

SONY®

MASTER SETUP UNIT

MSU-1000

MSU-1500



MAINTENANCE MANUAL

1st Edition

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.

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

: Ethernet コネクタ

上記のポートについては本書の指示に従ってください。

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

: Ethernet connector

Follow the instructions for the above port(s).

警告

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

WARNING

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

WARNUNG

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

注意

指定以外の電池に交換すると、破裂する危険があります。
必ず指定の電池に交換してください。
使用済みの電池は、国または地域の法令に従って
処理してください。

FÖRSIKTIGHET!

Fara för explosion vid felaktigt placerat batteri.
Byt endast mot samma eller likvärdig typ av batteri,
enligt tillverkarens rekommendationer.
När du kasserar batteriet ska du följa rådande lagar
för regionen eller landet.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type rec-
ommended by the manufacturer.
When you dispose of the battery, you must obey the
law in the relative area or country.

PAS PÅ

Fare for explosion, hvis batteriet ikke udskiftes
korrekt.
Udskift kun med et batteri af samme eller tilsvarende
type, som er anbefalet af fabrikanten.
Når du bortskaffer batteriet, skal du følge
lovgivningen i det pågældende område eller land.

VORSICHT

Explosionsgefahr bei Verwendung falscher Batterien.
Batterien nur durch den vom Hersteller empfohlenen
oder einen gleichwertigen Typ ersetzen.
Wenn Sie die Batterie entsorgen, müssen Sie die
Gesetze der jeweiligen Region und des jeweiligen
Landes befolgen.

HUOMIO

Räjähdysvaara, jos akku vaihdetaan virheellisesti.
Vaihda vain samanlaiseen tai vastaavantyyppiseen,
valmistajan suosittelemaan akkuun.
Noudata akun hävittämisessä oman maasi tai
alueesi lakeja.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incor-
rect de la batterie. Remplacer uniquement avec
une batterie du même type ou d'un type équivalent
recommandé par le constructeur.
Lorsque vous mettez la batterie au rebut, vous devez
respecter la législation en vigueur dans le pays ou la
région où vous vous trouvez.

FORSIKTIG

Ekspløsjonsfare hvis feil type batteri settes i.
Bytt ut kun med samme type eller tilsvarende
anbefalt av produsenten.
Kasser batteriet i henhold til gjeldende avfallsregler.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual for Master Setup Unit MSU-1000, MSU-1500.

This manual is intended for use by trained system engineers and service engineers, and describes information (service overview, parts lists, block diagrams, schematic diagrams and board layouts) on the premise of component level service.

Related 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.

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

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

Part number: 9-968-546-XX

Section 1

Service Overview

1-1. Installation

1-1-1. Installation Environment

CAUTION

When installing the unit into the console or drawer, incorporate a breaker for the emergency protection.

Install the unit in the following conditions.

Operating temperature: +5 °C to +40 °C

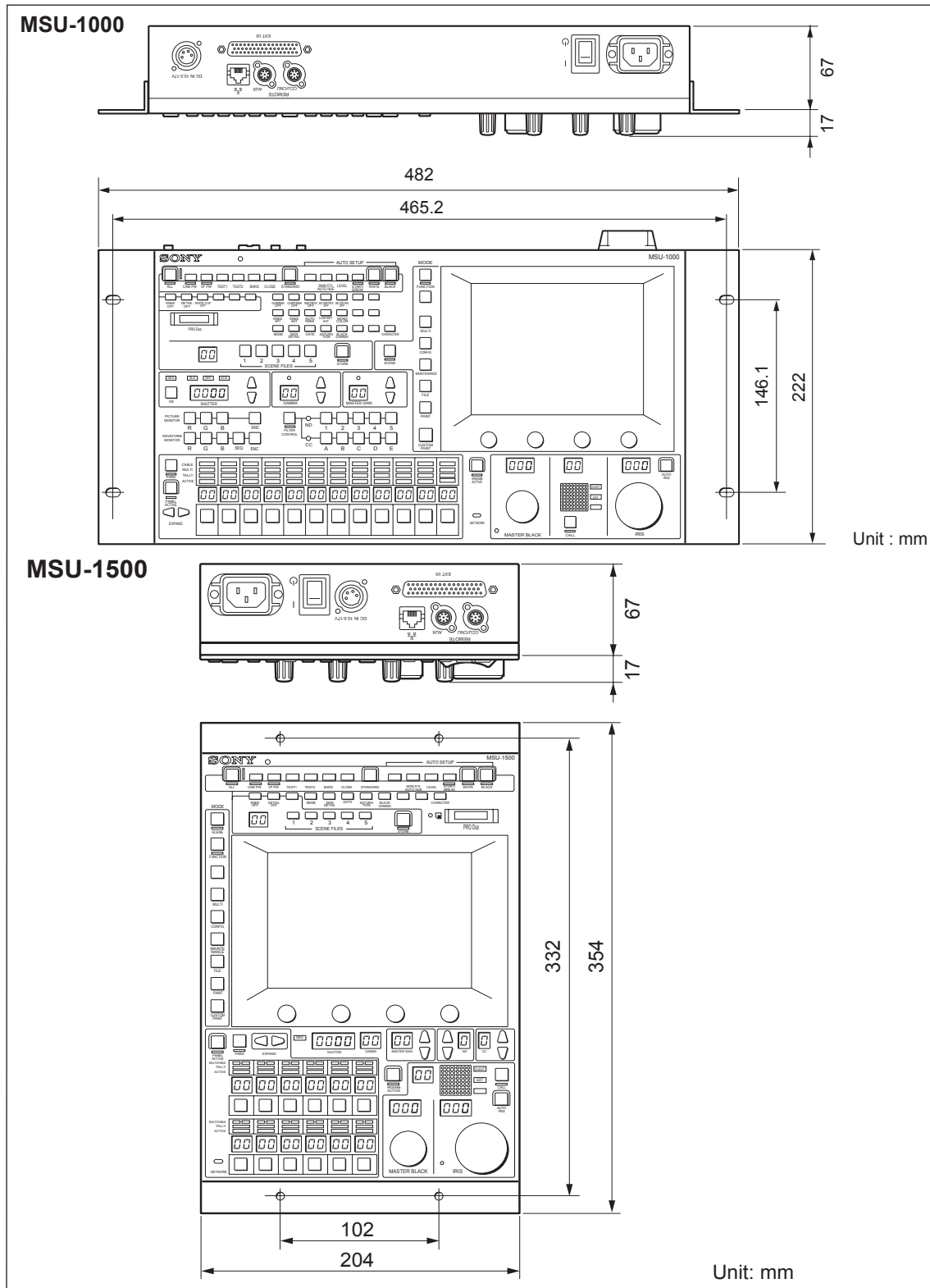
Humidity: No condense

1-1-2. Voltage and Power Requirements

Power voltage: AC 100 to 240 V

Power frequency: 50 Hz or 60 Hz

Power consumption: 0.35 A



1-1-3. Recommended Power Cord

WARNING

- Use the approved Power Cord (3-core mains lead)/Appliance Connector/Plug with earthing-contacts that conforms to the safety regulations of each country if applicable.
- Use the Power Cord (3-core mains lead)/Appliance Connector/Plug conforming to the proper ratings (Voltage, Ampere).

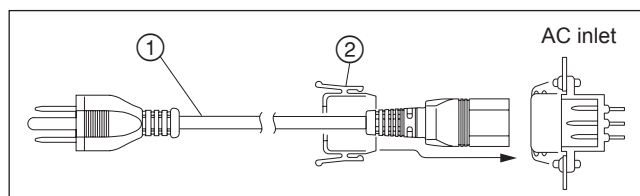
If you have questions on the use of the above Power Cord/Appliance Connector/Plug, please contact your local Sony Sales Office/Service Center.

WARNING

- Never use an injured power cord.

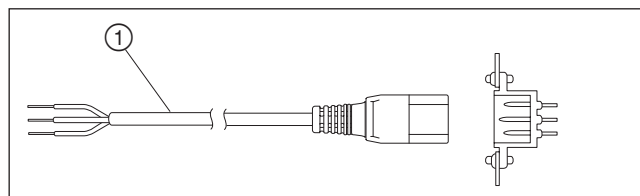
For customers in the U.S.A. and Canada:

- ① Power cord 125 V 10 A (2.4 m): Δ 1-551-812-31
- ② Plug holder (Brown): 3-613-640-01

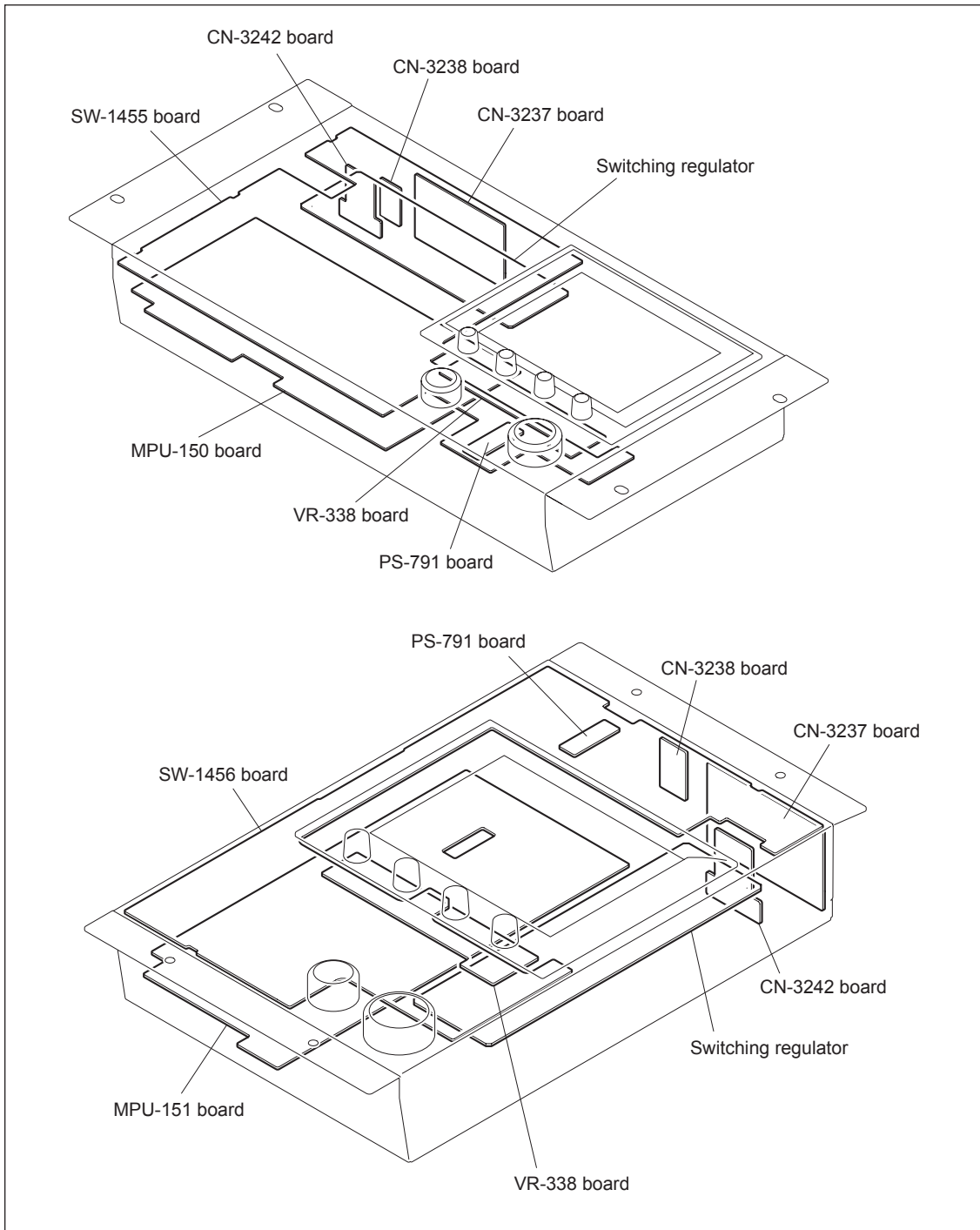


For customers in European countries except the United Kingdom:

- ① Power cord 250 V 10 A (2.5 m): Δ 1-782-929-12
- ② Plug holder (Brown): 3-613-640-01



1-2. Location of Printed Wiring Boards

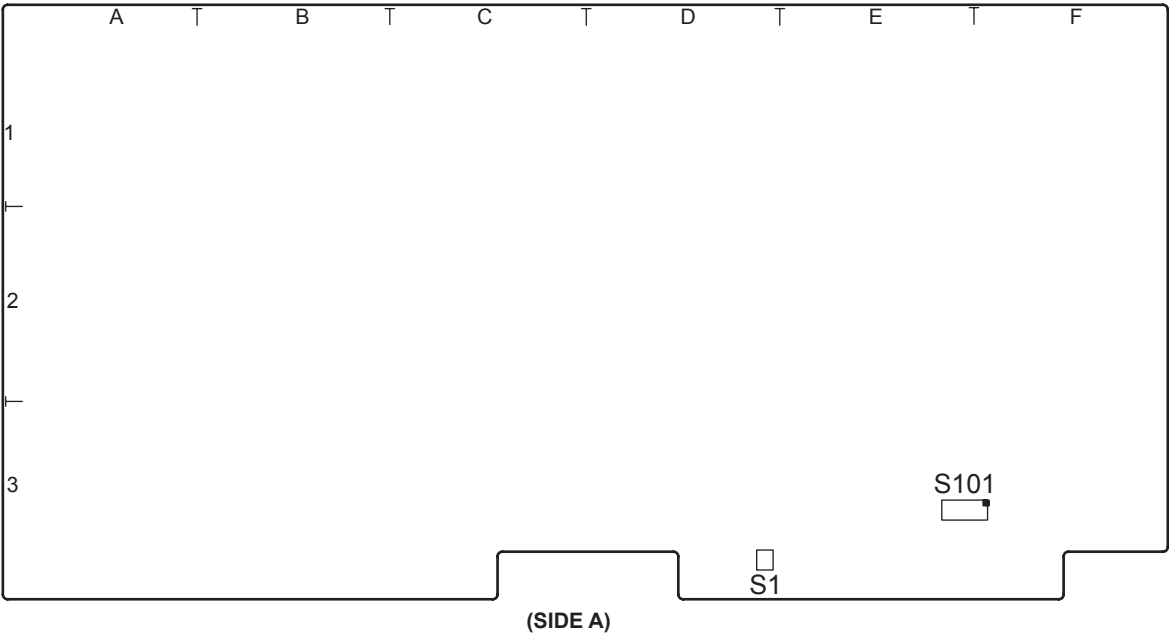


1-3. Settings of Internal Switches

Note

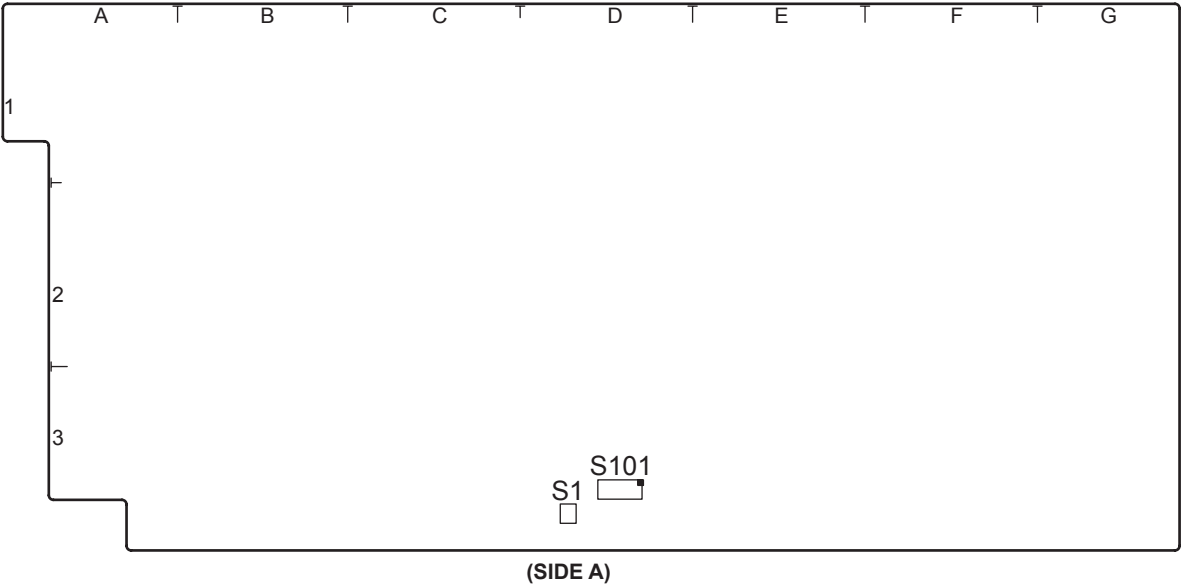
Never change the settings of “Factory use” switches.

MPU-150 Board (MSU-1000)



Ref. No.	Description	Factory setting
S1	Factory use	OFF
S101	Not used	OFF

MPU-151 Board (MSU-1500)

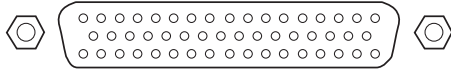


Ref. No.	Description	Factory setting
S1	Factory use	OFF
S101	Not used	OFF

1-4. Connectors and Cables

1-4-1. Input/Output Signals of Connectors

I/O PORT (50-pin, Female) (Used for future extension)



(External view)

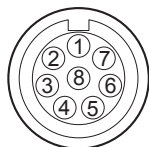
Pin No.	Signal name	Specification
1	EXT I/O-00	INPUT/OUTPUT PORT (*1)
2	EXT I/O-03	INPUT/OUTPUT PORT (*1)
3	EXT I/O-06	INPUT/OUTPUT PORT (*1)
4	EXT I/O-11	INPUT/OUTPUT PORT (*1)
5	EXT I/O-14	INPUT/OUTPUT PORT (*1)
6	EXT I/O-17	INPUT/OUTPUT PORT (*1)
7	EXT I/O-22	INPUT/OUTPUT PORT (*1)
8	EXT I/O-25	INPUT/OUTPUT PORT (*1)
9	EXT I/O-30	INPUT/OUTPUT PORT (*1)
10	EXT I/O-33	INPUT/OUTPUT PORT (*1)
11	EXT I/O-36	INPUT/OUTPUT PORT (*1)
12	EXT I/O-41	OUTPUT PORT (*1)
13	EXT I/O-44	INPUT PORT (*1)
14	EXT I/O-47	INPUT PORT (*1)
15	+12 V OUT	Utility power 12 V
16	+12 V OUT	Utility power 12 V
17	SPARE	No connection
18	EXT I/O-01	INPUT/OUTPUT PORT (*1)
19	EXT I/O-04	INPUT/OUTPUT PORT (*1)
20	EXT I/O-07	INPUT/OUTPUT PORT (*1)
21	EXT I/O-12	INPUT/OUTPUT PORT (*1)
22	EXT I/O-15	INPUT/OUTPUT PORT (*1)
23	EXT I/O-20	INPUT/OUTPUT PORT (*1)
24	EXT I/O-23	INPUT/OUTPUT PORT (*1)
25	EXT I/O-26	INPUT/OUTPUT PORT (*1)

Pin No.	Signal name	Specification
26	EXT I/O-31	INPUT/OUTPUT PORT (*1)
27	EXT I/O-34	INPUT/OUTPUT PORT (*1)
28	EXT I/O-37	INPUT/OUTPUT PORT (*1)
29	EXT I/O-42	OUTPUT PORT (*1)
30	EXT I/O-45	INPUT PORT (*1)
31	+5 V OUT	Utility power 5 V
32	GND (+5 V)	GND for utility power 5 V
33	GND (+12 V)	GND for utility power 12 V
34	EXT I/O-02	INPUT/OUTPUT PORT (*1)
35	EXT I/O-05	INPUT/OUTPUT PORT (*1)
36	EXT I/O-10	INPUT/OUTPUT PORT (*1)
37	EXT I/O-13	INPUT/OUTPUT PORT (*1)
38	EXT I/O-16	INPUT/OUTPUT PORT (*1)
39	EXT I/O-21	INPUT/OUTPUT PORT (*1)
40	EXT I/O-24	INPUT/OUTPUT PORT (*1)
41	EXT I/O-27	INPUT/OUTPUT PORT (*1)
42	EXT I/O-32	INPUT/OUTPUT PORT (*1)
43	EXT I/O-35	INPUT/OUTPUT PORT (*1)
44	EXT I/O-40	OUTPUT PORT (*1)
45	EXT I/O-43	OUTPUT PORT (*1)
46	EXT I/O-46	INPUT PORT (*1)
47	+5 V OUT	Utility power 5 V
48	GND (+5 V)	GND for utility power 5 V
49	GND (+12 V)	GND for utility power 12 V
50	SPARE	No connection

(*1): INPUT ON: 5 V
 OFF: 0 V
 OUTPUT TTL LEVEL
 Darlington transistor drive
 One port: max 5 mA
 (V_{EXT}: 1.5 V, R_{EXT}: 1.1 kΩ)
 All ports total: max 60 mA

REMOTE (8-pin, Female)

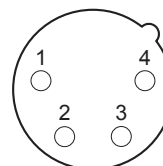
- AUX (Used for future extension.)
- CCU/CNU



(External view)

Pin No.	Signal name	Specification
1	TX (+)	MSU Serial data
2	TX (-)	MSU Serial data
3	RX (+)	CCU/CNU/AUX Serial data
4	RX (-)	CCU/CNU/AUX Serial data
5	TX GND	GND for TX
6	POWER (+)	No Connection
7	POWER (-)	No Connection
8	SPARE	—
	CHASSIS GND	Chassis GND

DC IN (4-pin Male)

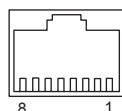


(External view)

Pin No.	Signal name	Specification
1	EXT_DC (C)	GND for DC (+)
2	NC	No Connection
3	NC	No Connection
4	EXT_DC (H)	+10.5 to 17 Vdc

Ethernet (8-pin) (Used for future extension.)

- RJ-45 modular jack (8-pin)
- 100BASE-TX
- IEEE802.3 μ



(External view)

Pin No.	Signal name	I/O	Specification
1	TX (+)	O	Transmitted data (+)
2	TX (-)	O	Transmitted data (-)
3	RX (+)	I	Received data (+)
4	—	—	No Connection
5	—	—	No Connection
6	RX (-)	I	Received data (-)
7	—	—	No Connection
8	—	—	No Connection

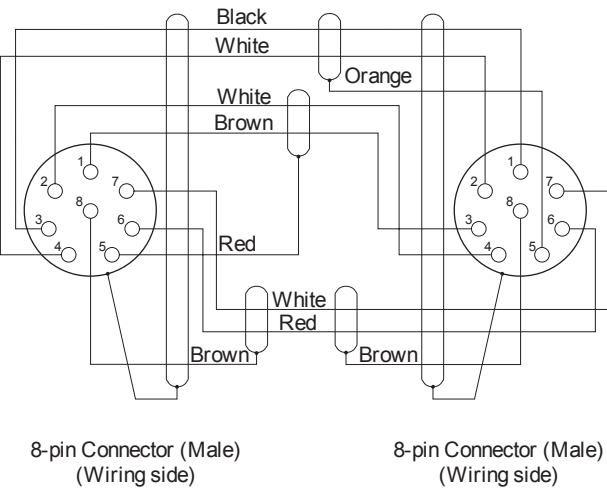
1-4-2. Connection Connector/Cable

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

Connector Name	Connector/Cable
REMOTE AUX (8-pin)	Plug, 8-pin, Male (Sony part number: 1-766-848-11) or
REMOTE CCU/CNU (8-pin)	Cable assembly CCA-5-3 (3 m), CCA-5-10 (10 m)
I/O PORT (50-pin)	PPlug, D-SUB 50-pin, Male (Sony part number: 1-566-358-11) or JAE DDU-50PF-F0 or equivalent
Ethernet (8-pin)	RJ-45 modular jack (8-pin) 100BASE-TX IEEE802.3u
DC IN (4-pin)	XLR, 4-pin Female (Sony part number: 1-508-362-00) or ITT Cannon XLR-4-11C or equivalent DC cable CCDD-X2 (2 m)

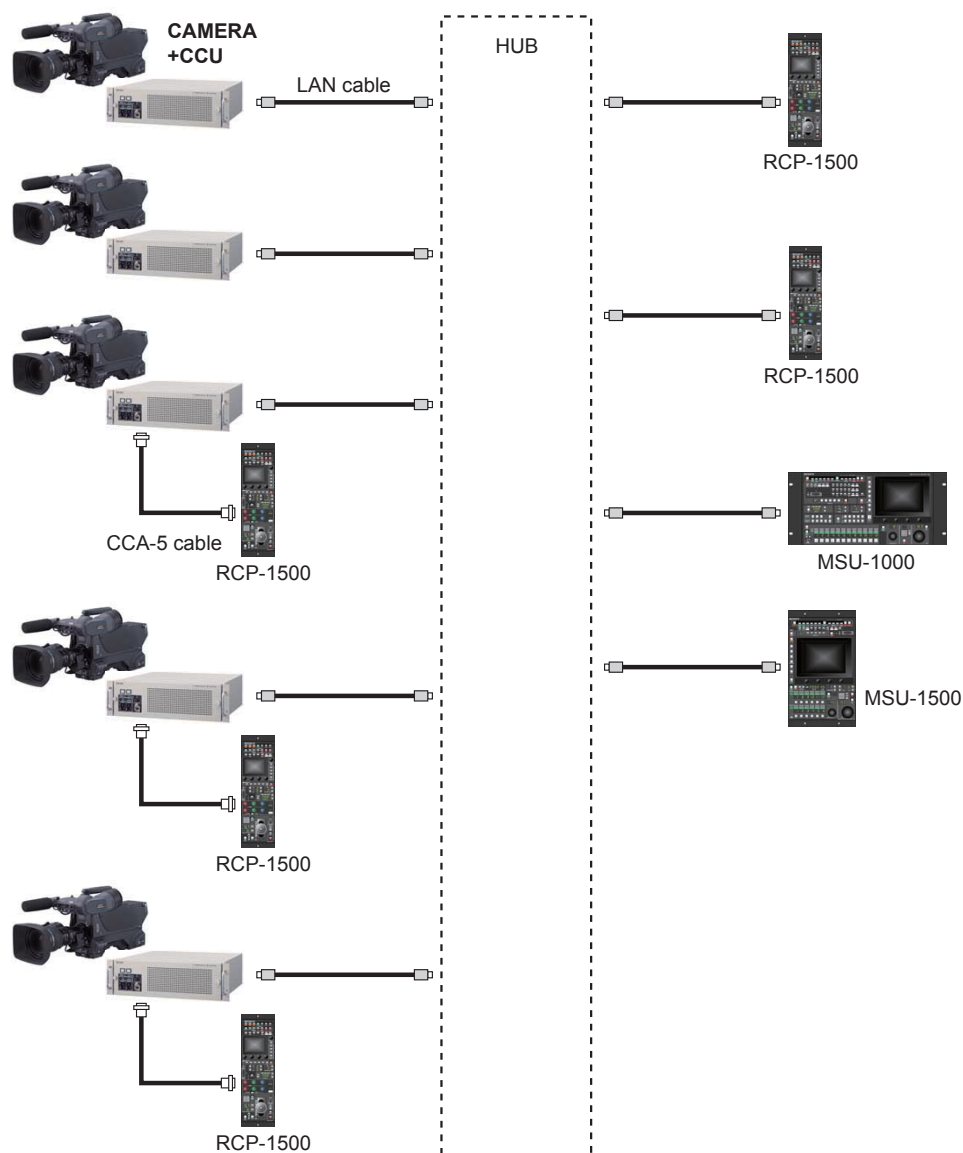
1-4-3. Cable Connection

CCA-5 cable



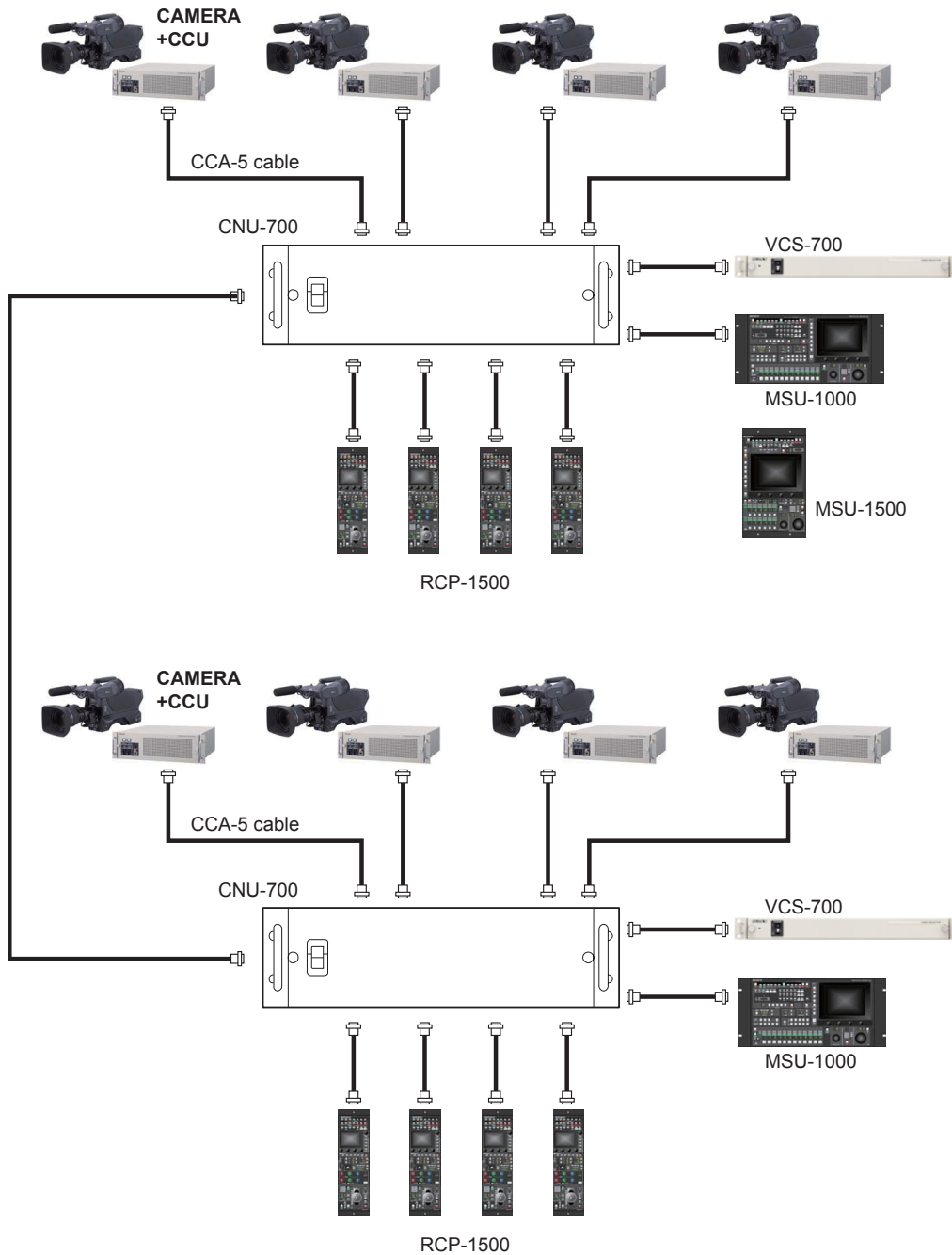
1-5. System Connection

1-5-1. Camera System Using LAN



- This is a connection example in the MCS mode. In this case, one MSU to be a master is required. Do not turn off the power of the master MSU during operation.
- Up to 96 units (excluding the master MSU) can be connected directly to the network. The RCP connected to the CCU (connected to the network) with a CCA cable and the CCU connected to the RCP (connected to the network) with a CCA cable do not affect the maximum number of units. The client MSU is counted as one unit.
- Neither CNU nor VCS can be connected to the system.
- Up to 96 units (excluding this master) can be connected to the network by using the MSU-1000/1500 for the master.

1-5-2. Camera System Using Camera Network Units (CNU)



- The maximum distance between CCU and RCP is 200 m.
- The CNU-700 can configure a system of up to six units as a standard system. Only one MSU and VCS can be connected.
- The CNU-700 can configure a system of up to 12 units by installing BKP-7930 in the CNU-700. Up to two MSUs and VCSs can be connected.
- A system of up to 24 units can be configured by connecting two CNU-700 units mutually. Up to four MSUs and VCSs can be connected. However, ALL, RCP assignment, and master/subordinate cannot be executed for a camera system connected to different CNUs.

1-6. Service Mode

1-6-1. Service Mode Setting

1. Press the [CONFIG] button of the unit to display the Configuration menu.

Configuration					Exit
Camera	CCU	MSU	CNU	Multi Format	
RCP Assignment					

2. Press [MSU] on the screen to display the MSU Configuration menu.

MSU Config					Exit
Customize	Display /Sound	Mode	Date/Time	Information	
Security					

3. Press [Security] to display the Security menu.

Security	Exit
Engineer Mode	

4. Press the blank area under [Engineer Mode] (enclosed by dotted line) for five seconds to display the Code No. input screen.

Security	Exit
Service Mode Code No: 789 456 123 0 OKCancel Engineer Mode	

5. Enter Code No. < 05127900 > and press [OK] to enter the service mode.

Security	Service Mode	Exit
Page Permission Item Permission Engineer Protect MSU ALL Preset Engineer Mode Service Mode		

1-6-2. Firmware Update

Notes

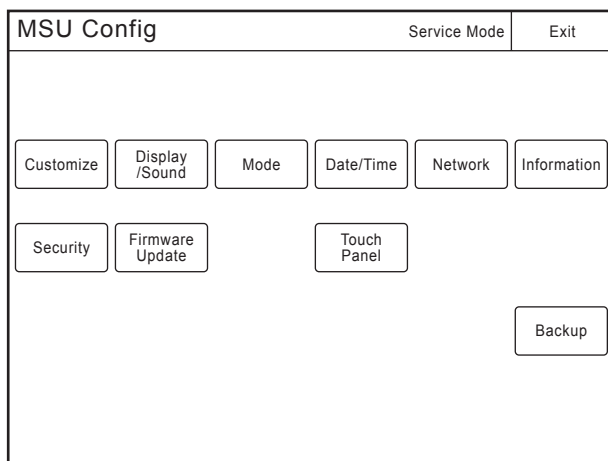
- For how to obtain the ROM data file, contact your local Sony Sales Office/Service Center.
- Do not turn off the power during firmware update. Doing so will disable the unit to restart.

Updating the Main Program

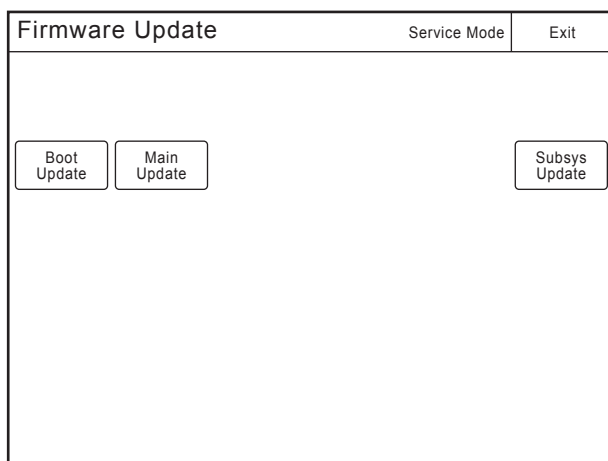
Equipment to Be Used

- ROM file (for MAIN) : MSU1X00.ROM
- Memory Stick Duo

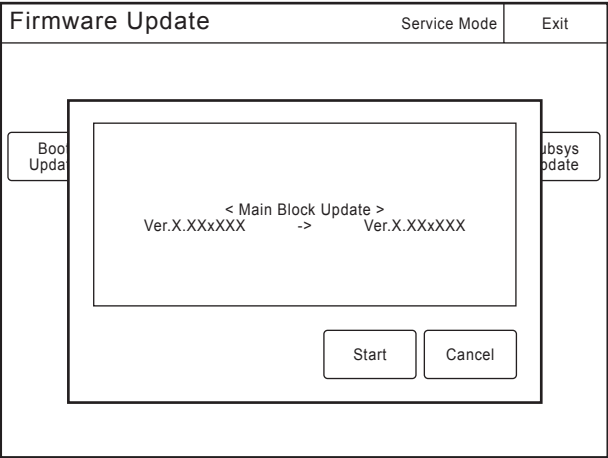
1. Create the following directory in the Memory Stick.
 \MSSONY\PRO\CAMERA\MSU1X00
2. Copy the ROM data file to the above folder of the Memory Stick.
3. Insert the Memory Stick into the Memory Stick slot of the unit.
4. Display the MSU Config menu in the service mode. (Refer to Section 1-6-1.)



5. Press [Firmware Update] to display the Firmware Update menu.



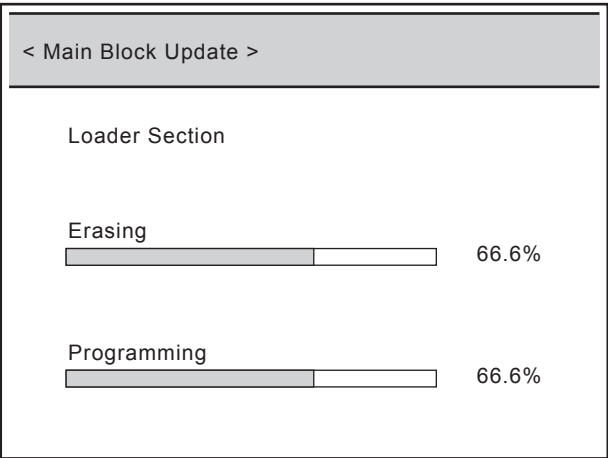
6. [Press [Main Update] to display the confirmation screen.



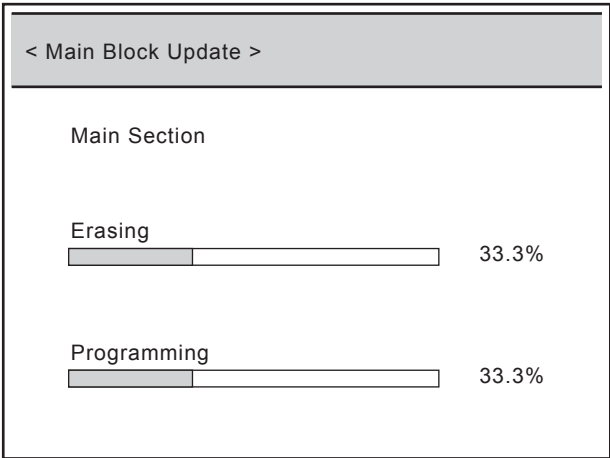
7. Press [Start] to perform update of the main program.

Note

The Loader Section and then the Main Section of the main program are updated. The Loader Section is updated first. The screen is cleared when the progress bar reaches 100%, and then the Main Section is updated using the Loader Section loaded in advance.

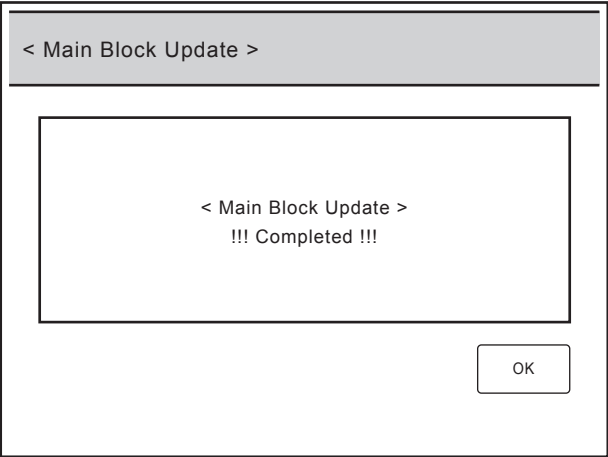


Updating screen of Loader Section



Updating screen of Main Section

8. Confirm on the screen below that the update has been successfully completed



9. Press [OK] to restart the unit.

Version Check After Completion of Update

Perform the following procedure to check the program version after the update is completed.

1. Let the MSU Config menu appear.

MSU Config	Exit
Customize Display /Sound Mode Date/Time Information Security	

2. Press [Information] to display the Information menu.

Information	Exit
Version Network Info.	

3. Press [Version] to display the Version Info. screen.

Version Info.	Exit
Model Name: MSU-1000/1500 Serial No.: XXXXXX MAIN: Ver.X.XxxXXX BOOT: Ver.X.XxxXXX LOADER: Ver.X.XxxXXX SUBSYS: Ver.X.XX	

Notes

- If entire information is not displayed in the screen, turn the left-end rotary encoder under the LCD to scroll the display.
- The PLD Version screen is displayed in the service mode.

Forced Update of the Main Program

Forced update is an emergency means of update. In case this unit malfunctions due to power-off during update of the main program or other reasons, the main program can be reset by forced update.

1. Insert the Memory Stick that contains the copied ROM data file into the Memory Stick slot of the unit.
2. Turn on the power while pressing the [PARA] button, [PANEL ACTIVE] button, and the SCENE FILE [STORE] button simultaneously.

Notes

- Keep pressing these three buttons until the update display appears on the LCD screen. The update starts automatically.
 - The Main Section and then the Loader Section are updated in the forced update operation. When the Loader Section data in the Memory Stick is the same as the ROM data, Loader Section update is skipped.
3. Confirm that the dialog box indicating completion of the forced update appears.
 4. Press [OK] on the screen to restart the unit.

Updating the Boot Program

Notes

- For how to obtain the ROM data file, contact your local Sony Sales Office/Service Center.
- Do not turn off the power during firmware update. Doing so will disable the unit to restart.

Equipment to Be Used

- ROM file (for BOOT) : MSU1X00.ROM
- Memory Stick Duo

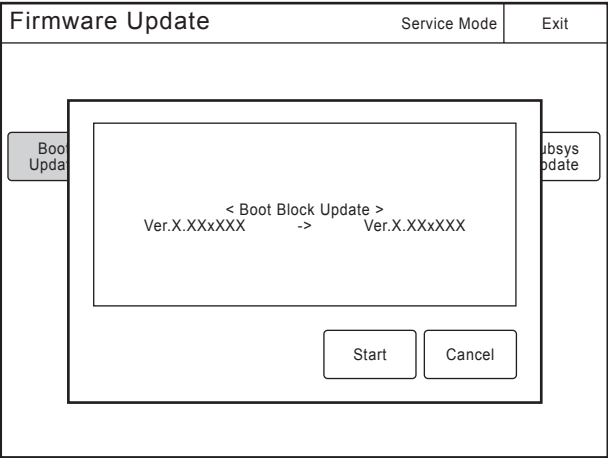
1. Create the following directory in the Memory Stick.
 \MSSONY\PRO\CAMERA\MSU1X00
2. Copy the ROM data file to the above folder in the Memory Stick..
3. Insert the Memory Stick into the Memory Stick slot of the unit.
4. Display the MSU Config menu in the service mode. (Refer to Section 1-6-1.)

MSU Config					Service Mode	Exit
Customize	Display /Sound	Mode	Date/Time	Network	Information	
Security	Firmware Update		Touch Panel			
						Backup

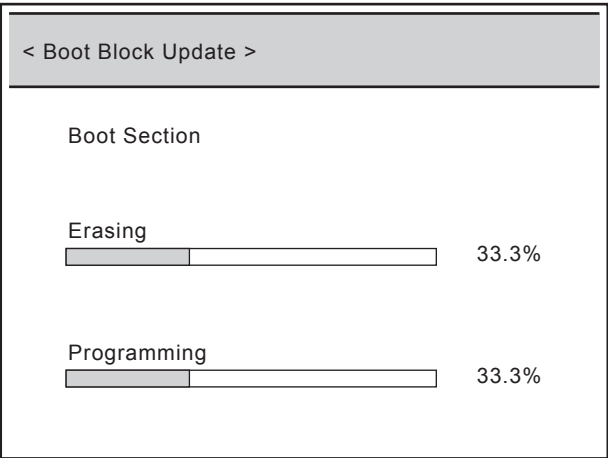
5. Press [Firmware Update] to display the Firmware Update menu.

