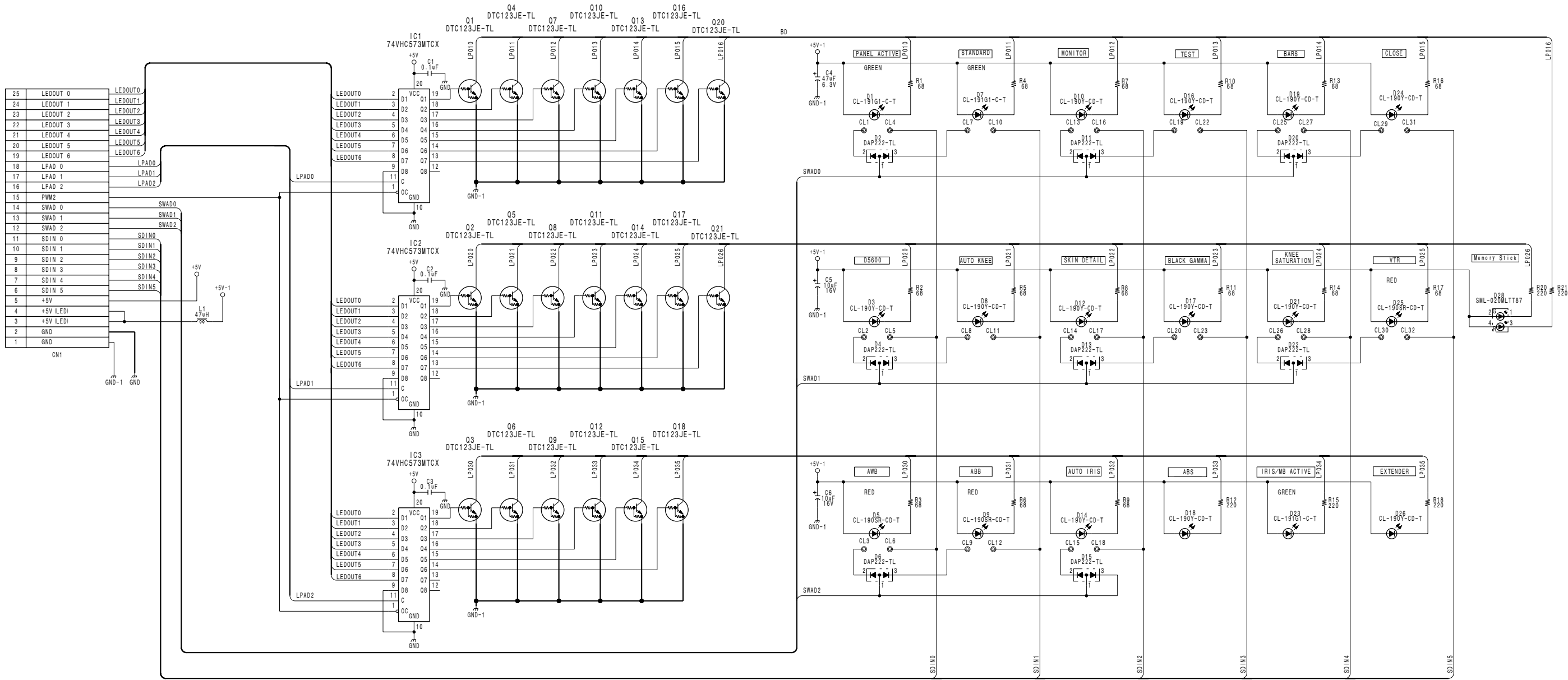


VR-277 (1/2)
SUFFIX: -22

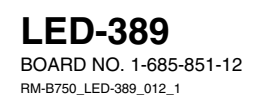


VR-277 (2/2)
SUFFIX: -22





LED-389
SUFFIX: -12



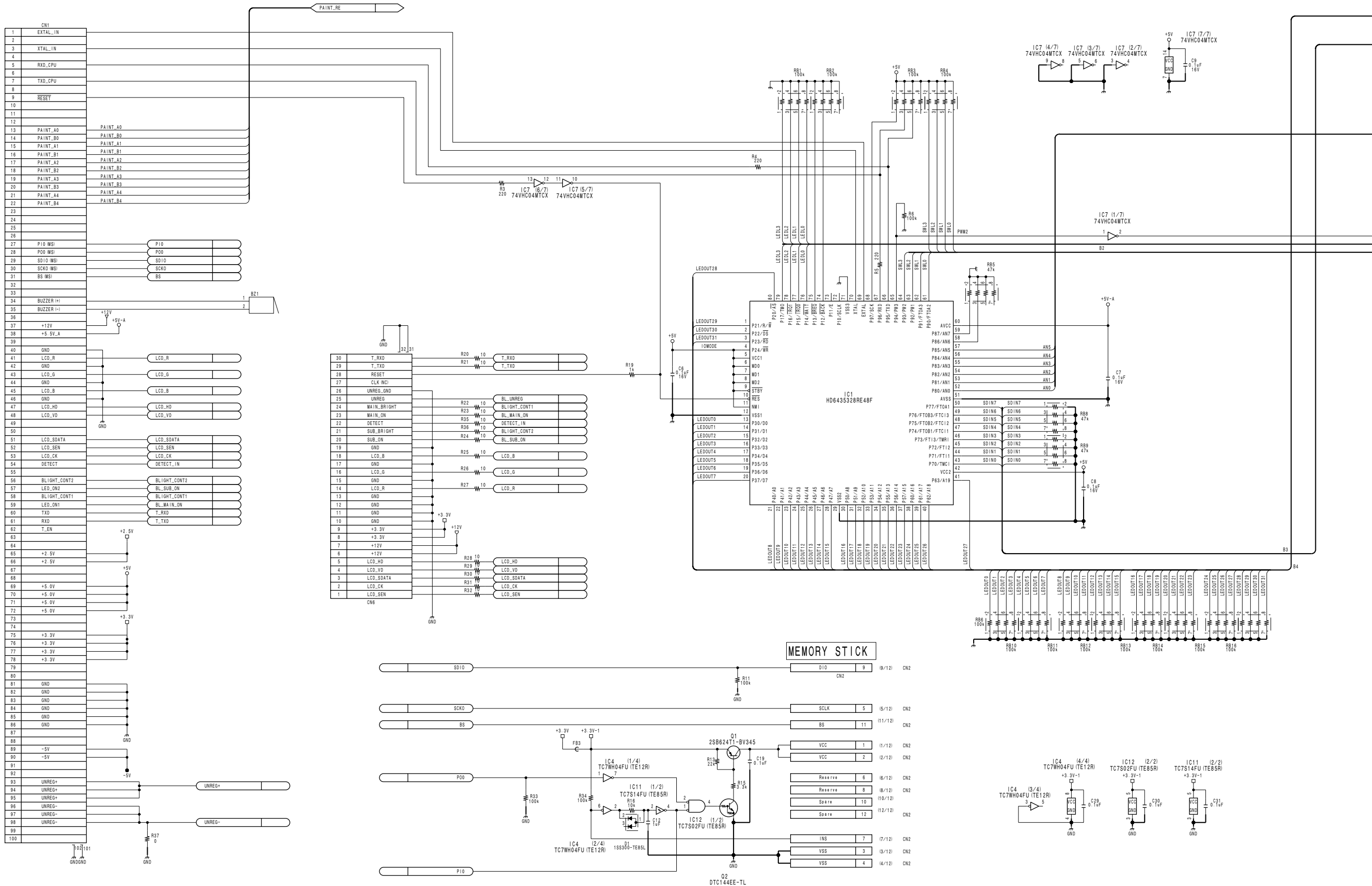
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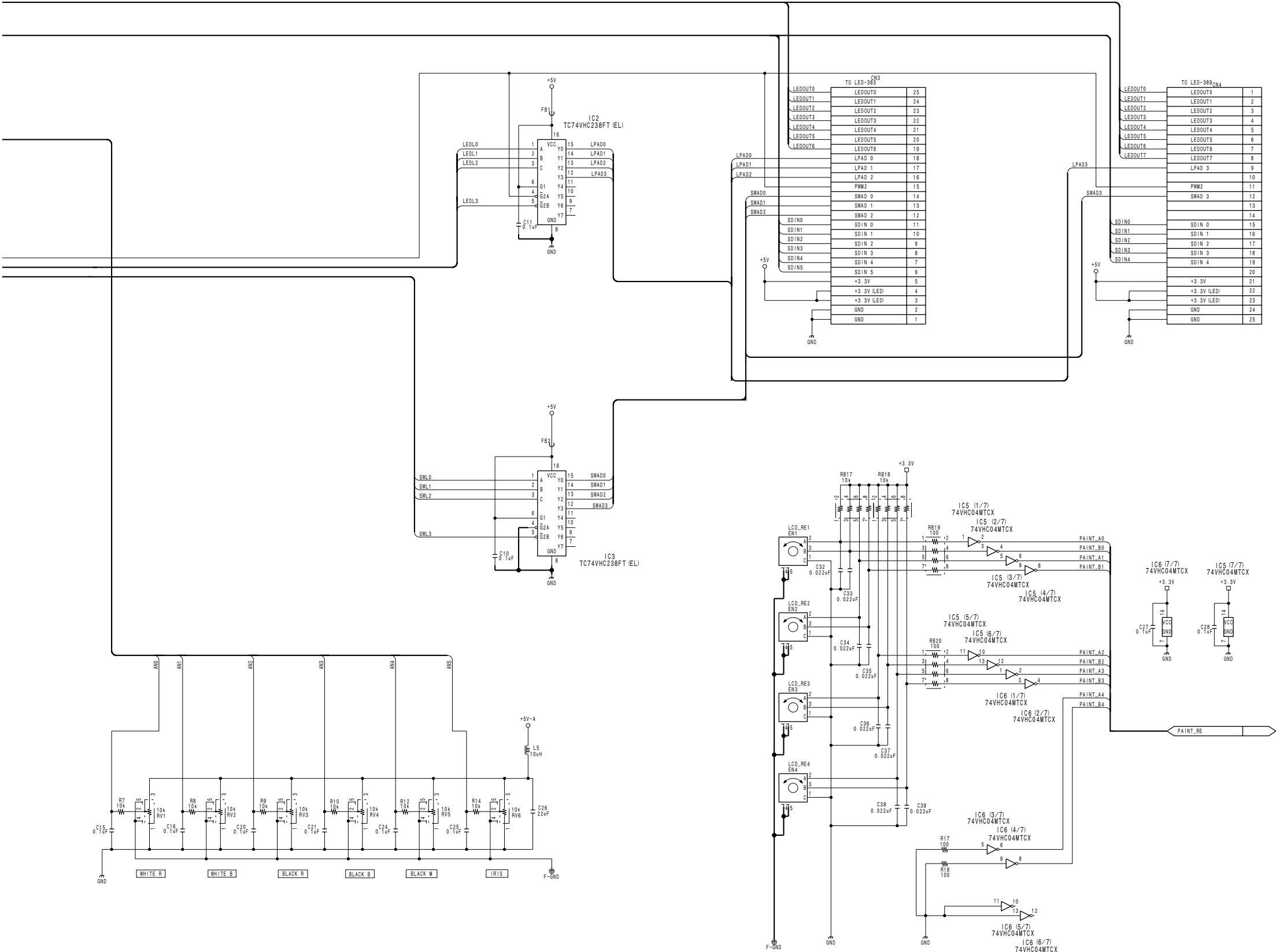
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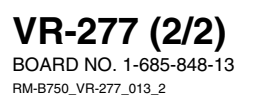
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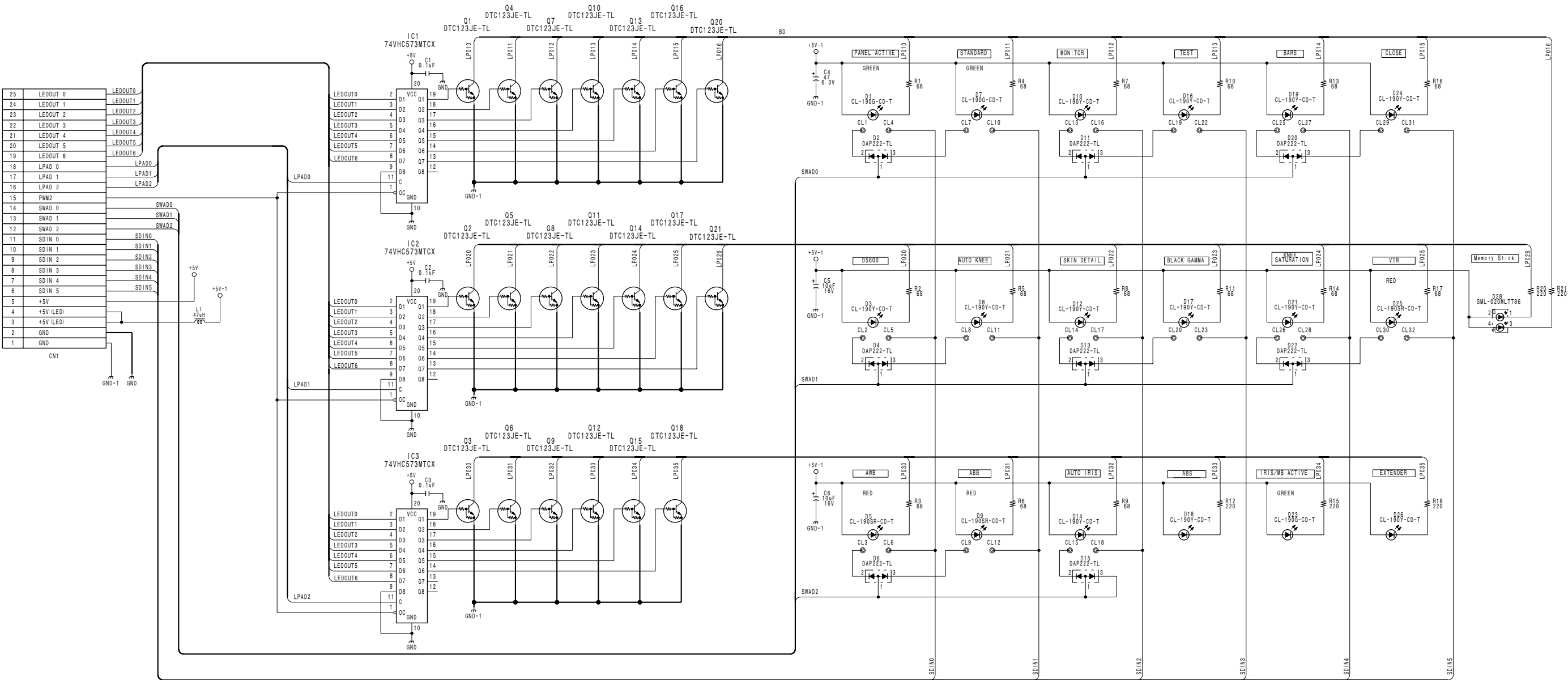
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VR-277 (2/2)
SUFFIX: -13