Firmware Update		Service Mode	Exit
Boot Update	Main Update		Subsys Update

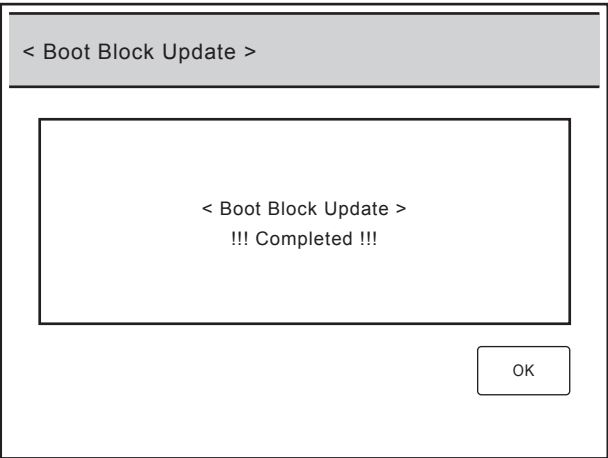
6. Press [Boot Update] to display the confirmation screen.



7. Press [Start] to update the boot program.



8. Confirm on the screen below that the update has been successfully completed.



9. Press [OK] to restart the unit.

Writing/Rewriting Internal Data for the Subsystem (SUB-CPU, PLD)

A SUB-CPU, PLD (Programmable Logic Device) is mounted in this unit, and it can be written and rewritten by update using a Memory Stick in the same way as the main CPU. Perform the following procedure.

Notes

- For how to obtain the ROM data file, contact your local Sony Sales Office/Service Center.
- Do not turn off the power during firmware update. Doing so will disable the unit to restart.

Equipment to Be Used

- ROM data file (for SUBSYS (SUB-CPU, PLD)) : MSU1X00_SUB.ROM
- Memory Stick Duo

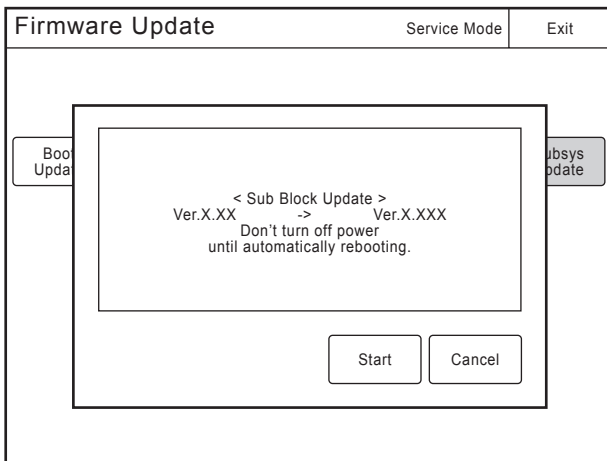
1. Create the following directory in the Memory Stick.
 \MSSONY\PRO\CAMERA\MSU1X00
2. Copy the ROM data file to the above folder in the Memory Stick.
3. Insert the Memory Stick into the Memory Stick slot of the unit.
4. Display the MSU Config menu in the service mode. (Refer to Section 1-6-1.)

MSU Config						Service Mode	Exit
Customize	Display /Sound	Mode	Date/Time	Network	Information		
Security	Firmware Update		Touch Panel				
							Backup

5. Press [Firmware Update] to display the Firmware Update menu.

Firmware Update			Service Mode	Exit
Boot Update	Main Update			
				Subsys Update

6. Press [Subsys Update] to display the confirmation screen.



7. Press [Start] to update the internal data.

Note

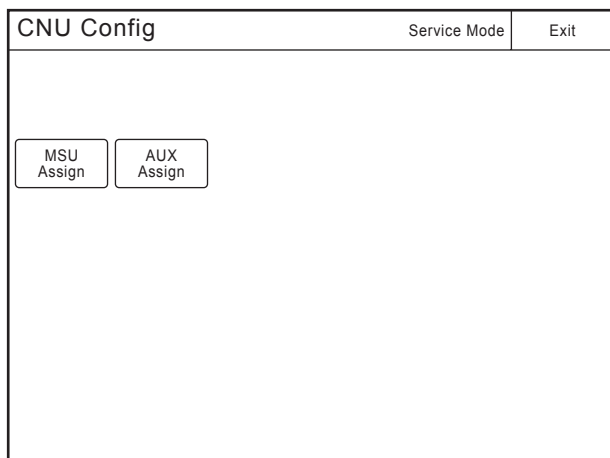
The illuminated switches, LEDs, and the LCD are turned off during Subsys Update, and the Memory Stick indicator displays the update progress. The indicator blinks green and red during update, and goes out upon completion of the update. After the internal data has been updated, this unit restarts automatically. Do not turn off the power until the unit has restarted.

1-6-3. CNU AUX Assignment Setting

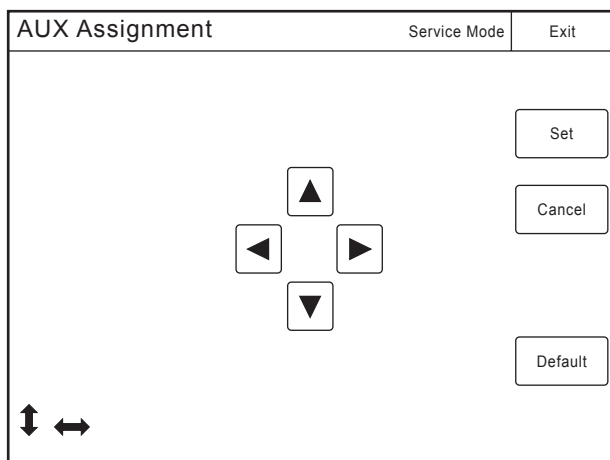
In this section, settings can be made for a camera number whose PIX/WF is switched by the VCS and an MSU type that provides VCS control, as well as for the use of AUX ports (for CNU, VCS, MSU, or other panels). Use this setting to customize the system according to the system condition when introducing the system.

Note that setting is not easy and careless setting may result in a system malfunction.

1. Display the Configuration menu in the service mode. (Refer to Section 1-6-1.)
2. Press [CNU] to display the CNU Configuration menu.



3. Press [AUX Assign] to display the AUX Assignment menu



4. Move the cursor in the CNU Character screen using the four arrow buttons in the AUX Assignment menu and the two left rotary encoders under the LCD and press the [Set] button at the item to be set to determine the setting item and to go to the next screen.
Repeat this operation to make the intended setting.

CNU Character

AUXport assignment			
VCS1	func. VCS	CAM no. 1-6	CTL by MSU1
AUX1	func. CNU		
AUX2	func. CNU	CAM no.	CTL by
vcs2	func. VCS	CAM no.	CTL by MSU1
aux3	func. VCS	CAM no. 1-6	CTL by MSU2
aux4	func. VCS	CAM no. 7-12	CTL by MSU2
vcs3	func. VCS	CAM no.	CTL by MSU1
aux5	func. VCS	CAM no. 13-18	CTL by MSU2
aux6	func. VCS	CAM no. 1-6	CTL by MSU123

CNU Character top screen

Notes

- Set the cursor at the port to be set (VCS1, AUX1, AUX2, VCS2, AUX3, AUX4, VCS3, AUX5, or AUX6) and press [Set]. The port setting screen opens.
- When the board is mounted and settable, each port name is displayed in uppercase characters.

Status display on the top screen

Item	Description	Setting value	
func.	Function name to be allocated to the port, indicating connection destination (VCS, CNU, etc.)	VCS, CNU etc.	
CAM no.	Camera number that can be switched by VCS connected to the port. (This is enabled only when func. is set to VCS)	1-6, 7-12, 13-18, etc.	
CTL by	MSU type that controls units connected to the port. (This is enabled only when function is VCS.)	All MSU	Controlled by all MSUs. (standard setting)
		MSU1	Controlled by MSU of connector MSU on the IF board of CNU-700.
		MSU2	Controlled by MSU of connector MSU on the IF board of BKP-7930.
		MSU3	Reserved
		MSU1/2/3	Controlled by MSU1, MSU2, and MSU3.

VCS1 port setting

AUXport assignment

VCS1

AUX1

AUX2

vcs2

aux3

aux4

vcs3

aux5

aux6

Function

VCS

Camera Number

1-6

Control by

MSU1

Return

VCS1 port setting screen

VCS1 port setup items

Item	Description	Setting value
Function	Only VCS can be connected.	VCS (fixed)
Camera Number	The camera switched by VCS is determined by the CNU group number on the IF board of CNU-700 and cannot be changed.	1-6, 7-12, 13-18, etc. (fixed by board setting)
Control by	This is enabled only when function is VCS. Set an MSU type that controls VCS.	All MSU, MSU1, MSU2, MSU3, MSU1/2/3

AUX1 port setting

AUXport assignment

VCS1

AUX1

AUX2

vcs2

aux3

aux4

vcs3

aux5

aux6

Function

CNU

Camera Number

Control by

Return

AUX1 port setting screen

Note

The AUX1 port cannot be changed because it is provided for cascading CNUs.

AUX2 port setting

AUXport assignment

VCS1	Function	Camera Number	Control by
AUX1	CNU		
AUX2			
vcs2			
aux3			
aux4			
vcs3			
aux5			
aux6			
			Return

AUX2 port setting screen

AUX2 port setup items

Item	Description	Setting value
Function	Three types of functions are selectable according to the unit to be connected.	CNU No function PANEL No function VCS Set when VCS is connected.
Camera Number	This is enabled only when function is VCS. Camera switched by VCS is freely selectable.	1-6, 7-12, 13-18, etc.
Control by	This is enabled only when function is VCS. Set an MSU type that controls VCS.	MSU1, MSU2, MSU3, MSU1/2/3

VCS2/3 port setting

AUXport assignment

VCS1	Function	Camera Number	Control by
AUX1	VCS		
AUX2			MSU1
VCS2			
aux3			
aux4			
vcs3			
aux5			
aux6			
			Return

VCS2 port setting screen

AUXport assignment

VCS1	Function	Camera Number	Control by
AUX1	VCS		
AUX2			MSU1
vcs2			
aux3			
aux4			
VCS3			
aux5			
aux6			
			Return

VCS2 port setting screen

VCS2/3 ports setup items

Item	Description	Setting value
Function	Only VCS can be connected.	VCS (fixed)
Camera Number	The camera switched by VCS is determined by the CNU group number on the IF board of CNU-700 and cannot be changed.	1-6, 7-12, 13-18, etc. (fixed by board setting)
Control by	This is enabled only when function is VCS. Set an MSU type that controls VCS.	All MSU, MSU1, MSU2, MSU3, MSU1/2/3

AUX3/4/5/6 port setting

AUXport assignment

	Function	Camera Number	Control by
VCS1			
AUX1	VCS	1-6	
AUX2			
vcs2			MSU2
AUX3			
aux4			
vcs3			
aux5			
aux6			Return

AUX3 port setting screen

AUXport assignment

	Function	Camera Number	Control by
VCS1			
AUX1	VCS		
AUX2		7-12	
vcs2			MSU2
aux3			
AUX4			
vcs3			
aux5			
aux6			Return

AUX4 port setting screen

AUXport assignment

	Function	Camera Number	Control by
VCS1			
AUX1	VCS		
AUX2			
vcs2		13-18	MSU2
aux3			
aux4			
vcs3			
AUX5			
aux6			Return

AUX5 port setting screen

AUXport assignment

	Function	Camera Number	Control by
VCS1			
AUX1	VCS	1-6	
AUX2			
vcs2			
aux3			MSU123
aux4			
vcs3			
aux5			
AUX6			Return

AUX6 port setting screen

AUX3/4/5/6 ports setup items

Item	Description	Setting value
Function	Only VCS can be connected.	VCS (fixed)
Camera Number	Camera switched by VCS is freely selectable.	1-6, 7-12, 13-18, etc.
Control by	This is enabled only when function is VCS. Set an MSU type that controls VCS.	MSU1, MSU2, MSU3, MSU1/2/3

1-6-4. MSU PIX/WF CH Select setting

This switch is used to set the PIX/WF channels. This configuration switch is enabled and displayed in the service mode.

To set the PIX/WF channels that can be controlled by the MSU, enter the service mode and use the configuration switch in the following menu.

- CONFIG (Configuration Menu) → MSU (MSU Config) → Mode → PIX/WF
- * Two CCU output channels are provided with the standard setting. The RCP controls channel 1 and the MSU controls channel 2.

1-6-5. Triax Output R, G, B On/Off Switch

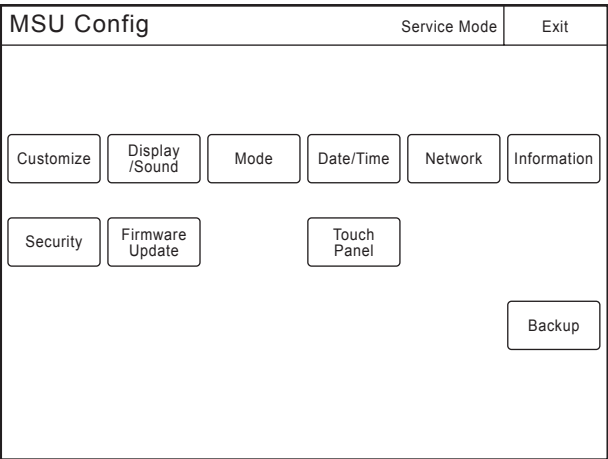
This switch is used to turn on and off Triax output signals R, G, and B independently. Use the switch in the following menu for setting.

- MAINTENANCE (Maintenance Menu) → Adjusting (Adjusting menu) → Camera Output (Camera Output Level) → Level, Black (Camera Output Level, Black)

1-6-6. PANEL ACTIVE Toggle Mode Setting

When a CNU system or a camera network system is constructed with the MCS (Multi Camera System) mode, if display is turned off with the [PANEL ACTIVE] button, PANEL ACTIVE does not exist normally in any PANEL. Setting the mode to the PANEL ACTIVE toggle mode allows returning of PANEL ACTIVE to the panel that was ACTIVE when PANEL ACTIVE was acquired.

1. Display the MSU Config menu in the service mode. (Refer to Section 1-6-1.)



2. Press [Mode] to display the MSU Mode menu.

MSU Mode		Service Mode	Exit
Screen Saver PIX/WF Matrix Gate Extend CALL Panel Active Camera Select			

3. Press [Panel Active] to display the Panel Active menu.

Panel Active		Service Mode	Exit
Toggle Control Mode Panel /Iris			

4. Press [Panel/Iris] to set Toggle Control Mode to ON.

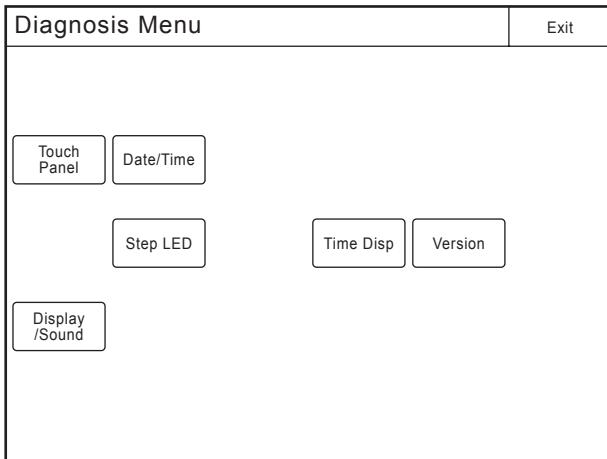
Notes

- To return PANEL ACTIVE, set Toggle Control Mode of all PANEL to be retuned to ON.
- To restore the normal operation, set Toggle Control Mode to OFF.

1-7. Self-Diagnosis

Entering the Self-Diagnosis Mode

1. Press the [PANEL ACTIVE] button, [PARA] button, SCENE FILES [1] button of the unit simultaneously to display the Diagnosis Menu (self-diagnosis menu).



Exiting the Self-Diagnosis Mode

1. Press the [PANEL ACTIVE] button, [PARA] button, SCENE FILES [1] button of the unit simultaneously or press [Exit] on the screen to exit the Diagnosis Menu.

1-7-1. Touch Panel

The LCD touch panel operation of this unit can be confirmed using a self-diagnosis function.

Note

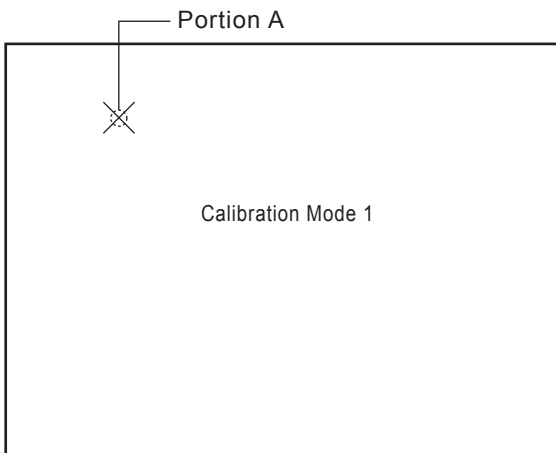
If the correct mode is not enabled or the correct screen does not appear even when the setting button or an adjustment item button is pressed on the LCD touch panel, make the calibration adjustment.

Required Equipment

Stylus pen (commercial-available products) or tip-thinned stick not damaging the touch panel

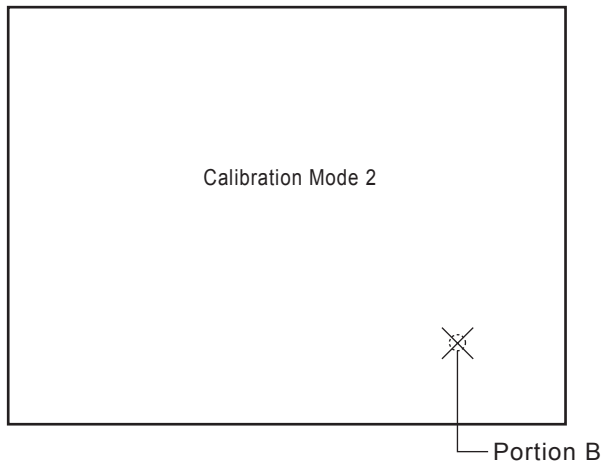
Procedure

1. Appear the Diagnosis Menu (self-diagnosis menu).
2. Press [Touch Panel] to display Calibration Mode 1 screen.



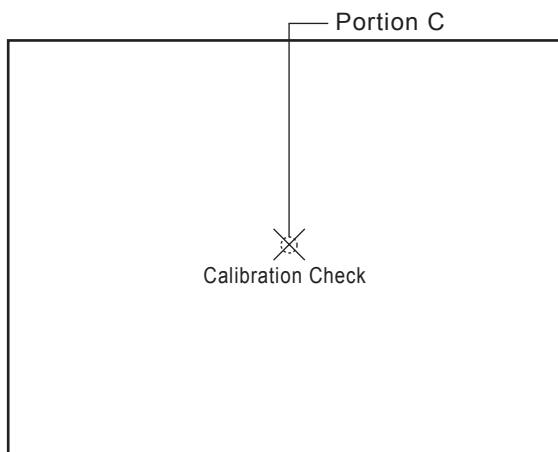
3. Push the center (portion A) of mark X in the upper-left position of the Calibration Mode 1 screen using a stylus pen.

The Calibration Mode 2 screen is displayed.



4. Push the center (portion B) of mark X in the lower-right position of the Calibration Mode 2 screen using a stylus pen.

The Calibration Check screen is displayed.



5. Push the center (portion C) of mark X in the center of the Calibration Check screen using a stylus pen.

A “Calibration Complete” message is displayed if the operation is terminated normally.

Note

For NG, the display is returned to the Calibration Mode 1 menu after a “Retry” message is displayed. Repeat steps 2 to 5 again.

1-7-2. Device

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

Note

If the correct mode is not enabled or the correct screen does not appear even when the setting button or an adjustment item button is pressed, be sure to check the operation.

1. Appear the Diagnosis Menu (self-diagnosis menu).
2. Check the each device operation.

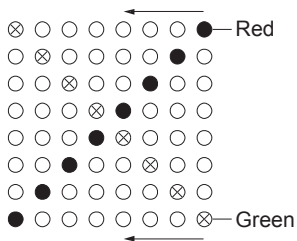
Operation Check

Illuminated Switch

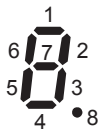
When each illuminated switch is pressed, the switch lights.

Indicator

1. Camera number/Tally display block make sure that a red and green cross indication moves from right to left.



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



Rotary Encoders and Adjustment Potentiometers

When each rotary encoder is turned, the number of each rotary encoder is displayed in the IRIS adjustment area, and the control value of each rotary encoder is displayed in the MASTER BLACK adjustment area.

1-8. Replacing the Main Parts

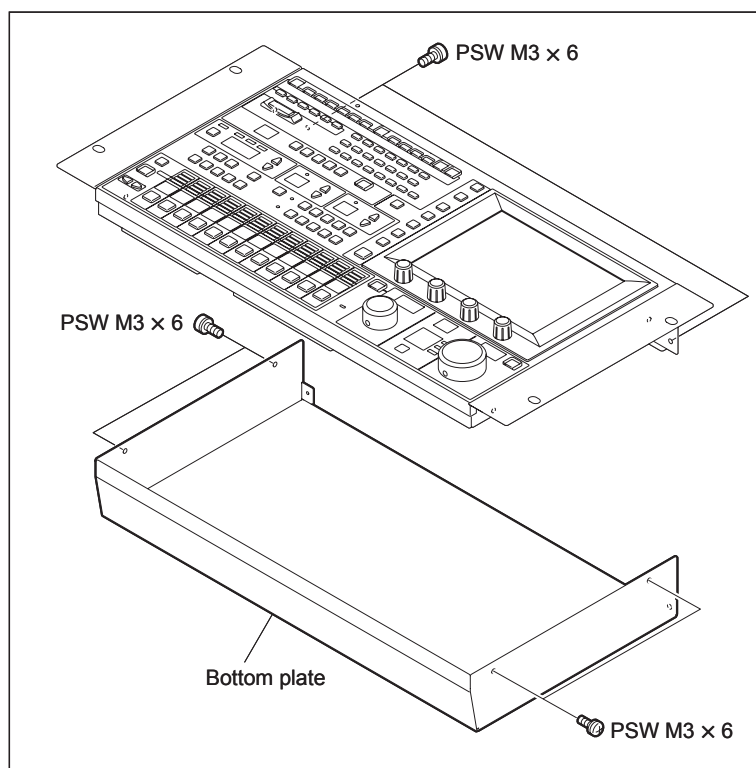
WARNING

Be sure to disconnect the power plug before starting replacement work.

1-8-1. Removing/Installing the Bottom Plate (MSU-1000)

Removal

1. Remove the six screws (PSW M3 × 6) to detach the bottom plate.



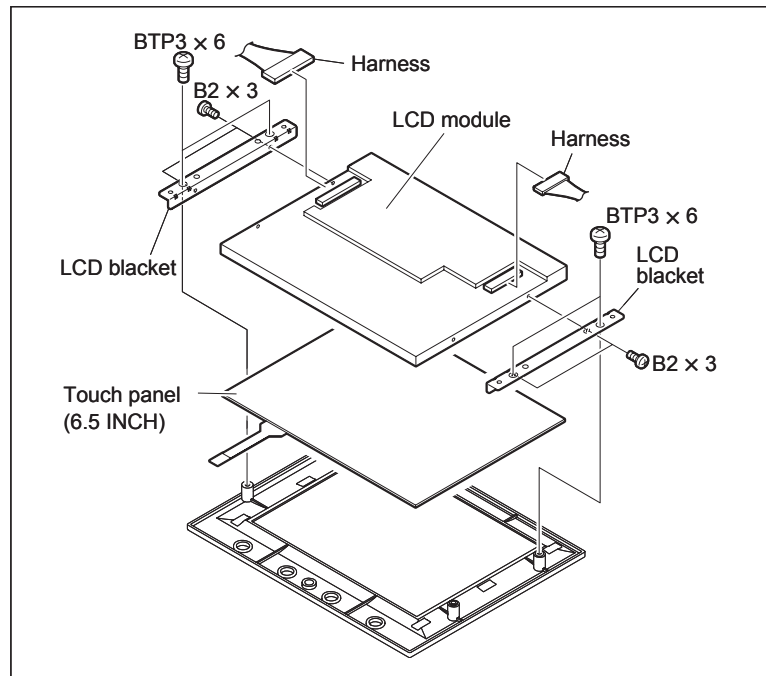
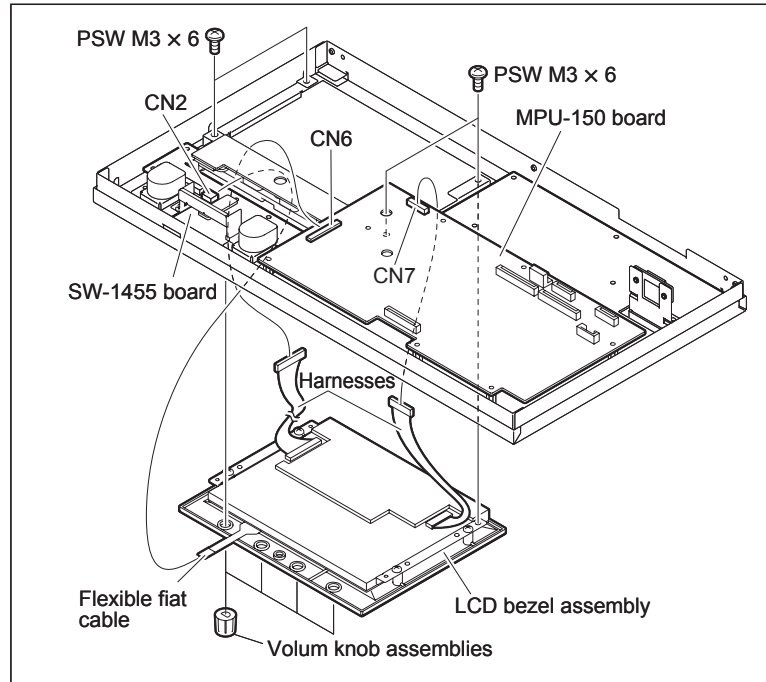
Installation

Install the bottom plate by reversing the step of removal.

1-8-2. LCD Module and Touch Panel (MSU-1000)

Removal

1. Remove the four volume knob assemblies.
2. Remove the bottom plate. (Refer to Section 1-8-1.)
3. Remove the rear panel assembly. (Refer to Section 1-8-3.)
4. Disconnect the two harnesses from the connectors (CN6, CN7) on the MPU-150 board.
5. Disconnect the flexible flat cable from the connector (CN2) on the SW-1455 board.
6. Remove the four screws (PSW M3 × 6) and remove the LCD bezel assembly.
7. Remove the four screws (BTP3 × 6) and remove the LCD module and the touch panel (6.5 inches) from the LCD bezel.
8. Remove the four screws (B2 × 3) to detach the LCD bracket.
9. Disconnect the two harnesses from the LCD module.



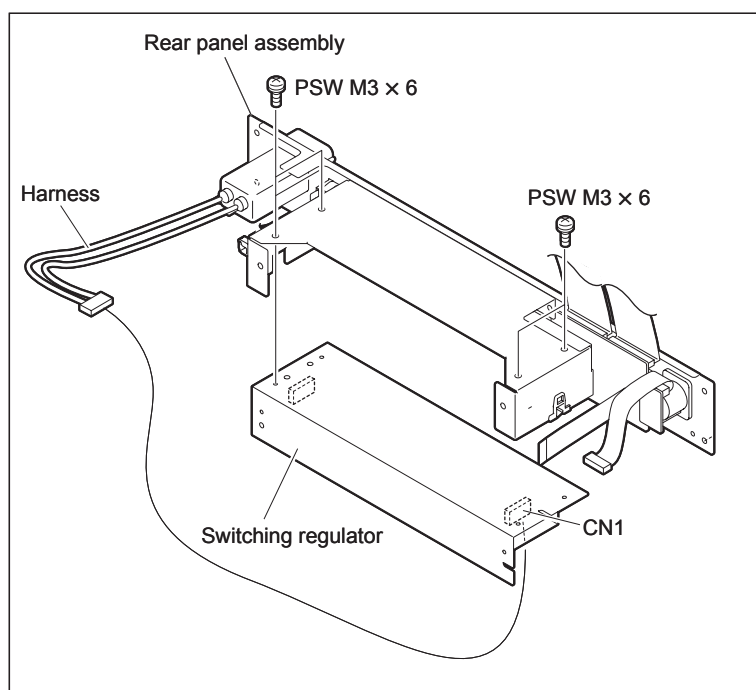
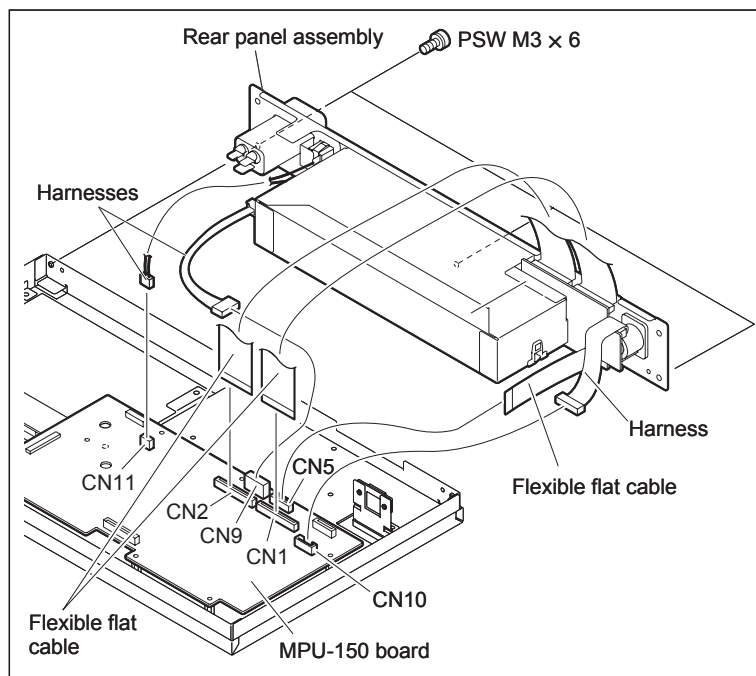
Installation

10. Install a new LCD module and touch panel by reversing the steps of removal.

1-8-3. Switching Regulator (MSU-1000)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-1.)
2. Disconnect the three flexible flat cables and three harnesses from the connectors (CN1, CN2, CN5, CN9, CN10, CN11) on the MPU-150 board.
3. Remove the three screws (PSW M3 × 6) and remove the rear panel assembly.
4. Disconnect the harness from the connector (CN1) on the switching regulator.
5. Remove the four screws (PSW M3 × 6) to detach the switching regulator.



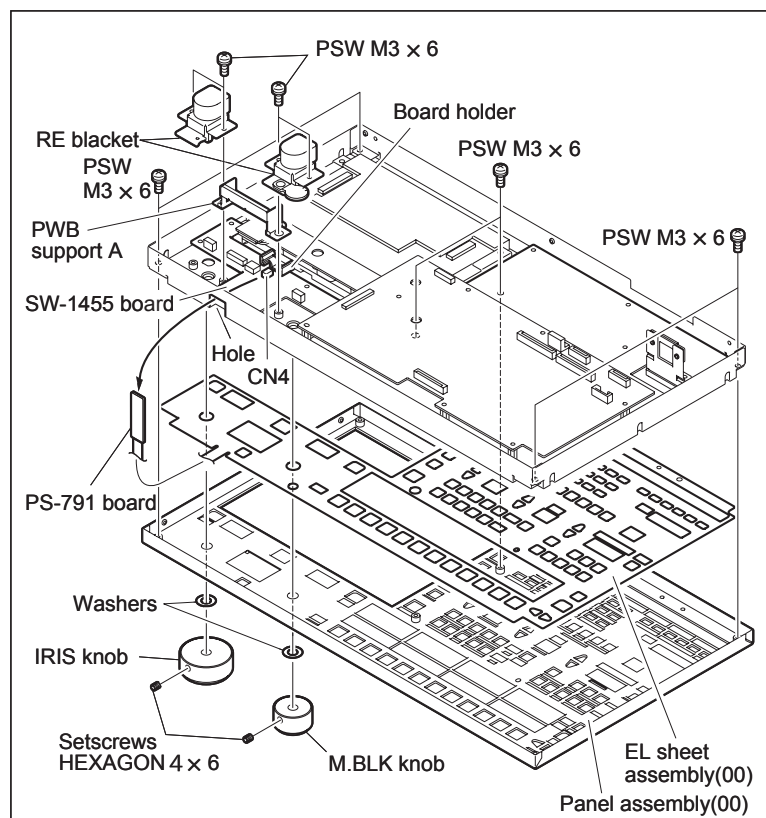
Installation

6. Install a new switching regulator by reversing the steps of removal.

1-8-4. EL Sheet Assembly (00) (MSU-1000)

Removal

1. Remove the two setscrews to detach the M.BLK knob, IRIS knob, and two washers.
2. Remove the bottom plate. (Refer to Section 1-8-1.)
3. Remove the rear panel assembly. (Refer to Section 1-8-3.)
4. Remove the four screws (PSW M3 × 6) to detach the RE bracket and the PWB support A.
5. Release the board holder on the SW-1455 board and disconnect the PS-791 board from the connector (CN4).
6. Remove the six screws (PSW M3 × 6) and remove the panel assembly (00) and the EL sheet assembly (00).
7. Remove the PS-791 board connected to the EL sheet through the hole shown in the figure.



Installation

8. Install a new EL sheet assembly (00) by reversing the steps of removal.

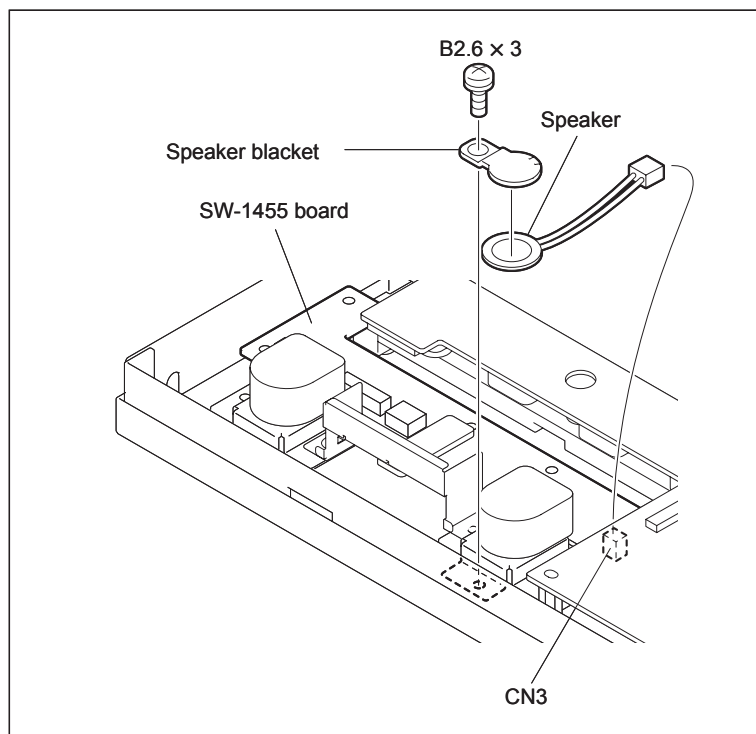
Note

Be careful not to damage the EL sheet assembly (00) when replacing it.

1-8-5. Speaker (MSU-1000)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-1.)
2. Disconnect the harness from the connector (CN3) on the SW-1455 board.
3. Remove the screw (B2.6 × 3) to detach the speaker bracket.
4. Remove the speaker.

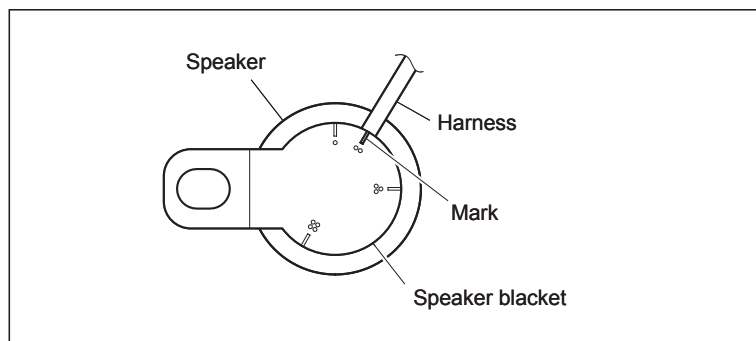


Installation

5. Install the speaker by reversing the steps of removal.

Note

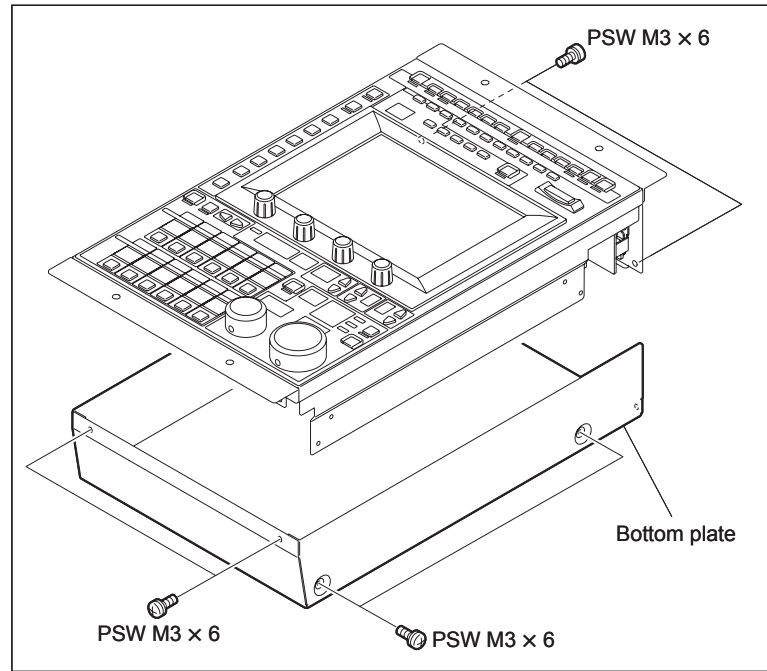
Install the speaker aligning the harness with the mark on the speaker bracket as shown in the figure.



1-8-6. Removing/Installing the Bottom Plate (MSU-1500)

Removal

1. Remove the six screws (PSW M3 × 6) to detach the bottom plate.



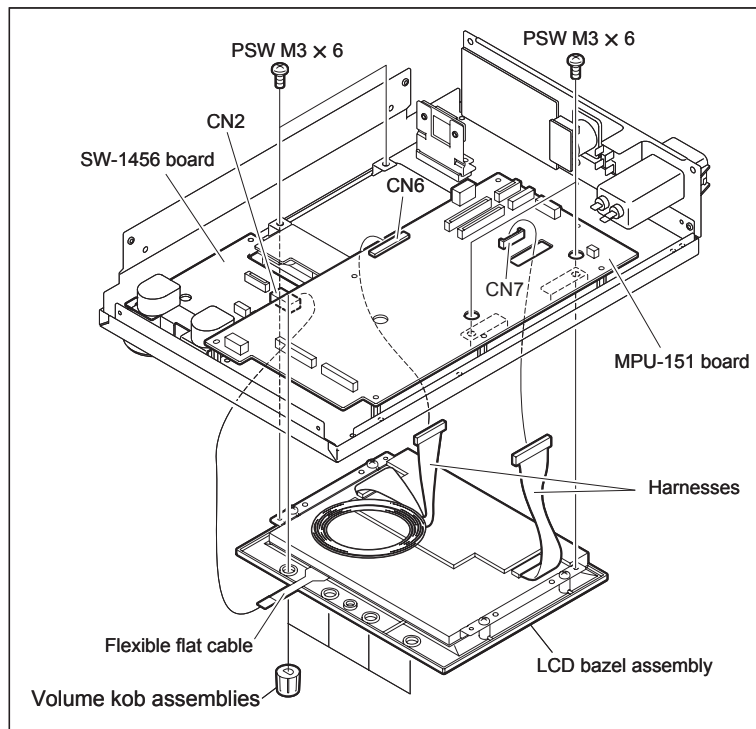
Installation

Install the bottom plate by reversing the step of removal.

1-8-7. LCD Module and Touch Panel (MSU-1500)

Removal

1. Remove the four volume kob assemblies.
2. Remove the bottom plate. (Refer to Section 1-8-6.)
3. Remove the switching regulator. (Refer to Section 1-8-8.)
4. Disconnect the two harnesses from the connectors (CN6, CN7) on the MPU-151 board.
5. Disconnect the flexible flat cable from the connector (CN2) on the SW-1456 board.
6. Remove the four screws (PSW M3 × 6) and remove the LCD bezel assembly.
7. Remove the LCD module and the 6.5-inch touch panel. (Refer to Section 1-8-2 steps 7 to 9.)



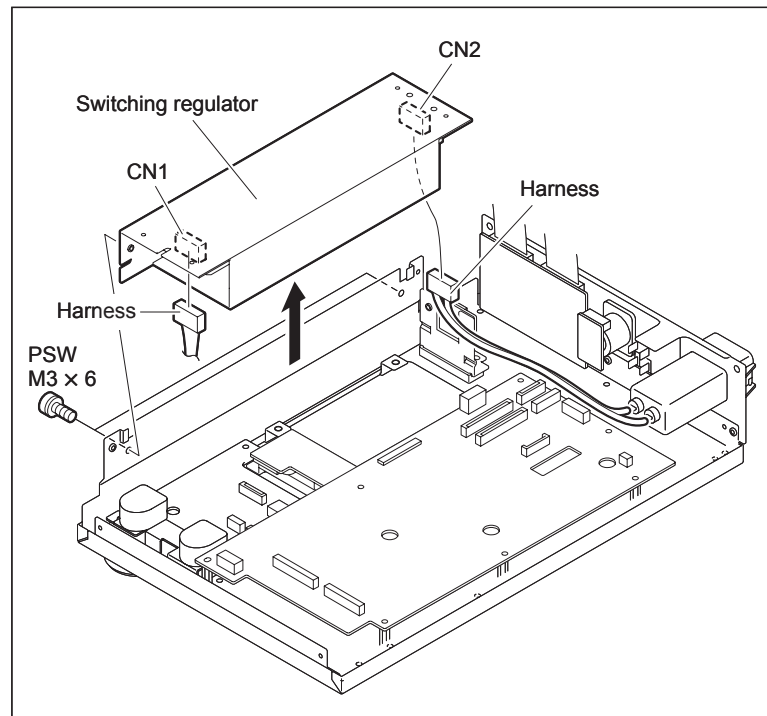
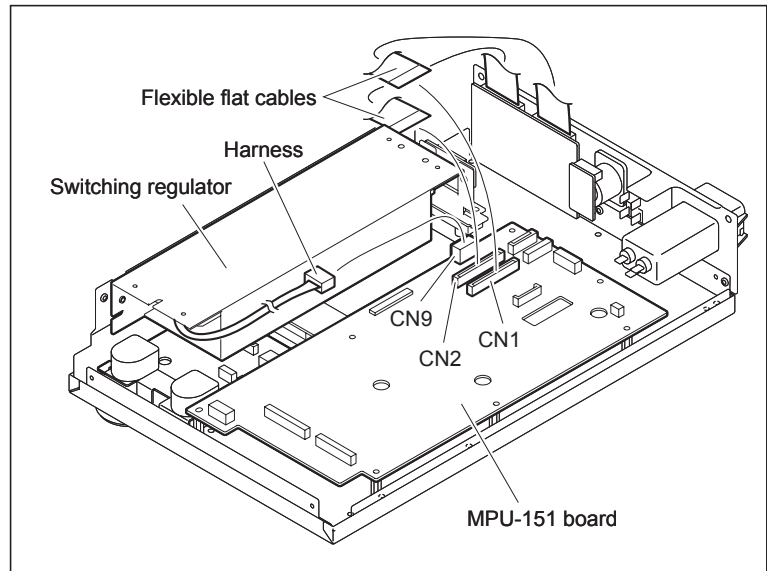
Installation

8. Install a new LCD module and touch panel by reversing the steps of removal.

1-8-8. Switching Regulator (MSU-1500)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-6.)
2. Disconnect the two flexible flat cables and the harness from the connectors (CN1, CN2, CN9) on the MPU-151 board.
3. Remove the two screws (PSW M3 × 6) and remove the switching regulator in the arrow direction, and then disconnect the two harnesses from the connectors (CN1, CN2).



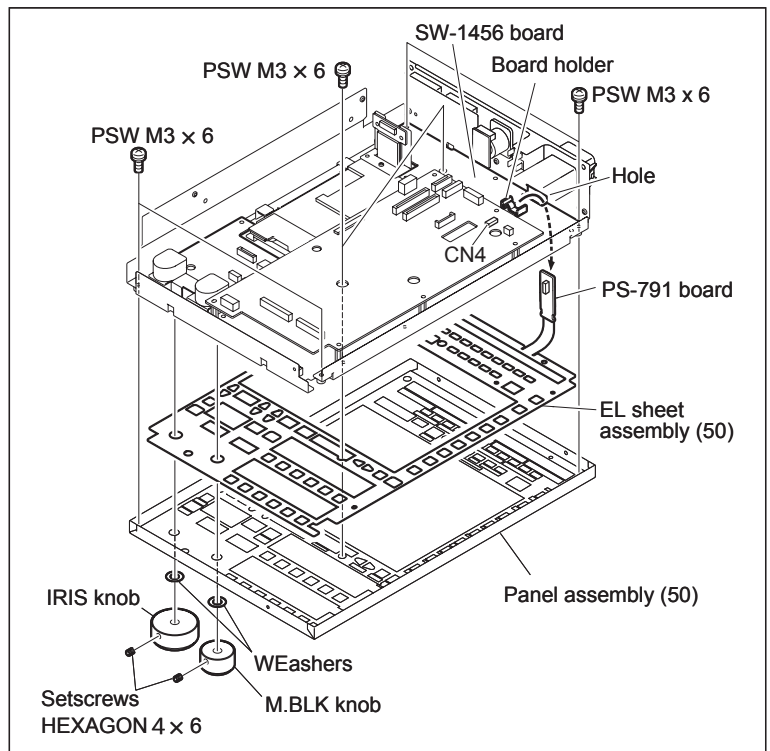
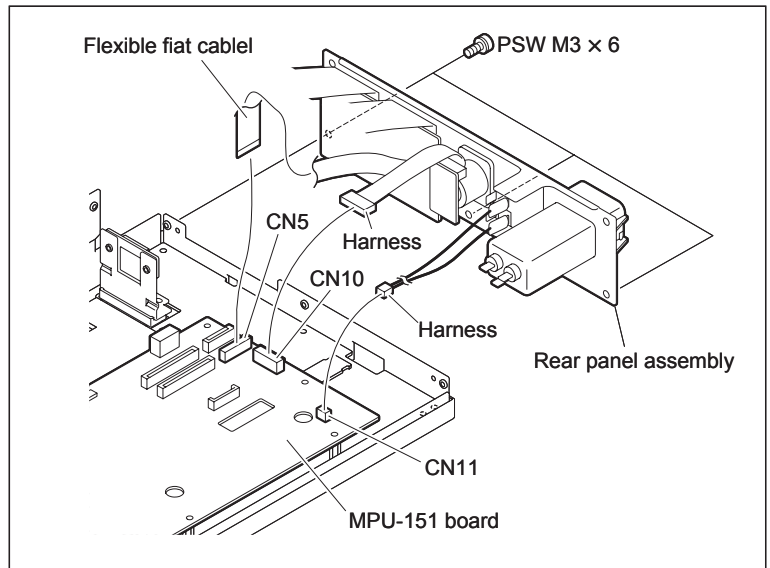
Installation

4. Install a new switching regulator by reversing the steps of removal.

1-8-9. Replacing the EL Sheet Assembly (50) (MSU-1500)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-6.)
2. Remove the switching regulator. (Refer to Section 1-8-8.)
3. Disconnect the flexible flat cable from the connector (CN5) on the MPU-151 board.
4. Disconnect the two harnesses from the connectors (CN10, CN11) on the MPU-151 board.
5. Remove the three screws (PSW M3 × 6) and remove the rear panel assembly.
6. Remove the two setscrews to detach the M.BLK knob, IRIS knob, and two washers.
7. Release the board holder on the SW-1456 board and disconnect the PS-791 board from the connector (CN4).
8. Remove the six screws (PSW M3 × 6) and remove the panel assembly (50) and the EL sheet assembly (50).
9. Remove the PS-791 board connected to the EL sheet through the hole shown in the figure.



Installation

10. Install a new EL sheet assembly (50) by reversing the steps of removal.

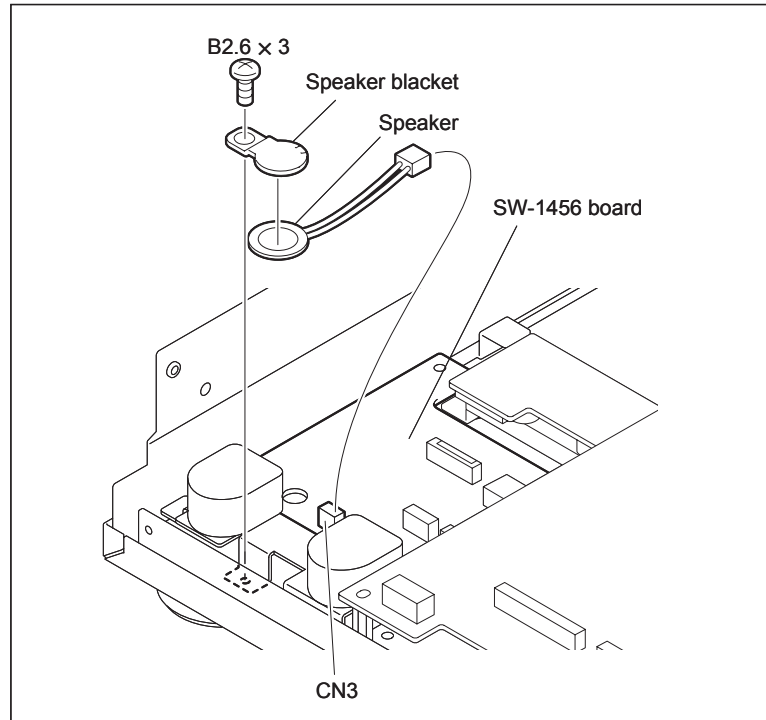
Note

Be careful not to damage the EL sheet assembly (50) when replacing it.

1-8-10. Speaker (MSU-1500)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-6.)
2. Disconnect the harness from the connector (CN3) on the SW-1456 board.
3. Remove the screw (B2.6 × 3) to detach the speaker bracket.
4. Remove the speaker.

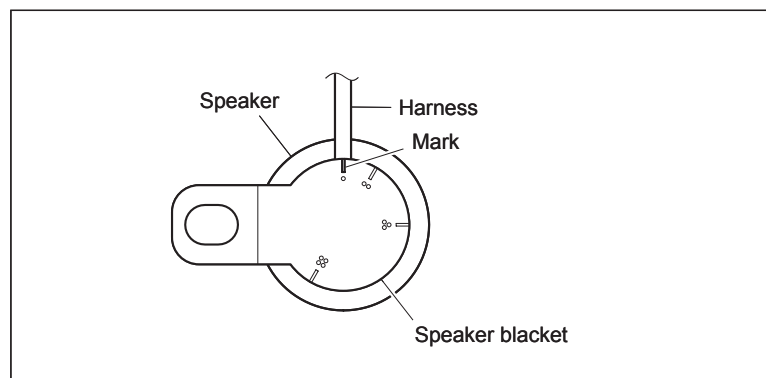


Installation

5. Install the speaker by reversing the steps of removal.

Note

Install the speaker aligning the harness with the mark on the speaker bracket as shown in the figure.



1-8-11. Replacing the Flexible Card Wires

1. Connecting/Disconnecting Flexible Card Wire

Note

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

A few types of different shape connectors are used in this unit. Because the direction of the flexible card wires and boards are different depending on the shape of the connector, be careful when connecting/disconnecting the flexible card wires and boards.

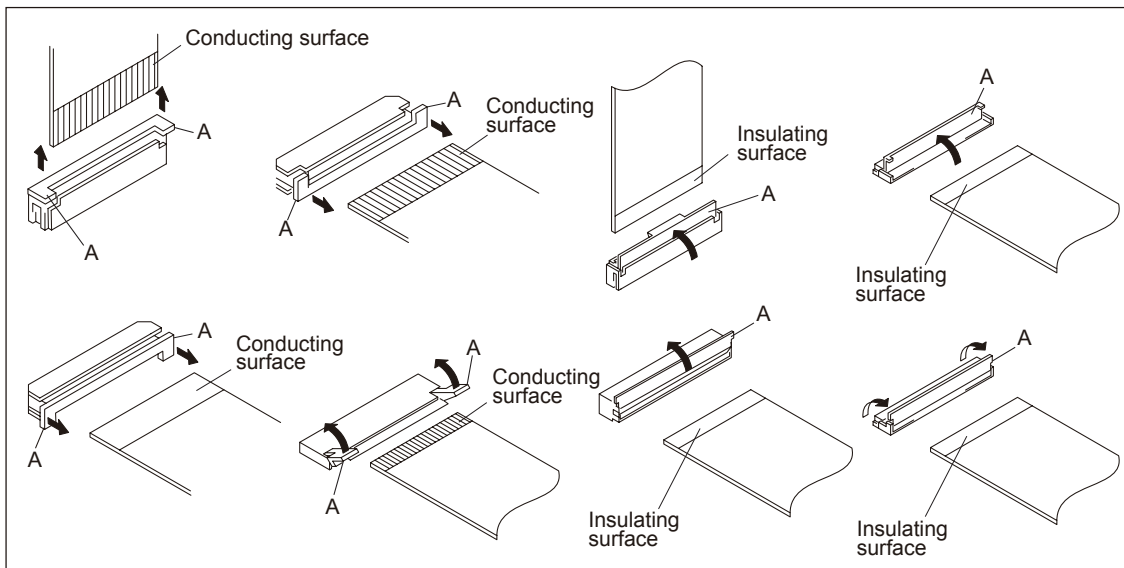
Disconnecting

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

Connecting

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.
 - When connecting the flexible card wire, check the connector shape, and great care should be taken for the direction of the contact surface or insulated surface (blue).
1. Slide or lift up 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.



2. Forming the Flexible Card Wire

When installing a new flexible card wire prepared as a spare part, bend it by hand referring to the flexible card wire supplied with this unit.

Note

Never reform the flexible card wire after being folded once.

MSU-1000

MPU-150 Board CN1	↔	CN-3237 Board CN5
MPU-150 Board CN2	↔	CN-3237 Board CN4
MPU-150 Board CN3	↔	CN-3242 Board CN2
MPU-150 Board CN5	↔	CN-3237 Board CN6
MPU-150 Board CN8	↔	SW-1455 Board CN5
SW-1455 Board CN1	↔	VR-338 Board CN1

MSU-1500

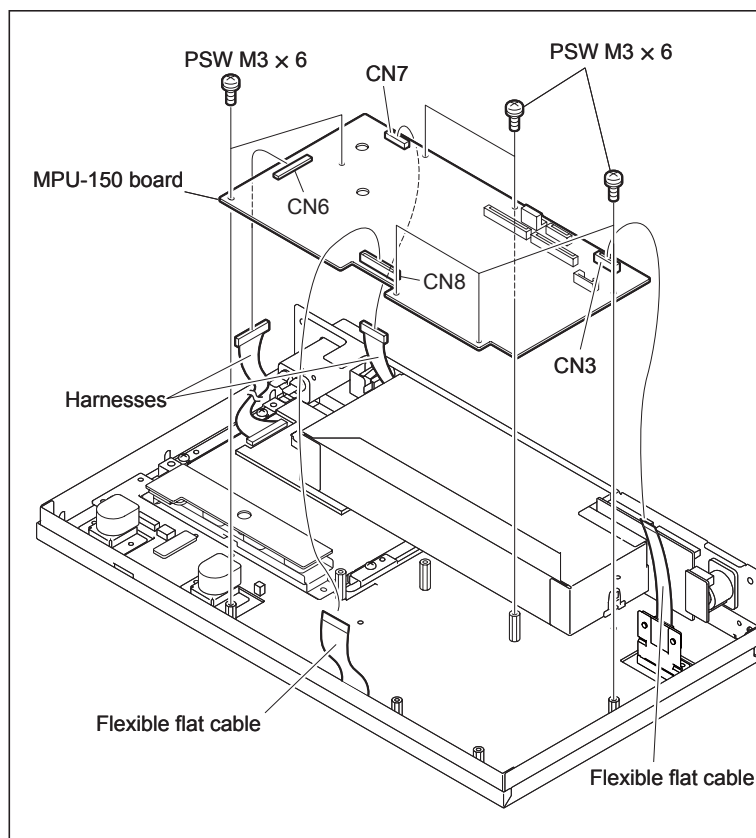
MPU-151 Board CN1	↔	CN-3237 Board CN5
MPU-151 Board CN2	↔	CN-3237 Board CN4
MPU-151 Board CN3	↔	CN-3242 Board CN2
MPU-151 Board CN5	↔	CN-3237 Board CN6
MPU-151 Board CN8	↔	SW-1456 Board CN5
MPU-151 Board CN12	↔	SW-1456 Board CN6
SW-1456 Board CN1	↔	VR-338 Board CN1

1-9. Replacement of Main Boards

1-9-1. MPU-150 Board (MSU-1000)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-1.)
2. Disconnect the connectors from the rear panel assembly. (Refer to Section 1-8-3 step 2.)
3. Disconnect the two flexible flat cables and two harnesses from the connectors (CN3, CN6, CN7, CN8) on the MPU-150 board.
4. Remove the seven screws (PSW M3 × 6) and remove the MPU-150 board.



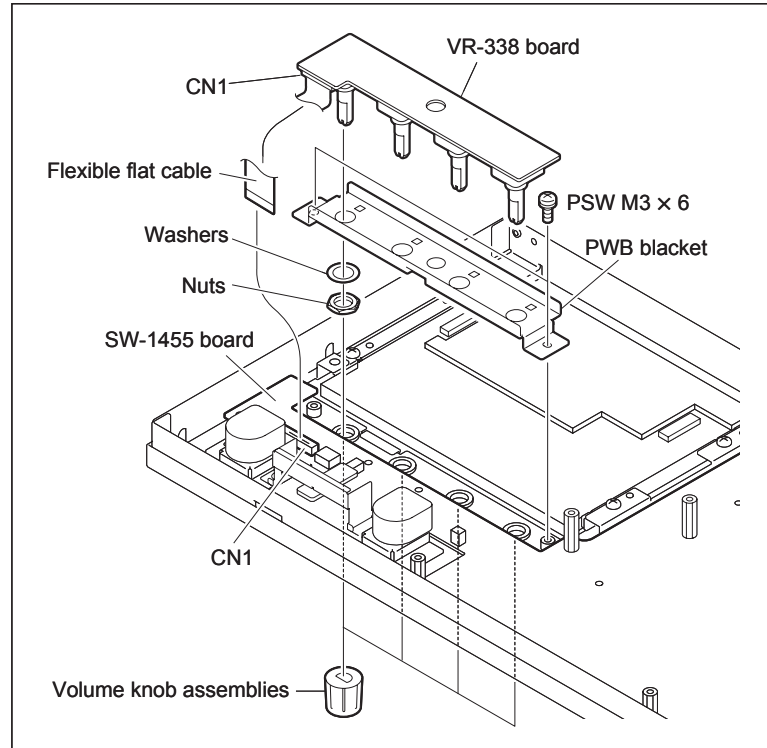
Installation

5. Install the MPU-150 board by reversing the steps of removal.

1-9-2. VR-338 Board (MSU-1000)

Removal

1. Remove the four volume knob assemblies.
2. Remove the bottom plate. (Refer to Section 1-8-1.)
3. Remove the MPU-150 board. (Refer to Section 1-9-1.)
4. Disconnect the flexible flat cable from the connector (CN1) on the SW-1455 board.
5. Remove the two screws (PSW M3 × 6) and remove the VR-338 board.
6. Remove the four nuts and four washers to detach the PWB bracket.



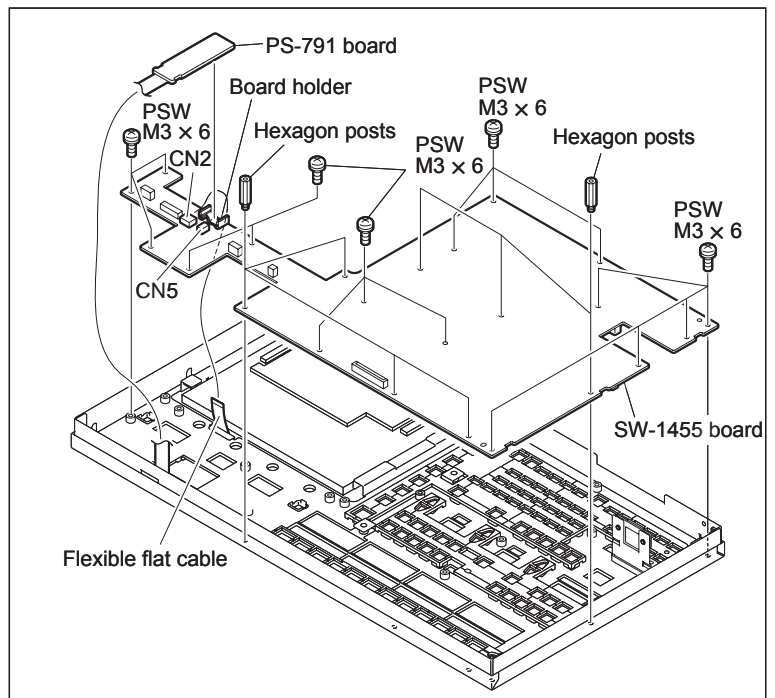
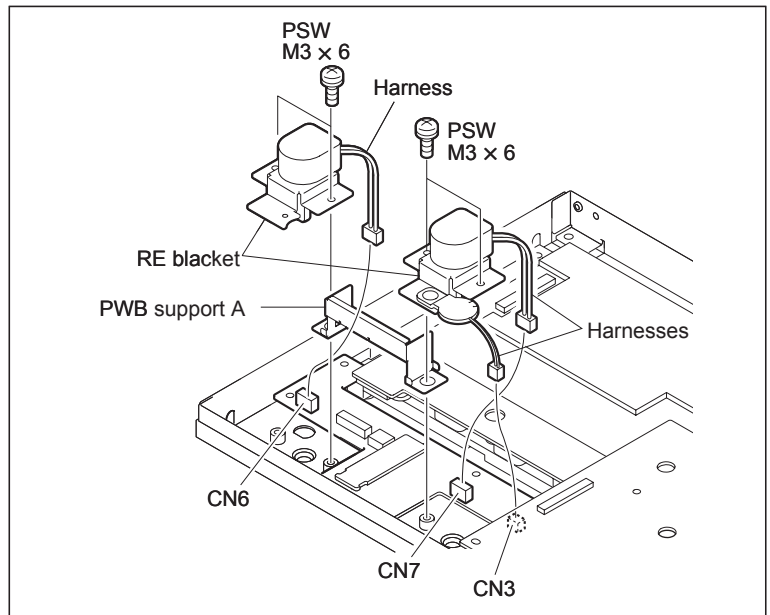
Installation

7. Install the VR-338 board by reversing the steps of removal.

1-9-3. SW-1455 Board (MSU-1000)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-1.)
2. Remove the rear panel assembly. (Refer to Section 1-8-3.)
3. Remove the MPU-150 board. (Refer to Section 1-9-1.)
4. Remove the VR-338 board. (Refer to Section 1-9-2.)
5. Disconnect the three harnesses from the connectors (CN3, CN6, CN7) on the SW-1455 board.
6. Remove the four screws (PSW M3 × 6) to detach the two RE brackets and the PWB support A.
7. Disconnect the flexible flat cable from the connector (CN2) on the SW-1455 board.
8. Release the board holder on the SW-1455 board and disconnect the PS-791 board from the connector (CN4).
9. Remove the 16 screws (PSW M3 × 6) and seven hexagon posts and remove the SW-1455 board.



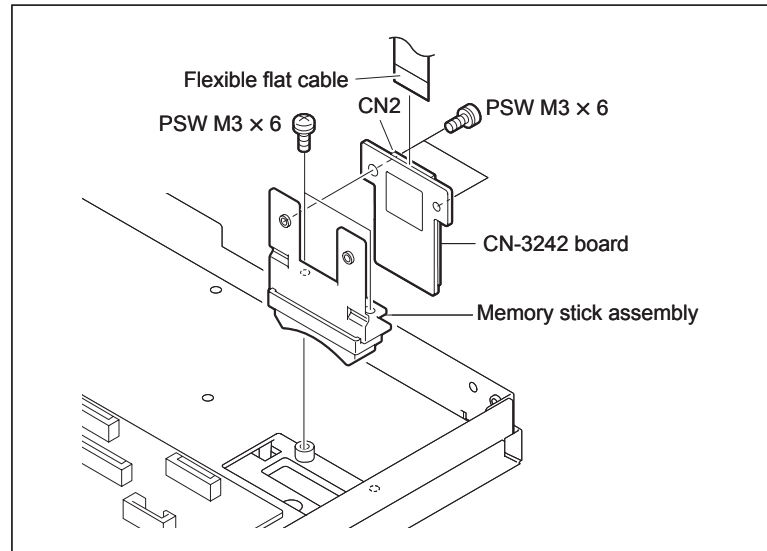
Installation

10. Install the SW-1455 board by reversing the steps of removal.

1-9-4. CN-3242 Board (MSU-1000)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-1.)
2. Disconnect the flexible flat cable from the connector (CN2) on the CN-3242 board.
3. Remove the two screws (PSW M3 × 6) and remove the Memory Stick assembly.
4. Remove the two screws (PSW M3 × 6) and remove the CN-3242 board.



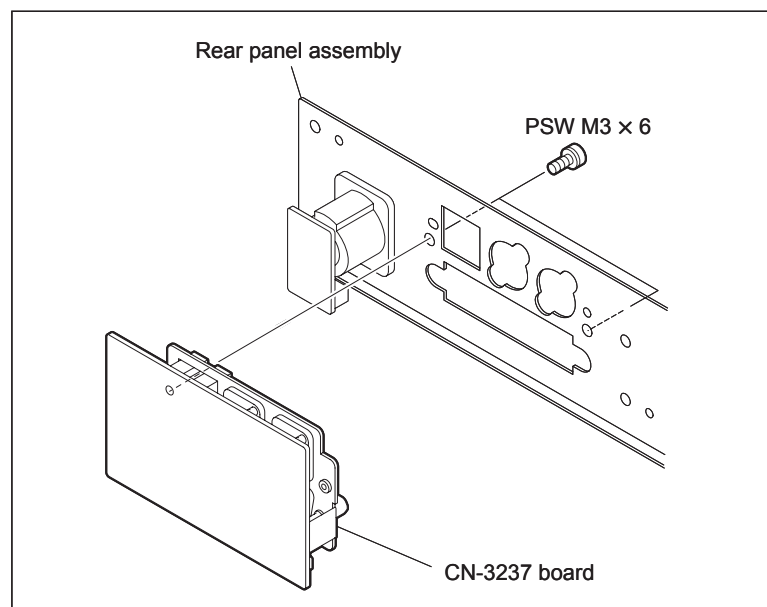
Installation

5. Install the CN-3242 board by reversing the steps of removal.

1-9-5. CN-3237 Board (MSU-1000)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-1.)
2. Remove the switching regulator. (Refer to Section 1-8-3.)
3. Remove the two screws (PSW M3 × 6) and remove the CN-3237 board.



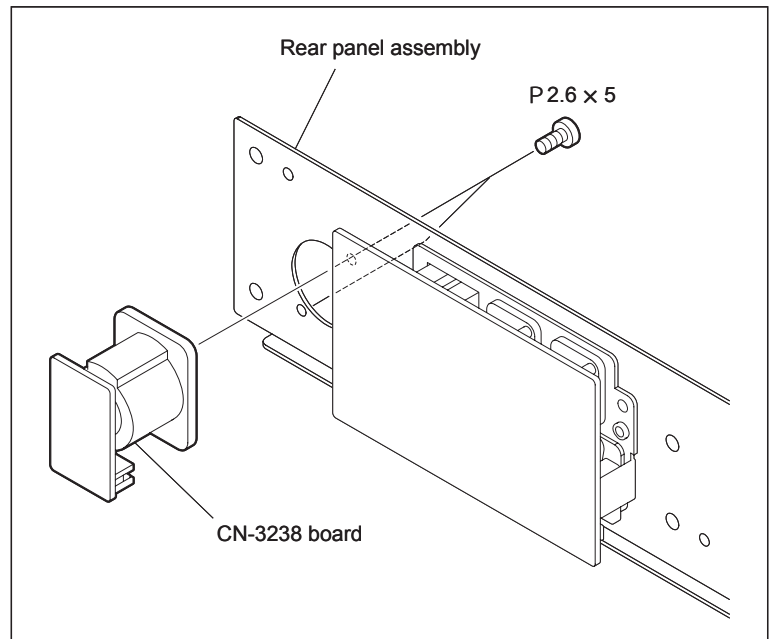
Installation

4. Install the CN-3237 board by reversing the steps of removal.

1-9-6. CN-3238 Board (MSU-1000)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-1.)
2. Remove the two screws (P2.6 × 5) and remove the CN-3238 board.



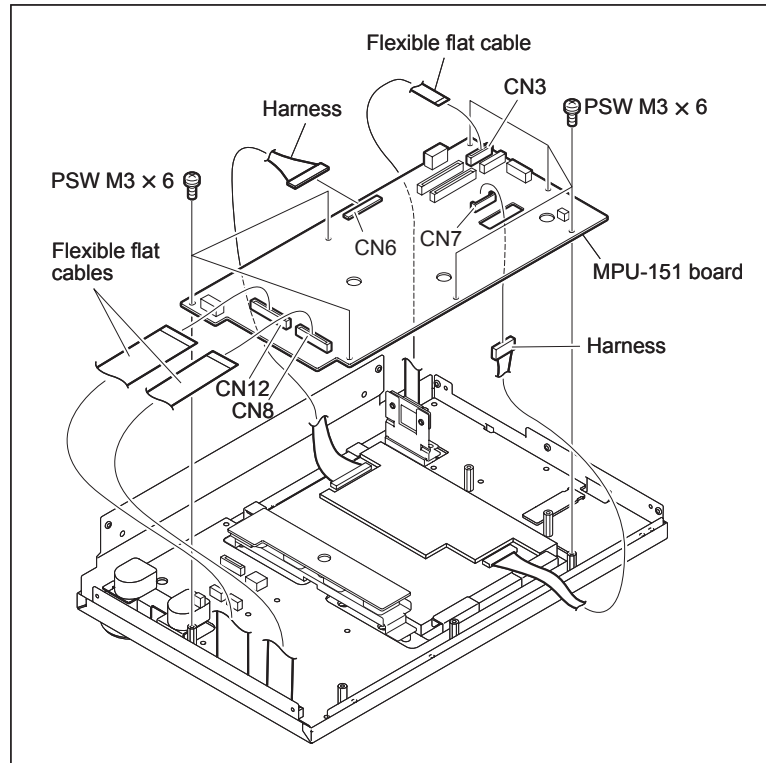
Installation

3. Install the CN-3238 board by reversing the steps of removal.

1-9-7. MPU-151 Board (MSU-1500)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-6.)
2. Disconnect the connectors from the rear panel assembly. (Refer to Section 1-8-8 steps 2 to 3 and Section 1-8-9 steps 3 to 4.)
3. Disconnect the three flexible flat cables and two harnesses from the connectors (CN3, CN6, CN7, CN8, CN12) on the MPU-151 board.
4. Remove the seven screws (PSW M3 × 6) and remove the MPU-151 board.



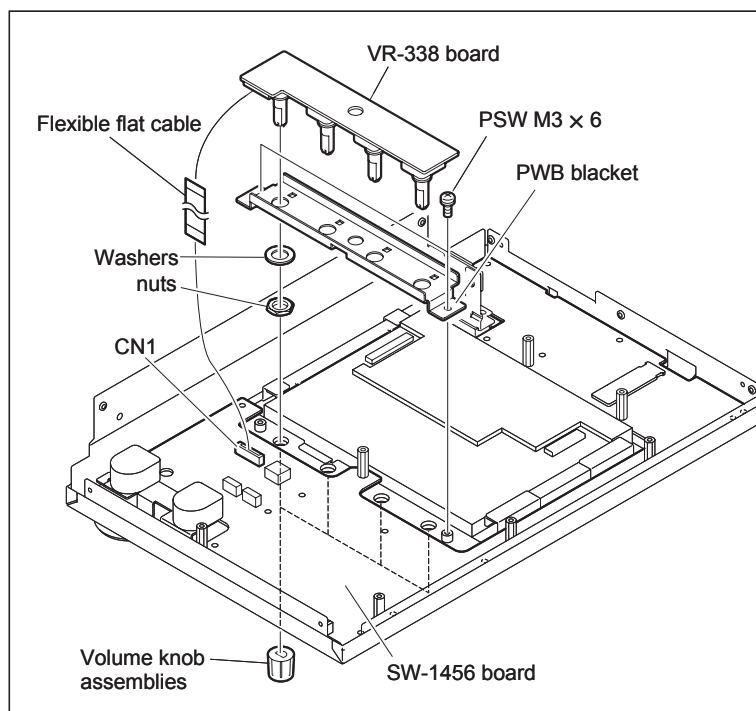
Installation

5. Install the MPU-151 board by reversing the steps of removal.

1-9-8. VR-338 Board (MSU-1500)

Removal

1. Remove the four volume knob assemblies.
2. Remove the bottom plate. (Refer to Section 1-8-6.)
3. Remove the switching regulator. (Refer to Section 1-8-8.)
4. Remove the MPU-151 board. (Refer to Section 1-9-1.)
5. Disconnect the flexible flat cable from the connector (CN1) on the VR-338 board.
6. Remove the two screws (PSW M3 × 6) and remove the VR-338 board.
7. Remove the four nuts and four washers to detach the PWB bracket.



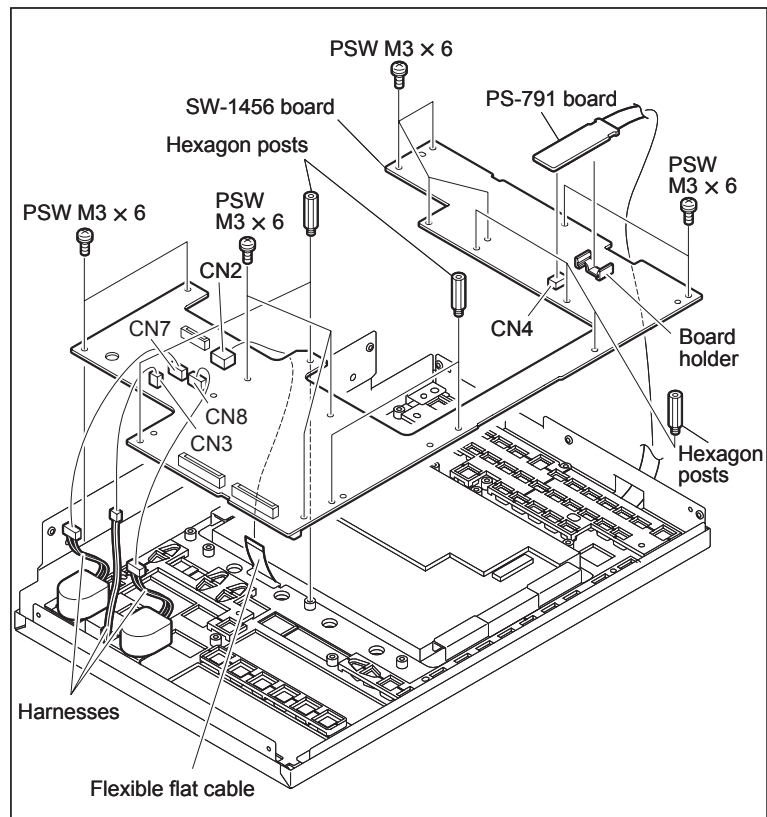
Installation

8. Install the VR-338 board by reversing the steps of removal.

1-9-9. SW-1456 Board (MSU-1500)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-6.)
2. Remove the switching regulator. (Refer to Section 1-8-8.)
3. Remove the rear panel assembly. (Refer to Section 1-8-9 steps 3 to 5.)
4. Remove the MPU-151 board. (Refer to Section 1-9-7.)
5. Remove the VR-338 board. (Refer to Section 1-9-8.)
6. Disconnect the flexible flat cable and three harnesses from the connectors (CN2, CN3, CN7, CN8) on the SW-1456 board.
7. Release the board holder on the SW-1456 board and disconnect the PS-791 board from the connector (CN4).
8. Remove the 11 screws (PSW M3 × 6) and seven hexagon posts and remove the SW-1456 board.



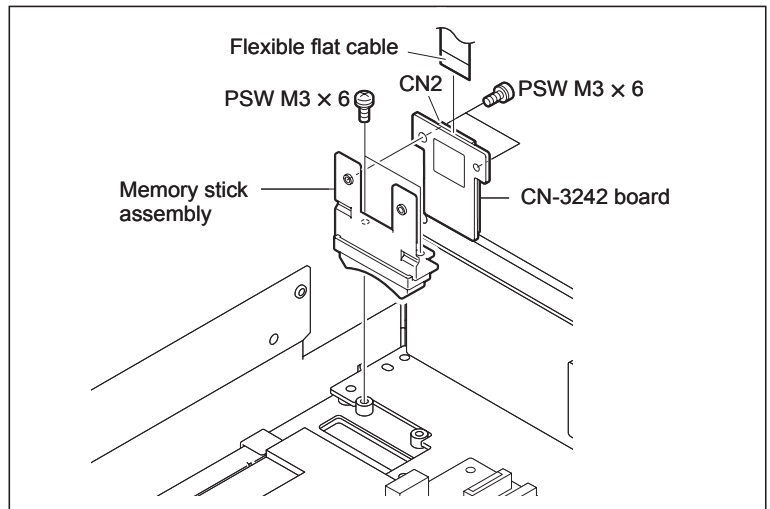
Installation

9. Install the SW-1456 board by reversing the steps of removal.

1-9-10. CN-3242 Board (MSU-1500)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-6.)
2. Disconnect the flexible flat cable from the connector (CN2) on the CN-3242 board.
3. Remove the two screws (PSW M3 × 6) and remove the Memory Stick assembly.
4. Remove the two screws (PSW M3 × 6) and remove the CN-3242 board.



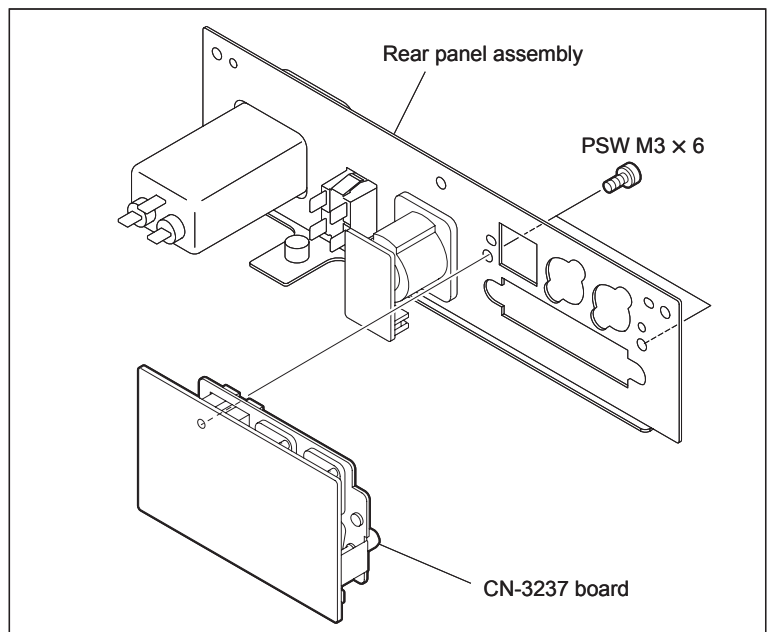
Installation

5. Install the CN-3242 board by reversing the steps of removal.

1-9-11. CN-3237 Board (MSU-1500)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-6.)
2. Remove the rear panel assembly. (Refer to Section 1-8-8 steps 2 to 3 and Section 1-8-9 steps 3 to 5.)
3. Remove the two screws (PSW M3 × 6) and remove the CN-3237 board.



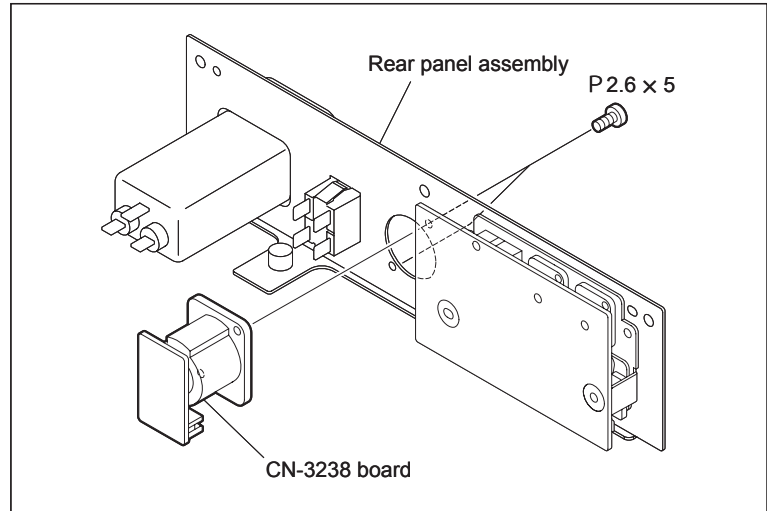
Installation

4. Install the CN-3237 board by reversing the steps of removal.

1-9-12. CN-3238 Board (MSU-1500)

Removal

1. Remove the bottom plate. (Refer to Section 1-8-6.)
2. Remove the rear panel assembly. (Refer to Section 1-8-8 steps 2 to 3 and Section 1-8-9 steps 3 to 5.)
3. Remove the two screws (P2.6 × 5) and remove the CN-3238 board.



Installation

4. Install the CN-3238 board by reversing the steps of removal.

1-10. Note on Replacing the Parts and Repairing

1-10-1. Note on Servicing

WARNING

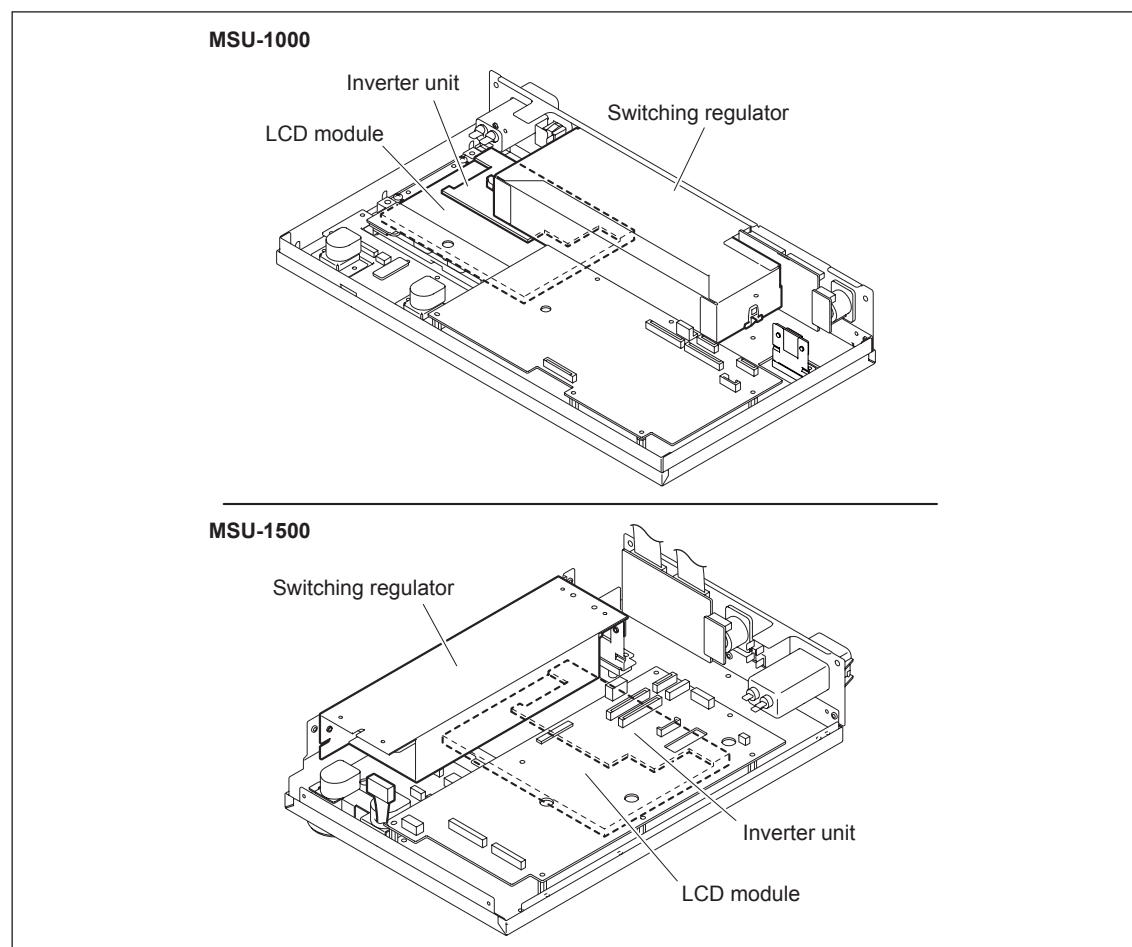
The inverter unit is placed on the backside of the LCD module. The inverter unit carries high voltage. Do not touch it with bare hands, as this is extremely dangerous. Take extreme care.

The voltage of 400 V AC from the DC/AC inverter is applied to the inverter block.

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

Notes

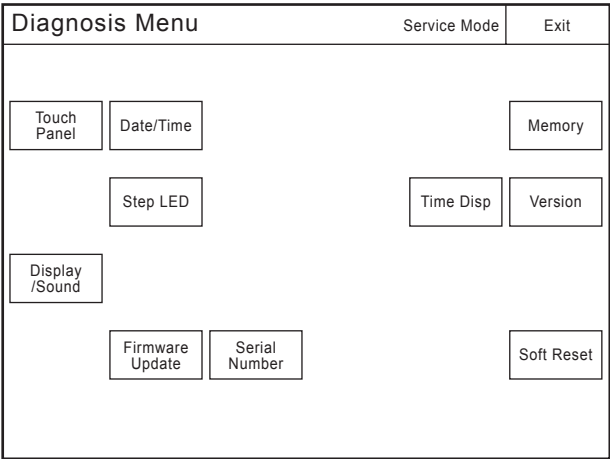
- One switching regulator is mounted on the unit. Take care of an electric shock on the primary side of power circuit in the switching regulator.
- Running the power supply unit under no load may cause power source trouble. Never check the power supply unit independently.