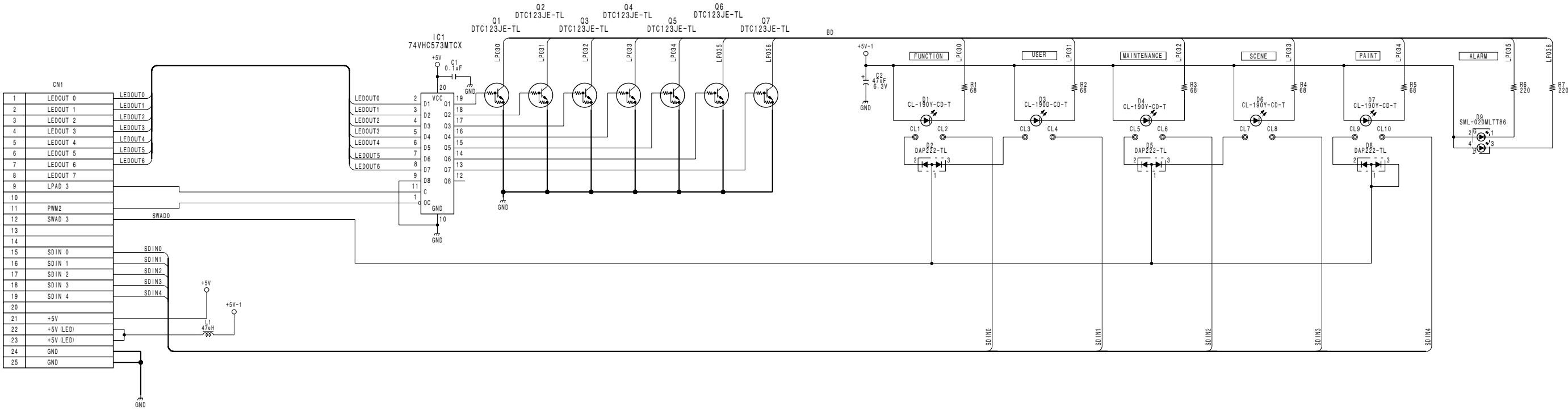


LED-389

SUFFIX: -11

LED-389

SUFFIX: -11



LED-389

BOARD NO. 1-685-851-11
RM-B750_LED-389_011_1

6-14 (a)

6-14 (a)

RM-B750

A

B

C

D

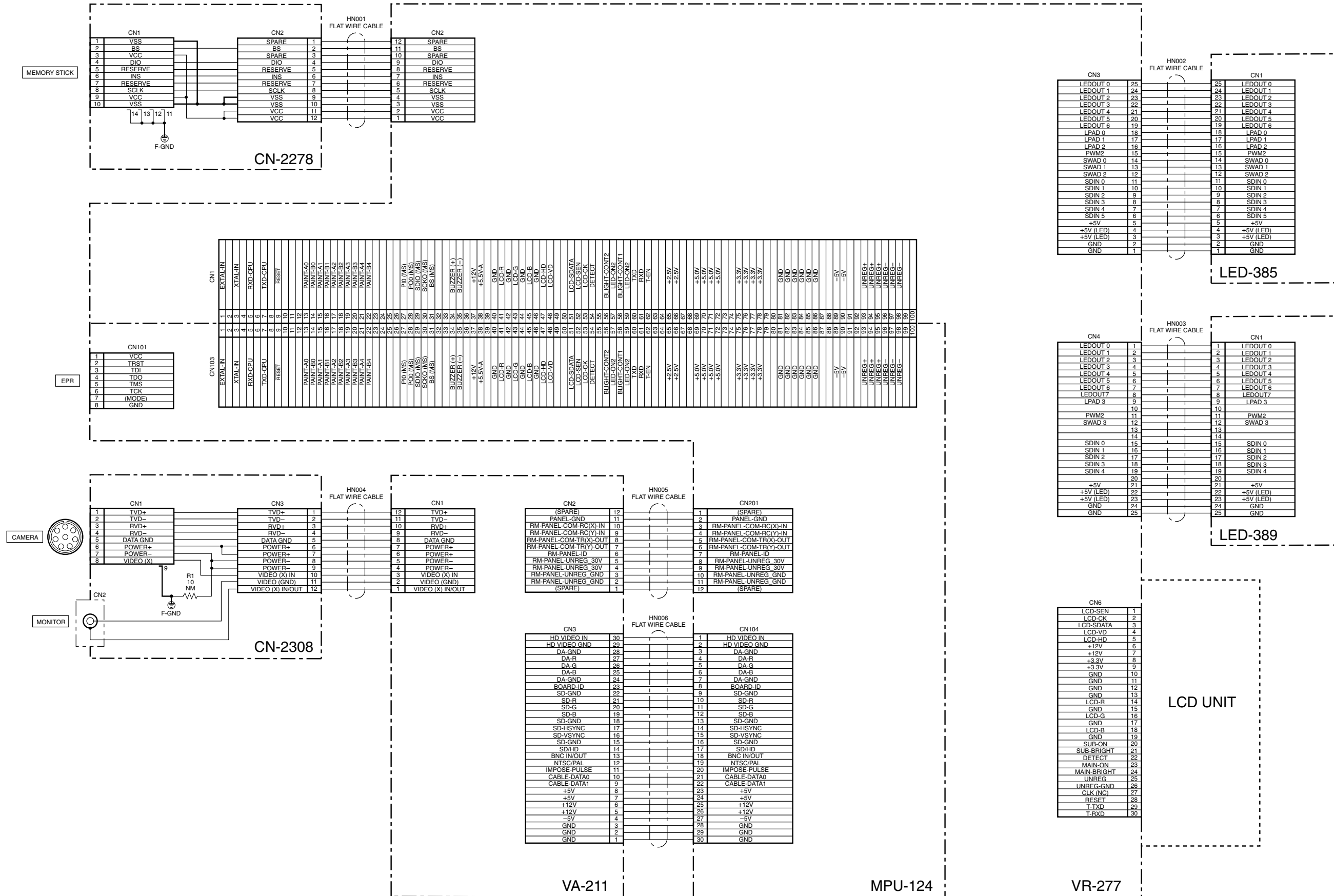
E

F

G

H

Frame Wiring Frame Wiring



Frame Wiring

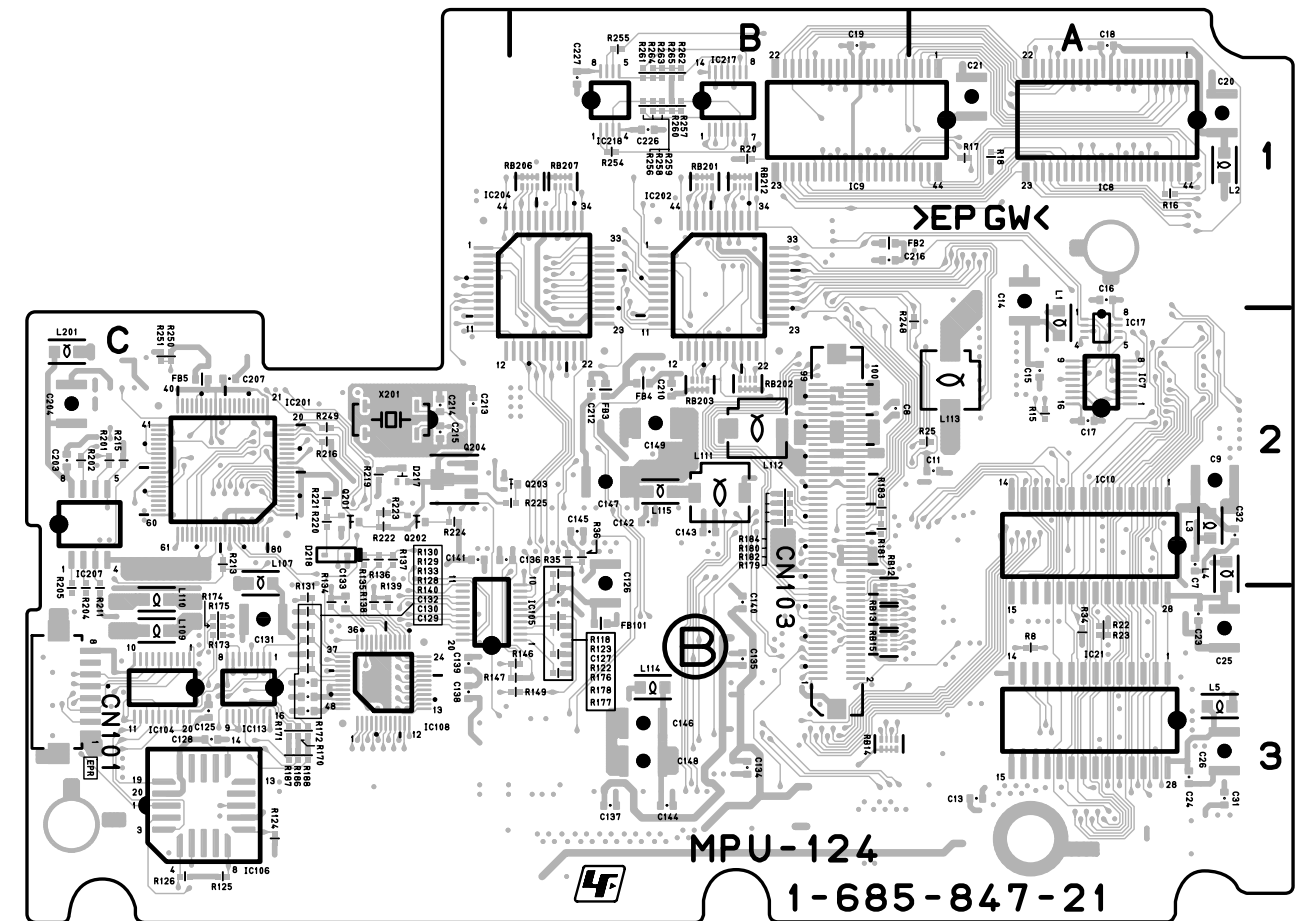
Section 7

Board Layouts

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LED-389	7-6
M. MPU-124	7-2
V. VA-211	7-4
VR-277	7-5