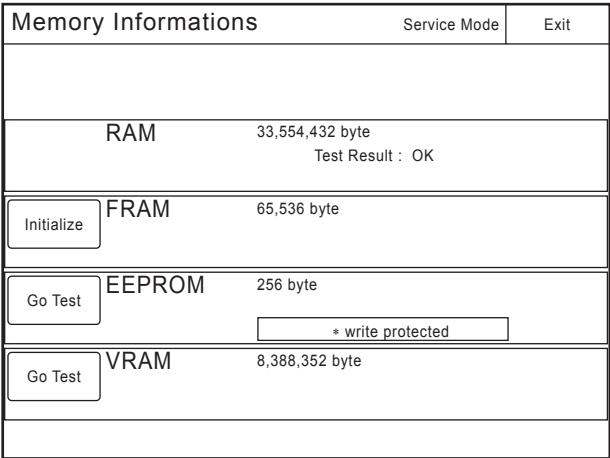
1-10-2. Note on Replacing the FRAM

When the FRAM (IC30, IC31) on the MPU-150/151 board or the MPU-150/151 board is replaced, initialize the FRAM using the following procedure.

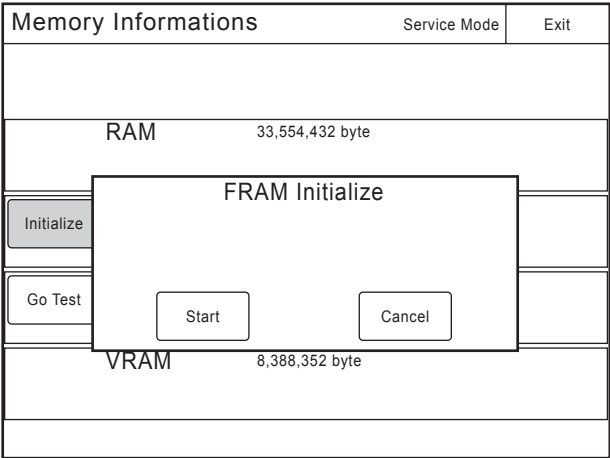
- 1. Enter the service mode. (Refer to section 1-6-1.)
- 2. Press the [PANEL ACTIVE] button, [PARA] button, SCENE FILES [1] button of the unit simultaneously to display the Diagnosis Menu (self-diagnosis menu).



- 3. Press [Memory] on the screen to display the Memory Informations menu.



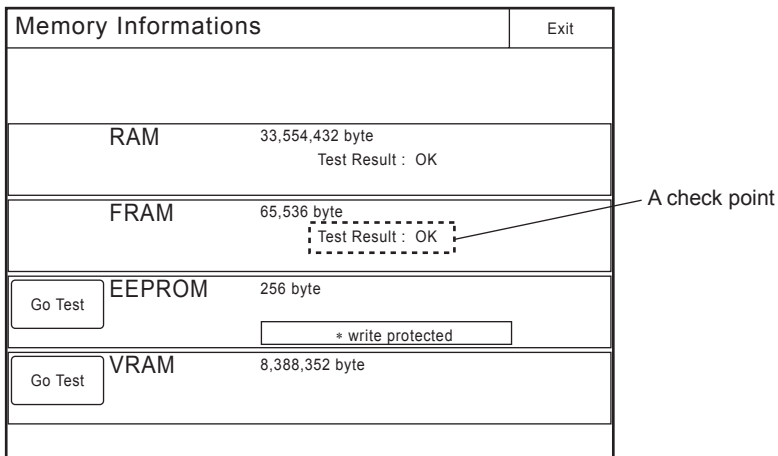
- 4. Press [Initialize] in frame the FRAM to display the confirmation screen.



- Press [Start] to perform initialization.
[Exit] appears upon completion of the initialization.



- Press [Exit] and check that “Test Result: OK” appears in the FRAM field.



- When the unit is turned off and on, all settings are returned to the factory settings.

1-10-3. Replacing the Backup Battery

WARNING

A backup battery is critical parts to safe operation. Replace this component with Sony parts whose part numbers appear in this manual published by Sony.

If not, this may cause a fire or electric shock. Be sure to use the specified component in this manual.

CAUTION

In replacing, ensure that battery is installed with “+” and “-” poles connected to the correct terminals. An improper connection may cause an explosion or leakage of fluid.

A backup battery is mounted on the MPU-150/151 board. This battery backs up the date data. Set the date again when the battery is replaced during replacement of the MPU-150/151 board and consumption of a backup battery.

(Refer to “Installation” in the Operating Instructions)

Replaced part: BT1 (MPU-150/151 board)

Part name: CR-2032 (lithium battery)

Part number: △ 1-528-174-71

Recommended replacement period: Seven years

Notes

- It is recommended to replace a backup battery simultaneously when the MPU-150/151 board is replaced.
- It is necessary to set the date again once a battery is removed from the battery holder.

1-10-4. Circuit Protective Parts

This unit is equipped with the positive characteristics thermistor (for power supply) as the circuit protective element.

The thermistor increases the internal resistance and limits the current flowing to the circuits when an over-current flows or when the ambient temperature increases and the element reaches the specified temperature.

If the elements work, turn off the main power and inspect the unit 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.

Board	Ref. No. (Address)	Part No.
CN-3237	THP1 (A-1/A side)	△ 1-803-615-21
	THP2 (A-1/A side)	
MPU-150	THP1 (F-1/B side)	△ 1-771-845-21
MPU-151	THP1 (G-1/A side)	△ 1-771-845-21
SW-1455	THP101 (F-5/B side)	△ 1-804-458-21
SW-1456	THP101 (C-7/B side)	△ 1-804-458-21

1-10-5. 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

Note

- 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.

1-10-6. Note on After Replacing the MPU board

Resetting the serial number is necessary, if the MPU-150/151 board is replaced. Contact your local Sony Sales Office/Service Center.

1-11. Recommended Replacing Parts

Parts listed below are recommended replacement parts. Replace them according to necessary.

Description	Sony P/N	Remarks
EL SHEET (00)	A-1753-999-A	MSU-1000 only
EL SHEET (50)	A-1754-001-A	MSU-1500 only
MS-CAP	4-169-755-12	rubber *1
BATTERY, LITHIUM (CR-2032)	△ 1-528-174-71	every 7 years *2

*1: Check deformation and deterioration from time to time. Replace it as necessary.

*2: Refer to 1-10-3.

1-12. I/O Specifications of D-sub 50P Connector

This I/O connector is provided for extended use of Camera Select (internal 24CAM) of the MSU and for wide-ranging operations in conjunction with the external Camera Select.

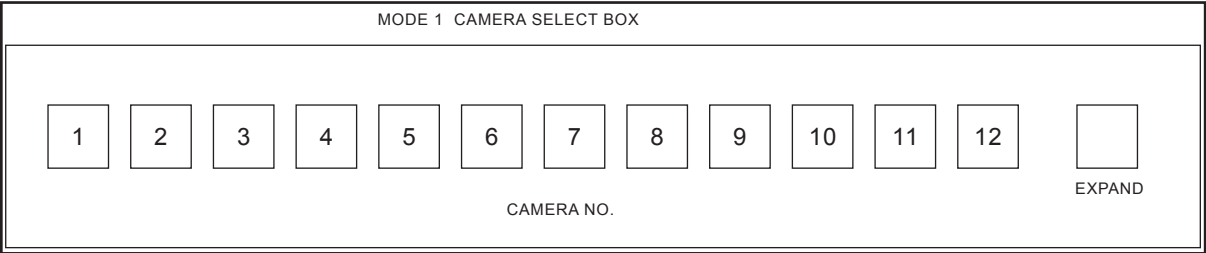
50-pin interface functions

Functions provided in the standard software

- Camera Select information communication with external units
- Mode1 to mode 3 are provided according to control methods.

Mode 1 (CNU SYSTEM, Ethernet SYSTEM)

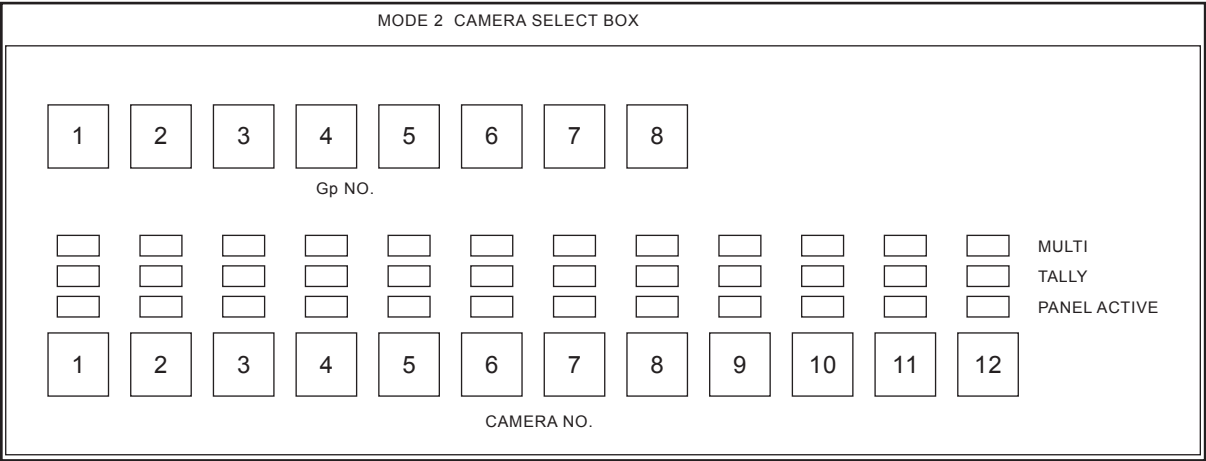
- The 12 cameras selection information can be output and externally selected information can be loaded.
- 24 cameras can also be supported by using EXPAND.



(Example of Panel Layout)

Mode 2 (Ethernet SYSTEM only)

- The 12 cameras selection information can be output and externally selected information can be loaded.
- 96 cameras can be selected in eight groups (12 cameras per group).
- The same indication as the LED indication (PANEL ACTIVE, TALLY, MULTI) on the MSU panel is enabled.



(Example of Panel Layout)

Mode 3 (Ethernet SYSTEM only)

- The 96 cameras direct selection information can be output and externally selected information can be loaded.

MODE 3 CAMERA SELECT BOX											
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96
CAMERA NO.											

(Example of Panel Layout)

Modes 1, 2, and 3 are determined by the settings of ports EXT I/O 44 to 47.

EXT I/O-47 14 pin	EXT I/O-46 46 pin	EXT I/O-45 30 pin	EXT I/O-44 13 pin	
H	H	H	H	Not used (default mode 0)
H	H	H	L	External camera selection mode 1 (mode 1)
H	H	L	H	External camera selection mode 2 (mode 2)
H	H	L	L	External camera selection mode 3 (mode 3)
H	L	H	H	Not used
H	L	H	L	Not used
H	L	L	H	Not used
H	L	L	L	Not used
L	X	X	X	Self-diagnosis mode (factory use)

Notes

- All ports are set to input ports by default, and therefore no unnecessary signal is output.
- Mode switching can be controlled in real time, which enables ON/OFF operation.

50 Pins Interface

Pin No.	Signal	Specification	Mode 0	Mode 1	Mode 2	Mode 3
1	EXT I/O-00	INPUT/OUTPUT PORT	IN	OUT	OUT	OUT
2	EXT I/O-03		IN	OUT	OUT	OUT
3	EXT I/O-06		IN	OUT	OUT	OUT
4	EXT I/O-11		IN	IN	IN	IN
5	EXT I/O-14		IN	IN	IN	IN
6	EXT I/O-17		IN	IN	IN	IN
7	EXT I/O-22		IN	OUT	OUT	OUT
8	EXT I/O-25		IN	OUT	OUT	OUT
9	EXT I/O-30		IN	IN	IN	IN
10	EXT I/O-33		IN	IN	IN	IN
11	EXT I/O-36		IN	IN	IN	IN
12	EXT I/O-41	OUTPUT PORT	OUT	OUT	OUT	OUT
13	EXT I/O-44	INPUT PORT (Mode Select)	IN	IN	IN	IN
14	EXT I/O-47	INPUT PORT (Mode Select)	IN	IN	IN	IN
15	+12V OUT	Utility Power 12 V		100 mA		
16	+12V OUT	Utility Power 12 V		100 mA		
17	SPARE	No Connection				
18	EXT I/O-01	INPUT/OUTPUT PORT	IN	OUT	OUT	OUT
19	EXT I/O-04		IN	OUT	OUT	OUT
20	EXT I/O-07		IN	OUT	OUT	OUT
21	EXT I/O-12		IN	IN	IN	IN
22	EXT I/O-15		IN	IN	IN	IN
23	EXT I/O-20		IN	OUT	OUT	OUT
24	EXT I/O-23		IN	OUT	OUT	OUT
25	EXT I/O-26		IN	OUT	OUT	OUT
26	EXT I/O-31		IN	IN	IN	IN
27	EXT I/O-34		IN	IN	IN	IN
28	EXT I/O-37		IN	IN	IN	IN
29	EXT I/O-42	OUTPUT PORT	OUT	OUT	OUT	OUT
30	EXT I/O-45	INPUT PORT (Mode Select)	IN	IN	IN	IN
31	+5V OUT	Utility Power 5 V		100 mA		
32	GND (+5 V)	GND for Utility Power 5 V				
33	GND (+12 V)	GND for Utility Power 12 V				
34	EXT I/O-02	INPUT/OUTPUT PORT	IN	OUT	OUT	OUT
35	EXT I/O-05		IN	OUT	OUT	OUT
36	EXT I/O-10		IN	IN	IN	IN
37	EXT I/O-13		IN	IN	IN	IN
38	EXT I/O-16		IN	IN	IN	IN
39	EXT I/O-21		IN	OUT	OUT	OUT
40	EXT I/O-24		IN	OUT	OUT	OUT
41	EXT I/O-27		IN	OUT	OUT	OUT
42	EXT I/O-32		IN	IN	IN	IN
43	EXT I/O-35		IN	IN	IN	IN
44	EXT I/O-40	OUTPUT PORT	OUT	OUT	OUT	OUT
45	EXT I/O-43	OUTPUT PORT	OUT	OUT	OUT	OUT
46	EXT I/O-46	INPUT PORT (Mode Select)	IN	IN	IN	IN
47	+5V OUT	Utility Power 5 V		100 mA		
48	GND (+5 V)	GND for Utility Power 5 V				
49	GND (+12 V)	GND for Utility Power 12 V				
50	SPARE	No Connection				

Expansion I/O (50 Pins Interface)

D-sub Pin No.	Signal	IN/OUT	Function
31, 47	+5 V OUT		Utility Power 5 V
15, 16	+12 V OUT		Utility Power 12 V
32, 48	GND (+5 V)		GND for Utility Power 5 V
33, 49	GND (+12 V)		GND for Utility Power 12 V
17, 50	SPARE		No Connection
1, 18, 34, 2, 19, 35, 3, 20	EXT I/O_00 to 07	IN/OUT	General I/O port (set the I/O of 8 ports in a mass)
36, 4, 21, 37	EXT I/O_10 to 13	IN/OUT	General I/O port (set the I/O of 4 ports in a mass)
5, 22, 38, 6	EXT I/O_14 to 17	IN/OUT	General I/O port (set the I/O of 4 ports in a mass)
23, 39, 7, 24, 40, 8, 25, 41	EXT I/O_20 to 27	IN/OUT	General I/O port (set the I/O of 8 ports in a mass)
9, 26, 42, 10, 27, 43, 11, 28	EXT I/O_30 to 37	IN/OUT	General I/O port (set the I/O of 8 ports in a mass)
44, 12, 29, 45	EXT I/O_40 to 43	OUT	General output port
13, 30, 46, 14	EXT I/O_44 to 47	IN	Mode setting port
Set the function above general ports by setting of following 4 ports.			
47 46 45 44			
H H H H Not used (default)			
H H H L External camera selection mode 1			
H H L H External camera selection mode 2			
H H L L External camera selection mode 3			
H L H H Not used			
H L H L Not used			
H L L H Not used			
H L L L Not used			
H X X X Self-diagnosis mode			
(For adjustment. Normally disabled)			
L: 0 V or GND			
H: 5 V or open			
Not using mode (default)			
	EXT I/O_00 to 07	IN	Not used
	EXT I/O_10 to 13	IN	Not used
	EXT I/O_14 to 17	IN	Not used
	EXT I/O_20 to 27	IN	Not used
	EXT I/O_30 to 37	IN	Not used
	EXT I/O_40 to 43	OUT	Not used (output L)
	EXT I/O_44 to 47	IN	Mode setting port
	EXT I/O_47	IN	H (open)
	EXT I/O_46	IN	H (open)
	EXT I/O_45	IN	H (open)
	EXT I/O_44	IN	H (open)
			H H H H Not used (default)

Function Table of External I/O ports (External Camera Selection Mode 1)

Camera Select 1 to 12, EXPAND

D-sub Pin No.	Port Name	IN/OUT	Function
EXT I/O_00 to 07			
20	EXT I/O_07	OUT	Reserve (Output H)
3	EXT I/O_06	OUT	Reserve (Output H)
35	EXT I/O_05	OUT	Reserve (Output H)
19	EXT I/O_04	OUT	EXPAND LED out (Low Active)
2	EXT I/O_03	OUT	Reserve (Output H)
34	EXT I/O_02	OUT	Reserve (Output H)
18	EXT I/O_01	OUT	Reserve (Output H)
1	EXT I/O_00	OUT	Reserve (Output H)
EXT I/O_14 to 17			
6	EXT I/O_17	IN	Reserve (Open)
38	EXT I/O_16	IN	Reserve (Open)
22	EXT I/O_15	IN	Reserve (Open)
5	EXT I/O_14	IN	EXPAND SW in (Low Active)
EXT I/O_10 to 13			
37	EXT I/O_13	IN	CAM 12 in (Low Active) Camera Select
21	EXT I/O_12	IN	CAM 11 in (Low Active) Camera Select
4	EXT I/O_11	IN	CAM 10 in (Low Active) Camera Select
36	EXT I/O_10	IN	CAM 9 in (Low Active) Camera Select
EXT I/O_20 to 27			
41	EXT I/O_27	OUT	CAM 8 out (Low Active) Camera Select
25	EXT I/O_26	OUT	CAM 7 out (Low Active) Camera Select
8	EXT I/O_25	OUT	CAM 6 out (Low Active) Camera Select
40	EXT I/O_24	OUT	CAM 5 out (Low Active) Camera Select
24	EXT I/O_23	OUT	CAM 4 out (Low Active) Camera Select
7	EXT I/O_22	OUT	CAM 3 out (Low Active) Camera Select
39	EXT I/O_21	OUT	CAM 2 out (Low Active) Camera Select
23	EXT I/O_20	OUT	CAM 1 out (Low Active) Camera Select
EXT I/O_30 to 37			
28	EXT I/O_37	IN	CAM 8 in (Low Active) Camera Select
11	EXT I/O_36	IN	CAM 7 in (Low Active) Camera Select
43	EXT I/O_35	IN	CAM 6 in (Low Active) Camera Select
27	EXT I/O_34	IN	CAM 5 in (Low Active) Camera Select
10	EXT I/O_33	IN	CAM 4 in (Low Active) Camera Select
42	EXT I/O_32	IN	CAM 3 in (Low Active) Camera Select
26	EXT I/O_31	IN	CAM 2 in (Low Active) Camera Select
9	EXT I/O_30	IN	CAM 1 in (Low Active) Camera Select
EXT I/O_40 to 43			
45	EXT I/O_43	OUT	CAM 12 out (Low Active) Camera Select
29	EXT I/O_42	OUT	CAM 11 out (Low Active) Camera Select
12	EXT I/O_41	OUT	CAM 10 out (Low Active) Camera Select
44	EXT I/O_40	OUT	CAM 9 out (Low Active) Camera Select
EXT I/O_44 to 47			
14	EXT I/O_47	IN	H (Open) Mode
46	EXT I/O_46	IN	H (Open) Mode
30	EXT I/O_45	IN	H (Open) Mode
13	EXT I/O_44	IN	L (GND Short) Mode
H H H L: External Camera Select Mode 1			

Function Table of External I/O ports (External Camera Selection Mode 2)

Camera Select 1 to 12, CNU Select 1 to 8

D-sub Pin No.	Port Name	IN/OUT	Function
EXT I/O_00 to 07			
20	EXT I/O_07	OUT	MULTI LED G Scan (Low Active)
3	EXT I/O_06	OUT	MULTI LED R Scan (Low Active)
35	EXT I/O_05	OUT	TALLY LED G Scan (Low Active)
19	EXT I/O_04	OUT	TALLY LED R Scan (Low Active)
2	EXT I/O_03	OUT	ACTIVE LED G Scan (Low Active)
34	EXT I/O_02	OUT	ACTIVE LED R Scan (Low Active)
18	EXT I/O_01	OUT	CNU SELECT Scan (Low Active)
1	EXT I/O_00	OUT	CAMERA SELECT Scan (Low Active)
EXT I/O_14 to 17			
6	EXT I/O_17	IN	Reserve (Open)
38	EXT I/O_16	IN	Reserve (Open)
22	EXT I/O_15	IN	Reserve (Open)
5	EXT I/O_14	IN	Reserve (Open)
EXT I/O_10 to 13			
37	EXT I/O_13	IN	SW 12 in (Low Active) Camera Select
21	EXT I/O_12	IN	SW 11 in (Low Active) Camera Select
4	EXT I/O_11	IN	SW 10 in (Low Active) Camera Select
36	EXT I/O_10	IN	SW 9 in (Low Active) Camera Select
EXT I/O_20 to 27			
41	EXT I/O_27	OUT	LED 8 out (Low Active) Camera Select
25	EXT I/O_26	OUT	LED 7 out (Low Active) Camera Select
8	EXT I/O_25	OUT	LED 6 out (Low Active) Camera Select
40	EXT I/O_24	OUT	LED 5 out (Low Active) Camera Select
24	EXT I/O_23	OUT	LED 4 out (Low Active) Camera Select
7	EXT I/O_22	OUT	LED 3 out (Low Active) Camera Select
39	EXT I/O_21	OUT	LED 2 out (Low Active) Camera Select
23	EXT I/O_20	OUT	LED 1 out (Low Active) Camera Select
EXT I/O_30 to 37			
28	EXT I/O_37	IN	SW 8 in (Low Active) Camera Select
11	EXT I/O_36	IN	SW 7 in (Low Active) Camera Select
43	EXT I/O_35	IN	SW 6 in (Low Active) Camera Select
27	EXT I/O_34	IN	SW 5 in (Low Active) Camera Select
10	EXT I/O_33	IN	SW 4 in (Low Active) Camera Select
42	EXT I/O_32	IN	SW 3 in (Low Active) Camera Select
26	EXT I/O_31	IN	SW 2 in (Low Active) Camera Select
9	EXT I/O_30	IN	SW 1 in (Low Active) Camera Select
EXT I/O_40 to 43			
45	EXT I/O_43	OUT	CAM 12 out (Low Active)
29	EXT I/O_42	OUT	CAM 11 out (Low Active)
12	EXT I/O_41	OUT	CAM 10 out (Low Active)
44	EXT I/O_40	OUT	CAM 9 out (Low Active)
EXT I/O_44 to 47			
14	EXT I/O_47	IN	H (Open) Mode
46	EXT I/O_46	IN	H (Open) Mode
30	EXT I/O_45	IN	L (GND Short) Mode
13	EXT I/O_44	IN	H (Open) Mode
H H L H: External Camera Select Mode 2			

Function Table of External I/O ports (External Camera Selection Mode 3) (1/2)

Camera Select 1 to 96 (Direct Mode)

D-sub Pin No.	Port Name	IN/OUT	Function
EXT I/O_00 to 07			
20	EXT I/O_07	OUT	Line 8 Scan (Low Active)
3	EXT I/O_06	OUT	Line 7 Scan (Low Active)
35	EXT I/O_05	OUT	Line 6 Scan (Low Active)
19	EXT I/O_04	OUT	Line 5 Scan (Low Active)
2	EXT I/O_03	OUT	Line 4 Scan (Low Active)
34	EXT I/O_02	OUT	Line 3 Scan (Low Active)
18	EXT I/O_01	OUT	Line 2 Scan (Low Active)
1	EXT I/O_00	OUT	Line 1 Scan (Low Active)
EXT I/O_14 to 17			
6	EXT I/O_17	IN	Reserve (Open)
38	EXT I/O_16	IN	Useable line number assignment 3 (Low Active)
22	EXT I/O_15	IN	Useable line number assignment 2 (Low Active)
5	EXT I/O_14	IN	Useable line number assignment 1 (Low Active)
16 15 14			
H H H 1 Line (1 to 12 CAM)			
H H L 2 Line (1 to 24 CAM)			
H L H 3 Line (1 to 36 CAM)			
H L L 4 Line (1 to 48 CAM)			
L H H 5 Line (1 to 60 CAM)			
L H L 6 Line (1 to 72 CAM)			
L L H 7 Line (1 to 84 CAM)			
L L L 8 Line (1 to 96 CAM)			
EXT I/O_10 to 13			
37	EXT I/O_13	IN	SW 12 in (Low Active)
21	EXT I/O_12	IN	SW 11 in (Low Active)
4	EXT I/O_11	IN	SW 10 in (Low Active)
36	EXT I/O_10	IN	SW 9 in (Low Active)
EXT I/O_20 to 27			
41	EXT I/O_27	OUT	LED 8 out (Low Active)
25	EXT I/O_26	OUT	LED 7 out (Low Active)
8	EXT I/O_25	OUT	LED 6 out (Low Active)
40	EXT I/O_24	OUT	LED 5 out (Low Active)
24	EXT I/O_23	OUT	LED 4 out (Low Active)
7	EXT I/O_22	OUT	LED 3 out (Low Active)
39	EXT I/O_21	OUT	LED 2 out (Low Active)
23	EXT I/O_20	OUT	LED 1 out (Low Active)
EXT I/O_30 to 37			
28	EXT I/O_37	IN	SW 8 in (Low Active)
11	EXT I/O_36	IN	SW 7 in (Low Active)
43	EXT I/O_35	IN	SW 6 in (Low Active)
27	EXT I/O_34	IN	SW 5 in (Low Active)
10	EXT I/O_33	IN	SW 4 in (Low Active)
42	EXT I/O_32	IN	SW 3 in (Low Active)
26	EXT I/O_31	IN	SW 2 in (Low Active)
9	EXT I/O_30	IN	SW 1 in (Low Active)

Function Table of External I/O ports (External Camera Selection Mode 3) (2/2)**Camera Select 1 to 96 (Direct Mode)**

D-sub Pin No.	Port Name	IN/OUT	Function
	EXT I/O_40 to 43		
45	EXT I/O_43	OUT	LED 12 out (Low Active)
29	EXT I/O_42	OUT	LED 11 out (Low Active)
12	EXT I/O_41	OUT	LED 10 out (Low Active)
44	EXT I/O_40	OUT	LED 9 out (Low Active)
	EXT I/O_44 to 47		Mode setting port
14	EXT I/O_47	IN	H (Open)
46	EXT I/O_46	IN	H (Open)
30	EXT I/O_45	IN	L (GND Short)
13	EXT I/O_44	IN	L (GND Short)
H H L L: External Camera Select Mode 3			

1-13. Circuit Description**MSU-1000****MPU-150 Board**

The MPU-150 board has the main CPU and performs communication and graphic control.

The main CPU (IC8) operates on the 1/2 divided clock of the 33 MHz oscillating frequency of the oscillator (X1).

The flash ROM (IC15, IC16) stores the execution program. After the main CPU starts up, the program in the flash ROM is transferred to the SDRAM (IC25), and then the program is executed in the SDRAM.

The FRAM (nonvolatile memory) (IC30, IC31) stores setting data and other data of the unit.

The FPGA (IC202) also decodes addresses, generates timing pulse.

IC203 (graphic IC) sends data to IC502 (LDVS).

IC502 creates graphic data to be displayed on the 6.5-inch LCD and drives LCD.

IC400 (700 protocol communication IC) performs communication while the CCA cable is connected.

IC402 (Ethernet communication IC) operates while the Ethernet cable is connected, and enters the sleep mode while communication is idle.

IC504, IC505 (parallel I/O IC) controls the D-sub 50-pin interface.

IC503 drives the LED backlight of the 6.5-inch LCD and also drives the 6-channel LED array.

IC502 converts the IC203 data to LVDS and transfers the data to the 6.5-inch LCD.

IC606 and IC607 switch input power voltages using the FET.

SW-1455 Board

The sub CPU (IC1) performs serial communication with the main CPU on the MPU board and transfers the information of switches, rotary encoders, and potentiometers to the main CPU. The sub CPU also receives display data from the main CPU and displays the data on the switch LEDs and 7-segment LEDs. IC5 is a FPGA that processes data of rotary encoders.

IC106 (sound source IC) drives the speaker and outputs call sound and switch click sound.

IC108 controls the touch panel on the LCD. When a location on the touch panel is pressed, the address and the sense pressure at the location are measured and are transferred to the sub CPU through the FPGA.

IC107 measures the brightness at the unit installation location and transfers the DC-level information to the sub CPU.

IC201 to IC208 and IC401 to IC408 receive information to light switch LEDs and panel LEDs from the sub CPU and light them, and also control the brightness of the LEDs with the PWM pulse width that is input to each IC.

IC602 to IC604 and IC701 to IC704 control the 7-segment LEDs.

The sub CPU updates the data for each LED at constant intervals and lights the LEDs.

The switch ON/OFF information is acquired by the sub CPU by line scanning, and is transferred to the main CPU after chattering processing.

MSU-1500

MPU-151 Board

The MPU-151 board has the main CPU and performs communication and graphic control.

The main CPU (IC8) operates on the 1/2 divided clock of the 33 MHz oscillating frequency of the oscillator (X1).

The flash ROM (IC15, IC16) stores the execution program. After the main CPU starts up, the program in the flash ROM is transferred to the SDRAM (IC25), and then the program is executed in the SDRAM.

The FRAM (nonvolatile memory) (IC30, IC31) stores setting data and other data of the unit.

The FPGA (IC202) also decodes addresses, generates timing pulse.

IC203 (graphic IC) sends data to IC502 (LDVS).

IC502 creates graphic data to be displayed on the 6.5-inch LCD and drives LCD.

IC204 is the graphic memory device of IC203.

IC400 (700 protocol communication IC) performs communication while the CCA cable is connected.

IC402 (Ethernet communication IC) operates while the Ethernet cable is connected, and enters the sleep mode while communication is idle.

IC504, IC505 (parallel I/O IC) controls the D-sub 50-pin interface.

IC503 drives the LED backlight of the 6.5-inch LCD and also drives the 6-channel LED array.

IC502 converts the IC203 data to LVDS and transfers the data to the 6.5-inch LCD.

IC606 and IC607 switch input power voltages using the FET.

SW-1456 Board

The sub CPU (IC1) performs serial communication with the main CPU on the MPU board and transfers the information of switches, rotary encoders, and potentiometers to the main CPU. The sub CPU also receives display data from the main CPU and displays the data on the switch LEDs and 7-segment LEDs.

IC5 is a FPGA that processes data of rotary encoders.

IC106 (sound source IC) drives the speaker and outputs call sound and switch click sound.

IC108 controls the touch panel on the LCD. When a location on the touch panel is pressed, the address and the sense pressure at the location are measured and are transferred to the sub CPU through the FPGA.

IC107 measures the brightness at the unit installation location and transfers the DC-level information to the sub CPU.

IC201 to IC208 and IC401 to IC403 receive information to light switch LEDs and panel LEDs from the sub CPU and light them, and also control the brightness of the LEDs with the PWM pulse width that is input to each IC.

IC502 to IC504 and IC601 to IC604 control the 7-segment LEDs.

The sub CPU updates the data for each LED at constant intervals and lights the LEDs.

The switch ON/OFF information is acquired by the sub CPU by line scanning, and is transferred to the main CPU after chattering processing.

MSU-1000/1500

PS-791 Board

IC1 measures the brightness of the EL sheet and transfers the DC-level information to the sub CPU.

IC2 (EL sheet drive IC) outputs AC power to light the EL sheet.

Section 2

Spare Parts

2-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

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

2. Standardization of Parts

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

3. Stock of Parts

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

4. Harness

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

2-1. 補修部品注意事項

1. 安全重要部品

△警告

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

2. 部品の共通化

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

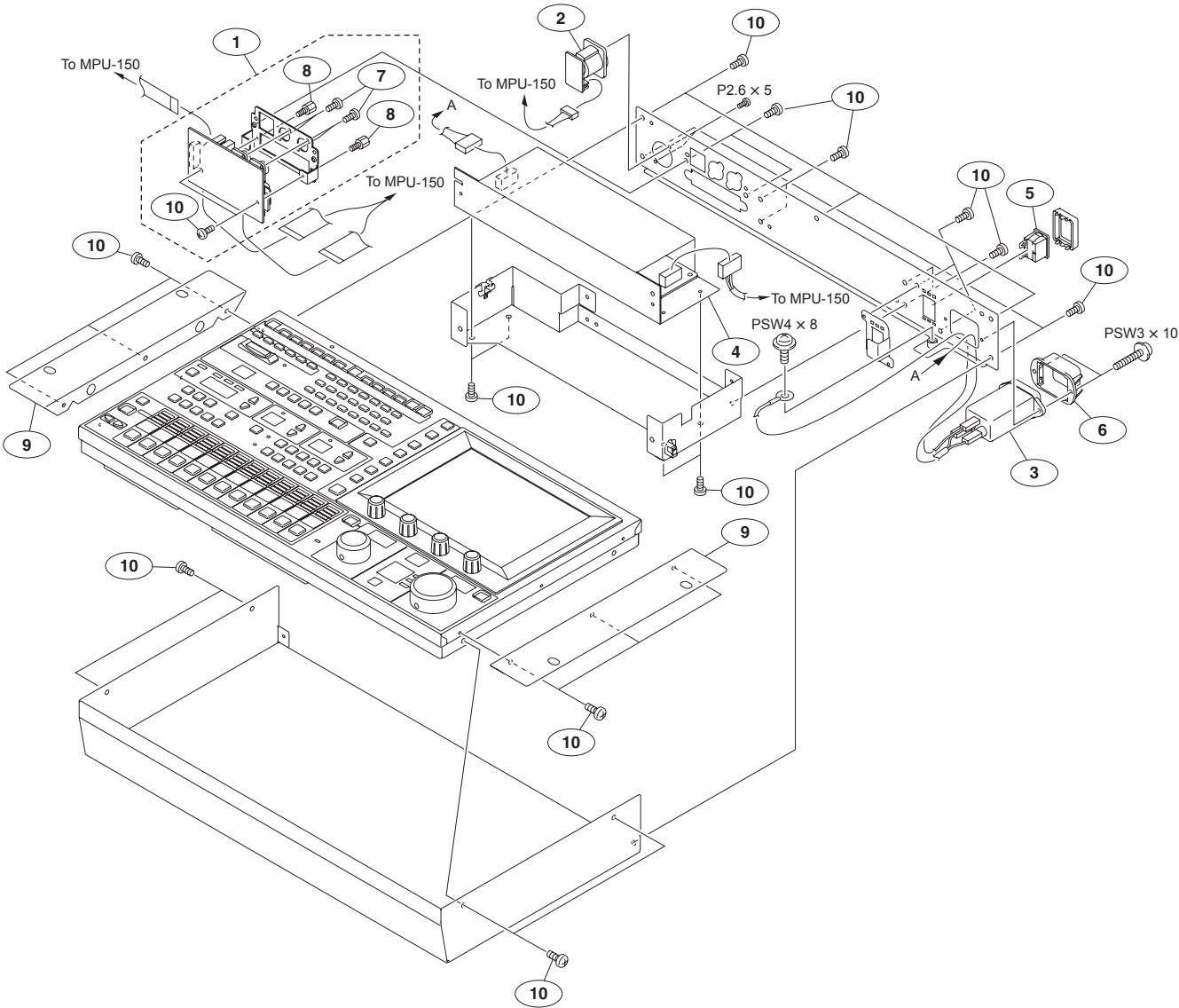
3. 部品の在庫

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

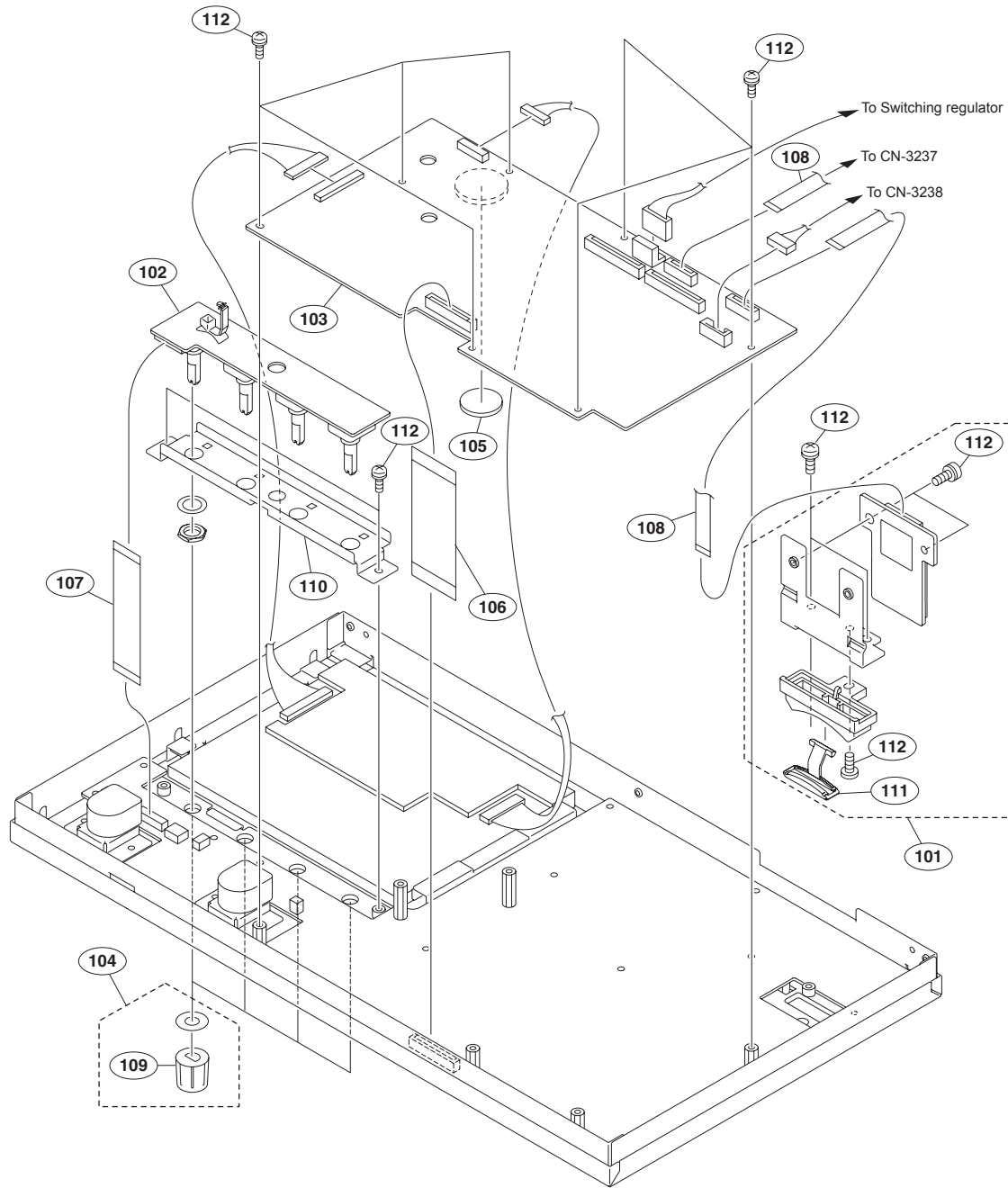
4. ハーネス

部品番号の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。

2-2. Exploded Views



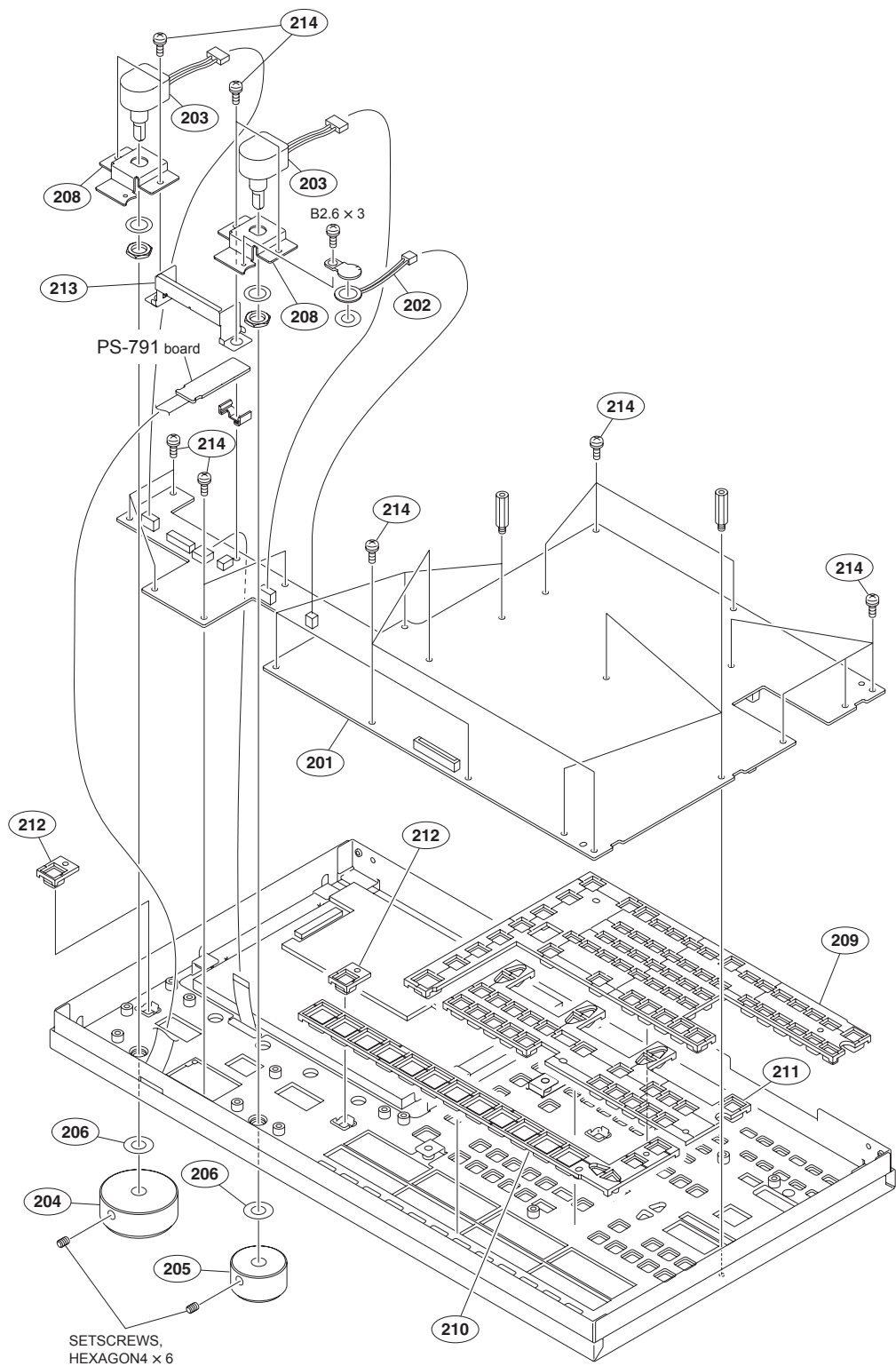
No.	Part No.	SP Description	No.	Part No.	SP Description
1	A-1748-485-A	s MOUNTED CIRCUIT BOARD, CN-3237	6	2-990-241-02	s HOLDER (A), PLUG
2	A-1748-486-A	s MOUNTED CIRCUIT BOARD, CN-3238	7	3-637-901-02	s SCREW M2.6X5
3	Δ 1-251-378-12	s INLET (WITH NOISE FILTER)	8	3-673-910-02	s SCREW, CONNECTOR
4	Δ 1-474-125-11	s REGULATOR, SWITCHING	9	4-170-005-01	s BRACKET,ANGLE (00)
5	Δ 1-771-182-11	s SWITCH, POWER	10	4-382-854-51	s SCREW (M3X6), P, SW (+)
				7-627-556-58	s SCREW +P 2.6X5
				7-682-949-01	s SCREW +PSW 3X10
				7-682-961-01	s SCREW +PSW 4X8