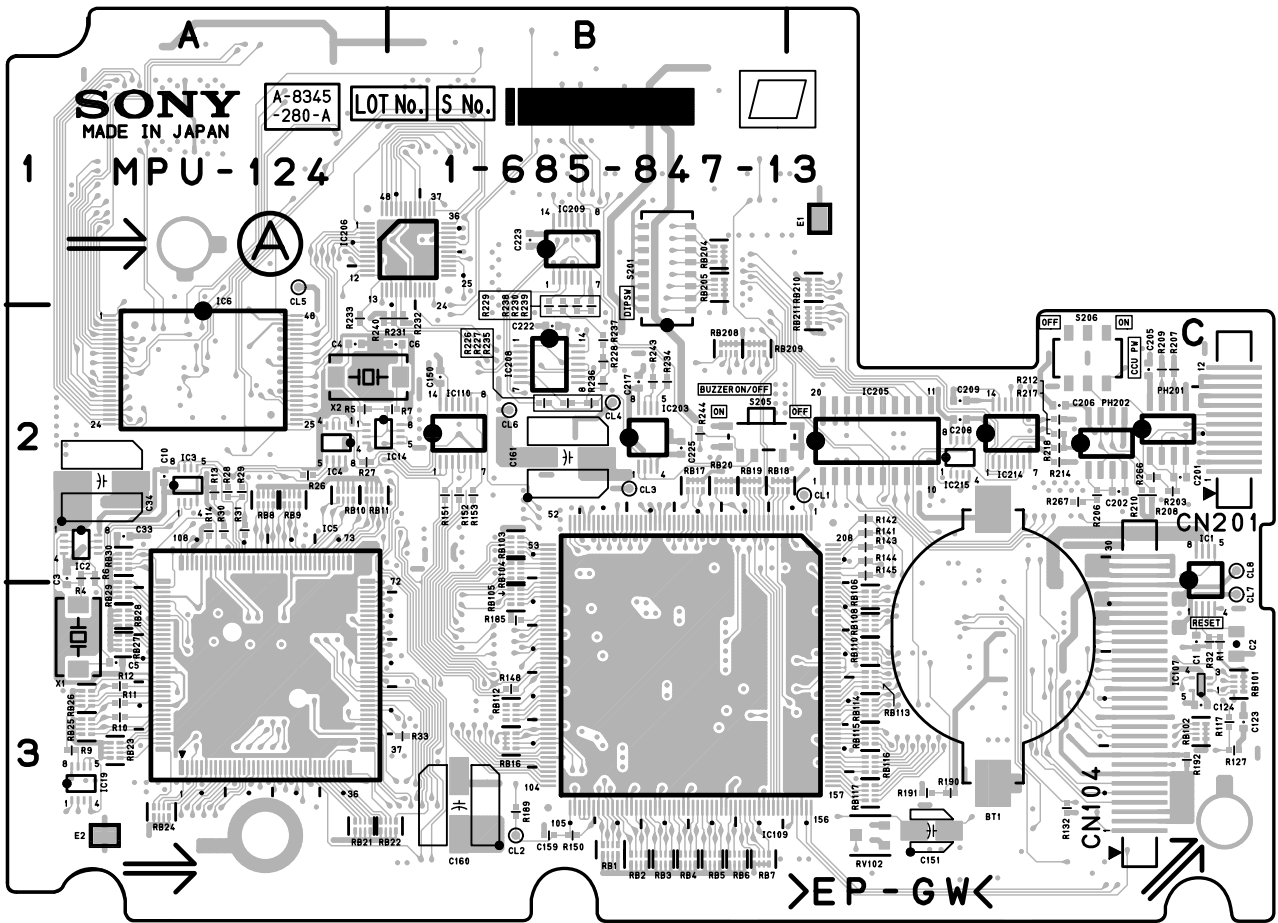
MPU-124
SUFFIX: -21



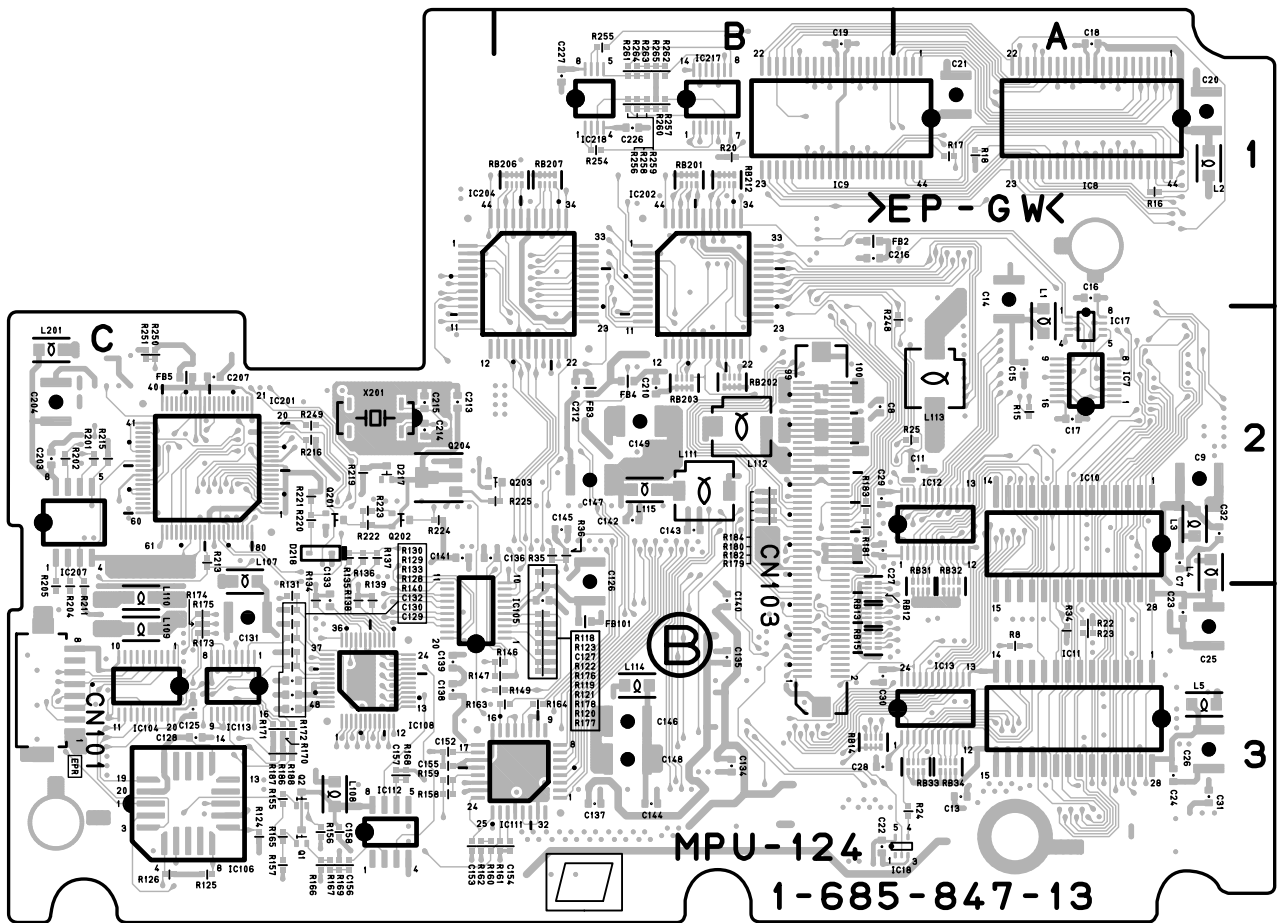
MPU-124 -B SIDE-
SUFFIX: -21

* : B SIDE

BT1	C3	C126	*B2	C208	C2	E1	C1	IC203	B2	R1	C3	R122	*B3	R171	*C3		R213	*C2	R251	*C2	RB18	B2
		C127	*B3	C209	C2	E2	A3	IC204	*B1	R4	A2	R123	*B3	R172	*C3		R214	C2	R254	*B1	RB19	B2
C1	C3	C128	*C3	C210	*B2			IC205	C2	R5	A2	R124	*C3	R173	*C3		R215	*C2	R255	*B1	RB20	B2
C2	C3	C129	*C3	C212	*B2	FB2	*B1	IC206	B1	R6	A2	R125	*C3	R174	*C3		R216	*C2	R256	*B1	RB21	A3
C3	A2	C130	*C3	C213	*C2	FB3	*B2	IC207	*C3	R7	B2	R126	*C3	R175	*C3		R217	C2	R257	*B1	RB22	B3
C4	A2	C131	*C3	C214	*C2	FB4	*B2	IC208	B2	R8	*A3	R127	C3	R176	*B3		R218	C2	R258	*B1	RB23	A3
C5	A3	C132	*C3	C215	*C2	FB5	*C2	IC209	B1	R9	A3	R128	*C3	R177	*B3		R219	*C2	R259	*B1	RB24	A3
C6	B2	C133	*C3	C216	*B1	FB101	*B3	IC214	C2	R10	A3	R129	*C3	R178	*B3		R220	*C2	R260	*B1	RB25	A3
C7	*A2	C134	*B3	C217	B2			IC215	C2	R11	A3	R130	*C3	R179	*B2		R221	*C2	R261	*B1	RB26	A3
C8	*B2	C135	*B3	C222	B2	IC1	C3	IC217	*B1	R12	A3	R131	*C3	R180	*B2		R222	*C2	R262	*B1	RB27	A3
C9	*A2	C136	*C2	C223	B1	IC2	A2	IC218	*B1	R13	A2	R132	C3	R181	*B2		R223	*C2	R263	*B1	RB28	A3
C10	A2	C137	*B3	C225	B2	IC3	A2			R14	A2	R133	*C3	R182	*B2		R224	*C2	R264	*B1	RB29	A3
C11	*A2	C138	*C3	C226	*B1	IC4	A2	L1	*A2	R15	*A2	R134	*C3	R183	*B2		R225	*B2	R265	*B1	RB30	A2
C13	*A3	C139	*C3	C227	*B1	IC5	A3	L2	*A1	R16	*A1	R135	*C2	R184	*B2		R226	B2	R266	C2	RB101	C3
C14	*A1	C140	*B3			IC6	A2	L3	*A2	R17	*A1	R136	*C2	R185	B3		R227	B2	R268	B2	RB102	C3
C15	*A2	C141	*C2	CL1	C2	IC7	*A2	L4	*A2	R18	*A1	R137	*C2	R186	*C3		R228	B2			RB103	B2
C16	*A1	C142	*B2	CL2	B3	IC8	*A1	L5	*A3	R20	*B1	R138	*C3	R187	*C3		R229	B2	RB1	B3	RB104	B2
C17	*A2	C143	*B2	CL3	B2	IC9	*A1	L107	*C2	R22	*A3	R139	*C3	R188	*C3		R230	B2	RB2	B3	RB105	B3
C18	*A1	C144	*B3	CL4	B2	IC10	*A2	L109	*C3	R23	*A3	R140	*C3	R189	B3		R231	B2	RB3	B3	RB106	C3
C19	*B1	C145	*B2	CL5	A1	IC14	A2	L110	*C3	R25	*A2	R141	C2	R190	C3		R232	B2	RB4	B3	RB108	C3
C20	*A1	C146	*B3	CL6	B2	IC17	*A2	L111	*B2	R26	*A2	R142	C2	R191	C3		R233	A2	RB5	B3	RB110	C3
C21	*A1	C147	*B2	CL7	C3	IC19	A3	L112	*B2	R27	A2	R143	C2	R192	C3		R234	B2	RB6	B3	RB112	B3
C23	*A3	C148	*B3	CL8	C2	IC21	*A3	L113	*A2	R28	A2	R144	C2	R201	*C2		R235	B2	RB7	B3	RB113	C3
C24	*A3	C149	*B2	CL9	C3	IC104	*C3	L114	*B3	R29	A2	R145	C2	R202	*C2		R236	B2	RB8	A2	RB114	C3
C25	*A3	C150	B2	CL10	C3	IC105	*B3	L115	*B2	R30	A2	R146	*B3	R203	C2		R237	B2	RB9	A2	RB115	C3
C26	*A3	C159	B3			IC106	*C3	L201	*C2	R31	A2	R147	*B3	R204	*C3		R238	B2	RB10	A2	RB116	C3
C31	*A3	C160	B3	CN101	*C3	IC107	C3			R32	C3	R148	B3	R205	*C3		R239	B2	RB11	A2	RB117	C3
C32	*A2	C161	B2	CN103	*B2	IC108	*C3	PH201	C2	R33	B3	R149	*B3	R207	C2		R240	A2	RB12	*B3	RB201	*B1
C33	A2	C201	C2	CN104	C3	IC109	B3			R34	*A3	R150	B3	R208	C2		R243	B2	RB13	*B3	RB202	*B2
C34	A2	C203	*C2	CN201	C2	IC110	B2	Q201	*C2	R35	*B2	R151	B2	R209	C2		R244	B2	RB14	*B3	RB203	*B2
C123	C3	C204	*C2			IC113	*C3	Q202	*C2	R36	*B2	R152	B2	R210	C2		R248	*A2	RB15	*B3	RB204	B1
C124	C3	C205	C2	D217	*C2	IC201	*C2	Q203	*B2	R117	C3	R153	B2	R211	*C3		R249	*C2	RB16	B3	RB205	B1
C125	*C3	C207	*C2	D218	*C2	IC202	*B1	Q204	*C2	R118	*B2	R170	*C3	R212	C2		R250	*C2	RB17	B2	RB206	*B1



MPU-124 -A SIDE-
SUFFIX: -13



MPU-124 -B SIDE-
SUFFIX: -13

MPU-124 (1-685-847-13)

*:B SIDE

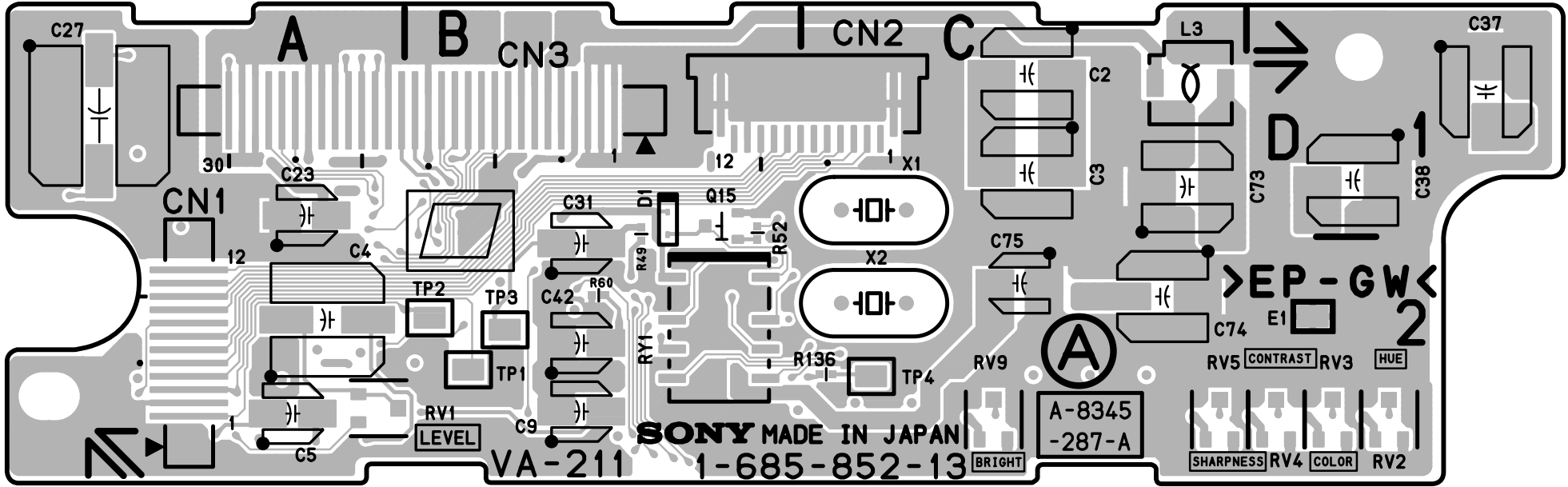
BT1	C3	C33	A2	C154	*B3	CL4	B2	IC11	*A3	L3	*A2	R12	A3	R127	C3
		C34	A2	C155	*C3	CL5	A1	IC12	*A2	L4	*A2	R13	A2	R128	*C3
C1	C3	C123	C3	C156	*C3	CL6	B2	IC13	*A3	L5	*A3	R14	A2	R129	*C3
C2	C3	C124	C3	C157	*C3	CL7	C3	IC14	A2	L107	*C2	R15	*A2	R130	*C3
C3	A2	C125	*C3	C158	*C3	CL8	C2	IC17	*A2	L108	*C3	R16	*A1	R131	*C3
C4	A2	C126	*B2	C159	B3			IC18	*A3	L109	*C3	R17	*A1	R132	C3
C5	A3	C127	*B3	C160	B3	CN101	*C3	IC19	A3	L110	*C3	R18	*A1	R133	*C3
C6	B2	C128	*C3	C161	B2	CN103	*B2	IC104	*C3	L111	*B2	R20	*B1	R134	*C3
C7	*A2	C129	*C3	C201	C2	CN104	C3	IC105	*B3	L112	*B2	R22	*A3	R135	*C2
C8	*B2	C130	*C3	C202	C2	CN201	C2	IC106	*C3	L113	*A2	R23	*A3	R136	*C2
C9	*A2	C131	*C3	C203	*C2			IC107	C3	L114	*B3	R24	*A3	R137	*C2
C10	A2	C132	*C3	C204	*C2	D217	*C2	IC108	*C3	L115	*B2	R25	*A2	R138	*C3
C11	*A2	C133	*C3	C205	C2	D218	*C2	IC109	B3	L201	*C2	R26	A2	R139	*C3
C13	*A3	C134	*B3	C206	C2			IC110	B2			R27	A2	R140	*C3
C14	*A1	C135	*B3	C207	*C2	E1	C1	IC111	*B3	PH201	C2	R28	A2	R141	C2
C15	*A2	C136	*C2	C208	C2	E2	A3	IC112	*C3	PH202	C2	R29	A2	R142	C2
C16	*A1	C137	*B3	C209	C2			IC113	*C3			R30	A2	R143	C2
C17	*A2	C138	*C3	C210	*B2	FB2	*B1	IC201	*C2	Q1	*C3	R31	A2	R144	C2
C18	*A1	C139	*C3	C212	*B2	FB3	*B2	IC202	*B1	Q2	*C3	R32	C3	R145	C2
C19	*B1	C140	*B3	C213	*C2	FB4	*B2	IC203	B2	Q201	*C2	R33	B3	R146	*B3
C20	*A1	C141	*C2	C214	*C2	FB5	*C2	IC204	*B1	Q202	*C2	R34	*A3	R147	*B3
C21	*A1	C142	*B2	C215	*C2	FB101	*B3	IC205	C2	Q203	*B2	R35	*B2	R148	B3
C22	*B3	C143	*B2	C216	*B1			IC206	B1	Q204	*C2	R36	*B2	R149	*B3
C23	*A3	C144	*B3	C217	B2	IC1	C3	IC207	*C2			R117	C3	R150	B3
C24	*A3	C145	*B2	C222	B2	IC2	A2	IC208	B2	R1	C3	R118	*B2	R151	B2
C25	*A3	C146	*B3	C223	B1	IC3	A2	IC209	B1	R4	A2	R119	*B3	R152	B2
C26	*A3	C147	*B2	C225	B2	IC4	A2	IC214	C2	R5	A2	R120	*B3	R153	B2
C27	*B2	C148	*B3	C226	*B1	IC5	A3	IC215	C2	R6	A2	R121	*B3	R155	*C3
C28	*B3	C149	*B2	C227	*B1	IC6	A2	IC217	*B1	R7	B2	R122	*B3	R156	*C3
C29	*B2	C150	B2			IC7	*A2	IC218	*B1	R8	*A3	R123	*B3	R157	*C3
C30	*B3	C151	C3	CL1	C2	IC8	*A1			R9	A3	R124	*C3	R158	*C3
C31	*A3	C152	*C3	CL2	B3	IC9	*A1	L1	*A2	R10	A3	R125	*C3	R159	*C3
C32	*A2	C153	*C3	CL3	B2	IC10	*A2	L2	*A1	R11	A3	R126	*C3	R160	*C3

R161	*B3	R202	*C2	R235	B2	RB7	B3	RB106	C3
R162	*C3	R203	C2	R236	B2	RB8	A2	RB108	C3
R163	*B3	R204	*C3	R237	B2	RB9	A2	RB110	C3
R164	*B3	R205	*C3	R238	B2	RB10	A2	RB112	B3
R165	*C3	R206	C2	R239	B2	RB11	A2	RB113	C3
R166	*C3	R207	C2	R240	A2	RB12	*B3	RB114	C3
R167	*C3	R208	C2	R243	B2	RB13	*B3	RB115	C3
R168	*C3	R209	C2	R244	B2	RB14	*B3	RB116	C3
R169	*C3	R210	C2	R248	*A2	RB15	*B3	RB117	C3
R170	*C3	R211	*C3	R249	*C2	RB16	B3	RB201	*B1
R171	*C3	R212	C2	R250	*C2	RB17	B2	RB202	*B2
R172	*C3	R213	*C2	R251	*C2	RB18	B2	RB203	*B2
R173	*C3	R214	C2	R254	*B1	RB19	B2	RB204	B1
R174	*C3	R215	*C2	R255	*B1	RB20	B2	RB205	B1
R175	*C3	R216	*C2	R256	*B1	RB21	A3	RB206	*B1
R176	*B3	R217	C2	R257	*B1	RB22	B3	RB207	*B1
R177	*B3	R218	C2	R258	*B1	RB23	A3	RB208	B2
R178	*B3	R219	*C2	R259	*B1	RB24	A3	RB209	B2
R179	*B2	R220	*C2	R260	*B1	RB25	A3	RB210	C1
R180	*B2	R221	*C2	R261	*B1	RB26	A3	RB211	C2
R181	*B2	R222	*C2	R262	*B1	RB27	A3	RB212	*B1
R182	*B2	R223	*C2	R263	*B1	RB28	A3		
R183	*B2	R224	*C2	R264	*B1	RB29	A3	RV102	C3
R184	*B2	R225	*B2	R265	*B1	RB30	A2		
R185	B3	R226	B2	R266	C2	RB31	*A3	S201	B1
R186	*C3	R227	B2	R267	C2	RB32	*A3	S205	B2
R187	*C3	R228	B2			RB33	*A3	S206	C2
R188	*C3	R229	B2	RB1	B3	RB34	*A3		
R189	B3	R230	B2	RB2	B3	RB101	C3	X1	A3
R190	C3	R231	B2	RB3	B3	RB102	C3	X2	A2
R191	C3	R232	B2	RB4	B3	RB103	B2	X201	*C2
R192	C3	R233	A2	RB5	B3	RB104	B2		
R201	*C2	R234	B2	RB6	B3	RB105	B3		

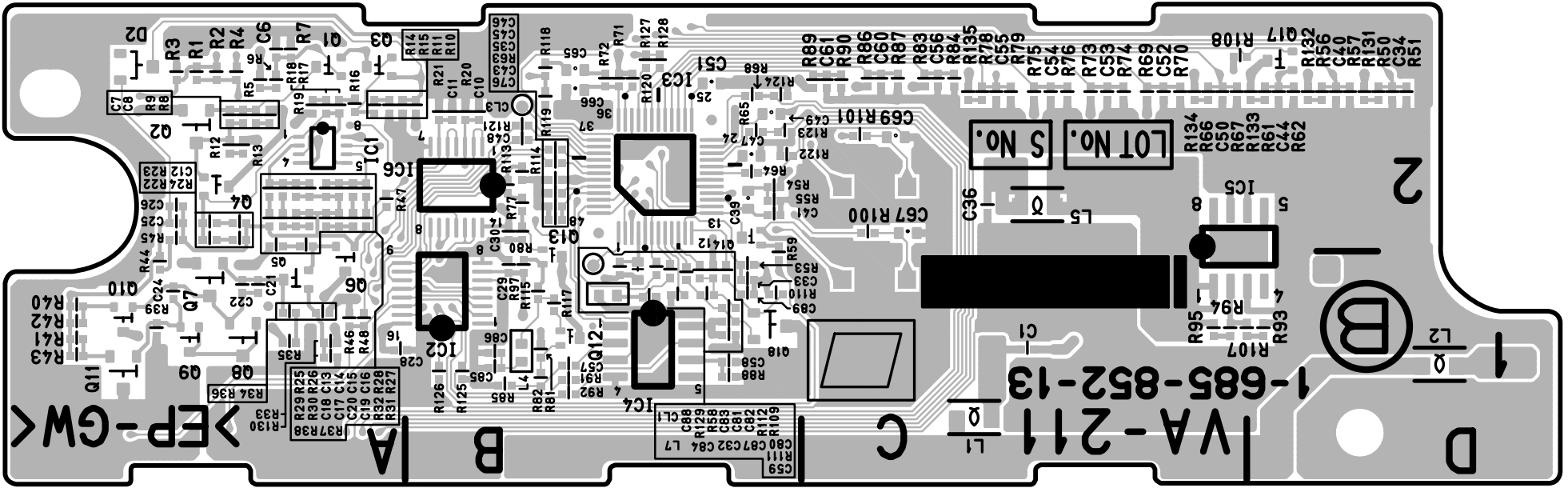
VA-211 (1-685-852-13)

*:B SIDE

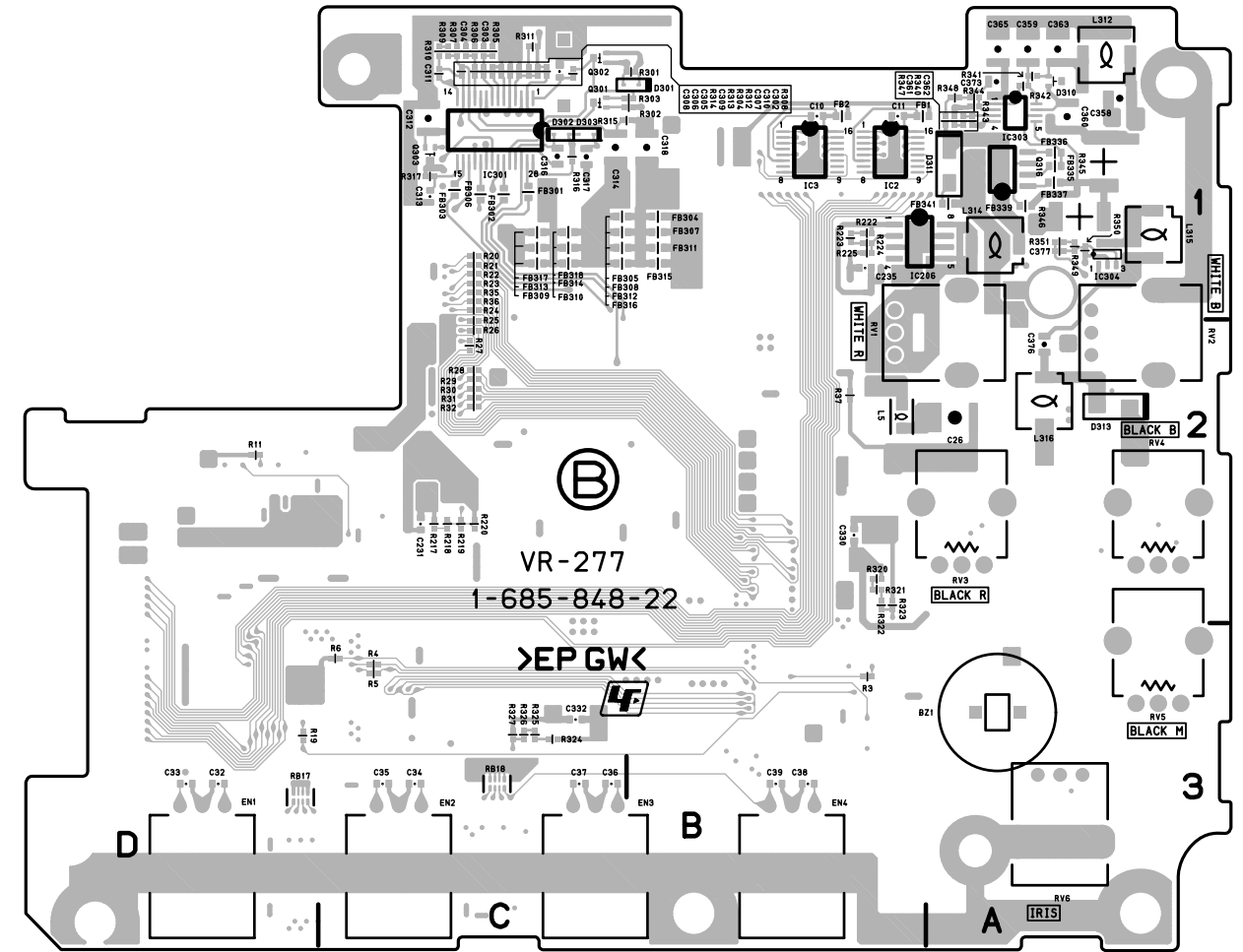
C1	*C1	C84	*B1	R23	*A2	R97	*B1
C2	C1	C85	*B1	R24	*A2	R100	*C2
C3	C1	C86	*B1	R25	*A2	R101	*C2
C4	A2	C87	*B1	R26	*A2	R107	*C1
C5	A2	C88	*B1	R27	*A2	R108	*C2
C6	*A2	C89	*B1	R28	*A2	R109	*B1
C7	*A2			R29	*A2	R110	*B1
C8	*A2	CL1	*B1	R30	*A2	R111	*B1
C9	B2	CL3	*B2	R31	*A2	R112	*B1
C10	*B2			R32	*A2	R113	*B2
C11	*B2	CN1	A2	R33	*A1	R114	*B2
C12	*A2	CN2	C1	R34	*A1	R115	*B1
C13	*A2	CN3	B1	R35	*A1	R117	*B1
C14	*A2			R36	*A1	R118	*B2
C15	*A2	D1	B1	R37	*A2	R119	*B2
C16	*A2	D2	*A2	R38	*A2	R120	*B2
C17	*A2			R39	*A1	R121	*B2
C18	*A2	E1	D2	R40	*A1	R122	*B2
C19	*A2			R41	*A1	R123	*B2
C20	*A2	IC1	*A2	R42	*A1	R124	*B2
C21	*A1	IC2	*B1	R43	*A1	R125	*B1
C22	*A1	IC3	*B2	R44	*A1	R126	*B1
C23	A1	IC4	*B1	R45	*A2	R127	*B2
C24	*A1	IC5	*C1	R46	*A1	R128	*B2
C25	*A2	IC6	*B2	R47	*A2	R129	*B1
C26	*A2			R48	*A1	R130	*A1
C27	A1	L1	*C1	R49	B1	R131	*D2
C28	*A1	L2	*D1	R50	*D2	R132	*D2
C29	*B1	L3	C1	R51	*D2	R133	*D2
C30	*B2	L4	*B1	R52	B1	R134	*C2
C31	B2	L5	*C2	R53	*B1	R135	*C2
C32	*B1	L7	*B1	R54	*B2	R136	C2
C33	*B1			R55	*B2		
C34	*D2	Q1	*A2	R56	*D2	RV1	A2
C35	*B2	Q2	*A2	R57	*D2	RV2	D2
C36	*C2	Q3	*A2	R58	*B1	RV3	D2
C37	D1	Q4	*A2	R59	*B1	RV4	D2
C38	D1	Q5	*A1	R60	B2	RV5	C2
C39	*B2	Q6	*A1	R61	*D2	RV9	C2
C40	*D2	Q7	*A1	R62	*D2		
C41	*B2	Q8	*A1	R63	*B2	RY1	B2
C42	B2	Q9	*A1	R64	*B2		
C43	*B2	Q10	*A1	R65	*B2	TP1	B2
C44	*D2	Q11	*A1	R66	*C2	TP2	B2
C45	*B2	Q12	*B1	R67	*C2	TP3	B2
C46	*B2	Q13	*B1	R68	*B2	TP4	C2
C47	*B2	Q14	*B2	R69	*C2		
C48	*B2	Q15	B1	R70	*C2	X1	C1
C49	*B2	Q17	*D2	R71	*B2	X2	C2
C50	*C2	Q18	*B1	R72	*B2		
C51	*B2			R73	*C2		
C52	*C2	R1	*A2	R74	*C2		
C53	*C2	R2	*A2	R75	*C2		
C54	*C2	R3	*A2	R76	*C2		
C55	*C2	R4	*A2	R77	*B2		
C56	*C2	R5	*A2	R78	*C2		
C57	*B1	R6	*A2	R79	*C2		
C58	*B1	R7	*A2	R80	*B2		
C59	*B1	R8	*A2	R81	*B1		
C60	*C2	R9	*A2	R82	*B1		
C61	*C2	R10	*B2	R83	*C2		
C65	*B2	R11	*A2	R84	*C2		
C66	*B2	R12	*A2	R85	*B1		
C67	*C2	R13	*A2	R86	*C2		
C69	*C2	R14	*A2	R87	*C2		
C73	C1	R15	*A2	R88	*B1		
C74	C2	R16	*A2	R89	*C2		
C75	C2	R17	*A2	R90	*C2		
C76	*B2	R18	*A2	R91	*B1		
C80	*B1	R19	*A2	R92	*B1		
C81	*B1	R20	*B2	R93	*D1		
C82	*B1	R21	*B2	R94	*C1		
C83	*B1	R22	*A2	R95	*C1		