No.	Part No.	SP Description
101	A-1748-487-A s	MOUNTED CIRCUIT BOARD, CN-3242
102	A-1748-489-A s	MOUNTED CIRCUIT BOARD, VR-338
103	A-1748-540-A s	MOUNTED CIRCUIT BOARD, MPU-150
104	X-3167-051-1 s	KNOB ASSY, VOLUME
105	△ 1-528-174-71 s	BATTERY, LITHIUM (CR2032 TYPE)
106	1-831-022-11 s	CABLE, FLEXIBLE FLAT (30 CORE)
107	1-831-137-11 s	CABLE, FLEXIBLE FLAT (30 CORE)
108	1-835-364-11 s	CABLE, FLEXIBLE FLAT (12 CORE)
109	3-178-147-02 s	KNOB, VOLUME
110	4-169-686-02 s	PWB-BRACKET

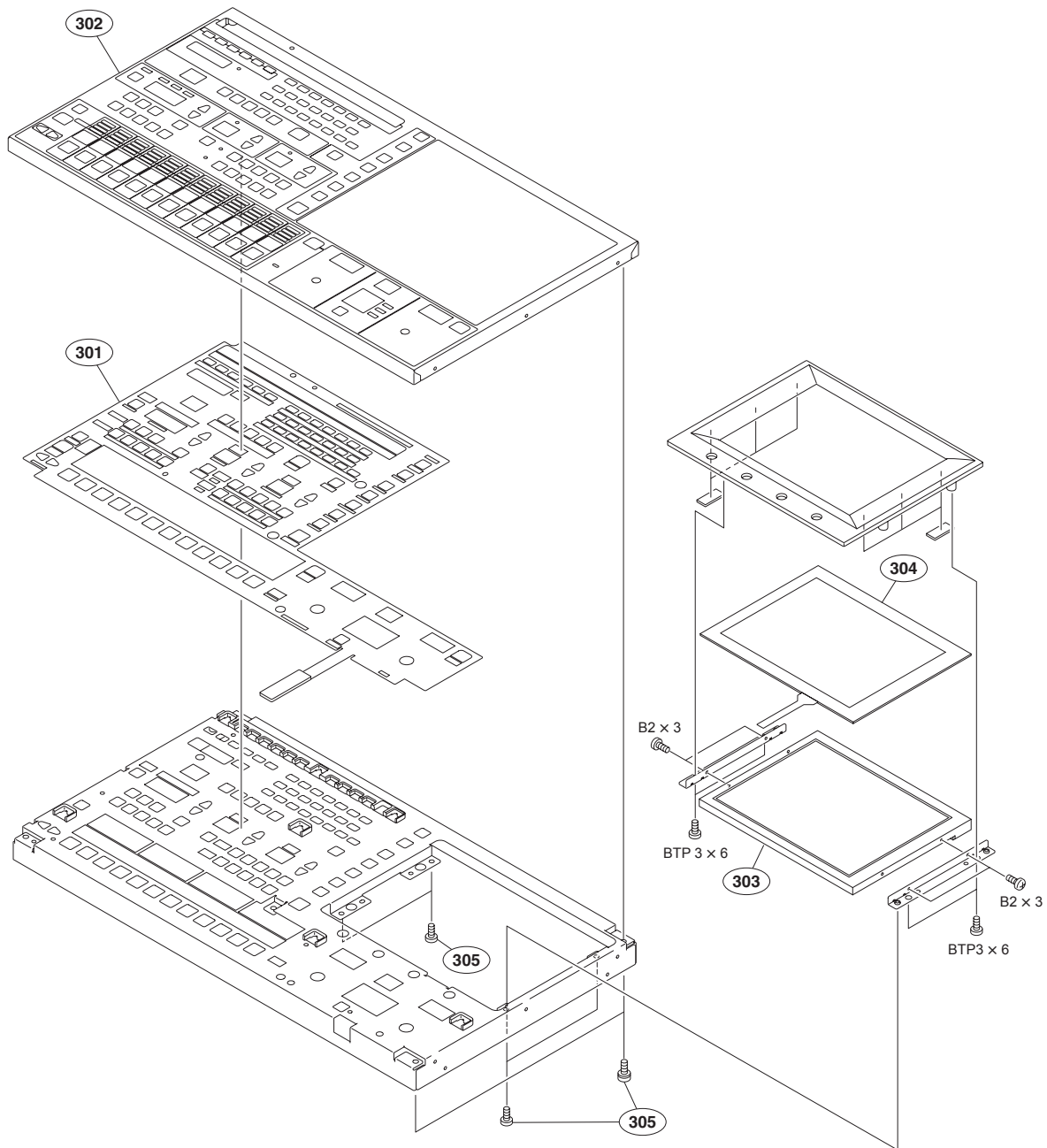
No.	Part No.	SP Description
111	4-169-755-01 s	MS-CAP
112	4-382-854-51 s	SCREW (M3X6), P, SW (+)
	7-621-775-08 s	SCREW +B 2.6X3

Board Block-2 (MSU-1000)



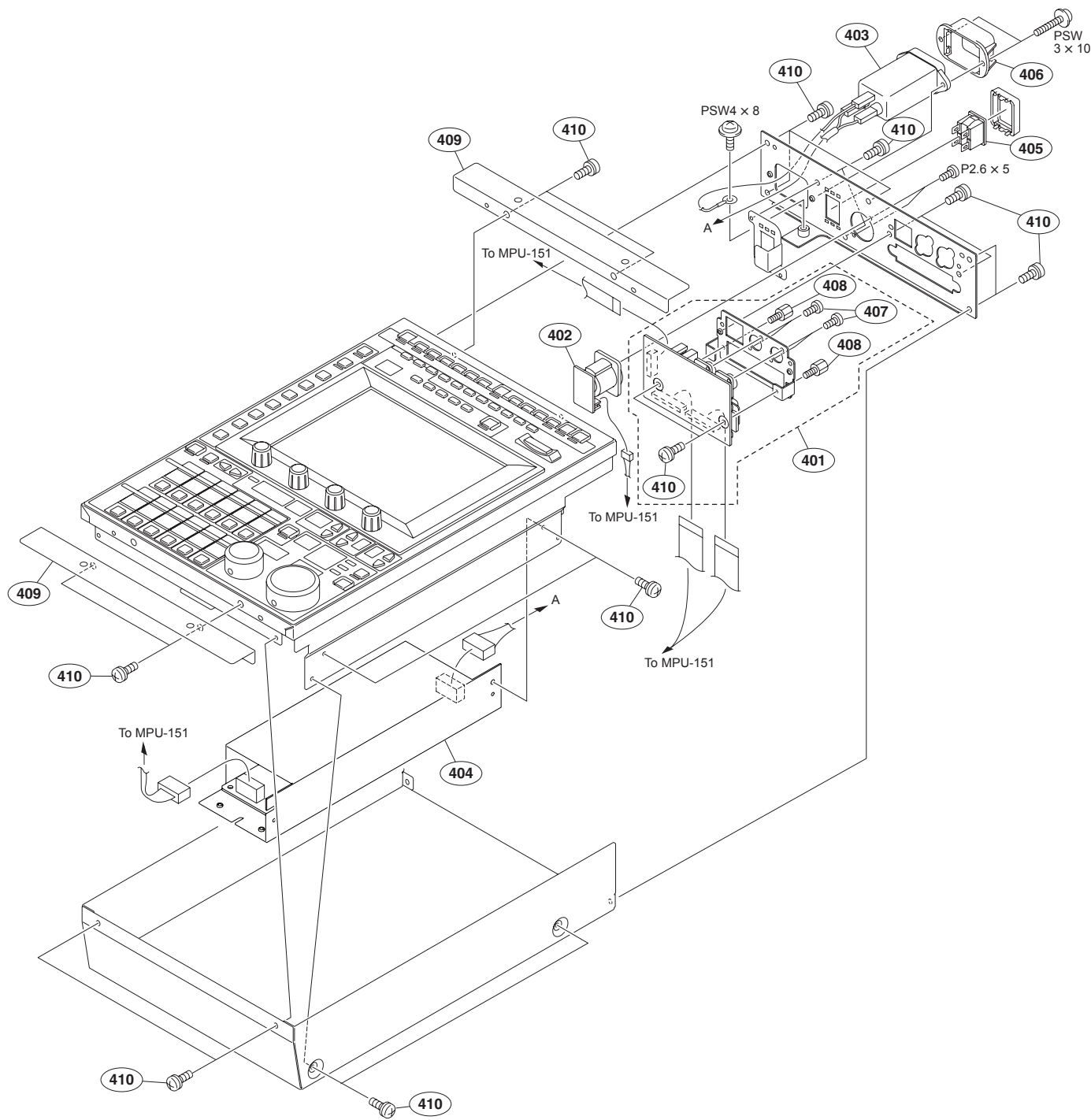
No.	Part No.	SP Description
201	A-1748-542-A	s MOUNTED CIRCUIT BOARD, SW-1455
202	A-1770-951-A	s SPEAKER (SHORT) ASSY
203	1-466-955-11	s ENCODER, ROTARY
204	3-681-390-02	o IRIS KNOB
205	3-681-391-02	o M.BLK KNOB
206	3-701-444-21	s WASHER, 6
207	4-169-672-01	s LED REFLECTOR (B)
208	4-169-685-02	s RE BRACKET (00)
209	4-169-688-02	s SW-SHEET (00-1)
210	4-169-689-02	s SW-SHEET (00-3)

No.	Part No.	SP Description
211	4-169-690-02	s SW-SHEET (00-2)
212	4-169-691-02	s SW-SHEET (00-4) (WHITE)
212	4-169-691-11	s SW-SHEET (00-4) (RED)
212	4-169-691-21	s SW-SHEET (00-4) (GREEN)
213	4-185-346-01	s PWB SUPPORT A
214	4-382-854-51	s SCREW (M3X6), P, SW (+)
	7-621-775-08	s SCREW +B 2.6X3
	7-683-247-08	s SC 4X6,HEXAGON SOCKET



No.	Part No.	SP Description
301	A-1753-999-A	s EL SHEET ASSY (00)
302	A-1754-000-A	s PANEL ASSY (00)
303	△ 1-811-079-11	s LCD MODULE (6.5 INCH)
304	1-811-082-11	s PANEL, TOUCH (6.5INCH)
305	4-382-854-51	s SCREW (M3X6), P, SW (+)
	7-621-772-08	s SCREW +B 2X3
	7-685-545-14	s SCREW +BTP 3X6 TYPE2 N-S

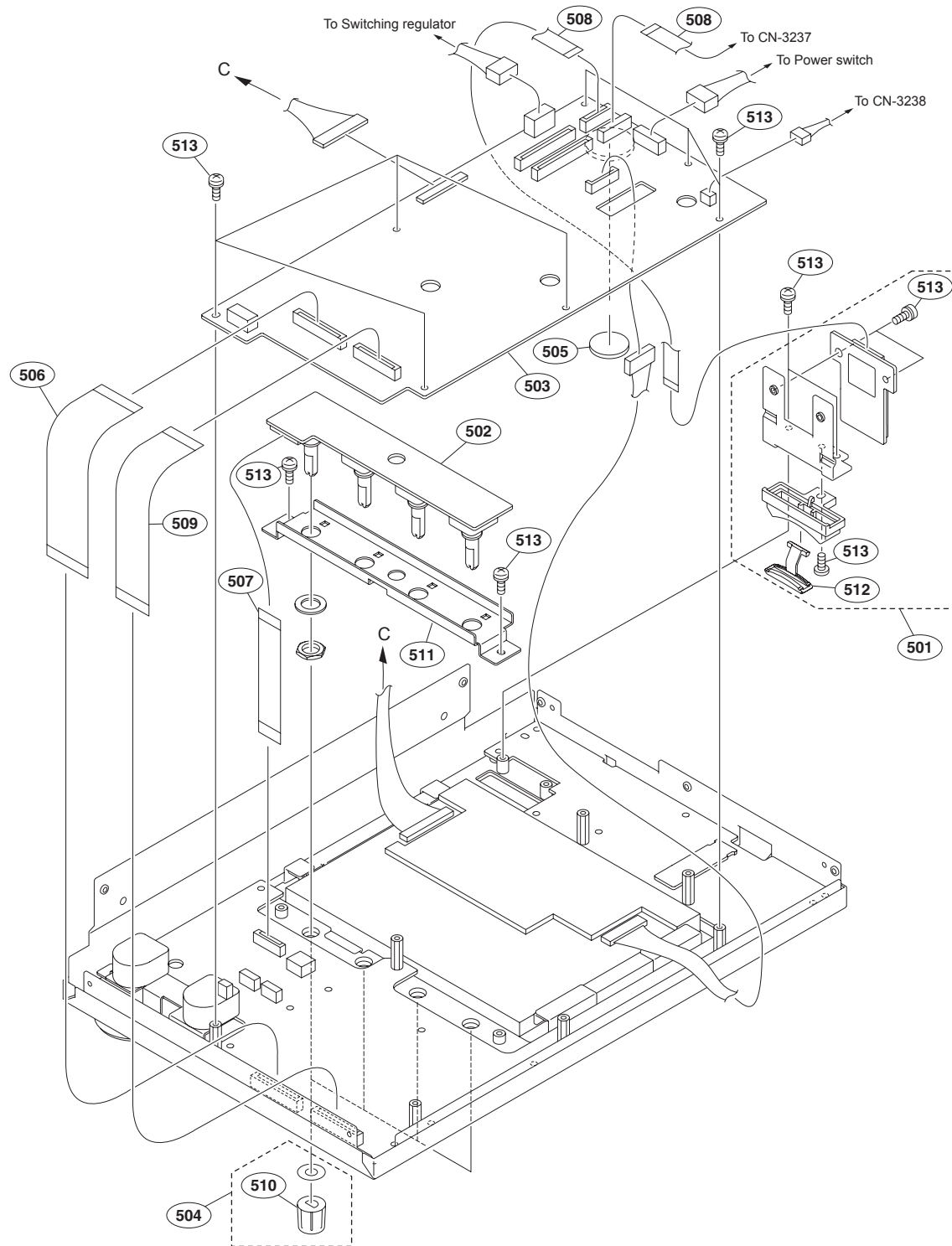
Rear Panel, Switching Regulator (MSU-1500)



No.	Part No.	SP Description
401	A-1748-485-A	s MOUNTED CIRCUIT BOARD, CN-3237
402	A-1748-486-A	s MOUNTED CIRCUIT BOARD, CN-3238
403	Δ 1-251-378-12	s INLET (WITH NOISE FILTER)
404	Δ 1-474-125-11	s REGULATOR, SWITCHING
405	Δ 1-771-182-11	s SWITCH, POWER

No.	Part No.	SP Description
406	2-990-241-02	s HOLDER (A), PLUG
407	3-637-901-02	s SCREW M2.6X5
408	3-673-910-02	s SCREW, CONNECTOR
409	4-170-006-01	s BRACKET,ANGLE (50)
410	4-382-854-51	s SCREW (M3X6), P, SW (+)

7-627-556-58	s SCREW +P 2.6X5
7-682-949-01	s SCREW +PSW 3X10
7-682-961-01	s SCREW +PSW 4X8

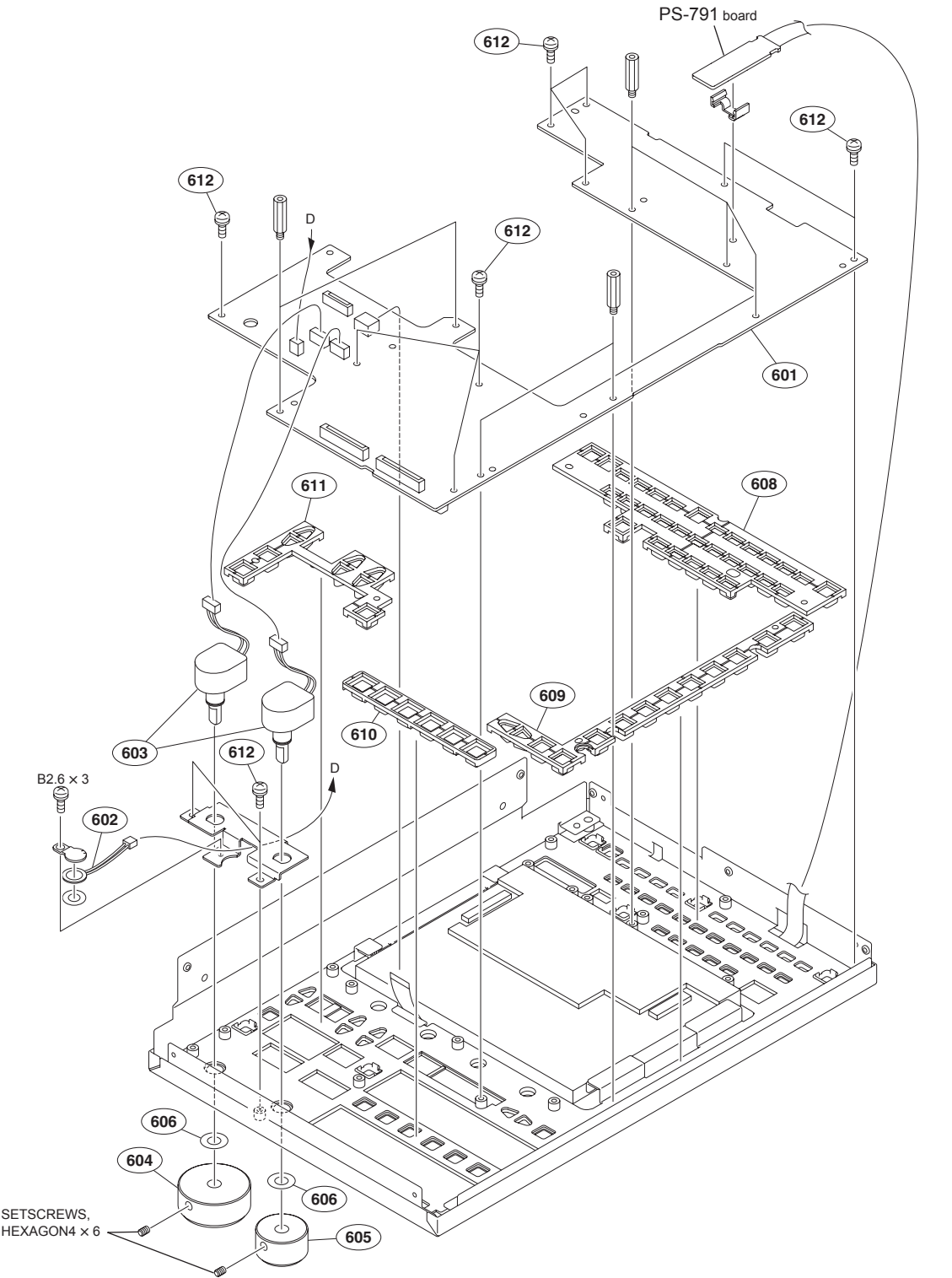


No.	Part No.	SP Description
501	A-1748-487-A s	MOUNTED CIRCUIT BOARD, CN-3242
502	A-1748-489-A s	MOUNTED CIRCUIT BOARD, VR-338
503	A-1748-541-A s	MOUNTED CIRCUIT BOARD, MPU-151
504	X-3167-051-1 s	KNOB ASSY, VOLUME
505	Δ 1-528-174-71 s	BATTERY, LITHIUM (CR2032 TYPE)

No.	Part No.	SP Description
506	1-831-023-11 s	CABLE, FLEXIBLE FLAT (30 CORE)
507	1-831-137-11 s	CABLE, FLEXIBLE FLAT (30 CORE)
508	1-835-364-11 s	CABLE, FLEXIBLE FLAT (12 CORE)
509	1-836-445-11 s	CABLE, FLEXIBLE FLAT (25 CORE)
510	3-178-147-02 s	KNOB, VOLUME
511	4-169-686-02 s	PWB-BRACKET
512	4-169-755-01 s	MS-CAP
513	4-382-854-51 s	SCREW (M3X6), P, SW (+)

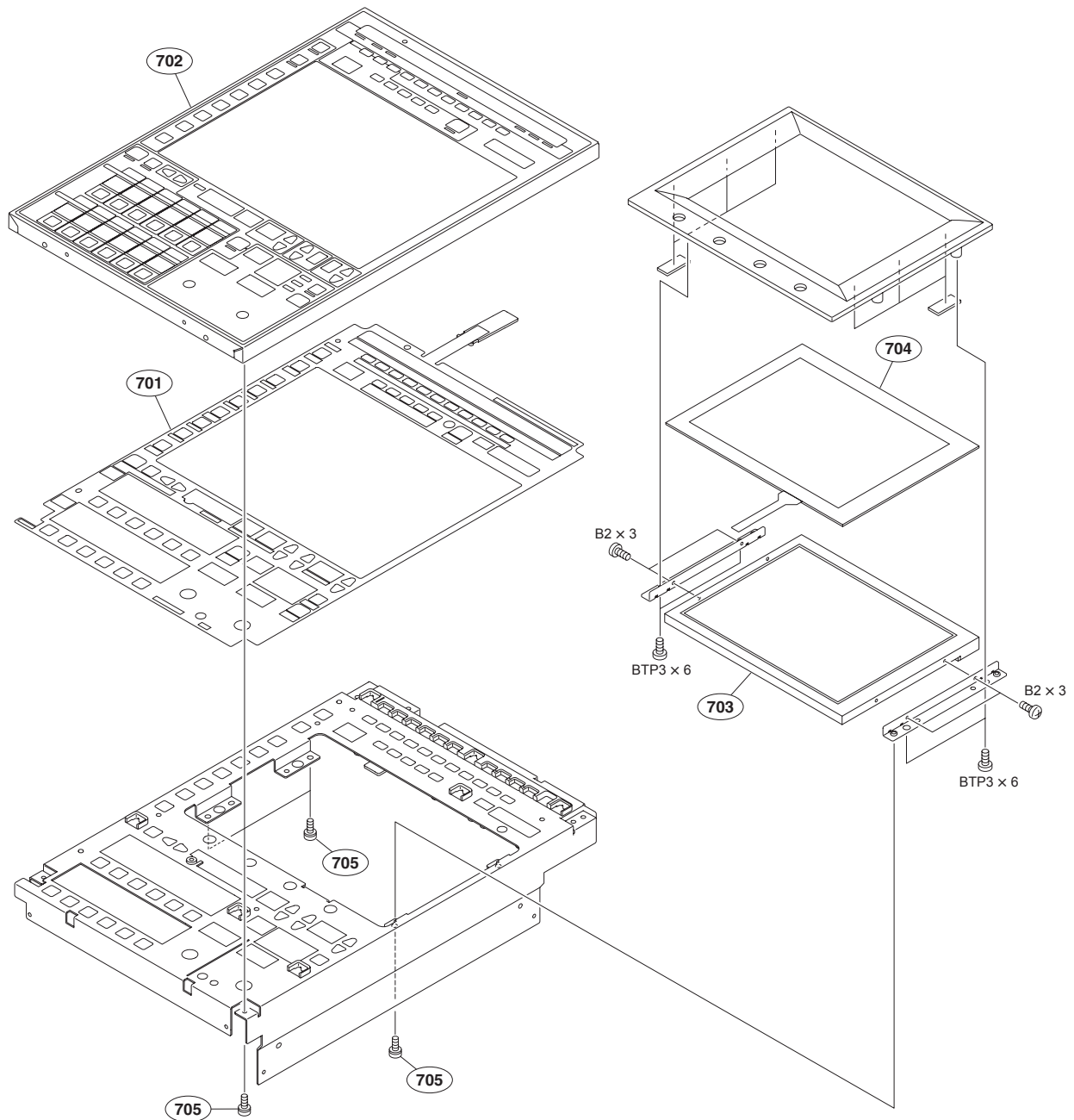
7-621-775-08 s SCREW +B 2.6X3

Board Block-2 (MSU-1500)



No.	Part No.	SP Description
601	A-1748-543-A	s MOUNTED CIRCUIT BOARD, SW-1456
602	A-1770-951-A	s SPEAKER (SHORT) ASSY
603	1-466-955-11	s ENCODER, ROTARY
604	3-681-390-02	o IRIS KNOB
605	3-681-391-02	o M.BLK KNOB

No.	Part No.	SP Description
606	3-701-444-21	s WASHER, 6
607	4-169-672-01	s LED REFLECTOR (B)
608	4-169-698-02	s SW-SHEET (50-1)
609	4-169-699-02	s SW-SHEET (50-2)
610	4-169-700-02	s SW-SHEET (50-3)
611	4-169-701-03	s SW-SHEET (50-4)
612	4-382-854-51	s SCREW (M3X6), P, SW (+)
	7-621-775-08	s SCREW +B 2.6X3
	7-683-247-08	s SC 4X6, HEXAGON SOCKET



No.	Part No.	SP Description
701	A-1754-001-A	s EL SHEET ASSY (50)
702	A-1754-002-A	s PANEL ASSY (50)
703	Δ 1-811-079-11	s LCD MODULE (6.5 INCH)
704	1-811-082-11	s PANEL, TOUCH (6.5INCH)
705	4-382-854-51	s SCREW (M3X6), P, SW (+)
	7-621-772-08	s SCREW +B 2X3
	7-685-545-14	s SCREW +BTP 3X6 TYPE2 N-S

2-3. Electrical Parts List

----- CN-3237 BOARD -----

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1748-485-A	s MOUNTED CIRCUIT BOARD, CN-3237
4pcs	3-637-901-02	s SCREW M2.6X5
2pcs	3-673-910-02	s SCREW, CONNECTOR
2pcs	4-382-854-51	s SCREW (M3X6), P, SW (+)
CN1	1-766-696-11	o CONNECTOR, ROUND TYPE 8P
CN2	1-766-696-11	o CONNECTOR, ROUND TYPE 8P
CN3	1-766-727-11	o SOCKET, D-SUB CONNECTOR 50P
CN4	1-766-431-51	s HOUSING, CONNECTOR 30P
CN5	1-766-431-51	s HOUSING, CONNECTOR 30P
CN6	1-770-297-51	s HOUSING, CONNECTOR 12P
CN7	1-819-681-11	s JACK, MODULAR
THP1	Δ 1-803-615-21	s THERMISTOR, POSITIVE
THP2	Δ 1-803-615-21	s THERMISTOR, POSITIVE

----- CN-3238 BOARD -----

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1748-486-A	s MOUNTED CIRCUIT BOARD, CN-3238
C1	1-119-869-91	s CAP, CHIP CERAMIC 10MF 3225
C2	1-119-869-91	s CAP, CHIP CERAMIC 10MF 3225
CN1	1-820-882-11	s CONNECTOR (RECEPTACLE), XLR
CN2	1-770-470-21	s PIN, CONNECTOR (PC BOARD) 6P
FB1	1-414-772-21	s FERRITE. EMI (SMD) (2012)
FB2	1-414-772-21	s FERRITE. EMI (SMD) (2012)
FB3	1-414-772-21	s FERRITE. EMI (SMD) (2012)
FB4	1-414-772-21	s FERRITE. EMI (SMD) (2012)
FB5	1-414-772-21	s FERRITE. EMI (SMD) (2012)
FB6	1-414-772-21	s FERRITE. EMI (SMD) (2012)

----- CN-3242 BOARD -----

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1748-487-A	s MOUNTED CIRCUIT BOARD, CN-3242
CN1	1-819-611-22	s MEMORY STICK DUO CONNECTOR 10P
CN2	1-766-767-51	s CONNECTOR, FPC 12P

----- MPU-150 BOARD for MSU-1000 -----

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1748-540-A	s MOUNTED CIRCUIT BOARD, MPU-150
BT1	1-756-076-21	s HOLDER, LITHIUM BATTERY
C1	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C2	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C3	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C4	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C5	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C6	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C7	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C8	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C9	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C10	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C11	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C12	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C13	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C14	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C15	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C16	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C17	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C18	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C19	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C20	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C21	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C22	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C23	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C24	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C25	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C26	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C27	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C28	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C29	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C30	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C31	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C32	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C33	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C34	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C35	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C36	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C37	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C38	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C39	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C40	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C41	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C42	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C43	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C44	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C45	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C46	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C47	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C48	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C49	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C50	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C51	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C52	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C53	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C54	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C55	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C56	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C57	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C58	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C59	1-100-159-91	s CAP,	CERAMIC 22MF B (SMD) 3216
C60	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C61	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C62	1-100-159-91	s CAP,	CERAMIC 22MF B (SMD) 3216
C63	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C64	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C65	1-112-298-91	o CAP,	CERAMIC 1MF B (1608)
C66	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C67	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C68	1-100-159-91	s CAP,	CERAMIC 22MF B (SMD) 3216
C69	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C70	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C71	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C72	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C75	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C200	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C201	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C203	1-100-880-91	s CAP,	CERAMIC 100MF C (3225)
C204	1-100-880-91	s CAP,	CERAMIC 100MF C (3225)
C205	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C206	1-100-881-91	s CAP,	CERAMIC 47MF C (3216)
C207	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C208	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C209	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C210	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C211	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C212	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C213	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C214	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C215	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C216	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C217	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C218	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C219	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C220	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C221	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C222	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C223	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C224	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C225	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C226	1-109-864-91	s CAP,	CHIP CERAMIC 68PF CH
C227	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C228	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C229	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C230	1-112-692-81	o CAP,CHIP	CERAMIC1000PF CH 1005
C231	1-164-668-91	s CAP,	CERAMIC 510PF CH (1608)
C232	1-100-881-91	s CAP,	CERAMIC 47MF C (3216)
C233	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C234	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C235	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C236	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C237	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C238	1-100-881-91	s CAP,	CERAMIC 47MF C (3216)
C239	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C240	1-100-881-91	s CAP,	CERAMIC 47MF C (3216)
C241	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C242	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C243	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C244	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C245	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C246	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C247	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C248	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C249	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C250	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C251	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C252	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C253	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C254	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C255	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C256	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C257	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C258	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C259	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C260	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C261	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C262	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C400	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C401	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C402	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C403	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C404	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C405	1-100-881-91	s CAP,	CERAMIC 47MF C (3216)
C406	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C407	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C408	1-100-881-91	s CAP,	CERAMIC 47MF C (3216)
C409	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C410	1-164-850-81	s CAP,	CHIP CERAMIC 10PF CH 1005
C411	1-164-850-81	s CAP,	CHIP CERAMIC 10PF CH 1005
C412	1-164-858-81	s CAP,	CHIP CERAMIC 22PF CH 1005
C413	1-164-858-81	s CAP,	CHIP CERAMIC 22PF CH 1005
C414	1-164-850-81	s CAP,	CHIP CERAMIC 10PF CH 1005
C415	1-164-850-81	s CAP,	CHIP CERAMIC 10PF CH 1005
C416	1-112-692-81	o CAP,CHIP	CERAMIC1000PF CH 1005
C417	1-128-590-21	s CAP,	CHIP ELECT 100MF
C418	1-112-692-81	o CAP,CHIP	CERAMIC1000PF CH 1005
C419	1-100-567-81	s CAP,CHIP	CERAMIC 0.01MF B 1005
C420	1-112-692-81	o CAP,CHIP	CERAMIC1000PF CH 1005
C421	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C422	1-164-937-81	s CAP,	CHIPCERAMIC 1000PF B 1005
C423	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C424	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C425	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C426	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C427	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C428	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C429	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C430	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C431	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C432	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C433	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C434	1-114-582-91	o CAP,	CERAMIC 0.1MF B 1005
C435	1-165-884-91	s CAP,	CERAMIC 2.2MF (1608)
C436	1-104-503-92	s CAP,	CERAMIC 100000PF X7R 3225
C437	1-104-503-92	s CAP,	CERAMIC 100000PF X7R 3225

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Ref. No. or Q'ty	Part No.	SP Description
C438	1-135-787-91 s	CAP, CHIP CERAMIC 1000PF
C500	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C501	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C502	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C503	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C504	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C505	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C506	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C507	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C508	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C509	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C510	1-116-107-11 s	CAP, ELECT 220MF 105
C511	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C512	1-162-970-91 s	CAP, CERAMIC 0.01MF B 1608
C513	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C514	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C515	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C516	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C517	1-163-021-91 s	CAP, CERAMIC 10000PF B (2012)
C518	1-163-021-91 s	CAP, CERAMIC 10000PF B (2012)
C519	1-128-590-21 s	CAP, CHIP ELECT 100MF
C520	1-163-021-91 s	CAP, CERAMIC 10000PF B (2012)
C521	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C522	1-163-021-91 s	CAP, CERAMIC 10000PF B (2012)
C523	1-163-021-91 s	CAP, CERAMIC 10000PF B (2012)
C524	1-163-021-91 s	CAP, CERAMIC 10000PF B (2012)
C525	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C526	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C527	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C528	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C529	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C530	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C531	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C532	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C533	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C534	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C535	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C536	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C537	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C538	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C539	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C540	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C541	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C542	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C543	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C544	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C545	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C546	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C547	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C548	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C549	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C550	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C551	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C552	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C553	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C554	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C555	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C556	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C557	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)

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Ref. No. or Q'ty	Part No.	SP Description
C558	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C559	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C560	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C561	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C562	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C563	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C564	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C565	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C566	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C567	1-126-404-21 s	CAP, CHIP ELECT 4.7MF (5X5.7)
C568	1-163-037-91 s	CAP, CERAMIC 22000PF B (2012)
C569	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C600	1-126-400-21 s	CAP, CHIP ELECT 22MF(6.3X5.7)
C601	1-126-400-21 s	CAP, CHIP ELECT 22MF(6.3X5.7)
C602	1-126-400-21 s	CAP, CHIP ELECT 22MF(6.3X5.7)
C603	1-165-629-91 s	CAP, CERAMIC 1000000PF B(3225)
C604	1-165-629-91 s	CAP, CERAMIC 1000000PF B(3225)
C605	1-165-629-91 s	CAP, CERAMIC 1000000PF B(3225)
C606	1-164-315-91 s	CAP, CERAMIC 470PF CH (1608)
C607	1-164-874-81 s	CAP,CHIP CERAMIC 100PF CH 1005
C608	1-115-339-91 s	CAP, CERAMIC 0.1MF B (2012)
C609	1-115-339-91 s	CAP, CERAMIC 0.1MF B (2012)
C610	1-114-238-91 s	CAP, CERAMIC 22MF B
C611	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C612	1-127-715-91 s	CAP,CHIP CERAMIC 0.22MF B 1608
C613	1-112-300-91 s	CAP, CERAMIC 4.7MF B (2012)
C614	1-164-882-81 s	CAP,CHIP CERAMIC 220PF CH 1005
C615	1-114-214-81 s	CAP,CHIP CERAMIC470PF CH1005
C616	1-114-238-91 s	CAP, CERAMIC 22MF B
C617	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C618	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C619	1-112-015-91 s	CAP, CHIP CERAMIC 47MF B 3225
C620	1-114-238-91 s	CAP, CERAMIC 22MF B
C621	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C622	1-116-107-11 s	CAP, ELECT 220MF 105
C623	1-116-107-11 s	CAP, ELECT 220MF 105
C624	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C625	1-112-015-91 s	CAP, CHIP CERAMIC 47MF B 3225
C626	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C627	1-114-238-91 s	CAP, CERAMIC 22MF B
C628	1-114-238-91 s	CAP, CERAMIC 22MF B
C629	1-165-629-91 s	CAP, CERAMIC 1000000PF B(3225)
C630	1-116-346-11 s	CAP, ELECT 47MF 105
C631	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C632	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C633	1-116-346-11 s	CAP, ELECT 47MF 105
C634	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C635	1-117-949-81 s	CAP, CHIP CERAMIC 820PF B1005
C636	1-114-238-91 s	CAP, CERAMIC 22MF B
C637	1-162-923-91 s	CAP, CERAMIC 47PF CH 1608
C638	1-100-567-81 s	CAP,CHIP CERAMIC 0.01MF B 1005
C639	1-112-692-81 o	CAP,CHIP CERAMIC1000PF CH 1005
C640	1-114-214-81 s	CAP,CHIP CERAMIC470PF CH1005
C641	1-112-692-81 o	CAP,CHIP CERAMIC1000PF CH 1005
C642	1-114-238-91 s	CAP, CERAMIC 22MF B
C643	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C644	1-112-015-91 s	CAP, CHIP CERAMIC 47MF B 3225
C645	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C646	1-164-882-81 s	CAP,CHIP CERAMIC 220PF CH 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C647	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C648	1-112-692-81	o	CAP,CHIP CERAMIC1000PF CH 1005
C649	1-116-100-11	s	CAP, ELECT 220MF 105
C650	1-114-238-91	s	CAP, CERAMIC 22MF B
C651	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C652	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C653	1-116-100-11	s	CAP, ELECT 220MF 105
C654	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C655	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C656	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C657	1-112-015-91	s	CAP, CHIP CERAMIC 47MF B 3225
C658	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C659	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C660	1-100-597-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C661	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C662	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C663	1-126-400-21	s	CAP, CHIP ELECT 22MF(6.3X5.7)
C664	1-165-629-91	s	CAP, CERAMIC 1000000PF B(3225)
C665	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C666	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C667	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C668	1-165-629-91	s	CAP, CERAMIC 1000000PF B(3225)
C669	1-126-400-21	s	CAP, CHIP ELECT 22MF(6.3X5.7)
C670	1-126-400-21	s	CAP, CHIP ELECT 22MF(6.3X5.7)
C671	1-115-339-91	s	CAP, CERAMIC 0.1MF B (2012)
C672	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C673	1-164-882-81	s	CAP,CHIP CERAMIC 220PF CH 1005
C674	1-164-874-81	s	CAP,CHIP CERAMIC 100PF CH 1005
C675	1-137-980-91	s	CAP,CHIP CERAMIC 0.47MF B 3216
C676	1-164-858-81	s	CAP, CHIP CERAMIC 22PF CH 1005
C677	1-116-346-11	s	CAP, ELECT 47MF 105
C679	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
C680	1-116-346-11	s	CAP, ELECT 47MF 105
C681	1-114-582-91	o	CAP, CERAMIC 0.1MF B 1005
CN1	1-766-431-51	s	HOUSING, CONNECTOR 30P
CN2	1-766-431-51	s	HOUSING, CONNECTOR 30P
CN3	1-770-297-51	s	HOUSING, CONNECTOR 12P
CN4	1-764-080-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN5	1-770-297-51	s	HOUSING, CONNECTOR 12P
CN6	1-785-427-11	o	CONNECTOR, BOARD TO WIRE 20P
CN7	1-695-890-21	o	PIN, CONNECTOR (PC BOARD) 12P
CN8	1-766-431-51	s	HOUSING, CONNECTOR 30P
CN9	1-580-838-11	o	PIN, CONNECTOR (PC BOARD) 4P
CN10	1-770-470-21	s	PIN, CONNECTOR (PC BOARD) 6P
CN11	1-770-469-21	s	PIN, CONNECTOR (PC BOARD) 2P
CN101	1-778-651-31	s	CONNECTOR, FFC/FPC(ZIF) ST 40P
D1	6-502-527-01	s	DI UDZSUSTE-172.2B
D3	8-719-070-20	s	DIODE RB706F-40
D4	8-719-024-81	s	DIODE 1SS300-TE85L
D5	8-719-069-28	s	DI 1SS400FJTE61
D400	6-502-197-01	s	DI SML-D12M8WT86SM
D401	6-502-197-01	s	DI SML-D12M8WT86SM
D500	6-501-123-01	s	DIODE RB160M-60TR
D501	6-502-197-01	s	DI SML-D12M8WT86SM
D502	6-502-197-01	s	DI SML-D12M8WT86SM
D600	8-719-991-01	s	DIODE DAP222-TL
D601	8-719-069-28	s	DI 1SS400FJTE61
D602	6-501-124-01	s	DIODE RSX101VA-30TR

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Ref. No. or Q'ty	Part No.	SP	Description
D603	8-719-072-43	s	DIODE RB050L-40TE25
D604	6-502-197-01	s	DI SML-D12M8WT86SM
D605	8-719-991-01	s	DIODE DAP222-TL
D606	8-719-083-52	s	DI UDZSUSTE-1716B
D607	8-719-072-83	s	DIODE MBRS340T3
E1	1-535-877-22	s	CHIP, CHECKER
E600	1-535-877-22	s	CHIP, CHECKER
E601	1-535-877-22	s	CHIP, CHECKER
E602	1-535-877-22	s	CHIP, CHECKER
E603	1-535-877-22	s	CHIP, CHECKER
E604	1-535-877-22	s	CHIP, CHECKER
E605	1-535-877-22	s	CHIP, CHECKER
FB600	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB601	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB602	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB603	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB604	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB605	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB606	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB607	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB608	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB609	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB610	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB611	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB612	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB613	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB614	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB615	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB616	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB617	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB618	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB619	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB620	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB621	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB622	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB623	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB624	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB625	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB626	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB627	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB628	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB629	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB630	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB631	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB632	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB633	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB634	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB635	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB636	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB637	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB638	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB639	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB640	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB641	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB642	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB643	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB644	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB645	1-414-864-21	s	FERRITE, EMI (SMD) (1608)

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Ref. No. or Q'ty	Part No.	SP Description
FB646	1-414-864-21 s	FERRITE, EMI (SMD) (1608)
FB647	1-414-864-21 s	FERRITE, EMI (SMD) (1608)
FB648	1-414-864-21 s	FERRITE, EMI (SMD) (1608)
IC1	6-703-461-11 s	IC CY2309ZXC-1HT
IC2	6-707-856-01 s	IC TC74LCX74FT (EKJ)
IC3	6-707-856-01 s	IC TC74LCX74FT (EKJ)
IC4	6-702-319-01 s	IC TC7WZ04FK (TE85R)
IC5	6-706-487-01 s	IC TC7SH08FU (T5RSOYJF)
IC6	8-759-648-04 s	IC RTC-4574JE
IC7	6-706-487-01 s	IC TC7SH08FU (T5RSOYJF)
IC9	6-702-879-01 s	IC R3112N281A-TR-FA
IC10	6-706-488-01 s	IC TC7SH14FU (T5RSOYJF)
IC11	6-710-018-01 s	IC CAT24C02WI-GT3
IC12	6-710-018-01 s	IC CAT24C02WI-GT3
IC13	6-706-487-01 s	IC TC7SH08FU (T5RSOYJF)
IC14	6-702-879-01 s	IC R3112N281A-TR-FA
IC17	8-759-592-44 s	IC TC7SZ04FU (TE85R)
IC19	8-759-592-44 s	IC TC7SZ04FU (TE85R)
IC20	6-706-483-01 s	IC TC7SH02FU (T5RSOYJF)
IC21	8-759-669-68 s	IC SN74CBT3253PWR-12
IC22	6-706-484-01 s	IC TC7SH04FU (T5RSOYJF)
IC23	6-706-484-01 s	IC TC7SH04FU (T5RSOYJF)
IC24	6-706-488-01 s	IC TC7SH14FU (T5RSOYJF)
IC26	6-707-849-01 s	IC TC74LCX244FT (EKJ)
IC27	6-707-849-01 s	IC TC74LCX244FT (EKJ)
IC28	6-707-849-01 s	IC TC74LCX244FT (EKJ)
IC29	6-707-849-01 s	IC TC74LCX244FT (EKJ)
IC30	6-707-947-01 s	IC MB85R256PFTN-G-BNDE1
IC31	6-707-947-01 s	IC MB85R256PFTN-G-BNDE1
IC32	8-759-584-32 s	IC MB86189PMC-G-BND-ER-E1
IC34	8-759-656-54 s	IC TC7WH14FK (TE85R)
IC200	6-600-060-01 s	IC TC7WZ32FK (TE85R)
IC201	8-759-592-44 s	IC TC7SZ04FU (TE85R)
IC202	6-706-841-01 s	IC EP1C6F256C6N (300)
IC203	6-710-509-01 s	IC YGV628B-VZ
IC204	6-705-721-01 s	IC MT48LC8M16A2P-75-Y15WTR
IC206	6-707-874-01 s	IC TC74VHC244FT (EKJ)
IC207	6-707-850-01 s	IC TC74LCX245FT (EKJ)
IC208	6-707-850-01 s	IC TC74LCX245FT (EKJ)
IC209	6-707-850-01 s	IC TC74LCX245FT (EKJ)
IC210	6-707-850-01 s	IC TC74LCX245FT (EKJ)
IC211	6-707-863-01 s	IC TC74VHC08FT (EKJ)
IC212	6-707-868-01 s	IC TC74VHC138FT (EKJ)
IC213	8-759-592-44 s	IC TC7SZ04FU (TE85R)
IC400	8-759-594-17 o	IC CXD9093R
IC401	6-705-039-01 s	IC 93LC46BT-I/SN
IC403	6-706-483-01 s	IC TC7SH02FU (T5RSOYJF)
IC404	8-759-592-44 s	IC TC7SZ04FU (TE85R)
IC405	8-759-092-83 s	IC SN75158PSR
IC406	8-759-592-44 s	IC TC7SZ04FU (TE85R)
IC407	6-706-476-01 s	IC TC7SET04FU (T5RSOJF)
IC408	6-706-476-01 s	IC TC7SET04FU (T5RSOJF)
IC412	6-706-487-01 s	IC TC7SH08FU (T5RSOYJF)
IC500	8-759-578-68 s	IC SN74LVCC4245APWR
IC501	8-759-578-68 s	IC SN74LVCC4245APWR
IC502	6-701-098-11 s	IC THC63LVD83R-T
IC503	6-715-110-01 s	IC LT3598EUF#TR
IC504	6-713-799-01 s	IC BU7122KV-E2

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Ref. No. or Q'ty	Part No.	SP Description
IC505	6-713-799-01 s	IC BU7122KV-E2
IC506	6-707-874-01 s	IC TC74VHC244FT (EKJ)
IC600	6-701-549-01 s	IC LTC1778EGN
IC601	6-706-879-01 s	IC TPS62020DRCR
IC602	6-706-879-01 s	IC TPS62020DRCR
IC603	6-706-879-01 s	IC TPS62020DRCR
IC604	6-713-169-01 s	IC LTC3412AEFE#TR
IC605	8-759-330-14 s	IC TL7700CPS-E20
IC606	6-715-080-01 s	IC LTC4357IMS8#TR
IC607	6-715-080-01 s	IC LTC4357IMS8#TR
IC608	6-712-232-01 s	IC LT3481EDD#TR
L2	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L3	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L4	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L5	1-416-344-21 s	COIL, CHOKE 10UH
L6	1-416-344-21 s	COIL, CHOKE 10UH
L8	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L9	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L10	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L11	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L12	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L200	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L201	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L202	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L203	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L204	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L205	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L400	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L401	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L402	1-414-398-41 s	INDUCTOR (SMD) 10.0UH
L403	1-414-396-41 s	INDUCTOR (SMD) 4.7UH
L404	1-414-396-41 s	INDUCTOR (SMD) 4.7UH
L500	1-469-529-21 s	INDUCTOR, (SMD) 10UH
L600	1-400-806-21 s	INDUCTOR (3.5UH)
L601	1-400-806-21 s	INDUCTOR (3.5UH)
L602	1-416-344-21 s	COIL, CHOKE 10UH
L603	1-416-344-21 s	COIL, CHOKE 10UH
L604	1-400-806-21 s	INDUCTOR (3.5UH)
L605	1-416-344-21 s	COIL, CHOKE 10UH
L606	1-400-806-21 s	INDUCTOR (3.5UH)
L607	1-416-344-21 s	COIL, CHOKE 10UH
L608	1-457-205-21 s	COIL, CHOKE (SMD) 3.3UH
L609	1-416-344-21 s	COIL, CHOKE 10UH
L610	1-416-344-21 s	COIL, CHOKE 10UH
L611	1-416-344-21 s	COIL, CHOKE 10UH
L612	1-416-344-21 s	COIL, CHOKE 10UH
L613	1-457-205-21 s	COIL, CHOKE (SMD) 3.3UH
L614	1-457-205-21 s	COIL, CHOKE (SMD) 3.3UH
L615	1-416-344-21 s	COIL, CHOKE 10UH
L616	1-416-344-21 s	COIL, CHOKE 10UH
L617	1-457-372-21 s	COIL, CHOKE 1UH
L618	1-416-948-21 s	COIL, CHOKE (SMD) 10UH
L619	1-457-372-21 s	COIL, CHOKE 1UH
PH400	8-749-014-35 s	IC HCPL-0630-500
PH401	8-749-014-35 s	IC HCPL-0630-500
Q1	8-729-928-05 s	TRANSISTOR 2SC4617TL-QR
Q2	8-729-928-25 s	TRANSISTOR 2SA1774TL-QR

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Ref. No. or Q'ty	Part No.	SP Description
Q4	8-729-209-73	s TRANSISTOR 2SA1213Y-TE12L
Q5	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
Q400	8-729-928-55	s TRANSISTOR DTA123JE-TL
Q401	8-729-928-55	s TRANSISTOR DTA123JE-TL
Q500	8-729-928-55	s TRANSISTOR DTA123JE-TL
Q501	8-729-928-55	s TRANSISTOR DTA123JE-TL
Q600	8-729-052-19	s TRANSISTOR FDS6680A
Q601	8-729-052-19	s TRANSISTOR FDS6680A
Q602	8-729-929-09	s TRANSISTOR DTC123JE-TL
Q603	8-729-052-19	s TRANSISTOR FDS6680A
Q604	8-729-052-19	s TRANSISTOR FDS6680A
Q605	8-729-928-91	s TRANSISTOR DTC114EE-TL
Q606	8-729-928-91	s TRANSISTOR DTC114EE-TL
Q607	6-551-380-01	s TRANSISTOR SI4425BDY-T1
R1	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7	1-218-990-81	s CONDUCTOR, CHIP (1005)
R8	1-218-990-81	s CONDUCTOR, CHIP (1005)
R9	1-218-990-81	s CONDUCTOR, CHIP (1005)
R10	1-218-990-81	s CONDUCTOR, CHIP (1005)
R11	1-218-990-81	s CONDUCTOR, CHIP (1005)
R12	1-218-990-81	s CONDUCTOR, CHIP (1005)
R13	1-220-878-81	s RES, CHIP 22 (1005)
R14	1-220-878-81	s RES, CHIP 22 (1005)
R15	1-208-887-81	s RES, CHIP 1.0K (1005)
R16	1-208-855-81	s RES, CHIP 47 (1005)
R17	1-208-855-81	s RES, CHIP 47 (1005)
R18	1-208-855-81	s RES, CHIP 47 (1005)
R19	1-208-855-81	s RES, CHIP 47 (1005)
R20	1-208-855-81	s RES, CHIP 47 (1005)
R21	1-208-879-81	s RES, CHIP 470 (1005)
R22	1-208-895-81	s RES, CHIP 2.2K (1005)
R23	1-208-935-81	s RES, CHIP 100K (1005)
R25	1-208-927-81	s RES, CHIP 47K (1005)
R26	1-208-911-81	s RES, CHIP 10K (1005)
R27	1-208-903-81	s RES, CHIP 4.7K (1005)
R28	1-208-887-81	s RES, CHIP 1.0K (1005)
R29	1-220-870-81	s RES, CHIP 10 (1005)
R30	1-208-911-81	s RES, CHIP 10K (1005)
R31	1-208-911-81	s RES, CHIP 10K (1005)
R32	1-208-863-81	s RES, CHIP 100 (1005)
R33	1-208-863-81	s RES, CHIP 100 (1005)
R34	1-208-863-81	s RES, CHIP 100 (1005)
R35	1-208-863-81	s RES, CHIP 100 (1005)
R36	1-208-911-81	s RES, CHIP 10K (1005)
R37	1-220-870-81	s RES, CHIP 10 (1005)
R38	1-208-911-81	s RES, CHIP 10K (1005)
R39	1-208-855-81	s RES, CHIP 47 (1005)
R40	1-208-911-81	s RES, CHIP 10K (1005)
R41	1-220-870-81	s RES, CHIP 10 (1005)
R42	1-220-870-81	s RES, CHIP 10 (1005)
R43	1-220-878-81	s RES, CHIP 22 (1005)
R44	1-220-878-81	s RES, CHIP 22 (1005)
R45	1-220-870-81	s RES, CHIP 10 (1005)
R46	1-208-911-81	s RES, CHIP 10K (1005)

(MPU-150 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP Description
R47	1-208-911-81	s RES, CHIP 10K (1005)
R48	1-208-935-81	s RES, CHIP 100K (1005)
R49	1-208-911-81	s RES, CHIP 10K (1005)
R50	1-208-935-81	s RES, CHIP 100K (1005)
R51	1-208-935-81	s RES, CHIP 100K (1005)
R52	1-208-935-81	s RES, CHIP 100K (1005)
R53	1-208-863-81	s RES, CHIP 100 (1005)
R54	1-208-863-81	s RES, CHIP 100 (1005)
R55	1-208-863-81	s RES, CHIP 100 (1005)
R56	1-208-863-81	s RES, CHIP 100 (1005)
R57	1-208-863-81	s RES, CHIP 100 (1005)
R58	1-208-935-81	s RES, CHIP 100K (1005)
R59	1-208-935-81	s RES, CHIP 100K (1005)
R60	1-218-990-81	s CONDUCTOR, CHIP (1005)
R61	1-218-990-81	s CONDUCTOR, CHIP (1005)
R62	1-218-990-81	s CONDUCTOR, CHIP (1005)
R63	1-218-990-81	s CONDUCTOR, CHIP (1005)
R64	1-208-935-81	s RES, CHIP 100K (1005)
R65	1-208-911-81	s RES, CHIP 10K (1005)
R66	1-208-911-81	s RES, CHIP 10K (1005)
R67	1-208-887-81	s RES, CHIP 1.0K (1005)
R68	1-208-903-81	s RES, CHIP 4.7K (1005)
R69	1-218-990-81	s CONDUCTOR, CHIP (1005)
R70	1-208-875-81	s RES, CHIP 330 (1005)
R71	1-208-899-81	s RES, CHIP 3.3K (1005)
R72	1-208-911-81	s RES, CHIP 10K (1005)
R73	1-208-911-81	s RES, CHIP 10K (1005)
R74	1-208-903-81	s RES, CHIP 4.7K (1005)
R75	1-208-935-81	s RES, CHIP 100K (1005)
R76	1-208-911-81	s RES, CHIP 10K (1005)
R77	1-208-935-81	s RES, CHIP 100K (1005)
R78	1-208-911-81	s RES, CHIP 10K (1005)
R79	1-220-870-81	s RES, CHIP 10 (1005)
R80	1-208-935-81	s RES, CHIP 100K (1005)
R81	1-208-903-81	s RES, CHIP 4.7K (1005)
R82	1-208-863-81	s RES, CHIP 100 (1005)
R83	1-208-863-81	s RES, CHIP 100 (1005)
R84	1-208-863-81	s RES, CHIP 100 (1005)
R85	1-208-935-81	s RES, CHIP 100K (1005)
R86	1-208-935-81	s RES, CHIP 100K (1005)
R87	1-208-935-81	s RES, CHIP 100K (1005)
R88	1-208-895-81	s RES, CHIP 2.2K (1005)
R89	1-208-911-81	s RES, CHIP 10K (1005)
R90	1-208-863-81	s RES, CHIP 100 (1005)
R91	1-208-863-81	s RES, CHIP 100 (1005)
R92	1-208-935-81	s RES, CHIP 100K (1005)
R93	1-208-919-81	s RES, CHIP 22K (1005)
R94	1-208-927-81	s RES, CHIP 47K (1005)
R95	1-208-927-81	s RES, CHIP 47K (1005)
R96	1-208-903-81	s RES, CHIP 4.7K (1005)
R97	1-208-899-81	s RES, CHIP 3.3K (1005)
R99	1-218-990-81	s CONDUCTOR, CHIP (1005)
R100	1-218-990-81	s CONDUCTOR, CHIP (1005)
R101	1-218-990-81	s CONDUCTOR, CHIP (1005)
R110	1-218-990-81	s CONDUCTOR, CHIP (1005)
R112	1-218-990-81	s CONDUCTOR, CHIP (1005)
R114	1-220-878-81	s RES, CHIP 22 (1005)
R115	1-220-878-81	s RES, CHIP 22 (1005)
R116	1-220-878-81	s RES, CHIP 22 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R237	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R238	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R239	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R240	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R241	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R242	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R243	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R244	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R245	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R246	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R247	1-220-878-81	s	RES, CHIP 22 (1005)
R248	1-220-878-81	s	RES, CHIP 22 (1005)
R249	1-220-878-81	s	RES, CHIP 22 (1005)
R250	1-220-878-81	s	RES, CHIP 22 (1005)
R251	1-220-878-81	s	RES, CHIP 22 (1005)
R252	1-220-878-81	s	RES, CHIP 22 (1005)
R253	1-220-878-81	s	RES, CHIP 22 (1005)
R254	1-220-878-81	s	RES, CHIP 22 (1005)
R255	1-220-878-81	s	RES, CHIP 22 (1005)
R256	1-220-878-81	s	RES, CHIP 22 (1005)
R257	1-220-878-81	s	RES, CHIP 22 (1005)
R258	1-220-878-81	s	RES, CHIP 22 (1005)
R259	1-220-878-81	s	RES, CHIP 22 (1005)
R260	1-220-878-81	s	RES, CHIP 22 (1005)
R261	1-220-878-81	s	RES, CHIP 22 (1005)
R262	1-220-878-81	s	RES, CHIP 22 (1005)
R263	1-220-878-81	s	RES, CHIP 22 (1005)
R264	1-220-878-81	s	RES, CHIP 22 (1005)
R265	1-220-878-81	s	RES, CHIP 22 (1005)
R266	1-220-878-81	s	RES, CHIP 22 (1005)
R267	1-220-878-81	s	RES, CHIP 22 (1005)
R268	1-220-878-81	s	RES, CHIP 22 (1005)
R269	1-220-878-81	s	RES, CHIP 22 (1005)
R270	1-220-878-81	s	RES, CHIP 22 (1005)
R271	1-220-878-81	s	RES, CHIP 22 (1005)
R272	1-220-878-81	s	RES, CHIP 22 (1005)
R273	1-220-878-81	s	RES, CHIP 22 (1005)
R274	1-220-878-81	s	RES, CHIP 22 (1005)
R275	1-220-878-81	s	RES, CHIP 22 (1005)
R276	1-220-878-81	s	RES, CHIP 22 (1005)
R277	1-220-878-81	s	RES, CHIP 22 (1005)
R278	1-220-878-81	s	RES, CHIP 22 (1005)
R279	1-220-878-81	s	RES, CHIP 22 (1005)
R280	1-220-878-81	s	RES, CHIP 22 (1005)
R281	1-220-878-81	s	RES, CHIP 22 (1005)
R282	1-220-878-81	s	RES, CHIP 22 (1005)
R283	1-220-878-81	s	RES, CHIP 22 (1005)
R284	1-220-878-81	s	RES, CHIP 22 (1005)
R285	1-220-878-81	s	RES, CHIP 22 (1005)
R286	1-220-878-81	s	RES, CHIP 22 (1005)
R287	1-220-878-81	s	RES, CHIP 22 (1005)
R288	1-220-878-81	s	RES, CHIP 22 (1005)
R289	1-220-878-81	s	RES, CHIP 22 (1005)
R290	1-220-878-81	s	RES, CHIP 22 (1005)
R291	1-220-878-81	s	RES, CHIP 22 (1005)
R292	1-220-878-81	s	RES, CHIP 22 (1005)
R293	1-220-878-81	s	RES, CHIP 22 (1005)
R294	1-220-878-81	s	RES, CHIP 22 (1005)
R295	1-220-878-81	s	RES, CHIP 22 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R296	1-220-878-81	s RES, CHIP 22 (1005)
R297	1-220-878-81	s RES, CHIP 22 (1005)
R298	1-220-878-81	s RES, CHIP 22 (1005)
R299	1-220-878-81	s RES, CHIP 22 (1005)
R300	1-220-878-81	s RES, CHIP 22 (1005)
R301	1-220-878-81	s RES, CHIP 22 (1005)
R302	1-220-878-81	s RES, CHIP 22 (1005)
R303	1-220-878-81	s RES, CHIP 22 (1005)
R304	1-220-878-81	s RES, CHIP 22 (1005)
R305	1-220-878-81	s RES, CHIP 22 (1005)
R306	1-220-878-81	s RES, CHIP 22 (1005)
R307	1-220-878-81	s RES, CHIP 22 (1005)
R308	1-220-878-81	s RES, CHIP 22 (1005)
R309	1-220-878-81	s RES, CHIP 22 (1005)
R310	1-220-878-81	s RES, CHIP 22 (1005)
R311	1-220-878-81	s RES, CHIP 22 (1005)
R312	1-218-990-81	s CONDUCTOR, CHIP (1005)
R313	1-208-911-81	s RES, CHIP 10K (1005)
R314	1-208-911-81	s RES, CHIP 10K (1005)
R315	1-208-911-81	s RES, CHIP 10K (1005)
R400	1-208-935-81	s RES, CHIP 100K (1005)
R402	1-220-870-81	s RES, CHIP 10 (1005)
R403	1-208-911-81	s RES, CHIP 10K (1005)
R404	1-218-990-81	s CONDUCTOR, CHIP (1005)
R405	1-208-911-81	s RES, CHIP 10K (1005)
R406	1-218-263-91	s RES, SQUARE TYPE CHIP 75(4532)
R407	1-208-911-81	s RES, CHIP 10K (1005)
R408	1-218-263-91	s RES, SQUARE TYPE CHIP 75(4532)
R409	1-208-895-81	s RES, CHIP 2.2K (1005)
R410	1-208-911-81	s RES, CHIP 10K (1005)
R411	1-208-911-81	s RES, CHIP 10K (1005)
R412	1-208-907-81	s RES, CHIP 6.8K (1005)
R413	1-208-907-81	s RES, CHIP 6.8K (1005)
R414	1-208-907-81	s RES, CHIP 6.8K (1005)
R415	1-208-907-81	s RES, CHIP 6.8K (1005)
R416	1-220-870-81	s RES, CHIP 10 (1005)
R417	1-220-870-81	s RES, CHIP 10 (1005)
R418	1-208-887-81	s RES, CHIP 1.0K (1005)
R419	1-208-867-81	s RES, CHIP 150 (1005)
R420	1-220-870-81	s RES, CHIP 10 (1005)
R421	1-220-870-81	s RES, CHIP 10 (1005)
R422	1-208-887-81	s RES, CHIP 1.0K (1005)
R423	1-208-867-81	s RES, CHIP 150 (1005)
R424	1-208-887-81	s RES, CHIP 1.0K (1005)
R425	1-208-887-81	s RES, CHIP 1.0K (1005)
R426	1-211-986-91	s RES, CHIP 51 (1608)
R427	1-211-986-91	s RES, CHIP 51 (1608)
R428	1-211-986-91	s RES, CHIP 51 (1608)
R429	1-211-986-91	s RES, CHIP 51 (1608)
R430	1-211-986-91	s RES, CHIP 51 (1608)
R431	1-211-986-91	s RES, CHIP 51 (1608)
R432	1-211-986-91	s RES, CHIP 51 (1608)
R433	1-211-986-91	s RES, CHIP 51 (1608)
R434	1-218-823-91	s RES, CHIP 100 (1608)
R435	1-218-823-91	s RES, CHIP 100 (1608)
R436	1-218-823-91	s RES, CHIP 100 (1608)
R437	1-218-823-91	s RES, CHIP 100 (1608)
R438	1-220-870-81	s RES, CHIP 10 (1005)
R439	1-208-911-81	s RES, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R440	1-220-870-81	s RES, CHIP 10 (1005)
R445	1-208-911-81	s RES, CHIP 10K (1005)
R446	1-220-870-81	s RES, CHIP 10 (1005)
R447	1-220-870-81	s RES, CHIP 10 (1005)
R448	1-220-878-81	s RES, CHIP 22 (1005)
R449	1-208-887-81	s RES, CHIP 1.0K (1005)
R450	1-208-911-81	s RES, CHIP 10K (1005)
R451	1-220-870-81	s RES, CHIP 10 (1005)
R452	1-208-911-81	s RES, CHIP 10K (1005)
R453	1-208-911-81	s RES, CHIP 10K (1005)
R454	1-208-911-81	s RES, CHIP 10K (1005)
R455	1-220-870-81	s RES, CHIP 10 (1005)
R456	1-220-870-81	s RES, CHIP 10 (1005)
R457	1-208-911-81	s RES, CHIP 10K (1005)
R458	1-208-911-81	s RES, CHIP 10K (1005)
R459	1-208-927-81	s RES, CHIP 47K (1005)
R460	1-220-870-81	s RES, CHIP 10 (1005)
R461	1-220-870-81	s RES, CHIP 10 (1005)
R462	1-220-870-81	s RES, CHIP 10 (1005)
R463	1-220-870-81	s RES, CHIP 10 (1005)
R464	1-220-870-81	s RES, CHIP 10 (1005)
R465	1-220-870-81	s RES, CHIP 10 (1005)
R466	1-220-870-81	s RES, CHIP 10 (1005)
R467	1-220-870-81	s RES, CHIP 10 (1005)
R468	1-220-870-81	s RES, CHIP 10 (1005)
R469	1-220-870-81	s RES, CHIP 10 (1005)
R470	1-220-870-81	s RES, CHIP 10 (1005)
R471	1-220-870-81	s RES, CHIP 10 (1005)
R472	1-220-870-81	s RES, CHIP 10 (1005)
R473	1-220-870-81	s RES, CHIP 10 (1005)
R474	1-220-870-81	s RES, CHIP 10 (1005)
R475	1-220-870-81	s RES, CHIP 10 (1005)
R476	1-220-870-81	s RES, CHIP 10 (1005)
R477	1-220-870-81	s RES, CHIP 10 (1005)
R478	1-220-870-81	s RES, CHIP 10 (1005)
R479	1-218-953-81	s RES, CHIP 1.0K
R480	1-218-953-81	s RES, CHIP 1.0K
R501	1-218-990-81	s CONDUCTOR, CHIP (1005)
R508	1-220-870-81	s RES, CHIP 10 (1005)
R510	1-218-887-91	s RES, CHIP 47K (1608)
R511	1-218-865-91	s RES, CHIP 5.6K (1608)
R512	1-218-847-91	s RES, CHIP 1.0K (1608)
R513	1-208-935-81	s RES, CHIP 100K (1005)
R514	1-208-935-81	s RES, CHIP 100K (1005)
R515	1-208-911-81	s RES, CHIP 10K (1005)
R516	1-218-873-91	s RES, CHIP 12K (1608)
R517	1-218-877-91	s RES, CHIP 18K (1608)
R518	1-218-851-91	s RES, CHIP 1.5K (1608)
R519	1-218-851-91	s RES, CHIP 1.5K (1608)
R520	1-218-871-91	s RES, CHIP 10K (1608)
R521	1-218-851-91	s RES, CHIP 1.5K (1608)
R522	1-220-800-91	s RES, CHIP 1.5M (1608)
R523	1-218-915-91	s RES, CHIP 680K (1608)
R524	1-218-893-91	s RES, CHIP 82K (1608)
R525	1-218-873-91	s RES, CHIP 12K (1608)
R526	1-218-849-91	s RES, CHIP 1.2K (1608)
R527	1-218-903-91	s RES, CHIP 220K (1608)
R529	1-218-823-91	s RES, CHIP 100 (1608)
R530	1-218-823-91	s RES, CHIP 100 (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R531	1-218-941-81 s	RES, CHIP 100
R532	1-208-887-81 s	RES, CHIP 1.0K (1005)
R533	1-208-887-81 s	RES, CHIP 1.0K (1005)
R535	1-208-927-81 s	RES, CHIP 47K (1005)
R536	1-208-863-81 s	RES, CHIP 100 (1005)
R600	1-218-941-81 s	RES, CHIP 100
R601	1-218-969-81 s	RES, CHIP 22K
R602	1-218-977-81 s	RES, CHIP 100K
R603	1-218-446-91 s	RES, CHIP 1 (1608)
R604	1-218-977-81 s	RES, CHIP 100K
R605	1-220-804-81 s	RES, CHIP 2.2M
R606	1-208-925-81 s	RES, CHIP 39K (1005)
R607	1-208-887-81 s	RES, CHIP 1.0K (1005)
R608	1-208-911-81 s	RES, CHIP 10K (1005)
R609	1-218-977-81 s	RES, CHIP 100K
R610	1-208-923-81 s	RES, CHIP 33K (1005)
R611	1-208-923-81 s	RES, CHIP 33K (1005)
R612	1-208-923-81 s	RES, CHIP 33K (1005)
R613	1-208-919-81 s	RES, CHIP 22K (1005)
R614	1-208-931-81 s	RES, CHIP 68K (1005)
R615	1-208-915-81 s	RES, CHIP 15K (1005)
R616	1-218-977-81 s	RES, CHIP 100K
R617	1-208-908-81 s	RES, CHIP 7.5K (1005)
R618	1-218-977-81 s	RES, CHIP 100K
R619	1-218-989-81 s	RES, CHIP 1M
R620	1-208-923-81 s	RES, CHIP 33K (1005)
R621	1-208-919-81 s	RES, CHIP 22K (1005)
R622	1-208-935-81 s	RES, CHIP 100K (1005)
R623	1-218-981-81 s	RES, CHIP 220K
R624	1-208-927-81 s	RES, CHIP 47K (1005)
R625	1-208-931-81 s	RES, CHIP 68K (1005)
R626	1-208-919-81 s	RES, CHIP 22K (1005)
R627	1-208-911-81 s	RES, CHIP 10K (1005)
R628	1-218-977-81 s	RES, CHIP 100K
R629	1-208-919-81 s	RES, CHIP 22K (1005)
R630	1-208-955-81 s	RES, CHIP 680K (1005)
R631	1-208-931-81 s	RES, CHIP 68K (1005)
R632	1-208-939-81 s	RES, CHIP 150K (1005)
R633	1-208-939-81 s	RES, CHIP 150K (1005)
R634	1-208-921-81 s	RES, CHIP 27K (1005)
R635	1-208-911-81 s	RES, CHIP 10K (1005)
R636	1-218-953-81 s	RES, CHIP 1.0K
R637	1-218-953-81 s	RES, CHIP 1.0K
R638	1-218-941-81 s	RES, CHIP 100
R639	1-218-941-81 s	RES, CHIP 100
R640	1-218-965-81 s	RES, CHIP 10K 1005
R641	1-218-965-81 s	RES, CHIP 10K 1005
R642	1-218-965-81 s	RES, CHIP 10K 1005
R643	1-218-961-81 s	RES, CHIP 4.7K
R644	1-208-931-81 s	RES, CHIP 68K (1005)
R645	1-208-933-81 s	RES, CHIP 82K (1005)
R646	1-208-943-81 s	RES, CHIP 220K (1005)
R647	1-208-943-81 s	RES, CHIP 220K (1005)
RB1	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB2	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB3	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB4	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB5	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)

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Ref. No. or Q'ty	Part No.	SP Description
RB6	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB7	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB8	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB9	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB10	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB11	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB12	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB13	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB14	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB15	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB16	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB17	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB18	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB19	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB20	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB21	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB22	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB23	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB24	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB25	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB26	1-233-414-21 s	RES, CHIP NETWORK 4.7K (3216)
RB200	1-233-412-21 s	RES, CHIP NETWORK 1.0K (3216)
RB201	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB202	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB203	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB204	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB205	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB206	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB207	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB208	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB209	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB210	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB211	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB212	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB213	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB214	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB215	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB216	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB217	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB400	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB401	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB500	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB501	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB502	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB503	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB504	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB505	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB506	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB507	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB508	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB509	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB510	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB511	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB512	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB513	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB514	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB515	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB516	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB517	1-234-380-21 s	RES, NETWORK 47K (1005X4)

(MPU-150 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP Description
RB518	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB519	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB520	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB521	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB522	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB523	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB525	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB527	1-234-380-21	s RES, NETWORK 47K (1005X4)
S1	1-771-709-41	s SWITCH, SLIDE
S2	1-572-921-21	s SWITCH, KEY BOARD
S101	1-692-270-41	s SWITCH, SLIDE
T400	1-437-527-41	s TRANSFORMER, PULSE
THP1	Δ 1-771-845-21	s THERMISTOR, POSITIVE
X1	1-814-011-11	s OSCILLATOR, CRYSTAL (33.1776MHZ)
X400	1-795-984-11	s OSCILLATOR, CRYSTAL
X401	1-795-983-11	s OSCILLATOR, CRYSTAL

MPU-151 BOARD for MSU-1500

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1748-541-A	s MOUNTED CIRCUIT BOARD, MPU-151
BT1	1-756-076-21	s HOLDER, LITHIUM BATTERY
C1	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C2	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C3	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C4	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C5	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C6	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C7	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C8	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C9	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C10	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C11	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C12	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C13	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C14	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C15	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C16	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C17	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C18	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C19	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C20	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C21	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C22	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C23	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C24	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C25	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
C26	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
C27	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C28	1-112-692-81	o CAP, CHIP CERAMIC 1000PF CH 1005
C29	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C30	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C31	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C32	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C33	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C34	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C35	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C36	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C37	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C38	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C39	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C40	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C41	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C42	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C43	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C44	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C45	1-112-692-81	o CAP, CHIP CERAMIC 1000PF CH 1005
C46	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C47	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C48	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C49	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C50	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C51	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C52	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C53	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C54	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C55	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP Description
C56	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C57	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C58	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C59	1-100-159-91 s	CAP, CERAMIC 22MF B (SMD) 3216
C60	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C61	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C62	1-100-159-91 s	CAP, CERAMIC 22MF B (SMD) 3216
C63	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C64	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C65	1-112-298-91 o	CAP, CERAMIC 1MF B (1608)
C66	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C67	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C68	1-100-159-91 s	CAP, CERAMIC 22MF B (SMD) 3216
C69	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C70	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C71	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C72	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C75	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C200	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C201	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C203	1-100-880-91 s	CAP, CERAMIC 100MF C (3225)
C204	1-100-880-91 s	CAP, CERAMIC 100MF C (3225)
C205	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C206	1-100-881-91 s	CAP, CERAMIC 47MF C (3216)
C207	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C208	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C209	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C210	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C211	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C212	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C213	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C214	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C215	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C216	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C217	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C218	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C219	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C220	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C221	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C222	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C223	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C224	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C225	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C226	1-109-864-91 s	CAP, CHIP CERAMIC 68PF CH
C227	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C228	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C229	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C230	1-112-692-81 o	CAP,CHIP CERAMIC1000PF CH 1005
C231	1-164-668-91 s	CAP, CERAMIC 510PF CH (1608)
C232	1-100-881-91 s	CAP, CERAMIC 47MF C (3216)
C233	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C234	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C235	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C236	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C237	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C238	1-100-881-91 s	CAP, CERAMIC 47MF C (3216)
C239	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C240	1-100-881-91 s	CAP, CERAMIC 47MF C (3216)
C241	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005

(MPU-151 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
C242	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C243	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C244	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C245	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C246	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C247	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C248	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C249	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C250	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C251	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C252	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C253	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C254	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C255	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C256	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C257	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C258	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C259	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C260	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C261	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C262	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C400	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C401	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C402	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C403	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C404	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C405	1-100-881-91 s	CAP, CERAMIC 47MF C (3216)
C406	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C407	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C408	1-100-881-91 s	CAP, CERAMIC 47MF C (3216)
C409	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C410	1-164-850-81 s	CAP, CHIP CERAMIC 10PF CH 1005
C411	1-164-850-81 s	CAP, CHIP CERAMIC 10PF CH 1005
C412	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C413	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C414	1-164-850-81 s	CAP, CHIP CERAMIC 10PF CH 1005
C415	1-164-850-81 s	CAP, CHIP CERAMIC 10PF CH 1005
C416	1-112-692-81 o	CAP,CHIP CERAMIC1000PF CH 1005
C417	1-128-590-21 s	CAP, CHIP ELECT 100MF
C418	1-112-692-81 o	CAP,CHIP CERAMIC1000PF CH 1005
C419	1-100-567-81 s	CAP,CHIP CERAMIC 0.01MF B 1005
C420	1-112-692-81 o	CAP,CHIP CERAMIC1000PF CH 1005
C421	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C422	1-164-937-81 s	CAP, CHIP CERAMIC 1000PF B 1005
C423	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C424	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C425	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C426	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C427	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C428	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C429	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C430	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C431	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C432	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C433	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C434	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C435	1-165-884-91 s	CAP, CERAMIC 2.2MF (1608)
C436	1-104-503-92 s	CAP, CERAMIC 100000PF X7R 3225
C437	1-104-503-92 s	CAP, CERAMIC 100000PF X7R 3225

(MPU-151 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
C438	1-135-787-91	s CAP, CHIP CERAMIC 1000PF
C500	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C501	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C502	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C503	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C504	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C505	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C506	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C507	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C508	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C509	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C510	1-116-107-11	s CAP, ELECT 220MF 105
C511	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C512	1-162-970-91	s CAP, CERAMIC 0.01MF B 1608
C513	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C514	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C515	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C516	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C517	1-163-021-91	s CAP, CERAMIC 10000PF B (2012)
C518	1-163-021-91	s CAP, CERAMIC 10000PF B (2012)
C519	1-128-590-21	s CAP, CHIP ELECT 100MF
C520	1-163-021-91	s CAP, CERAMIC 10000PF B (2012)
C521	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C522	1-163-021-91	s CAP, CERAMIC 10000PF B (2012)
C523	1-163-021-91	s CAP, CERAMIC 10000PF B (2012)
C524	1-163-021-91	s CAP, CERAMIC 10000PF B (2012)
C525	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C526	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C527	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C528	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C529	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C530	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C531	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C532	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C533	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C534	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C535	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C536	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C537	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C538	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C539	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C540	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C541	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C542	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C543	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C544	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C545	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C546	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C547	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C548	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C549	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C550	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C551	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C552	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C553	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C554	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C555	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C556	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C557	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)

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Ref. No. or Q'ty	Part No.	SP Description
C558	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C559	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C560	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C561	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C562	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C563	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C564	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C565	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C566	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C567	1-126-404-21	s CAP, CHIP ELECT 4.7MF (5X5.7)
C568	1-163-037-91	s CAP, CERAMIC 22000PF B (2012)
C569	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C600	1-126-400-21	s CAP, CHIP ELECT 22MF(6.3X5.7)
C601	1-126-400-21	s CAP, CHIP ELECT 22MF(6.3X5.7)
C602	1-126-400-21	s CAP, CHIP ELECT 22MF(6.3X5.7)
C603	1-165-629-91	s CAP, CERAMIC 1000000PF B(3225)
C604	1-165-629-91	s CAP, CERAMIC 1000000PF B(3225)
C605	1-165-629-91	s CAP, CERAMIC 1000000PF B(3225)
C606	1-164-315-91	s CAP, CERAMIC 470PF CH (1608)
C607	1-164-874-81	s CAP,CHIP CERAMIC 100PF CH 1005
C608	1-115-339-91	s CAP, CERAMIC 0.1MF B (2012)
C609	1-115-339-91	s CAP, CERAMIC 0.1MF B (2012)
C610	1-114-238-91	s CAP, CERAMIC 22MF B
C611	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C612	1-127-715-91	s CAP,CHIP CERAMIC 0.22MF B 1608
C613	1-112-300-91	s CAP, CERAMIC 4.7MF B (2012)
C614	1-164-882-81	s CAP,CHIP CERAMIC 220PF CH 1005
C615	1-114-214-81	s CAP,CHIP CERAMIC470PF CH1005
C616	1-114-238-91	s CAP, CERAMIC 22MF B
C617	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C618	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C619	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C620	1-114-238-91	s CAP, CERAMIC 22MF B
C621	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C622	1-116-107-11	s CAP, ELECT 220MF 105
C623	1-116-107-11	s CAP, ELECT 220MF 105
C624	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C625	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C626	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C627	1-114-238-91	s CAP, CERAMIC 22MF B
C628	1-114-238-91	s CAP, CERAMIC 22MF B
C629	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C630	1-116-346-11	s CAP, ELECT 47MF 105
C631	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C632	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C633	1-116-346-11	s CAP, ELECT 47MF 105
C634	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C635	1-117-949-81	s CAP, CHIP CERAMIC 820PF B1005
C636	1-114-238-91	s CAP, CERAMIC 22MF B
C637	1-162-923-91	s CAP, CERAMIC 47PF CH 1608
C638	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C639	1-165-629-91	s CAP, CERAMIC 1000000PF B(3225)
C640	1-114-214-81	s CAP,CHIP CERAMIC470PF CH1005
C641	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C642	1-114-238-91	s CAP, CERAMIC 22MF B
C643	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C644	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C645	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C646	1-164-882-81	s CAP,CHIP CERAMIC 220PF CH 1005

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Ref. No. or Q'ty	Part No.	SP Description
C647	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C648	1-112-692-81 o	CAP,CHIP CERAMIC1000PF CH 1005
C649	1-116-100-11 s	CAP, ELECT 220MF 105
C650	1-114-238-91 s	CAP, CERAMIC 22MF B
C651	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C652	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C653	1-116-100-11 s	CAP, ELECT 220MF 105
C654	1-112-015-91 s	CAP, CHIP CERAMIC 47MF B 3225
C655	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C656	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C657	1-112-015-91 s	CAP, CHIP CERAMIC 47MF B 3225
C658	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C659	1-115-339-91 s	CAP, CERAMIC 0.1MF B (2012)
C660	1-100-597-91 s	CAP, CHIP CERAMIC 0.1MF B 1608
C661	1-115-339-91 s	CAP, CERAMIC 0.1MF B (2012)
C662	1-115-339-91 s	CAP, CERAMIC 0.1MF B (2012)
C663	1-112-300-91 s	CAP, CERAMIC 4.7MF B (2012)
C664	1-116-346-11 s	CAP, ELECT 47MF 105
C665	1-114-238-91 s	CAP, CERAMIC 22MF B
C666	1-116-346-11 s	CAP, ELECT 47MF 105
C667	1-114-238-91 s	CAP, CERAMIC 22MF B
C668	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C669	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C670	1-117-949-81 s	CAP, CHIP CERAMIC 820PF B1005
C671	1-114-238-91 s	CAP, CERAMIC 22MF B
C672	1-162-923-91 s	CAP, CERAMIC 47PF CH 1608
C673	1-100-567-81 s	CAP,CHIP CERAMIC 0.01MF B 1005
C674	1-100-159-91 s	CAP, CERAMIC 22MF B (SMD) 3216
C675	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C676	1-112-692-81 o	CAP,CHIP CERAMIC1000PF CH 1005
C677	1-100-159-91 s	CAP, CERAMIC 22MF B (SMD) 3216
C678	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C679	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C680	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C681	1-116-100-11 s	CAP, ELECT 220MF 105
C682	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C683	1-114-238-91 s	CAP, CERAMIC 22MF B
C684	1-114-238-91 s	CAP, CERAMIC 22MF B
C685	1-116-100-11 s	CAP, ELECT 220MF 105
C686	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C687	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C688	1-112-015-91 s	CAP, CHIP CERAMIC 47MF B 3225
C689	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C690	1-112-300-91 s	CAP, CERAMIC 4.7MF B (2012)
C691	1-100-159-91 s	CAP, CERAMIC 22MF B (SMD) 3216
C692	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C693	1-100-159-91 s	CAP, CERAMIC 22MF B (SMD) 3216
C694	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C695	1-114-238-91 s	CAP, CERAMIC 22MF B
C696	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C697	1-164-882-81 s	CAP,CHIP CERAMIC 220PF CH 1005
C698	1-114-214-81 s	CAP,CHIP CERAMIC470PF CH1005
C699	1-114-238-91 s	CAP, CERAMIC 22MF B
C700	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C701	1-112-015-91 s	CAP, CHIP CERAMIC 47MF B 3225
C702	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C703	1-126-400-21 s	CAP, CHIP ELECT 22MF(6.3X5.7)
C704	1-165-629-91 s	CAP, CERAMIC 1000000PF B(3225)
C705	1-115-339-91 s	CAP, CERAMIC 0.1MF B (2012)