VA-211 -A SIDE-
SUFFIX: -13



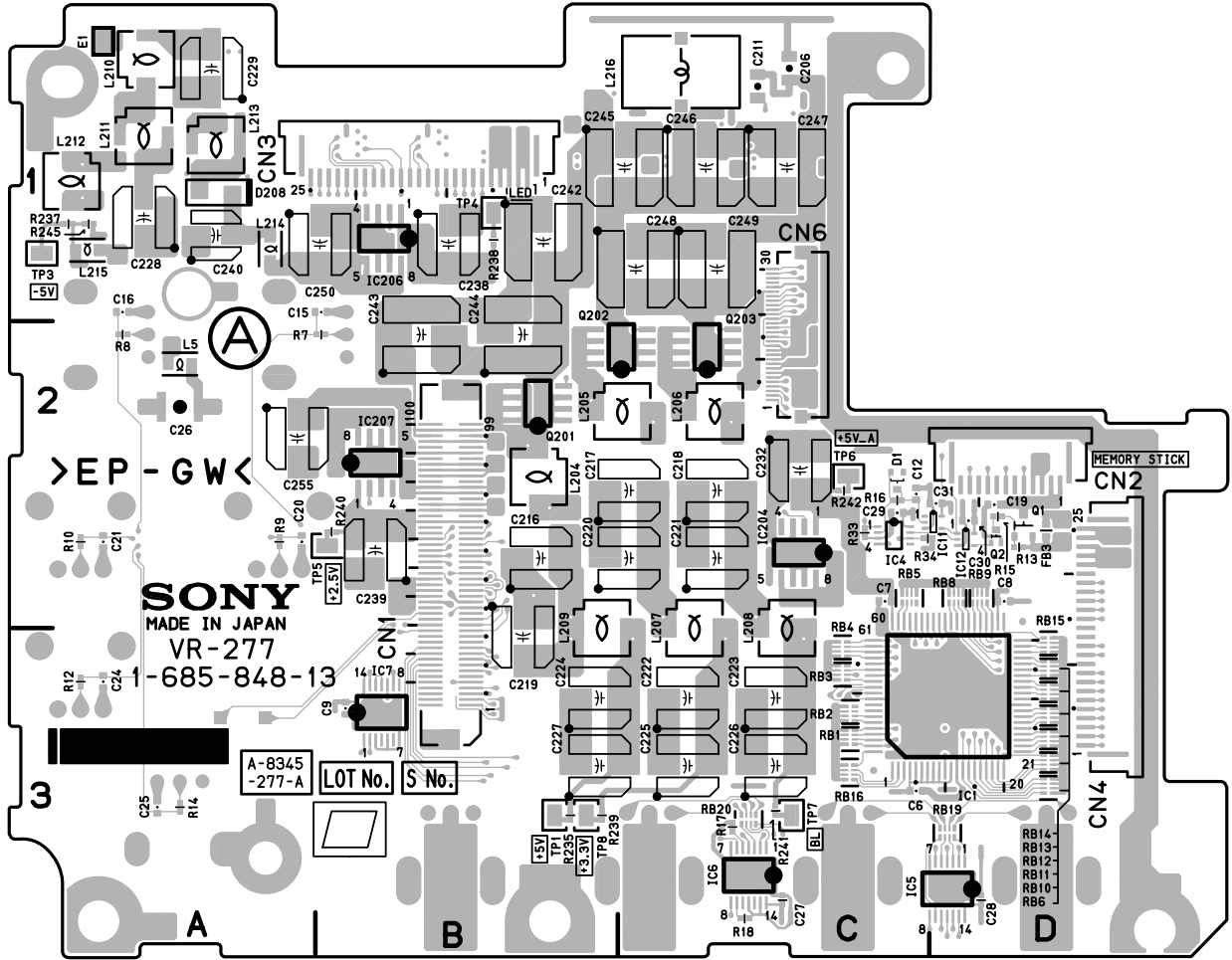
VA-211 -B SIDE-
SUFFIX: -13



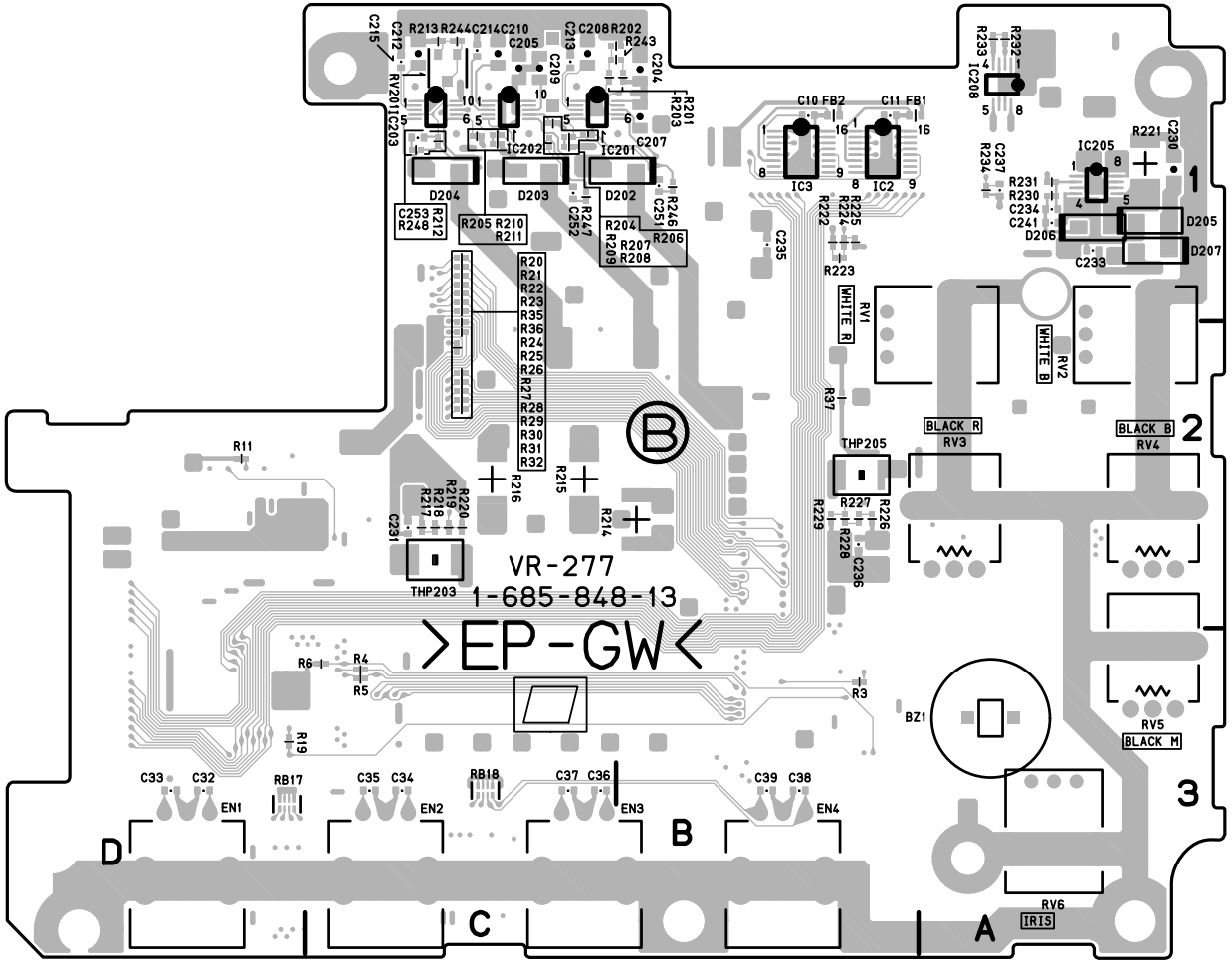
VR-277 -B SIDE-
SUFFIX: -22

* : B SIDE

R349	*A1	TP5	A2
R350	*A1	TP6	C2
R351	*A1	TP7	C3
		TP8	B3
RB1	C3		
RB2	C3		
RB3	C3		
RB4	C3		
RB5	C2		
RB6	D3		
RB8	D2		
RB9	D2		
RB10	D3		
RB11	D3		
RB12	D3		
RB13	D3		
RB14	D3		
RB15	D3		
RB16	C3		
RB17	*D3		
RB18	*C3		
RB19	D3		
RB20	C3		
RV1	*A2		
RV2	*A2		
RV3	*A2		
RV4	*A2		
RV5	*A3		
RV6	*A3		
TP1	B3		
TP3	A2		
TP4	B1		