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Ref. No. or Q'ty	Part No.	SP Description
C706	1-115-339-91 s	CAP, CERAMIC 0.1MF B (2012)
C707	1-115-339-91 s	CAP, CERAMIC 0.1MF B (2012)
C708	1-165-629-91 s	CAP, CERAMIC 1000000PF B(3225)
C709	1-126-400-21 s	CAP, CHIP ELECT 22MF(6.3X5.7)
C710	1-126-400-21 s	CAP, CHIP ELECT 22MF(6.3X5.7)
C711	1-115-339-91 s	CAP, CERAMIC 0.1MF B (2012)
C712	1-164-874-81 s	CAP,CHIP CERAMIC 100PF CH 1005
C713	1-164-882-81 s	CAP,CHIP CERAMIC 220PF CH 1005
C714	1-164-874-81 s	CAP,CHIP CERAMIC 100PF CH 1005
C715	1-137-980-91 s	CAP,CHIP CERAMIC 0.47MF B 3216
C716	1-164-858-81 s	CAP, CHIP CERAMIC 22PF CH 1005
C717	1-116-346-11 s	CAP, ELECT 47MF 105
C719	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
C720	1-116-346-11 s	CAP, ELECT 47MF 105
C721	1-114-582-91 o	CAP, CERAMIC 0.1MF B 1005
CN1	1-766-431-51 s	HOUSING, CONNECTOR 30P
CN2	1-766-431-51 s	HOUSING, CONNECTOR 30P
CN3	1-770-297-51 s	HOUSING, CONNECTOR 12P
CN4	1-764-080-21 o	PIN, CONNECTOR (PC BOARD) 8P
CN5	1-770-297-51 s	HOUSING, CONNECTOR 12P
CN6	1-785-427-11 o	CONNECTOR, BOARD TO WIRE 20P
CN7	1-695-890-21 o	PIN, CONNECTOR (PC BOARD) 12P
CN8	1-766-431-51 s	HOUSING, CONNECTOR 30P
CN9	1-580-838-11 o	PIN, CONNECTOR (PC BOARD) 4P
CN10	1-770-470-21 s	PIN, CONNECTOR (PC BOARD) 6P
CN11	1-770-469-21 s	PIN, CONNECTOR (PC BOARD) 2P
CN12	1-785-207-51 s	HOUSING, CONNECTOR 25P
CN101	1-778-651-31 s	CONNECTOR, FFC/FPC(ZIF) ST 40P
D1	6-502-527-01 s	DI UDZSUSTE-172.2B
D3	8-719-070-20 s	DIODE RB706F-40
D4	8-719-024-81 s	DIODE 1SS300-TE85L
D5	8-719-069-28 s	DI 1SS400FJTE61
D400	6-502-197-01 s	DI SML-D12M8WT86SM
D401	6-502-197-01 s	DI SML-D12M8WT86SM
D500	6-501-123-01 s	DIODE RB160M-60TR
D501	6-502-197-01 s	DI SML-D12M8WT86SM
D502	6-502-197-01 s	DI SML-D12M8WT86SM
D600	8-719-991-01 s	DIODE DAP222-TL
D601	8-719-069-28 s	DI 1SS400FJTE61
D602	6-501-124-01 s	DIODE RSX101VA-30TR
D603	8-719-072-43 s	DIODE RB050L-40TE25
D604	6-502-197-01 s	DI SML-D12M8WT86SM
D605	8-719-991-01 s	DIODE DAP222-TL
D606	8-719-069-28 s	DI 1SS400FJTE61
D607	8-719-069-28 s	DI 1SS400FJTE61
D608	8-719-083-52 s	DI UDZSUSTE-1716B
D609	8-719-072-83 s	DIODE MBRS340T3
E1	1-535-877-22 s	CHIP, CHECKER
E600	1-535-877-22 s	CHIP, CHECKER
E601	1-535-877-22 s	CHIP, CHECKER
E602	1-535-877-22 s	CHIP, CHECKER
E603	1-535-877-22 s	CHIP, CHECKER
E604	1-535-877-22 s	CHIP, CHECKER
E605	1-535-877-22 s	CHIP, CHECKER
FB600	1-414-864-21 s	FERRITE, EMI (SMD) (1608)
FB601	1-414-864-21 s	FERRITE, EMI (SMD) (1608)
FB602	1-414-864-21 s	FERRITE, EMI (SMD) (1608)
FB603	1-414-864-21 s	FERRITE, EMI (SMD) (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
FB604	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB605	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB606	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB607	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB608	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB609	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB610	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB611	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB612	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB613	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB614	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB615	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB616	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB617	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB618	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB619	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB620	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB621	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB622	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB623	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB624	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB625	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB626	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB627	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB628	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB629	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB630	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB631	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB632	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB633	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB634	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB635	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB636	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB637	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB638	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB639	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB640	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB641	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB642	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB643	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB644	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB645	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB646	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB647	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB648	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB649	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB650	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB651	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB652	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB653	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB654	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB655	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB656	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB657	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB658	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB659	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB660	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB661	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB662	1-414-864-21	s	FERRITE, EMI (SMD) (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
FB663	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB664	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB665	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
IC1	6-703-461-11	s	IC CY2309ZXC-1HT
IC2	6-707-856-01	s	IC TC74LCX74FT (EKJ)
IC3	6-707-856-01	s	IC TC74LCX74FT (EKJ)
IC4	6-702-319-01	s	IC TC7WZ04FK (TE85R)
IC5	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC6	8-759-648-04	s	IC RTC-4574JE
IC7	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC9	6-702-879-01	s	IC R3112N281A-TR-FA
IC10	6-706-488-01	s	IC TC7SH14FU (T5RSOYJF)
IC11	6-710-018-01	s	IC CAT24C02WI-GT3
IC12	6-710-018-01	s	IC CAT24C02WI-GT3
IC13	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC14	6-702-879-01	s	IC R3112N281A-TR-FA
IC17	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC19	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC20	6-706-483-01	s	IC TC7SH02FU (T5RSOYJF)
IC21	8-759-669-68	s	IC SN74CBT3253PWR-12
IC22	6-706-484-01	s	IC TC7SH04FU (T5RSOYJF)
IC23	6-706-484-01	s	IC TC7SH04FU (T5RSOYJF)
IC24	6-706-488-01	s	IC TC7SH14FU (T5RSOYJF)
IC26	6-707-849-01	s	IC TC74LCX244FT (EKJ)
IC27	6-707-849-01	s	IC TC74LCX244FT (EKJ)
IC28	6-707-849-01	s	IC TC74LCX244FT (EKJ)
IC29	6-707-849-01	s	IC TC74LCX244FT (EKJ)
IC30	6-707-947-01	s	IC MB85R256PFTN-G-BNDE1
IC31	6-707-947-01	s	IC MB85R256PFTN-G-BNDE1
IC32	8-759-584-32	s	IC MB86189PMC-G-BND-ER-E1
IC34	8-759-656-54	s	IC TC7WH14FK (TE85R)
IC200	6-600-060-01	s	IC TC7WZ32FK (TE85R)
IC201	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC202	6-706-841-01	s	IC EP1C6F256C6N (300)
IC203	6-710-509-01	s	IC YG628B-VZ
IC204	6-705-721-01	s	IC MT48LC8M16A2P-75-Y15WTR
IC206	6-707-874-01	s	IC TC74VHC244FT (EKJ)
IC207	6-707-850-01	s	IC TC74LCX245FT (EKJ)
IC208	6-707-850-01	s	IC TC74LCX245FT (EKJ)
IC209	6-707-850-01	s	IC TC74LCX245FT (EKJ)
IC210	6-707-850-01	s	IC TC74LCX245FT (EKJ)
IC211	6-707-863-01	s	IC TC74VHC08FT (EKJ)
IC212	6-707-868-01	s	IC TC74VHC138FT (EKJ)
IC213	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC302	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC304	8-759-092-83	s	IC SN75158PSR
IC309	8-759-592-44	s	IC TC7SZ04FU (TE85R)
IC400	8-759-594-17	o	IC CXD9093R
IC401	6-705-039-01	s	IC 93LC46BT-I/SN
IC403	6-706-483-01	s	IC TC7SH02FU (T5RSOYJF)
IC407	6-706-476-01	s	IC TC7SET04FU (T5RSOJF)
IC408	6-706-476-01	s	IC TC7SET04FU (T5RSOJF)
IC412	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
IC500	8-759-578-68	s	IC SN74LVCC4245APWR
IC501	8-759-578-68	s	IC SN74LVCC4245APWR
IC502	6-701-098-11	s	IC THC631VDM83R-T
IC503	6-715-110-01	s	IC LT3598EUF#TR
IC504	6-713-799-01	s	IC BU7122KV-E2

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Ref. No. or Q'ty	Part No.	SP Description
IC505	6-713-799-01	s IC BU7122KV-E2
IC506	6-707-874-01	s IC TC74VHC244FT (EKJ)
IC600	6-701-549-01	s IC LTC1778EGN
IC601	6-706-879-01	s IC TPS62020DRCR
IC602	6-706-879-01	s IC TPS62020DRCR
IC603	6-706-879-01	s IC TPS62020DRCR
IC604	6-713-169-01	s IC LTC3412AEFE#TR
IC605	8-759-330-14	s IC TL7700CPS-E20
IC606	6-715-080-01	s IC LTC4357IMS8#TR
IC607	6-715-080-01	s IC LTC4357IMS8#TR
IC608	6-709-014-01	s IC UPC2933BT-E2-AZ
IC609	6-713-169-01	s IC LTC3412AEFE#TR
IC610	6-706-220-01	s IC LTC3411EMS#TR
IC611	6-709-014-01	s IC UPC2933BT-E2-AZ
IC612	6-706-879-01	s IC TPS62020DRCR
IC613	6-712-232-01	s IC LT3481EDD#TR
L2	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L3	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L4	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L5	1-416-344-21	s COIL, CHOKE 10UH
L6	1-416-344-21	s COIL, CHOKE 10UH
L8	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L9	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L10	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L11	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L12	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L200	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L201	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L202	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L203	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L204	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L205	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L400	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L401	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L402	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L403	1-414-396-41	s INDUCTOR (SMD) 4.7UH
L404	1-414-396-41	s INDUCTOR (SMD) 4.7UH
L500	1-469-529-21	s INDUCTOR, (SMD) 10UH
L600	1-400-806-21	s INDUCTOR (3.5UH)
L601	1-400-806-21	s INDUCTOR (3.5UH)
L602	1-416-344-21	s COIL, CHOKE 10UH
L603	1-416-344-21	s COIL, CHOKE 10UH
L604	1-400-806-21	s INDUCTOR (3.5UH)
L605	1-416-344-21	s COIL, CHOKE 10UH
L606	1-400-806-21	s INDUCTOR (3.5UH)
L607	1-416-344-21	s COIL, CHOKE 10UH
L608	1-457-205-21	s COIL, CHOKE (SMD) 3.3UH
L609	1-416-344-21	s COIL, CHOKE 10UH
L610	1-416-344-21	s COIL, CHOKE 10UH
L611	1-416-344-21	s COIL, CHOKE 10UH
L612	1-416-344-21	s COIL, CHOKE 10UH
L613	1-457-205-21	s COIL, CHOKE (SMD) 3.3UH
L614	1-457-205-21	s COIL, CHOKE (SMD) 3.3UH
L615	1-416-344-21	s COIL, CHOKE 10UH
L616	1-416-344-21	s COIL, CHOKE 10UH
L617	1-416-344-21	s COIL, CHOKE 10UH
L618	1-457-205-21	s COIL, CHOKE (SMD) 3.3UH
L619	1-414-392-41	s INDUCTOR (SMD) 1.0UH

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Ref. No. or Q'ty	Part No.	SP Description
L620	1-414-392-41	s INDUCTOR (SMD) 1.0UH
L621	1-457-205-21	s COIL, CHOKE (SMD) 3.3UH
L622	1-416-344-21	s COIL, CHOKE 10UH
L623	1-416-606-21	s COIL, CHOKE (SMD) 47UH
L624	1-416-344-21	s COIL, CHOKE 10UH
L625	1-414-392-41	s INDUCTOR (SMD) 1.0UH
L626	1-414-392-41	s INDUCTOR (SMD) 1.0UH
L627	1-416-344-21	s COIL, CHOKE 10UH
L628	1-416-344-21	s COIL, CHOKE 10UH
L629	1-416-344-21	s COIL, CHOKE 10UH
L630	1-457-372-21	s COIL, CHOKE 1UH
L631	1-416-948-21	s COIL, CHOKE (SMD) 10UH
L632	1-457-372-21	s COIL, CHOKE 1UH
PH400	8-749-014-35	s IC HCPL-0630-500
PH401	8-749-014-35	s IC HCPL-0630-500
Q1	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
Q2	8-729-928-25	s TRANSISTOR 2SA1774TL-QR
Q4	8-729-209-73	s TRANSISTOR 2SA1213Y-TE12L
Q5	8-729-928-05	s TRANSISTOR 2SC4617TL-QR
Q400	8-729-928-55	s TRANSISTOR DTA123JE-TL
Q401	8-729-928-55	s TRANSISTOR DTA123JE-TL
Q500	8-729-928-55	s TRANSISTOR DTA123JE-TL
Q501	8-729-928-55	s TRANSISTOR DTA123JE-TL
Q600	8-729-052-19	s TRANSISTOR FDS6680A
Q601	8-729-052-19	s TRANSISTOR FDS6680A
Q602	8-729-929-09	s TRANSISTOR DTC123JE-TL
Q603	8-729-052-19	s TRANSISTOR FDS6680A
Q604	8-729-052-19	s TRANSISTOR FDS6680A
Q605	8-729-928-91	s TRANSISTOR DTC114EE-TL
Q606	8-729-928-91	s TRANSISTOR DTC114EE-TL
Q607	6-551-380-01	s TRANSISTOR SI4425BDY-T1
R1	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5	1-218-990-81	s CONDUCTOR, CHIP (1005)
R6	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7	1-218-990-81	s CONDUCTOR, CHIP (1005)
R8	1-218-990-81	s CONDUCTOR, CHIP (1005)
R9	1-218-990-81	s CONDUCTOR, CHIP (1005)
R10	1-218-990-81	s CONDUCTOR, CHIP (1005)
R11	1-218-990-81	s CONDUCTOR, CHIP (1005)
R12	1-218-990-81	s CONDUCTOR, CHIP (1005)
R13	1-220-878-81	s RES, CHIP 22 (1005)
R14	1-220-878-81	s RES, CHIP 22 (1005)
R15	1-208-887-81	s RES, CHIP 1.0K (1005)
R16	1-208-855-81	s RES, CHIP 47 (1005)
R17	1-208-855-81	s RES, CHIP 47 (1005)
R18	1-208-855-81	s RES, CHIP 47 (1005)
R19	1-208-855-81	s RES, CHIP 47 (1005)
R20	1-208-855-81	s RES, CHIP 47 (1005)
R21	1-208-879-81	s RES, CHIP 470 (1005)
R22	1-208-895-81	s RES, CHIP 2.2K (1005)
R23	1-208-935-81	s RES, CHIP 100K (1005)
R25	1-208-927-81	s RES, CHIP 47K (1005)
R26	1-208-911-81	s RES, CHIP 10K (1005)
R27	1-208-903-81	s RES, CHIP 4.7K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R28	1-208-887-81	s RES, CHIP 1.0K (1005)
R29	1-220-870-81	s RES, CHIP 10 (1005)
R30	1-208-911-81	s RES, CHIP 10K (1005)
R31	1-208-911-81	s RES, CHIP 10K (1005)
R32	1-208-863-81	s RES, CHIP 100 (1005)
R33	1-208-863-81	s RES, CHIP 100 (1005)
R34	1-208-863-81	s RES, CHIP 100 (1005)
R35	1-208-863-81	s RES, CHIP 100 (1005)
R36	1-208-911-81	s RES, CHIP 10K (1005)
R37	1-220-870-81	s RES, CHIP 10 (1005)
R38	1-208-911-81	s RES, CHIP 10K (1005)
R39	1-208-855-81	s RES, CHIP 47 (1005)
R40	1-208-911-81	s RES, CHIP 10K (1005)
R41	1-220-870-81	s RES, CHIP 10 (1005)
R42	1-220-870-81	s RES, CHIP 10 (1005)
R43	1-220-878-81	s RES, CHIP 22 (1005)
R44	1-220-878-81	s RES, CHIP 22 (1005)
R45	1-220-870-81	s RES, CHIP 10 (1005)
R46	1-208-911-81	s RES, CHIP 10K (1005)
R47	1-208-911-81	s RES, CHIP 10K (1005)
R48	1-208-935-81	s RES, CHIP 100K (1005)
R49	1-208-911-81	s RES, CHIP 10K (1005)
R50	1-208-935-81	s RES, CHIP 100K (1005)
R51	1-208-935-81	s RES, CHIP 100K (1005)
R52	1-208-935-81	s RES, CHIP 100K (1005)
R53	1-208-863-81	s RES, CHIP 100 (1005)
R54	1-208-863-81	s RES, CHIP 100 (1005)
R55	1-208-863-81	s RES, CHIP 100 (1005)
R56	1-208-863-81	s RES, CHIP 100 (1005)
R57	1-208-863-81	s RES, CHIP 100 (1005)
R58	1-208-935-81	s RES, CHIP 100K (1005)
R59	1-208-935-81	s RES, CHIP 100K (1005)
R60	1-218-990-81	s CONDUCTOR, CHIP (1005)
R61	1-218-990-81	s CONDUCTOR, CHIP (1005)
R62	1-218-990-81	s CONDUCTOR, CHIP (1005)
R63	1-218-990-81	s CONDUCTOR, CHIP (1005)
R64	1-208-935-81	s RES, CHIP 100K (1005)
R65	1-208-911-81	s RES, CHIP 10K (1005)
R66	1-208-911-81	s RES, CHIP 10K (1005)
R67	1-208-887-81	s RES, CHIP 1.0K (1005)
R68	1-208-903-81	s RES, CHIP 4.7K (1005)
R69	1-218-990-81	s CONDUCTOR, CHIP (1005)
R70	1-208-875-81	s RES, CHIP 330 (1005)
R71	1-208-899-81	s RES, CHIP 3.3K (1005)
R72	1-208-911-81	s RES, CHIP 10K (1005)
R73	1-208-911-81	s RES, CHIP 10K (1005)
R74	1-208-903-81	s RES, CHIP 4.7K (1005)
R75	1-208-935-81	s RES, CHIP 100K (1005)
R76	1-208-911-81	s RES, CHIP 10K (1005)
R77	1-208-935-81	s RES, CHIP 100K (1005)
R78	1-208-911-81	s RES, CHIP 10K (1005)
R79	1-220-870-81	s RES, CHIP 10 (1005)
R80	1-208-935-81	s RES, CHIP 100K (1005)
R81	1-208-903-81	s RES, CHIP 4.7K (1005)
R82	1-208-863-81	s RES, CHIP 100 (1005)
R83	1-208-863-81	s RES, CHIP 100 (1005)
R84	1-208-863-81	s RES, CHIP 100 (1005)
R85	1-208-935-81	s RES, CHIP 100K (1005)
R86	1-208-935-81	s RES, CHIP 100K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R87	1-208-935-81	s RES, CHIP 100K (1005)
R88	1-208-895-81	s RES, CHIP 2.2K (1005)
R89	1-208-911-81	s RES, CHIP 10K (1005)
R90	1-208-863-81	s RES, CHIP 100 (1005)
R91	1-208-863-81	s RES, CHIP 100 (1005)
R92	1-208-935-81	s RES, CHIP 100K (1005)
R93	1-208-919-81	s RES, CHIP 22K (1005)
R94	1-208-927-81	s RES, CHIP 47K (1005)
R95	1-208-927-81	s RES, CHIP 47K (1005)
R96	1-208-903-81	s RES, CHIP 4.7K (1005)
R97	1-208-899-81	s RES, CHIP 3.3K (1005)
R99	1-218-990-81	s CONDUCTOR, CHIP (1005)
R100	1-218-990-81	s CONDUCTOR, CHIP (1005)
R101	1-218-990-81	s CONDUCTOR, CHIP (1005)
R110	1-218-990-81	s CONDUCTOR, CHIP (1005)
R112	1-218-990-81	s CONDUCTOR, CHIP (1005)
R114	1-220-878-81	s RES, CHIP 22 (1005)
R115	1-220-878-81	s RES, CHIP 22 (1005)
R116	1-220-878-81	s RES, CHIP 22 (1005)
R117	1-208-911-81	s RES, CHIP 10K (1005)
R118	1-208-911-81	s RES, CHIP 10K (1005)
R119	1-220-878-81	s RES, CHIP 22 (1005)
R120	1-220-878-81	s RES, CHIP 22 (1005)
R121	1-220-878-81	s RES, CHIP 22 (1005)
R122	1-220-878-81	s RES, CHIP 22 (1005)
R123	1-220-878-81	s RES, CHIP 22 (1005)
R124	1-220-878-81	s RES, CHIP 22 (1005)
R125	1-220-878-81	s RES, CHIP 22 (1005)
R126	1-220-878-81	s RES, CHIP 22 (1005)
R127	1-220-878-81	s RES, CHIP 22 (1005)
R128	1-220-878-81	s RES, CHIP 22 (1005)
R129	1-220-878-81	s RES, CHIP 22 (1005)
R130	1-220-878-81	s RES, CHIP 22 (1005)
R131	1-220-878-81	s RES, CHIP 22 (1005)
R132	1-220-878-81	s RES, CHIP 22 (1005)
R133	1-220-878-81	s RES, CHIP 22 (1005)
R134	1-220-878-81	s RES, CHIP 22 (1005)
R135	1-220-878-81	s RES, CHIP 22 (1005)
R136	1-220-878-81	s RES, CHIP 22 (1005)
R137	1-220-878-81	s RES, CHIP 22 (1005)
R138	1-220-878-81	s RES, CHIP 22 (1005)
R139	1-220-870-81	s RES, CHIP 10 (1005)
R200	1-220-870-81	s RES, CHIP 10 (1005)
R201	1-220-870-81	s RES, CHIP 10 (1005)
R202	1-220-870-81	s RES, CHIP 10 (1005)
R203	1-220-870-81	s RES, CHIP 10 (1005)
R204	1-220-870-81	s RES, CHIP 10 (1005)
R205	1-220-870-81	s RES, CHIP 10 (1005)
R206	1-220-870-81	s RES, CHIP 10 (1005)
R207	1-220-870-81	s RES, CHIP 10 (1005)
R208	1-220-870-81	s RES, CHIP 10 (1005)
R209	1-220-870-81	s RES, CHIP 10 (1005)
R210	1-220-870-81	s RES, CHIP 10 (1005)
R211	1-220-870-81	s RES, CHIP 10 (1005)
R212	1-218-990-81	s CONDUCTOR, CHIP (1005)
R213	1-218-990-81	s CONDUCTOR, CHIP (1005)
R214	1-208-935-81	s RES, CHIP 100K (1005)
R215	1-208-935-81	s RES, CHIP 100K (1005)
R216	1-208-935-81	s RES, CHIP 100K (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R277	1-220-878-81	s	RES, CHIP 22 (1005)
R278	1-220-878-81	s	RES, CHIP 22 (1005)
R279	1-220-878-81	s	RES, CHIP 22 (1005)
R280	1-220-878-81	s	RES, CHIP 22 (1005)
R281	1-220-878-81	s	RES, CHIP 22 (1005)
R282	1-220-878-81	s	RES, CHIP 22 (1005)
R283	1-220-878-81	s	RES, CHIP 22 (1005)
R284	1-220-878-81	s	RES, CHIP 22 (1005)
R285	1-220-878-81	s	RES, CHIP 22 (1005)
R286	1-220-878-81	s	RES, CHIP 22 (1005)
R287	1-220-878-81	s	RES, CHIP 22 (1005)
R288	1-220-878-81	s	RES, CHIP 22 (1005)
R289	1-220-878-81	s	RES, CHIP 22 (1005)
R290	1-220-878-81	s	RES, CHIP 22 (1005)
R291	1-220-878-81	s	RES, CHIP 22 (1005)
R292	1-220-878-81	s	RES, CHIP 22 (1005)
R293	1-220-878-81	s	RES, CHIP 22 (1005)
R294	1-220-878-81	s	RES, CHIP 22 (1005)
R295	1-220-878-81	s	RES, CHIP 22 (1005)
R296	1-220-878-81	s	RES, CHIP 22 (1005)
R297	1-220-878-81	s	RES, CHIP 22 (1005)
R298	1-220-878-81	s	RES, CHIP 22 (1005)
R299	1-220-878-81	s	RES, CHIP 22 (1005)
R300	1-220-878-81	s	RES, CHIP 22 (1005)
R301	1-220-878-81	s	RES, CHIP 22 (1005)
R302	1-220-878-81	s	RES, CHIP 22 (1005)
R303	1-220-878-81	s	RES, CHIP 22 (1005)
R304	1-220-878-81	s	RES, CHIP 22 (1005)
R305	1-220-878-81	s	RES, CHIP 22 (1005)
R306	1-220-878-81	s	RES, CHIP 22 (1005)
R307	1-220-878-81	s	RES, CHIP 22 (1005)
R308	1-220-878-81	s	RES, CHIP 22 (1005)
R309	1-220-878-81	s	RES, CHIP 22 (1005)
R310	1-220-878-81	s	RES, CHIP 22 (1005)
R311	1-220-878-81	s	RES, CHIP 22 (1005)
R312	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R313	1-208-911-81	s	RES, CHIP 10K (1005)
R314	1-208-911-81	s	RES, CHIP 10K (1005)
R315	1-208-911-81	s	RES, CHIP 10K (1005)
R316	1-220-878-81	s	RES, CHIP 22 (1005)
R317	1-220-878-81	s	RES, CHIP 22 (1005)
R318	1-220-878-81	s	RES, CHIP 22 (1005)
R319	1-220-878-81	s	RES, CHIP 22 (1005)
R400	1-208-935-81	s	RES, CHIP 100K (1005)
R402	1-220-870-81	s	RES, CHIP 10 (1005)
R403	1-208-911-81	s	RES, CHIP 10K (1005)
R404	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R405	1-208-911-81	s	RES, CHIP 10K (1005)
R406	1-218-263-91	s	RES, SQUARE TYPE CHIP 75(4532)
R407	1-208-911-81	s	RES, CHIP 10K (1005)
R408	1-218-263-91	s	RES, SQUARE TYPE CHIP 75(4532)
R409	1-208-895-81	s	RES, CHIP 2.2K (1005)
R410	1-208-911-81	s	RES, CHIP 10K (1005)
R411	1-208-911-81	s	RES, CHIP 10K (1005)
R412	1-208-907-81	s	RES, CHIP 6.8K (1005)
R413	1-208-907-81	s	RES, CHIP 6.8K (1005)
R414	1-208-907-81	s	RES, CHIP 6.8K (1005)
R415	1-208-907-81	s	RES, CHIP 6.8K (1005)
R416	1-220-870-81	s	RES, CHIP 10 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R417	1-220-870-81	s RES, CHIP 10 (1005)
R418	1-208-887-81	s RES, CHIP 1.0K (1005)
R419	1-208-867-81	s RES, CHIP 150 (1005)
R420	1-220-870-81	s RES, CHIP 10 (1005)
R421	1-220-870-81	s RES, CHIP 10 (1005)
R422	1-208-887-81	s RES, CHIP 1.0K (1005)
R423	1-208-867-81	s RES, CHIP 150 (1005)
R424	1-208-887-81	s RES, CHIP 1.0K (1005)
R425	1-208-887-81	s RES, CHIP 1.0K (1005)
R426	1-211-986-91	s RES, CHIP 51 (1608)
R427	1-211-986-91	s RES, CHIP 51 (1608)
R428	1-211-986-91	s RES, CHIP 51 (1608)
R429	1-211-986-91	s RES, CHIP 51 (1608)
R430	1-211-986-91	s RES, CHIP 51 (1608)
R431	1-211-986-91	s RES, CHIP 51 (1608)
R432	1-211-986-91	s RES, CHIP 51 (1608)
R433	1-211-986-91	s RES, CHIP 51 (1608)
R434	1-218-823-91	s RES, CHIP 100 (1608)
R435	1-218-823-91	s RES, CHIP 100 (1608)
R436	1-218-823-91	s RES, CHIP 100 (1608)
R437	1-218-823-91	s RES, CHIP 100 (1608)
R438	1-220-870-81	s RES, CHIP 10 (1005)
R439	1-208-911-81	s RES, CHIP 10K (1005)
R440	1-220-870-81	s RES, CHIP 10 (1005)
R445	1-208-911-81	s RES, CHIP 10K (1005)
R446	1-220-870-81	s RES, CHIP 10 (1005)
R447	1-220-870-81	s RES, CHIP 10 (1005)
R448	1-220-878-81	s RES, CHIP 22 (1005)
R449	1-208-887-81	s RES, CHIP 1.0K (1005)
R450	1-208-911-81	s RES, CHIP 10K (1005)
R451	1-220-870-81	s RES, CHIP 10 (1005)
R452	1-208-911-81	s RES, CHIP 10K (1005)
R453	1-208-911-81	s RES, CHIP 10K (1005)
R454	1-208-911-81	s RES, CHIP 10K (1005)
R455	1-220-870-81	s RES, CHIP 10 (1005)
R456	1-220-870-81	s RES, CHIP 10 (1005)
R457	1-208-911-81	s RES, CHIP 10K (1005)
R458	1-208-911-81	s RES, CHIP 10K (1005)
R459	1-208-927-81	s RES, CHIP 47K (1005)
R460	1-220-870-81	s RES, CHIP 10 (1005)
R461	1-220-870-81	s RES, CHIP 10 (1005)
R462	1-220-870-81	s RES, CHIP 10 (1005)
R463	1-220-870-81	s RES, CHIP 10 (1005)
R464	1-220-870-81	s RES, CHIP 10 (1005)
R465	1-220-870-81	s RES, CHIP 10 (1005)
R466	1-220-870-81	s RES, CHIP 10 (1005)
R467	1-220-870-81	s RES, CHIP 10 (1005)
R468	1-220-870-81	s RES, CHIP 10 (1005)
R469	1-220-870-81	s RES, CHIP 10 (1005)
R470	1-220-870-81	s RES, CHIP 10 (1005)
R471	1-220-870-81	s RES, CHIP 10 (1005)
R472	1-220-870-81	s RES, CHIP 10 (1005)
R473	1-220-870-81	s RES, CHIP 10 (1005)
R474	1-220-870-81	s RES, CHIP 10 (1005)
R475	1-220-870-81	s RES, CHIP 10 (1005)
R476	1-220-870-81	s RES, CHIP 10 (1005)
R477	1-220-870-81	s RES, CHIP 10 (1005)
R478	1-220-870-81	s RES, CHIP 10 (1005)
R501	1-218-990-81	s CONDUCTOR, CHIP (1005)

(MPU-151 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
R505	1-218-990-81	s CONDUCTOR, CHIP (1005)
R508	1-220-870-81	s RES, CHIP 10 (1005)
R510	1-218-887-91	s RES, CHIP 47K (1608)
R511	1-218-865-91	s RES, CHIP 5.6K (1608)
R512	1-218-847-91	s RES, CHIP 1.0K (1608)
R513	1-208-935-81	s RES, CHIP 100K (1005)
R514	1-208-935-81	s RES, CHIP 100K (1005)
R515	1-208-911-81	s RES, CHIP 10K (1005)
R516	1-218-873-91	s RES, CHIP 12K (1608)
R517	1-218-877-91	s RES, CHIP 18K (1608)
R518	1-218-851-91	s RES, CHIP 1.5K (1608)
R519	1-218-851-91	s RES, CHIP 1.5K (1608)
R520	1-218-871-91	s RES, CHIP 10K (1608)
R521	1-218-851-91	s RES, CHIP 1.5K (1608)
R522	1-220-800-91	s RES, CHIP 1.5M (1608)
R523	1-218-915-91	s RES, CHIP 680K (1608)
R524	1-218-893-91	s RES, CHIP 82K (1608)
R525	1-218-873-91	s RES, CHIP 12K (1608)
R526	1-218-849-91	s RES, CHIP 1.2K (1608)
R527	1-218-903-91	s RES, CHIP 220K (1608)
R529	1-218-823-91	s RES, CHIP 100 (1608)
R530	1-218-823-91	s RES, CHIP 100 (1608)
R531	1-218-941-81	s RES, CHIP 100
R532	1-208-887-81	s RES, CHIP 1.0K (1005)
R533	1-208-887-81	s RES, CHIP 1.0K (1005)
R535	1-208-927-81	s RES, CHIP 47K (1005)
R536	1-208-863-81	s RES, CHIP 100 (1005)
R537	1-220-878-81	s RES, CHIP 22 (1005)
R538	1-220-878-81	s RES, CHIP 22 (1005)
R539	1-220-878-81	s RES, CHIP 22 (1005)
R600	1-218-941-81	s RES, CHIP 100
R601	1-218-969-81	s RES, CHIP 22K
R602	1-218-977-81	s RES, CHIP 100K
R603	1-218-446-91	s RES, CHIP 1 (1608)
R604	1-218-977-81	s RES, CHIP 100K
R605	1-220-804-81	s RES, CHIP 2.2M
R606	1-208-925-81	s RES, CHIP 39K (1005)
R607	1-208-887-81	s RES, CHIP 1.0K (1005)
R608	1-208-911-81	s RES, CHIP 10K (1005)
R609	1-218-977-81	s RES, CHIP 100K
R610	1-208-923-81	s RES, CHIP 33K (1005)
R611	1-208-923-81	s RES, CHIP 33K (1005)
R612	1-208-923-81	s RES, CHIP 33K (1005)
R613	1-208-919-81	s RES, CHIP 22K (1005)
R614	1-208-931-81	s RES, CHIP 68K (1005)
R615	1-208-915-81	s RES, CHIP 15K (1005)
R616	1-218-977-81	s RES, CHIP 100K
R617	1-208-908-81	s RES, CHIP 7.5K (1005)
R618	1-218-977-81	s RES, CHIP 100K
R619	1-218-989-81	s RES, CHIP 1M
R620	1-208-923-81	s RES, CHIP 33K (1005)
R621	1-208-919-81	s RES, CHIP 22K (1005)
R622	1-208-935-81	s RES, CHIP 100K (1005)
R623	1-218-981-81	s RES, CHIP 220K
R624	1-208-927-81	s RES, CHIP 47K (1005)
R625	1-208-931-81	s RES, CHIP 68K (1005)
R626	1-208-919-81	s RES, CHIP 22K (1005)
R627	1-208-911-81	s RES, CHIP 10K (1005)
R628	1-218-977-81	s RES, CHIP 100K

(MPU-151 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
R629	1-208-931-81 s	RES, CHIP 68K (1005)
R630	1-208-955-81 s	RES, CHIP 680K (1005)
R631	1-208-931-81 s	RES, CHIP 68K (1005)
R632	1-208-939-81 s	RES, CHIP 150K (1005)
R633	1-208-939-81 s	RES, CHIP 150K (1005)
R634	1-208-921-81 s	RES, CHIP 27K (1005)
R635	1-208-911-81 s	RES, CHIP 10K (1005)
R636	1-218-953-81 s	RES, CHIP 1.0K
R637	1-218-953-81 s	RES, CHIP 1.0K
R638	1-218-941-81 s	RES, CHIP 100
R639	1-218-941-81 s	RES, CHIP 100
R640	1-208-908-81 s	RES, CHIP 7.5K (1005)
R641	1-218-989-81 s	RES, CHIP 1M
R642	1-211-899-91 s	RES,SQUARE TYPE CHIP 0.22 3225
R643	1-218-981-81 s	RES, CHIP 220K
R644	1-218-977-81 s	RES, CHIP 100K
R645	1-218-967-81 s	RES, CHIP 15K
R646	1-218-983-81 s	RES, CHIP 330K
R647	1-218-977-81 s	RES, CHIP 100K
R648	1-208-939-81 s	RES, CHIP 150K (1005)
R649	1-208-931-81 s	RES, CHIP 68K (1005)
R650	1-208-959-81 s	RES, CHIP 1M (1005)
R651	1-208-931-81 s	RES, CHIP 68K (1005)
R652	1-208-935-81 s	RES, CHIP 100K (1005)
R653	1-208-919-81 s	RES, CHIP 22K (1005)
R654	1-208-955-81 s	RES, CHIP 680K (1005)
R655	1-211-899-91 s	RES,SQUARE TYPE CHIP 0.22 3225
R656	1-218-977-81 s	RES, CHIP 100K
R657	1-208-923-81 s	RES, CHIP 33K (1005)
R658	1-208-923-81 s	RES, CHIP 33K (1005)
R659	1-208-923-81 s	RES, CHIP 33K (1005)
R660	1-218-965-81 s	RES, CHIP 10K 1005
R661	1-218-965-81 s	RES, CHIP 10K 1005
R662	1-218-965-81 s	RES, CHIP 10K 1005
R663	1-218-961-81 s	RES, CHIP 4.7K
R664	1-208-933-81 s	RES, CHIP 82K (1005)
R665	1-208-943-81 s	RES, CHIP 220K (1005)
R666	1-208-943-81 s	RES, CHIP 220K (1005)
R667	1-208-919-81 s	RES, CHIP 22K (1005)
RB1	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB2	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB3	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB4	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB5	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB6	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB7	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB8	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB9	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB10	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB11	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB12	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB13	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB14	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB15	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB16	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB17	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB18	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB19	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB20	1-234-381-21 s	RES, NETWORK 100K (1005X4)

(MPU-151 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
RB21	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB22	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB23	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB24	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB25	1-234-377-21 s	RES, NETWORK 4.7K (1005X4)
RB26	1-233-414-21 s	RES, CHIP NETWORK 4.7K (3216)
RB200	1-233-412-21 s	RES, CHIP NETWORK 1.0K (3216)
RB201	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB202	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB203	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB204	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB205	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB206	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB207	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB208	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB209	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB210	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB211	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB212	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB213	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB214	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB215	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB216	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB217	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB400	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB401	1-233-578-21 s	RES, CHIP NETWORK 47K (3216)
RB500	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB501	1-234-381-21 s	RES, NETWORK 100K (1005X4)
RB502	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB503	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB504	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB505	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB506	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB507	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB508	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB509	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB510	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB511	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB512	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB513	1-234-376-21 s	RES, NETWORK 2.2K (1005X4)
RB514	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB515	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB516	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB517	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB518	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB519	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB520	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB521	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB522	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB523	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB525	1-234-380-21 s	RES, NETWORK 47K (1005X4)
RB527	1-234-380-21 s	RES, NETWORK 47K (1005X4)
S1	1-771-709-41 s	SWITCH, SLIDE
S2	1-572-921-21 s	SWITCH, KEY BOARD
S101	1-692-270-41 s	SWITCH, SLIDE
T400	1-437-527-41 s	TRANSFORMER, PULSE
THP1	Δ 1-771-845-21 s	THERMISTOR, POSITIVE

(MPU-151 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
X1	1-814-011-11	s OSCILLATOR, CRYSTAL (33.1776MHZ)
X400	1-795-984-11	s OSCILLATOR, CRYSTAL
X401	1-795-983-11	s OSCILLATOR, CRYSTAL

PS-791 BOARD

Ref. No. or Q'ty	Part No.	SP Description
C1	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C2	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C3	1-165-908-91	s CAP, CERAMIC 1MF B 1608
C4	1-112-679-21	s CAP, CERAMIC 2200PF B (3216)
D1	8-719-080-78	s DIODE 1SS403 (TPH3)
D2	6-501-123-01	s DIODE RB160M-60TR
D3	6-501-123-01	s DIODE RB160M-60TR
D4	6-501-123-01	s DIODE RB160M-60TR
D5	6-501-123-01	s DIODE RB160M-60TR
D6	6-501-123-01	s DIODE RB160M-60TR
D7	6-501-123-01	s DIODE RB160M-60TR
D8	6-501-123-01	s DIODE RB160M-60TR
D9	6-501-123-01	s DIODE RB160M-60TR
IC1	6-600-680-01	s PHOTO DIODE BH1690FVC-TR
L1	1-414-398-41	s INDUCTOR (SMD) 10.0UH
L2	1-416-510-21	s COIL, CHOKE 100UH
R1	1-208-927-81	s RES, CHIP 47K (1005)
R2	1-218-990-81	s CONDUCTOR, CHIP (1005)
R5	1-218-990-81	s CONDUCTOR, CHIP (1005)
R7	1-208-935-81	s RES, CHIP 100K (1005)
R8	1-208-935-81	s RES, CHIP 100K (1005)
R9	1-208-935-81	s RES, CHIP 100K (1005)

SW-1455 BOARD for MSU-1000

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1748-542-A	s MOUNTED CIRCUIT BOARD, SW-1455
13pcs	4-169-672-01	s LED REFLECTOR (B)
C1	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C2	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C3	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C4	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C5	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C6	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C7	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C8	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C9	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C10	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C11	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
C12	1-100-567-81	s CAP, CHIP CERAMIC 0.01MF B 1005
C13	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C14	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C15	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C16	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C17	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C18	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C19	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C20	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C21	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C22	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C23	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C24	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C25	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C26	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C27	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C28	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C29	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C30	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C31	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C32	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C33	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C34	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C35	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C36	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C37	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C38	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C39	1-112-692-81	o CAP, CHIP CERAMIC1000PF CH 1005
C40	1-112-692-81	o CAP, CHIP CERAMIC1000PF CH 1005
C41	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C101	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C102	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C103	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C104	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C105	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C106	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C107	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C108	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C109	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C110	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C111	1-112-692-81	o CAP, CHIP CERAMIC1000PF CH 1005
C112	1-112-692-81	o CAP, CHIP CERAMIC1000PF CH 1005
C113	1-126-394-21	s CAP, CHIP ELECT 10MF (4X5.7)
C114	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C115	1-112-692-81	o CAP, CHIP CERAMIC1000PF CH 1005

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP Description
C116	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C117	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C118	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C119	1-164-874-81	s CAP,CHIP CERAMIC 100PF CH 1005
C120	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C121	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C122	1-112-300-91	s CAP, CERAMIC 4.7MF B (2012)
C123	1-116-346-11	s CAP, ELECT 47MF 105
C124	1-114-238-91	s CAP, CERAMIC 22MF B
C125	1-116-346-11	s CAP, ELECT 47MF 105
C126	1-114-238-91	s CAP, CERAMIC 22MF B
C127	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C128	1-117-949-81	s CAP, CHIP CERAMIC 820PF B1005
C129	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C130	1-114-238-91	s CAP, CERAMIC 22MF B
C131	1-162-923-91	s CAP, CERAMIC 47PF CH 1608
C132	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C133	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C134	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C135	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C136	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C137	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C138	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C139	1-164-858-81	s CAP, CHIP CERAMIC 22PF CH 1005
C140	1-116-100-11	s CAP, ELECT 220MF 105
C141	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C142	1-114-238-91	s CAP, CERAMIC 22MF B
C143	1-114-238-91	s CAP, CERAMIC 22MF B
C144	1-116-100-11	s CAP, ELECT 220MF 105
C145	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C146	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C147	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C148	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C149	1-112-300-91	s CAP, CERAMIC 4.7MF B (2012)
C150	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C151	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C152	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C153	1-114-533-21	s CAP, ELECT 330MF
C154	1-114-533-21	s CAP, ELECT 330MF
C155	1-116-346-11	s CAP, ELECT 47MF 105
C156	1-114-533-21	s CAP, ELECT 330MF
C157	1-114-533-21	s CAP, ELECT 330MF
C158	1-116-346-11	s CAP, ELECT 47MF 105
C159	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C160	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C161	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C162	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C163	1-114-238-91	s CAP, CERAMIC 22MF B
C164	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C165	1-164-882-81	s CAP,CHIP CERAMIC 220PF CH 1005
C166	1-114-214-81	s CAP,CHIP CERAMIC470PF CH1005
C167	1-114-238-91	s CAP, CERAMIC 22MF B
C168	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C169	1-112-015-91	s CAP, CHIP CERAMIC 47MF B 3225
C170	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C201	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C202	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C203	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C204	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP Description
C205	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C206	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C207	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C208	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C209	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C210	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C211	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C212	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C213	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C214	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C215	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C216	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C217	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C218	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C219	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C220	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C221	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C222	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C223	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C224	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C401	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C402	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C403	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C404	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C405	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C406	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C407	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C408	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C409	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C410	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C411	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C412	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C413	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C414	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C415	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C416	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C417	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C418	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C419	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C420	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C421	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C422	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C423	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C424	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C601	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C602	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C603	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C604	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C605	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C606	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C611	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C612	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C613	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C614	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C615	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C616	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C617	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C618	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C619	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP Description
C620	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C701	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C702	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C703	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C704	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C705	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C706	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C707	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C708	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C801	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C802	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C803	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C804	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C805	1-126-391-21	s CAP, CHIP ELECT 47MF (5X5.7)
CN1	1-778-650-31	s CONNECTOR, FFC/FPC(ZIF) ST 30P
CN2	1-565-953-61	s CONNECTOR, FLEXIBLE 4P
CN3	1-784-650-21	s CONNECTOR 2P
CN5	1-766-431-51	s HOUSING, CONNECTOR 30P
CN6	1-506-469-11	s PIN, CONNECTOR 4P
CN7	1-506-469-11	s PIN, CONNECTOR 4P
CN101	1-778-648-31	s CONNECTOR, FFC/FPC(ZIF) ST 20P
D1	8-719-069-28	s DI 1SS400FJTE61
D101	8-719-989-01	s DIODE DA221-TL
D102	8-719-989-01	s DIODE DA221-TL
D103	8-719-989-01	s DIODE DA221-TL
D104	8-719-989-01	s DIODE DA221-TL
D105	8-719-069-28	s DI 1SS400FJTE61
D106	8-719-069-28	s DI 1SS400FJTE61
D107	6-502-352-01	s DI SML-522MU8WT86PQ
D201	6-502-195-01	s DI SML-D12D8WT86SQ
D202	6-503-065-01	s DI SML-D13Y8WT86S
D203	6-503-065-01	s DI SML-D13Y8WT86S
D204	6-503-065-01	s DI SML-D13Y8WT86S
D205	6-502-195-01	s DI SML-D12D8WT86SQ
D206	6-503-065-01	s DI SML-D13Y8WT86S
D207	6-503-065-01	s DI SML-D13Y8WT86S
D208	6-503-065-01	s DI SML-D13Y8WT86S
D209	8-719-991-01	s DIODE DAP222-TL
D210	8-719-991-01	s DIODE DAP222-TL
D211	8-719-991-01	s DIODE DAP222-TL
D212	8-719-991-01	s DIODE DAP222-TL
D213	6-501-358-01	s DIODE CL-197HG5-CD-T
D214	6-503-065-01	s DI SML-D13Y8WT86S
D215	6-503-065-01	s DI SML-D13Y8WT86S
D216	6-503-065-01	s DI SML-D13Y8WT86S
D217	6-501-358-01	s DIODE CL-197HG5-CD-T
D218	6-503-065-01	s DI SML-D13Y8WT86S
D219	6-503-065-01	s DI SML-D13Y8WT86S
D220	6-503-065-01	s DI SML-D13Y8WT86S
D221	6-501-358-01	s DIODE CL-197HG5-CD-T
D222	6-503-065-01	s DI SML-D13Y8WT86S
D223	6-503-065-01	s DI SML-D13Y8WT86S
D224	6-503-065-01	s DI SML-D13Y8WT86S
D225	6-501-358-01	s DIODE CL-197HG5-CD-T
D226	6-503-065-01	s DI SML-D13Y8WT86S
D227	6-503-065-01	s DI SML-D13Y8WT86S
D228	6-503-065-01	s DI SML-D13Y8WT86S
D229	8-719-991-01	s DIODE DAP222-TL