VR-277 -A SIDE-
SUFFIX: -13



VR-277 -B SIDE-
SUFFIX: -13

VR-277 (1-685-848-13)

*:B SIDE

BZ1	*A3	C208	*C1	C242	B1	EN4	*B3	L213	A1	R26	*C2	R223	*B1	RB10	D3
C6	C3	C210	*C1	C243	B2	FB1	*B1	L214	A1	R27	*C2	R224	*B1	RB11	D3
C7	C2	C211	C1	C244	B2	FB2	*B1	L215	A1	R28	*C2	R225	*B1	RB12	D3
C8	D2	C212	*C1	C245	C1	FB3	D2	L216	C1	R29	*C2	R226	*B2	RB13	D3
C9	B3	C213	*C1	C246	C1					R30	*C2	R227	*B2	RB14	D3
C10	*B1	C214	*C1	C247	C1	IC1	D3	Q1	D2	R31	*C2	R228	*B2	RB15	D3
C11	*B1	C215	*C1	C248	C1	IC2	*B1	Q2	D2	R32	*C2	R229	*B2	RB16	C3
C12	C2	C216	B2	C249	C1	IC3	*B1	Q201	B2	R33	C2	R230	*A1	RB17	*D3
C15	B1	C217	C2	C250	B1	IC4	*B1	Q202	C2	R34	C2	R231	*A1	RB18	*C3
C16	A1	C218	C2	C251	*B1	IC5	C2	Q203	C2	R35	*C1	R232	*A1	RB19	D3
C19	D2	C219	B3	C252	*C1	IC6	C3	R3	*B3	R36	*C1	R233	*A1	RB20	C3
C20	A2	C220	C2	C253	*C1	IC7	B3	R4	*C3	R37	*B2	R234	*A1		
C21	A2	C221	C2	C255	A2	IC11	D2	R5	*C3	R201	*B1	R235	B3	RV1	*A2
C24	A3	C222	C3			IC12	D2	R6	*C3	R202	*B1	R237	A1	RV2	*A2
C25	A3	C223	C3	CN1	B2	IC201	*C1	R7	B2	R203	*C1	R238	B1	RV3	*A2
C26	A2	C224	B3	CN2	D2	IC202	*C1	R8	A2	R204	*C1	R239	B3	RV4	*A2
C27	C3	C225	C3	CN3	B1	IC203	*C1	R9	A2	R205	*C1	R240	B2	RV5	*A3
C28	D3	C226	C3	CN4	D3	IC204	*C1	R10	A2	R206	*C1	R241	C3	RV6	*A3
C29	C2	C227	B3	CN6	C2	IC205	*A1	R11	*D2	R207	*C1	R242	C2	RV201	*C1
C30	D2	C228	A1			IC206	B1	R12	A3	R208	*C1	R243	*B1		
C31	D2	C229	A1	D1	C2	IC207	B2	R13	D2	R209	*C1	R244	*C1	THP203	*C2
C32	*D3	C230	*A1	D202	*B1	IC208	*A1	R14	A3	R210	*C1	R245	A1	THP205	*B2
C33	*D3	C231	*C2	D203	*C1			R15	A3	R211	*C1	R246	*B1		
C34	*C3	C232	C2	D204	*C1			R16	C2	R212	*C1	R247	*C1	TP1	B3
C35	*C3	C233	*A1	D205	*A1	L5	A2	R17	C3	R213	*C1	R248	*C1	TP3	A1
C36	*C3	C234	*A1	D206	*A1	L204	B2	R18	C3	R214	*B2			TP4	B1
C37	*C3	C235	*B1	D207	*A1	L205	C2	R19	C3	R215	*C2			TP5	B2
C38	*B3	C236	*B2	D208	A1	L206	C2	R20	*D3	R216	*C2			TP6	C2
C39	*B3	C237	*A1			L207	C2	R21	*C1	R217	*C2			TP7	C3
C204	*B1	C238	B1	E1	A1	L208	C2	R22	*C1	R218	*C2			TP8	B3
C205	*C1	C239	B2			L209	B2	R23	*C1	R219	*C2				
C206	C1	C240	A1	EN1	*D3	L210	A1	R24	*C1	R220	*C2				
C207	*B1	C241	*A1	EN2	*C3	L211	A1	R25	*C1	R221	*A1				
				EN3	*C3	L212	A1		*C2	R222	*B1				

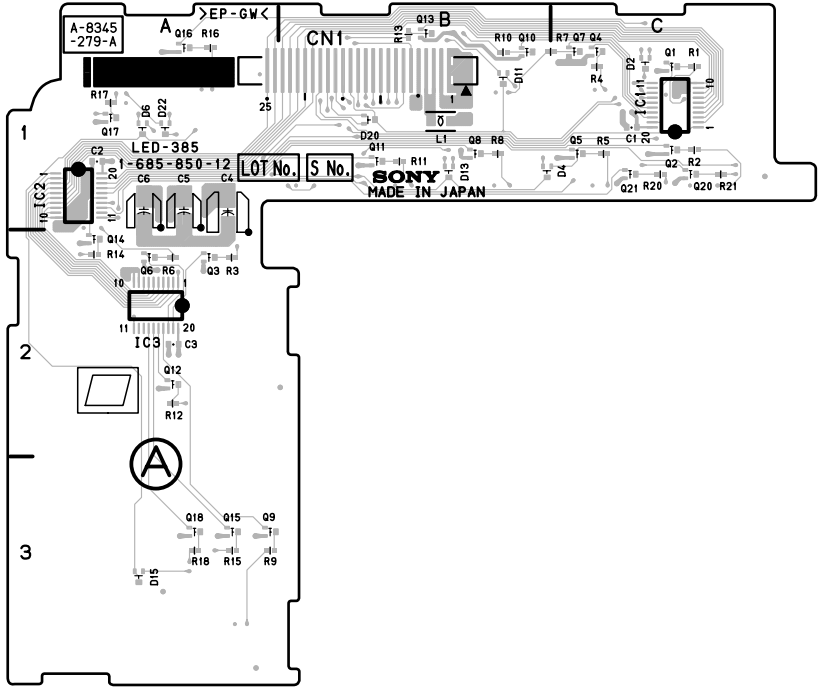
CN-2278, CN-2308, LED-385, LED-389
SUFFIX: -12 SUFFIX: -12

CN-2278, CN-2308, LED-385, LED-389
SUFFIX: -12 SUFFIX: -12

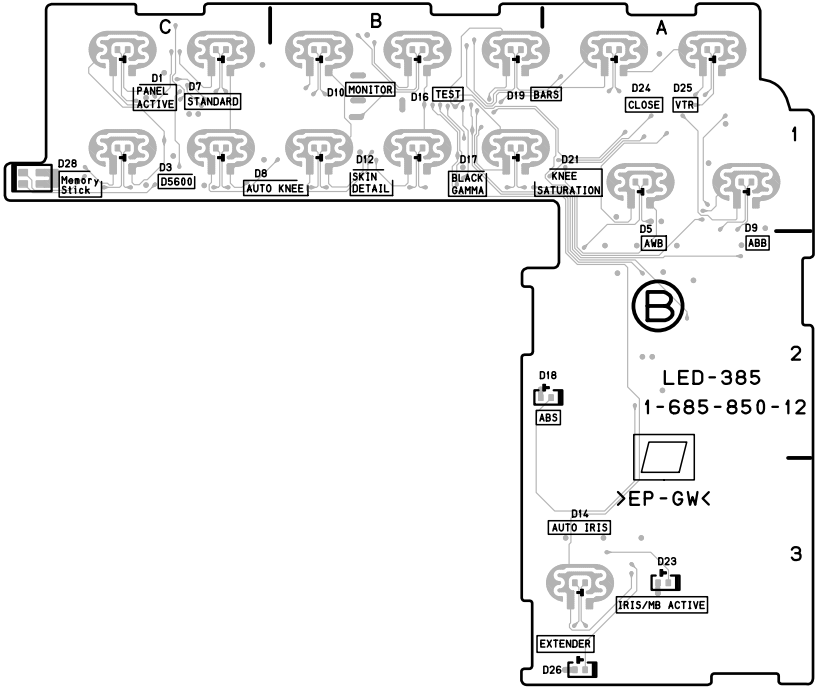
LED-385 (1-685-850-12)

*:B SIDE

C1	C1	D1	*C1	Q6	A2
C2	A1	D2	C1	Q7	C1
C3	A2	D3	*C1	Q8	B1
C4	A1	D4	B1	Q9	A3
C5	A1	D5	*A1	Q10	B1
C6	A1	D6	A1	Q11	B1
		D7	*C1	Q12	A2
CL1	*C1	D8	*C1	Q13	B1
CL2	*C1	D9	*A1	Q14	A2
CL3	*A1	D10	*B1	Q15	A3
CL4	*C1	D11	B1	Q16	A1
CL5	*C1	D12	*B1	Q17	A1
CL6	*A1	D13	B1	Q18	A3
CL7	*C1	D14	*A3	Q20	C1
CL8	*C1	D15	A3	Q21	C1
CL9	*A1	D16	*B1		
CL10	*C1	D17	*B1	R1	C1
CL11	*C1	D18	*A2	R2	C1
CL12	*A1	D19	*B1	R3	A2
CL13	*B1	D20	B1	R4	C1
CL14	*B1	D21	*B1	R5	C1
CL15	*A3	D22	A1	R6	A2
CL16	*B1	D23	*A3	R7	B1
CL17	*B1	D24	*A1	R8	B1
CL18	*A3	D25	*A1	R9	A3
CL19	*B1	D26	*A3	R10	B1
CL20	*B1	D28	*C1	R11	B1
CL22	*B1			R12	A2
CL23	*B1	IC1	C1	R13	B1
CL25	*B1	IC2	A1	R14	A2
CL26	*B1	IC3	A2	R15	A3
CL27	*B1			R16	A1
CL28	*B1	L1	B1	R17	A1
CL29	*A1			R18	A3
CL30	*A1	Q1	C1	R20	C1
CL31	*A1	Q2	C1	A2	
CL32	*A1	Q3	A2	C1	
		Q4	C1		
CN1	B1	Q5	C1		



LED-385 -A SIDE-
SUFFIX: -12

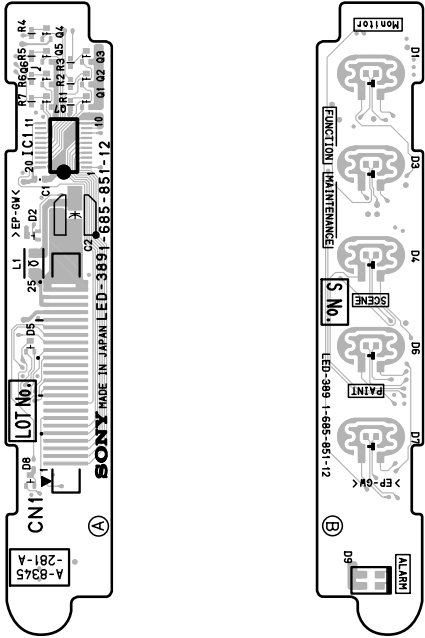


LED-385 -B SIDE-
SUFFIX: -12

LED-389 (1-685-851-12)

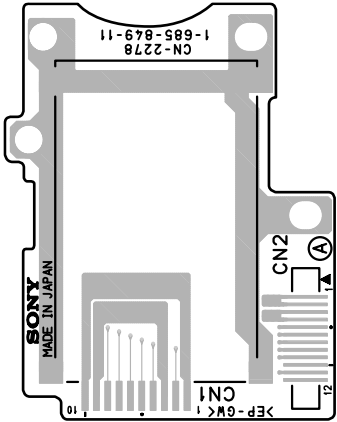
*:B SIDE

C1	A1	D8	A1
C2	A1	D9	*A1
CL1	*A1	IC1	A1
CL2	*A1		
CL3	*A1	L1	A1
CL4	*A1		
CL5	*A1	Q1	A1
CL6	*A1	Q2	A1
CL7	*A1	Q3	A1
CL8	*A1	Q4	A1
CL9	*A1	Q5	A1
CL10	*A1	Q6	A1
		Q7	A1
CN1	A1		
		R1	A1
D1	*A1	R2	A1
D2	A1	R3	A1
D3	*A1	R4	A1
D4	*A1	R5	A1
D5	A1	R6	A1
D6	*A1	R7	A1
D7	*A1		

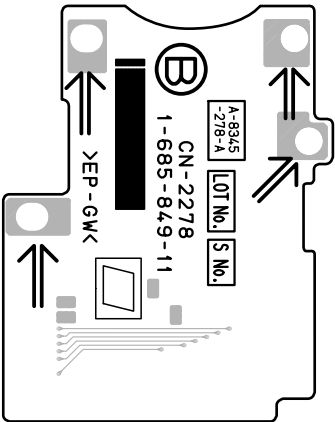


LED-389 -A SIDE-
SUFFIX: -12

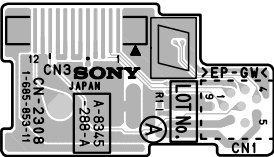
LED-389 -B SIDE-
SUFFIX: -12



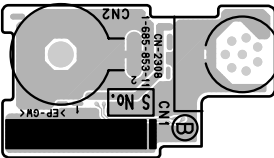
CN-2278 -A SIDE-
SUFFIX: -11



CN-2278 -B SIDE-
SUFFIX: -11



CN-2308 -A SIDE-
SUFFIX: -11

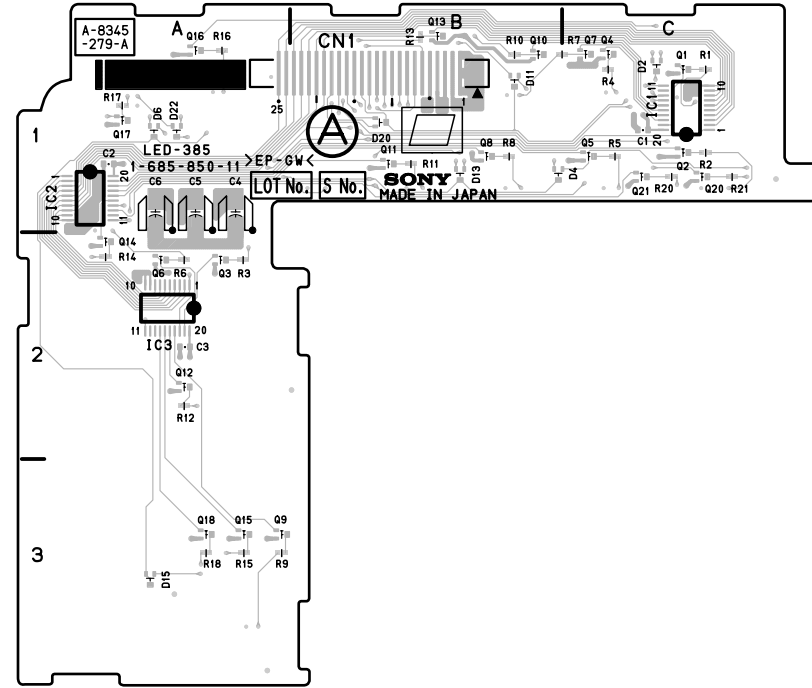


CN-2308 -B SIDE-
SUFFIX: -11

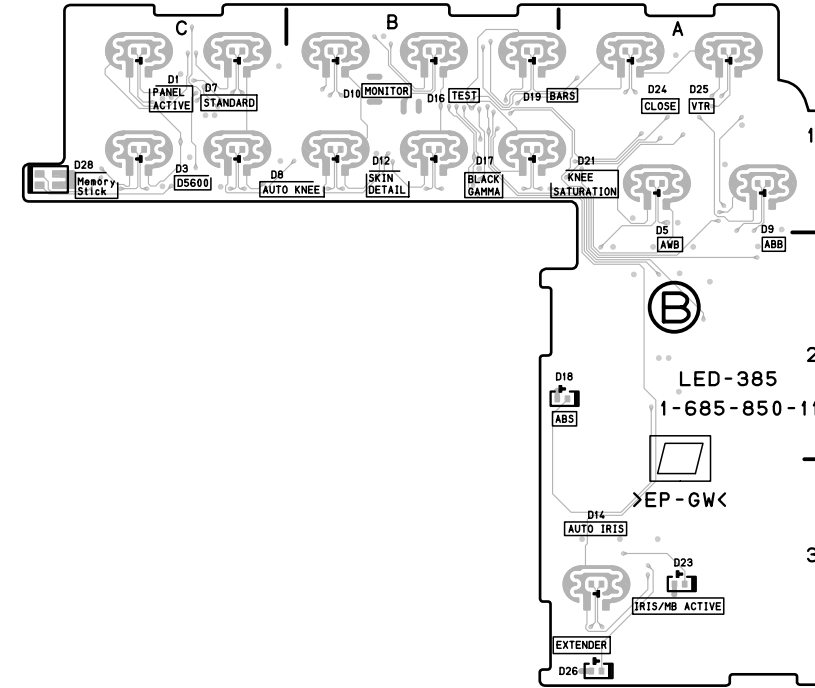
SUFFIX: -11

SUFFIX: -11

C1	C1	D1	*C1	Q8	B1
C2	A1	D2	C1	Q9	A3
C3	A2	D3	*C1	Q10	B1
C4	A1	D4	B1	Q11	B1
C5	A1	D5	*A1	Q12	A2
C6	A1	D6	A1	Q13	B1
		D7	*C1	Q14	A2
CL1	*C1	D8	*C1	Q15	A3
CL2	*C1	D9	*A1	Q16	A1
CL3	*A1	D10	*B1	Q17	A1
CL4	*C1	D11	B1	Q18	A3
CL5	*C1	D12	*B1	Q20	C1
CL6	*A1	D13	B1	Q21	C1
CL7	*C1	D14	*A3		
CL8	*C1	D15	A3	R1	C1
CL9	*A1	D16	*B1	R2	C1
CL10	*C1	D17	*B1	R3	A2
CL11	*C1	D18	*A2	R4	C1
CL12	*A1	D19	*B1	R5	C1
CL13	*B1	D20	B1	R6	A2
CL14	*B1	D21	*B1	R7	B1
CL15	*A3	D22	A1	R8	B1
CL16	*B1	D23	*A3	R9	A3
CL17	*B1	D24	*A1	R10	B1
CL18	*A3	D25	*A1	R11	B1
CL19	*B1	D26	*A3	R12	A2
CL20	*B1	D28	*C1	R13	B1
CL22	*B1			R14	A2
CL23	*B1	IC1	C1	R15	A3
CL25	*B1	IC2	A1	R16	A1
CL26	*B1	IC3	A2	R17	A1
CL27	*B1			R18	A3
CL28	*B1	Q1	C1	R20	C1
CL29	*A1	Q2	C1	R21	C1
CL30	*A1	Q3	A2		
CL31	*A1	Q4	C1		
CL32	*A1	Q5	C1		
		Q6	A2		
CN1	B1	Q7	C1		

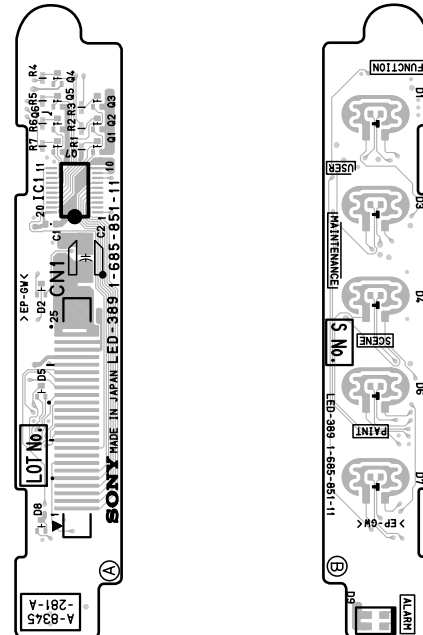


LED-385 -A SIDE-SUFFIX: -11



LED-385 -B SIDE-
SUFFIX: -11

C1	A1	D7	*A1
C2	A1	D8	A1
		D9	*A1
CL1	*A1		
CL2	*A1	IC1	A1
CL3	*A1		
CL4	*A1	Q1	A1
CL5	*A1	Q2	A1
CL6	*A1	Q3	A1
CL7	*A1	Q4	A1
CL8	*A1	Q5	A1
CL9	*A1	Q6	A1
CL10	*A1	Q7	A1
CN1	A1	R1	A1
		R2	A1
D1	*A1	R3	A1
D2	A1	R4	A1
D3	*A1	R5	A1
D4	*A1	R6	A1
D5	A1	R7	A1
D6	*A1		



LED-389 -A SIDE-SUFFIX: -11

LED-389 -B SIDE-
SUFFIX: -11