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP Description
D230	8-719-991-01	s DIODE DAP222-TL
D231	8-719-991-01	s DIODE DAP222-TL
D232	8-719-991-01	s DIODE DAP222-TL
D233	6-503-065-01	s DI SML-D13Y8WT86S
D234	6-502-193-01	s DI SML-D12V8WT86SN
D235	6-503-065-01	s DI SML-D13Y8WT86S
D236	6-503-065-01	s DI SML-D13Y8WT86S
D237	6-503-065-01	s DI SML-D13Y8WT86S
D238	6-502-193-01	s DI SML-D12V8WT86SN
D239	6-503-065-01	s DI SML-D13Y8WT86S
D240	6-503-065-01	s DI SML-D13Y8WT86S
D241	6-503-065-01	s DI SML-D13Y8WT86S
D242	6-502-193-01	s DI SML-D12V8WT86SN
D243	6-503-065-01	s DI SML-D13Y8WT86S
D244	6-503-065-01	s DI SML-D13Y8WT86S
D245	6-503-065-01	s DI SML-D13Y8WT86S
D246	6-502-193-01	s DI SML-D12V8WT86SN
D247	6-503-065-01	s DI SML-D13Y8WT86S
D248	6-503-065-01	s DI SML-D13Y8WT86S
D249	8-719-991-01	s DIODE DAP222-TL
D250	8-719-991-01	s DIODE DAP222-TL
D251	8-719-991-01	s DIODE DAP222-TL
D252	8-719-991-01	s DIODE DAP222-TL
D253	6-503-065-01	s DI SML-D13Y8WT86S
D254	6-502-193-01	s DI SML-D12V8WT86SN
D255	6-503-065-01	s DI SML-D13Y8WT86S
D256	6-502-193-01	s DI SML-D12V8WT86SN
D257	6-503-065-01	s DI SML-D13Y8WT86S
D258	6-502-193-01	s DI SML-D12V8WT86SN
D259	6-503-065-01	s DI SML-D13Y8WT86S
D260	6-502-193-01	s DI SML-D12V8WT86SN
D261	6-503-065-01	s DI SML-D13Y8WT86S
D262	6-502-195-01	s DI SML-D12D8WT86SQ
D263	6-503-065-01	s DI SML-D13Y8WT86S
D264	6-502-195-01	s DI SML-D12D8WT86SQ
D265	8-719-991-01	s DIODE DAP222-TL
D266	8-719-991-01	s DIODE DAP222-TL
D267	6-501-358-01	s DIODE CL-197HG5-CD-T
D268	6-501-358-01	s DIODE CL-197HG5-CD-T
D269	6-502-195-01	s DI SML-D12D8WT86SQ
D270	6-503-065-01	s DI SML-D13Y8WT86S
D271	6-502-195-01	s DI SML-D12D8WT86SQ
D272	6-503-065-01	s DI SML-D13Y8WT86S
D273	6-502-195-01	s DI SML-D12D8WT86SQ
D274	6-503-065-01	s DI SML-D13Y8WT86S
D275	6-502-195-01	s DI SML-D12D8WT86SQ
D276	6-503-065-01	s DI SML-D13Y8WT86S
D277	8-719-991-01	s DIODE DAP222-TL
D278	8-719-991-01	s DIODE DAP222-TL
D279	8-719-991-01	s DIODE DAP222-TL
D280	8-719-991-01	s DIODE DAP222-TL
D281	6-503-065-01	s DI SML-D13Y8WT86S
D282	6-503-065-01	s DI SML-D13Y8WT86S
D283	6-501-358-01	s DIODE CL-197HG5-CD-T
D284	6-503-065-01	s DI SML-D13Y8WT86S
D285	6-503-065-01	s DI SML-D13Y8WT86S
D286	6-503-065-01	s DI SML-D13Y8WT86S
D287	6-501-358-01	s DIODE CL-197HG5-CD-T
D288	6-503-065-01	s DI SML-D13Y8WT86S

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP	Description
D402	6-503-065-01	s	DI SML-D13Y8WT86S
D403	6-503-065-01	s	DI SML-D13Y8WT86S
D404	6-503-065-01	s	DI SML-D13Y8WT86S
D405	6-503-065-01	s	DI SML-D13Y8WT86S
D406	6-503-065-01	s	DI SML-D13Y8WT86S
D407	6-503-065-01	s	DI SML-D13Y8WT86S
D408	6-503-065-01	s	DI SML-D13Y8WT86S
D409	8-719-991-01	s	DIODE DAP222-TL
D410	8-719-991-01	s	DIODE DAP222-TL
D411	8-719-991-01	s	DIODE DAP222-TL
D412	8-719-991-01	s	DIODE DAP222-TL
D413	6-503-065-01	s	DI SML-D13Y8WT86S
D414	6-503-065-01	s	DI SML-D13Y8WT86S
D415	6-503-065-01	s	DI SML-D13Y8WT86S
D416	6-503-065-01	s	DI SML-D13Y8WT86S
D417	6-503-065-01	s	DI SML-D13Y8WT86S
D418	6-503-065-01	s	DI SML-D13Y8WT86S
D419	6-503-065-01	s	DI SML-D13Y8WT86S
D420	6-503-065-01	s	DI SML-D13Y8WT86S
D421	6-503-065-01	s	DI SML-D13Y8WT86S
D422	6-503-065-01	s	DI SML-D13Y8WT86S
D423	6-503-065-01	s	DI SML-D13Y8WT86S
D424	6-503-065-01	s	DI SML-D13Y8WT86S
D425	6-503-065-01	s	DI SML-D13Y8WT86S
D426	6-503-065-01	s	DI SML-D13Y8WT86S
D427	6-503-065-01	s	DI SML-D13Y8WT86S
D428	6-503-065-01	s	DI SML-D13Y8WT86S
D429	8-719-991-01	s	DIODE DAP222-TL
D430	8-719-991-01	s	DIODE DAP222-TL
D431	8-719-991-01	s	DIODE DAP222-TL
D432	8-719-991-01	s	DIODE DAP222-TL
D433	6-503-065-01	s	DI SML-D13Y8WT86S
D434	6-503-065-01	s	DI SML-D13Y8WT86S
D435	6-503-065-01	s	DI SML-D13Y8WT86S
D436	6-501-358-01	s	DIODE CL-197HG5-CD-T
D437	6-503-065-01	s	DI SML-D13Y8WT86S
D438	6-503-065-01	s	DI SML-D13Y8WT86S
D439	6-503-065-01	s	DI SML-D13Y8WT86S
D440	6-501-358-01	s	DIODE CL-197HG5-CD-T
D441	6-503-065-01	s	DI SML-D13Y8WT86S
D442	6-503-065-01	s	DI SML-D13Y8WT86S
D443	6-503-065-01	s	DI SML-D13Y8WT86S
D444	6-503-065-01	s	DI SML-D13Y8WT86S
D445	6-503-065-01	s	DI SML-D13Y8WT86S
D446	6-503-065-01	s	DI SML-D13Y8WT86S
D447	6-503-065-01	s	DI SML-D13Y8WT86S
D448	6-503-065-01	s	DI SML-D13Y8WT86S
D449	8-719-991-01	s	DIODE DAP222-TL
D450	8-719-991-01	s	DIODE DAP222-TL
D451	8-719-991-01	s	DIODE DAP222-TL
D452	8-719-991-01	s	DIODE DAP222-TL
D453	6-503-065-01	s	DI SML-D13Y8WT86S
D454	6-503-065-01	s	DI SML-D13Y8WT86S
D455	6-503-065-01	s	DI SML-D13Y8WT86S
D456	6-503-065-01	s	DI SML-D13Y8WT86S
D457	6-503-065-01	s	DI SML-D13Y8WT86S
D458	6-503-065-01	s	DI SML-D13Y8WT86S
D459	6-503-065-01	s	DI SML-D13Y8WT86S
D460	6-503-065-01	s	DI SML-D13Y8WT86S

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP	Description
D520	8-719-991-01	s	DIODE DAP222-TL
D521	6-502-352-01	s	DI SML-522MU8WT86PQ
D522	6-503-065-01	s	DI SML-D13Y8WT86S
D523	6-503-065-01	s	DI SML-D13Y8WT86S
D524	6-503-065-01	s	DI SML-D13Y8WT86S
D525	6-503-065-01	s	DI SML-D13Y8WT86S
D526	6-503-065-01	s	DI SML-D13Y8WT86S
D601	6-502-352-01	s	DI SML-522MU8WT86PQ
D602	6-502-352-01	s	DI SML-522MU8WT86PQ
D603	6-502-352-01	s	DI SML-522MU8WT86PQ
D604	6-502-352-01	s	DI SML-522MU8WT86PQ
D605	6-502-352-01	s	DI SML-522MU8WT86PQ
D606	6-502-352-01	s	DI SML-522MU8WT86PQ
D607	6-502-352-01	s	DI SML-522MU8WT86PQ
D608	6-502-352-01	s	DI SML-522MU8WT86PQ
D801	6-502-352-01	s	DI SML-522MU8WT86PQ
D802	6-502-352-01	s	DI SML-522MU8WT86PQ
D803	6-502-352-01	s	DI SML-522MU8WT86PQ
D804	6-502-352-01	s	DI SML-522MU8WT86PQ
D805	6-502-352-01	s	DI SML-522MU8WT86PQ
D806	6-502-352-01	s	DI SML-522MU8WT86PQ
D807	6-502-352-01	s	DI SML-522MU8WT86PQ
D808	6-502-352-01	s	DI SML-522MU8WT86PQ
D809	6-502-352-01	s	DI SML-522MU8WT86PQ
D810	6-502-352-01	s	DI SML-522MU8WT86PQ
D811	6-502-352-01	s	DI SML-522MU8WT86PQ
D812	6-502-352-01	s	DI SML-522MU8WT86PQ
D813	6-502-352-01	s	DI SML-522MU8WT86PQ
D814	6-502-352-01	s	DI SML-522MU8WT86PQ
D815	6-502-352-01	s	DI SML-522MU8WT86PQ
D816	6-502-352-01	s	DI SML-522MU8WT86PQ
D817	6-502-352-01	s	DI SML-522MU8WT86PQ
D818	6-502-352-01	s	DI SML-522MU8WT86PQ
D819	6-502-352-01	s	DI SML-522MU8WT86PQ
D820	6-502-352-01	s	DI SML-522MU8WT86PQ
D821	6-502-352-01	s	DI SML-522MU8WT86PQ
D822	6-502-352-01	s	DI SML-522MU8WT86PQ
D823	6-502-352-01	s	DI SML-522MU8WT86PQ
D824	6-502-352-01	s	DI SML-522MU8WT86PQ
D825	6-502-352-01	s	DI SML-522MU8WT86PQ
D826	6-502-352-01	s	DI SML-522MU8WT86PQ
D827	6-502-352-01	s	DI SML-522MU8WT86PQ
D828	6-502-352-01	s	DI SML-522MU8WT86PQ
D829	6-502-352-01	s	DI SML-522MU8WT86PQ
D830	6-502-352-01	s	DI SML-522MU8WT86PQ
D831	6-502-352-01	s	DI SML-522MU8WT86PQ
D832	6-502-352-01	s	DI SML-522MU8WT86PQ
D833	6-502-352-01	s	DI SML-522MU8WT86PQ
D834	6-502-352-01	s	DI SML-522MU8WT86PQ
D835	6-502-352-01	s	DI SML-522MU8WT86PQ
D836	6-502-352-01	s	DI SML-522MU8WT86PQ
D837	6-502-352-01	s	DI SML-522MU8WT86PQ
D838	6-502-352-01	s	DI SML-522MU8WT86PQ
D839	6-502-352-01	s	DI SML-522MU8WT86PQ
D840	6-502-352-01	s	DI SML-522MU8WT86PQ
D841	6-502-352-01	s	DI SML-522MU8WT86PQ
D842	6-502-352-01	s	DI SML-522MU8WT86PQ
D843	6-502-352-01	s	DI SML-522MU8WT86PQ
D844	6-502-352-01	s	DI SML-522MU8WT86PQ

(SW-1455 BOARD for MSU-1000)

[illegible]

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP	Description
D971	6-502-352-01	s	DI SML-522MU8WT86PQ
D972	6-502-352-01	s	DI SML-522MU8WT86PQ
E101	1-535-877-22	s	CHIP, CHECKER
E102	1-535-877-22	s	CHIP, CHECKER
E103	1-535-877-22	s	CHIP, CHECKER
FB101	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB102	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB103	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB104	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB105	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB106	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB107	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB108	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB109	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB110	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB111	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB112	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB113	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB114	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB115	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB116	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
FB117	1-414-864-21	s	FERRITE, EMI (SMD) (1608)
IC2	6-707-856-01	s	IC TC74LCX74FT(EKJ)
IC3	6-702-879-01	s	IC R3112N281A-TR-FA
IC4	6-702-319-01	s	IC TC7WZ04FK(TE85R)
IC5	6-706-841-01	s	IC EP1C6F256C6N(300)
IC6	8-759-598-44	s	IC TC7WH08FK(TE85R)
IC7	8-759-656-54	s	IC TC7WH14FK(TE85R)
IC8	6-702-879-01	s	IC R3112N281A-TR-FA
IC101	6-711-424-01	s	IC TC74VHC238FK(EL)
IC102	6-711-424-01	s	IC TC74VHC238FK(EL)
IC103	6-707-874-01	s	IC TC74VHC244FT(EKJ)
IC104	6-711-424-01	s	IC TC74VHC238FK(EL)
IC105	6-711-424-01	s	IC TC74VHC238FK(EL)
IC106	6-715-106-01	s	IC YMF795-EZE2
IC107	6-600-680-01	s	PHOTO DIODE BH1690FVC-TR
IC109	6-709-014-01	s	IC UPC2933BT-E2-AZ
IC110	6-713-169-01	s	IC LTC3412AEFE#TR
IC111	6-706-220-01	s	IC LTC3411EMS#TR
IC112	6-709-014-01	s	IC UPC2933BT-E2-AZ
IC113	6-706-879-01	s	IC TPS62020DRCR
IC114	8-759-337-40	s	IC NJM2904V(TB2)
IC201	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC202	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC203	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC204	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC205	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC206	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC207	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC208	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC401	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC402	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC403	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC404	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC405	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC406	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC407	6-707-880-01	s	IC TC74VHC573FT(EKJ)

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Ref. No. or Q'ty	Part No.	SP	Description
IC408	6-707-880-01	s	IC TC74VHC573FT(EKJ)
IC601	6-711-424-01	s	IC TC74VHC238FK(EL)
IC602	6-711-424-01	s	IC TC74VHC238FK(EL)
IC603	6-711-424-01	s	IC TC74VHC238FK(EL)
IC604	6-711-424-01	s	IC TC74VHC238FK(EL)
IC605	6-707-861-01	s	IC TC74VHC04FT(EKJ)
IC606	6-707-861-01	s	IC TC74VHC04FT(EKJ)
IC701	6-711-424-01	s	IC TC74VHC238FK(EL)
IC702	6-711-424-01	s	IC TC74VHC238FK(EL)
IC703	6-711-424-01	s	IC TC74VHC238FK(EL)
IC704	6-711-424-01	s	IC TC74VHC238FK(EL)
IC801	8-759-491-48	s	IC TC74VHCT138AFT(EL)
IC802	6-711-424-01	s	IC TC74VHC238FK(EL)
L1	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L2	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L3	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L4	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L5	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L101	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L102	1-416-344-21	s	COIL, CHOKE 10UH
L103	1-457-205-21	s	COIL, CHOKE (SMD) 3.3UH
L104	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L105	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L106	1-457-205-21	s	COIL, CHOKE (SMD) 3.3UH
L107	1-416-344-21	s	COIL, CHOKE 10UH
L108	1-457-205-21	s	COIL, CHOKE (SMD) 3.3UH
L109	1-416-344-21	s	COIL, CHOKE 10UH
L110	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L111	1-416-344-21	s	COIL, CHOKE 10UH
L112	1-416-344-21	s	COIL, CHOKE 10UH
L113	1-416-510-21	s	COIL, CHOKE 100UH
L114	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L115	1-416-344-21	s	COIL, CHOKE 10UH
L116	1-416-344-21	s	COIL, CHOKE 10UH
L117	1-416-344-21	s	COIL, CHOKE 10UH
L601	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
ND1	6-503-067-01	s	DI LF-301MKN
ND2	6-503-067-01	s	DI LF-301MKN
ND3	6-503-067-01	s	DI LF-301MKN
ND4	6-503-067-01	s	DI LF-301MKN
ND5	6-503-067-01	s	DI LF-301MKN
ND6	6-503-067-01	s	DI LF-301MKN
ND7	6-503-067-01	s	DI LF-301MKN
ND8	6-503-067-01	s	DI LF-301MKN
ND9	6-503-067-01	s	DI LF-301MKN
ND10	6-503-067-01	s	DI LF-301MKN
ND11	6-503-067-01	s	DI LF-301MKN
ND12	6-503-067-01	s	DI LF-301MKN
ND13	6-503-067-01	s	DI LF-301MKN
ND14	6-503-067-01	s	DI LF-301MKN
ND15	6-503-067-01	s	DI LF-301MKN
ND16	6-503-067-01	s	DI LF-301MKN
ND17	6-503-067-01	s	DI LF-301MKN
ND18	6-503-067-01	s	DI LF-301MKN
ND19	6-503-067-01	s	DI LF-301MKN
ND20	6-503-067-01	s	DI LF-301MKN
ND21	6-503-067-01	s	DI LF-301MKN
ND22	6-503-067-01	s	DI LF-301MKN

(SW-1455 BOARD for MSU-1000)

[illegible]

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP	Description
Q701	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q702	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q703	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q704	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q705	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q706	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q707	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q708	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q709	8-729-102-94	s	TRANSISTOR 2SD596-T1DV
Q710	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q711	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q712	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q713	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q714	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q715	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q716	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q717	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q718	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q719	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q720	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q721	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q722	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q723	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q724	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q725	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q726	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q727	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q728	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q729	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q730	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q731	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q732	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q733	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q734	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q735	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q736	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q737	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q738	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q739	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q740	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q741	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q742	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q743	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q744	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q745	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q746	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q747	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q748	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q749	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q750	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q751	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q752	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q753	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q754	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q755	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q756	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q801	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q802	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q803	8-729-928-55	s	TRANSISTOR DTA123JE-TL

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Ref. No. or Q'ty	Part No.	SP Description
Q804	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q805	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q806	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q807	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q808	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q809	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q810	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q811	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q812	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q813	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q814	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q815	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q816	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q817	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q818	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q819	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q820	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q821	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q822	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q823	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q824	8-729-102-84 s	TRANSISTOR 2SB624-T1BV5
Q825	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q826	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q827	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q828	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q829	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q830	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q831	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q832	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q833	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q834	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q835	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q836	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q837	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q838	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q839	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q840	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q841	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q842	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q843	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q844	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q845	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q846	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q847	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q848	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q849	8-729-102-94 s	TRANSISTOR 2SD596-T1DV5
Q850	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q851	8-729-102-94 s	TRANSISTOR 2SD596-T1DV5
Q852	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q853	8-729-102-94 s	TRANSISTOR 2SD596-T1DV5
Q854	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q855	8-729-102-94 s	TRANSISTOR 2SD596-T1DV5
Q856	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q857	8-729-102-94 s	TRANSISTOR 2SD596-T1DV5
Q858	8-729-929-09 s	TRANSISTOR DTC123JE-TL
Q859	8-729-102-94 s	TRANSISTOR 2SD596-T1DV5
Q860	8-729-928-55 s	TRANSISTOR DTA123JE-TL
Q861	8-729-102-94 s	TRANSISTOR 2SD596-T1DV5
Q862	8-729-929-09 s	TRANSISTOR DTC123JE-TL

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Ref. No. or Q'ty	Part No.	SP Description
Q863	8-729-102-94 s	TRANSISTOR 2SD596-T1DV5
Q864	8-729-928-55 s	TRANSISTOR DTA123JE-TL
R1	1-208-935-81 s	RES, CHIP 100K (1005)
R2	1-220-870-81 s	RES, CHIP 10 (1005)
R3	1-220-870-81 s	RES, CHIP 10 (1005)
R4	1-220-870-81 s	RES, CHIP 10 (1005)
R5	1-220-870-81 s	RES, CHIP 10 (1005)
R6	1-220-870-81 s	RES, CHIP 10 (1005)
R7	1-220-870-81 s	RES, CHIP 10 (1005)
R8	1-220-870-81 s	RES, CHIP 10 (1005)
R9	1-208-935-81 s	RES, CHIP 100K (1005)
R10	1-208-935-81 s	RES, CHIP 100K (1005)
R11	1-208-863-81 s	RES, CHIP 100 (1005)
R12	1-208-863-81 s	RES, CHIP 100 (1005)
R13	1-208-927-81 s	RES, CHIP 47K (1005)
R14	1-208-927-81 s	RES, CHIP 47K (1005)
R15	1-208-927-81 s	RES, CHIP 47K (1005)
R16	1-208-927-81 s	RES, CHIP 47K (1005)
R17	1-208-911-81 s	RES, CHIP 10K (1005)
R18	1-208-911-81 s	RES, CHIP 10K (1005)
R19	1-208-855-81 s	RES, CHIP 47 (1005)
R20	1-220-870-81 s	RES, CHIP 10 (1005)
R21	1-208-935-81 s	RES, CHIP 100K (1005)
R23	1-220-870-81 s	RES, CHIP 10 (1005)
R24	1-208-911-81 s	RES, CHIP 10K (1005)
R25	1-208-911-81 s	RES, CHIP 10K (1005)
R26	1-208-911-81 s	RES, CHIP 10K (1005)
R27	1-208-887-81 s	RES, CHIP 1.0K (1005)
R28	1-208-911-81 s	RES, CHIP 10K (1005)
R29	1-208-911-81 s	RES, CHIP 10K (1005)
R30	1-208-911-81 s	RES, CHIP 10K (1005)
R31	1-208-911-81 s	RES, CHIP 10K (1005)
R32	1-208-911-81 s	RES, CHIP 10K (1005)
R34	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R41	1-208-927-81 s	RES, CHIP 47K (1005)
R42	1-208-927-81 s	RES, CHIP 47K (1005)
R43	1-208-927-81 s	RES, CHIP 47K (1005)
R44	1-208-927-81 s	RES, CHIP 47K (1005)
R45	1-220-870-81 s	RES, CHIP 10 (1005)
R46	1-220-870-81 s	RES, CHIP 10 (1005)
R47	1-220-870-81 s	RES, CHIP 10 (1005)
R48	1-220-870-81 s	RES, CHIP 10 (1005)
R49	1-208-887-81 s	RES, CHIP 1.0K (1005)
R50	1-208-875-81 s	RES, CHIP 330 (1005)
R51	1-208-899-81 s	RES, CHIP 3.3K (1005)
R52	1-220-870-81 s	RES, CHIP 10 (1005)
R53	1-208-895-81 s	RES, CHIP 2.2K (1005)
R54	1-208-903-81 s	RES, CHIP 4.7K (1005)
R102	1-211-969-91 s	RES, CHIP 10 (1608)
R103	1-208-863-81 s	RES, CHIP 100 (1005)
R104	1-208-863-81 s	RES, CHIP 100 (1005)
R105	1-208-863-81 s	RES, CHIP 100 (1005)
R106	1-208-863-81 s	RES, CHIP 100 (1005)
R107	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R108	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R109	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R110	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R111	1-208-927-81 s	RES, CHIP 47K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R112	1-218-990-81	s CONDUCTOR, CHIP (1005)
R115	1-218-990-81	s CONDUCTOR, CHIP (1005)
R116	1-218-977-81	s RES, CHIP 100K
R117	1-218-969-81	s RES, CHIP 22K
R118	1-208-911-81	s RES, CHIP 10K (1005)
R119	1-208-911-81	s RES, CHIP 10K (1005)
R120	1-208-855-81	s RES, CHIP 47 (1005)
R121	1-208-908-81	s RES, CHIP 7.5K (1005)
R122	1-218-989-81	s RES, CHIP 1M
R123	1-211-899-91	s RES,SQUARE TYPE CHIP 0.22 3225
R124	1-218-981-81	s RES, CHIP 220K
R125	1-218-977-81	s RES, CHIP 100K
R126	1-218-967-81	s RES, CHIP 15K
R127	1-218-983-81	s RES, CHIP 330K
R128	1-218-977-81	s RES, CHIP 100K
R129	1-208-939-81	s RES, CHIP 150K (1005)
R130	1-208-931-81	s RES, CHIP 68K (1005)
R131	1-208-959-81	s RES, CHIP 1M (1005)
R132	1-208-931-81	s RES, CHIP 68K (1005)
R133	1-208-935-81	s RES, CHIP 100K (1005)
R134	1-208-919-81	s RES, CHIP 22K (1005)
R135	1-208-955-81	s RES, CHIP 680K (1005)
R136	1-211-899-91	s RES,SQUARE TYPE CHIP 0.22 3225
R137	1-208-911-81	s RES, CHIP 10K (1005)
R138	1-208-907-81	s RES, CHIP 6.8K (1005)
R139	1-208-895-81	s RES, CHIP 2.2K (1005)
R140	1-208-911-81	s RES, CHIP 10K (1005)
R141	1-218-977-81	s RES, CHIP 100K
R142	1-208-923-81	s RES, CHIP 33K (1005)
R143	1-208-923-81	s RES, CHIP 33K (1005)
R144	1-208-923-81	s RES, CHIP 33K (1005)
R201	1-208-879-81	s RES, CHIP 470 (1005)
R202	1-208-881-81	s RES, CHIP 560 (1005)
R203	1-208-881-81	s RES, CHIP 560 (1005)
R204	1-208-881-81	s RES, CHIP 560 (1005)
R205	1-208-879-81	s RES, CHIP 470 (1005)
R206	1-208-881-81	s RES, CHIP 560 (1005)
R207	1-208-881-81	s RES, CHIP 560 (1005)
R208	1-208-881-81	s RES, CHIP 560 (1005)
R209	1-208-873-81	s RES, CHIP 270 (1005)
R210	1-208-881-81	s RES, CHIP 560 (1005)
R211	1-208-881-81	s RES, CHIP 560 (1005)
R212	1-208-881-81	s RES, CHIP 560 (1005)
R213	1-208-873-81	s RES, CHIP 270 (1005)
R214	1-208-881-81	s RES, CHIP 560 (1005)
R215	1-208-881-81	s RES, CHIP 560 (1005)
R216	1-208-881-81	s RES, CHIP 560 (1005)
R217	1-208-873-81	s RES, CHIP 270 (1005)
R218	1-208-881-81	s RES, CHIP 560 (1005)
R219	1-208-881-81	s RES, CHIP 560 (1005)
R220	1-208-881-81	s RES, CHIP 560 (1005)
R221	1-208-873-81	s RES, CHIP 270 (1005)
R222	1-208-881-81	s RES, CHIP 560 (1005)
R223	1-208-881-81	s RES, CHIP 560 (1005)
R224	1-208-881-81	s RES, CHIP 560 (1005)
R225	1-208-881-81	s RES, CHIP 560 (1005)
R226	1-208-877-81	s RES, CHIP 390 (1005)
R227	1-208-881-81	s RES, CHIP 560 (1005)
R228	1-208-881-81	s RES, CHIP 560 (1005)

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP Description
R229	1-208-881-81	s RES, CHIP 560 (1005)
R230	1-208-877-81	s RES, CHIP 390 (1005)
R231	1-208-881-81	s RES, CHIP 560 (1005)
R232	1-208-881-81	s RES, CHIP 560 (1005)
R233	1-208-881-81	s RES, CHIP 560 (1005)
R234	1-208-877-81	s RES, CHIP 390 (1005)
R235	1-208-881-81	s RES, CHIP 560 (1005)
R236	1-208-881-81	s RES, CHIP 560 (1005)
R237	1-208-881-81	s RES, CHIP 560 (1005)
R238	1-208-877-81	s RES, CHIP 390 (1005)
R239	1-208-881-81	s RES, CHIP 560 (1005)
R240	1-208-881-81	s RES, CHIP 560 (1005)
R241	1-208-881-81	s RES, CHIP 560 (1005)
R242	1-208-877-81	s RES, CHIP 390 (1005)
R243	1-208-881-81	s RES, CHIP 560 (1005)
R244	1-208-877-81	s RES, CHIP 390 (1005)
R245	1-208-881-81	s RES, CHIP 560 (1005)
R246	1-208-877-81	s RES, CHIP 390 (1005)
R247	1-208-881-81	s RES, CHIP 560 (1005)
R248	1-208-877-81	s RES, CHIP 390 (1005)
R249	1-208-881-81	s RES, CHIP 560 (1005)
R250	1-208-879-81	s RES, CHIP 470 (1005)
R251	1-208-881-81	s RES, CHIP 560 (1005)
R252	1-208-879-81	s RES, CHIP 470 (1005)
R253	1-208-873-81	s RES, CHIP 270 (1005)
R254	1-208-873-81	s RES, CHIP 270 (1005)
R255	1-208-879-81	s RES, CHIP 470 (1005)
R256	1-208-881-81	s RES, CHIP 560 (1005)
R257	1-208-879-81	s RES, CHIP 470 (1005)
R258	1-208-881-81	s RES, CHIP 560 (1005)
R259	1-208-879-81	s RES, CHIP 470 (1005)
R260	1-208-881-81	s RES, CHIP 560 (1005)
R261	1-208-879-81	s RES, CHIP 470 (1005)
R262	1-208-881-81	s RES, CHIP 560 (1005)
R263	1-208-881-81	s RES, CHIP 560 (1005)
R264	1-208-881-81	s RES, CHIP 560 (1005)
R265	1-208-873-81	s RES, CHIP 270 (1005)
R266	1-208-881-81	s RES, CHIP 560 (1005)
R267	1-208-881-81	s RES, CHIP 560 (1005)
R268	1-208-881-81	s RES, CHIP 560 (1005)
R269	1-208-873-81	s RES, CHIP 270 (1005)
R270	1-208-881-81	s RES, CHIP 560 (1005)
R271	1-208-881-81	s RES, CHIP 560 (1005)
R272	1-208-881-81	s RES, CHIP 560 (1005)
R273	1-208-881-81	s RES, CHIP 560 (1005)
R274	1-208-881-81	s RES, CHIP 560 (1005)
R275	1-208-881-81	s RES, CHIP 560 (1005)
R276	1-208-881-81	s RES, CHIP 560 (1005)
R277	1-208-881-81	s RES, CHIP 560 (1005)
R278	1-208-881-81	s RES, CHIP 560 (1005)
R279	1-208-881-81	s RES, CHIP 560 (1005)
R280	1-208-881-81	s RES, CHIP 560 (1005)
R281	1-208-881-81	s RES, CHIP 560 (1005)
R282	1-208-881-81	s RES, CHIP 560 (1005)
R283	1-208-881-81	s RES, CHIP 560 (1005)
R284	1-208-881-81	s RES, CHIP 560 (1005)
R285	1-208-881-81	s RES, CHIP 560 (1005)
R286	1-208-881-81	s RES, CHIP 560 (1005)
R287	1-208-881-81	s RES, CHIP 560 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description			
R431	1-208-881-81	s	RES, CHIP	560	(1005)	
R432	1-208-873-81	s	RES, CHIP	270	(1005)	
R433	1-208-881-81	s	RES, CHIP	560	(1005)	
R434	1-208-881-81	s	RES, CHIP	560	(1005)	
R435	1-208-881-81	s	RES, CHIP	560	(1005)	
R436	1-208-881-81	s	RES, CHIP	560	(1005)	
R437	1-208-881-81	s	RES, CHIP	560	(1005)	
R438	1-208-881-81	s	RES, CHIP	560	(1005)	
R439	1-208-881-81	s	RES, CHIP	560	(1005)	
R440	1-208-881-81	s	RES, CHIP	560	(1005)	
R441	1-208-881-81	s	RES, CHIP	560	(1005)	
R442	1-208-881-81	s	RES, CHIP	560	(1005)	
R443	1-208-881-81	s	RES, CHIP	560	(1005)	
R444	1-208-881-81	s	RES, CHIP	560	(1005)	
R445	1-208-881-81	s	RES, CHIP	560	(1005)	
R446	1-208-881-81	s	RES, CHIP	560	(1005)	
R447	1-208-881-81	s	RES, CHIP	560	(1005)	
R448	1-208-881-81	s	RES, CHIP	560	(1005)	
R449	1-208-881-81	s	RES, CHIP	560	(1005)	
R450	1-208-881-81	s	RES, CHIP	560	(1005)	
R451	1-208-881-81	s	RES, CHIP	560	(1005)	
R452	1-208-881-81	s	RES, CHIP	560	(1005)	
R453	1-208-881-81	s	RES, CHIP	560	(1005)	
R454	1-208-881-81	s	RES, CHIP	560	(1005)	
R455	1-208-881-81	s	RES, CHIP	560	(1005)	
R456	1-208-881-81	s	RES, CHIP	560	(1005)	
R457	1-208-881-81	s	RES, CHIP	560	(1005)	
R458	1-208-881-81	s	RES, CHIP	560	(1005)	
R459	1-208-881-81	s	RES, CHIP	560	(1005)	
R460	1-208-881-81	s	RES, CHIP	560	(1005)	
R461	1-208-895-81	s	RES, CHIP	2.2K	(1005)	
R462	1-208-887-81	s	RES, CHIP	1.0K	(1005)	
R463	1-208-881-81	s	RES, CHIP	560	(1005)	
R464	1-208-881-81	s	RES, CHIP	560	(1005)	
R465	1-208-881-81	s	RES, CHIP	560	(1005)	
R466	1-208-881-81	s	RES, CHIP	560	(1005)	
R467	1-208-895-81	s	RES, CHIP	2.2K	(1005)	
R468	1-208-895-81	s	RES, CHIP	2.2K	(1005)	
R469	1-208-881-81	s	RES, CHIP	560	(1005)	
R470	1-208-881-81	s	RES, CHIP	560	(1005)	
R471	1-208-881-81	s	RES, CHIP	560	(1005)	
R472	1-208-881-81	s	RES, CHIP	560	(1005)	
R473	1-208-895-81	s	RES, CHIP	2.2K	(1005)	
R474	1-208-887-81	s	RES, CHIP	1.0K	(1005)	
R475	1-208-881-81	s	RES, CHIP	560	(1005)	
R476	1-208-881-81	s	RES, CHIP	560	(1005)	
R477	1-208-881-81	s	RES, CHIP	560	(1005)	
R478	1-208-881-81	s	RES, CHIP	560	(1005)	
R479	1-208-895-81	s	RES, CHIP	2.2K	(1005)	
R480	1-208-895-81	s	RES, CHIP	2.2K	(1005)	
R481	1-208-881-81	s	RES, CHIP	560	(1005)	
R482	1-208-881-81	s	RES, CHIP	560	(1005)	
R483	1-208-881-81	s	RES, CHIP	560	(1005)	
R484	1-208-881-81	s	RES, CHIP	560	(1005)	
R485	1-208-887-81	s	RES, CHIP	1.0K	(1005)	
R486	1-208-887-81	s	RES, CHIP	1.0K	(1005)	
R487	1-208-881-81	s	RES, CHIP	560	(1005)	
R488	1-208-881-81	s	RES, CHIP	560	(1005)	
R489	1-208-881-81	s	RES, CHIP	560	(1005)	

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Ref. No. or Q'ty	Part No.	SP	Description		
R711	1-211-969-91	s	RES, CHIP	10	(1608)
R712	1-211-969-91	s	RES, CHIP	10	(1608)
R713	1-211-969-91	s	RES, CHIP	10	(1608)
R714	1-211-969-91	s	RES, CHIP	10	(1608)
R715	1-211-969-91	s	RES, CHIP	10	(1608)
R716	1-211-969-91	s	RES, CHIP	10	(1608)
R801	1-211-987-91	s	RES, CHIP	56	(1608)
R802	1-211-981-91	s	RES, CHIP	33	(1608)
R803	1-220-870-81	s	RES, CHIP	10	(1005)
R804	1-211-987-91	s	RES, CHIP	56	(1608)
R805	1-211-981-91	s	RES, CHIP	33	(1608)
R806	1-211-987-91	s	RES, CHIP	56	(1608)
R807	1-211-981-91	s	RES, CHIP	33	(1608)
R808	1-220-870-81	s	RES, CHIP	10	(1005)
R809	1-211-987-91	s	RES, CHIP	56	(1608)
R810	1-211-981-91	s	RES, CHIP	33	(1608)
R811	1-220-870-81	s	RES, CHIP	10	(1005)
R812	1-211-987-91	s	RES, CHIP	56	(1608)
R813	1-211-981-91	s	RES, CHIP	33	(1608)
R814	1-211-987-91	s	RES, CHIP	56	(1608)
R815	1-211-981-91	s	RES, CHIP	33	(1608)
R816	1-220-870-81	s	RES, CHIP	10	(1005)
R817	1-211-987-91	s	RES, CHIP	56	(1608)
R818	1-211-981-91	s	RES, CHIP	33	(1608)
R819	1-220-870-81	s	RES, CHIP	10	(1005)
R820	1-211-987-91	s	RES, CHIP	56	(1608)
R821	1-211-981-91	s	RES, CHIP	33	(1608)
R822	1-211-969-91	s	RES, CHIP	10	(1608)
R823	1-220-870-81	s	RES, CHIP	10	(1005)
R824	1-211-969-91	s	RES, CHIP	10	(1608)
R825	1-220-870-81	s	RES, CHIP	10	(1005)
R826	1-211-969-91	s	RES, CHIP	10	(1608)
R827	1-211-969-91	s	RES, CHIP	10	(1608)
R828	1-220-870-81	s	RES, CHIP	10	(1005)
R829	1-211-969-91	s	RES, CHIP	10	(1608)
R830	1-220-870-81	s	RES, CHIP	10	(1005)
R831	1-211-969-91	s	RES, CHIP	10	(1608)
R832	1-211-969-91	s	RES, CHIP	10	(1608)
R833	1-220-870-81	s	RES, CHIP	10	(1005)
R834	1-211-969-91	s	RES, CHIP	10	(1608)
R835	1-220-870-81	s	RES, CHIP	10	(1005)
R836	1-220-870-81	s	RES, CHIP	10	(1005)
R837	1-220-870-81	s	RES, CHIP	10	(1005)
R838	1-220-870-81	s	RES, CHIP	10	(1005)
R839	1-220-870-81	s	RES, CHIP	10	(1005)
R840	1-220-870-81	s	RES, CHIP	10	(1005)
R841	1-211-981-91	s	RES, CHIP	33	(1608)
R842	1-211-981-91	s	RES, CHIP	33	(1608)
R843	1-211-981-91	s	RES, CHIP	33	(1608)
R844	1-211-981-91	s	RES, CHIP	33	(1608)
R845	1-211-969-91	s	RES, CHIP	10	(1608)
R846	1-211-969-91	s	RES, CHIP	10	(1608)
R847	1-211-969-91	s	RES, CHIP	10	(1608)
R848	1-211-969-91	s	RES, CHIP	10	(1608)
R849	1-211-981-91	s	RES, CHIP	33	(1608)
R850	1-211-981-91	s	RES, CHIP	33	(1608)
R851	1-211-981-91	s	RES, CHIP	33	(1608)
R852	1-211-981-91	s	RES, CHIP	33	(1608)
R853	1-211-969-91	s	RES, CHIP	10	(1608)

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Ref. No. or Q'ty	Part No.	SP	Description		
R913	1-211-969-91	s	RES, CHIP	10	(1608)
R914	1-211-969-91	s	RES, CHIP	10	(1608)
R915	1-211-981-91	s	RES, CHIP	33	(1608)
R916	1-211-981-91	s	RES, CHIP	33	(1608)
R917	1-211-969-91	s	RES, CHIP	10	(1608)
R918	1-211-969-91	s	RES, CHIP	10	(1608)
R919	1-211-981-91	s	RES, CHIP	33	(1608)
R920	1-211-969-91	s	RES, CHIP	10	(1608)
R921	1-211-981-91	s	RES, CHIP	33	(1608)
R922	1-211-981-91	s	RES, CHIP	33	(1608)
R923	1-211-969-91	s	RES, CHIP	10	(1608)
R924	1-211-969-91	s	RES, CHIP	10	(1608)
R925	1-211-981-91	s	RES, CHIP	33	(1608)
R926	1-211-981-91	s	RES, CHIP	33	(1608)
R927	1-211-969-91	s	RES, CHIP	10	(1608)
R928	1-211-981-91	s	RES, CHIP	33	(1608)
R929	1-211-969-91	s	RES, CHIP	10	(1608)
R930	1-211-969-91	s	RES, CHIP	10	(1608)
R931	1-211-981-91	s	RES, CHIP	33	(1608)
R932	1-211-981-91	s	RES, CHIP	33	(1608)
R933	1-211-969-91	s	RES, CHIP	10	(1608)
R934	1-211-969-91	s	RES, CHIP	10	(1608)
R935	1-211-981-91	s	RES, CHIP	33	(1608)
R936	1-211-981-91	s	RES, CHIP	33	(1608)
R937	1-211-981-91	s	RES, CHIP	33	(1608)
R938	1-211-969-91	s	RES, CHIP	10	(1608)
R939	1-211-969-91	s	RES, CHIP	10	(1608)
R940	1-211-969-91	s	RES, CHIP	10	(1608)
R941	1-211-981-91	s	RES, CHIP	33	(1608)
R942	1-211-981-91	s	RES, CHIP	33	(1608)
R943	1-211-969-91	s	RES, CHIP	10	(1608)
R944	1-211-969-91	s	RES, CHIP	10	(1608)
R945	1-211-981-91	s	RES, CHIP	33	(1608)
R946	1-211-969-91	s	RES, CHIP	10	(1608)
R947	1-211-981-91	s	RES, CHIP	33	(1608)
R948	1-211-981-91	s	RES, CHIP	33	(1608)
R949	1-211-981-91	s	RES, CHIP	33	(1608)
R950	1-211-969-91	s	RES, CHIP	10	(1608)
R951	1-211-969-91	s	RES, CHIP	10	(1608)
R952	1-211-969-91	s	RES, CHIP	10	(1608)
R953	1-211-981-91	s	RES, CHIP	33	(1608)
R954	1-211-981-91	s	RES, CHIP	33	(1608)
R955	1-211-969-91	s	RES, CHIP	10	(1608)
R956	1-211-969-91	s	RES, CHIP	10	(1608)
R957	1-211-981-91	s	RES, CHIP	33	(1608)
R958	1-211-969-91	s	RES, CHIP	10	(1608)
R959	1-211-981-91	s	RES, CHIP	33	(1608)
R960	1-211-981-91	s	RES, CHIP	33	(1608)
R961	1-211-981-91	s	RES, CHIP	33	(1608)
R962	1-211-969-91	s	RES, CHIP	10	(1608)
R963	1-211-969-91	s	RES, CHIP	10	(1608)
R964	1-211-969-91	s	RES, CHIP	10	(1608)
R965	1-211-981-91	s	RES, CHIP	33	(1608)
R966	1-211-981-91	s	RES, CHIP	33	(1608)
R967	1-211-969-91	s	RES, CHIP	10	(1608)
R968	1-211-969-91	s	RES, CHIP	10	(1608)
R969	1-211-981-91	s	RES, CHIP	33	(1608)
R970	1-211-969-91	s	RES, CHIP	10	(1608)
R971	1-211-981-91	s	RES, CHIP	33	(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1031	1-211-981-91	s RES,	CHIP 33 (1608)
R1032	1-211-969-91	s RES,	CHIP 10 (1608)
R1033	1-211-981-91	s RES,	CHIP 33 (1608)
R1034	1-211-969-91	s RES,	CHIP 10 (1608)
R1035	1-211-981-91	s RES,	CHIP 33 (1608)
R1036	1-211-969-91	s RES,	CHIP 10 (1608)
R1037	1-211-981-91	s RES,	CHIP 33 (1608)
R1038	1-211-969-91	s RES,	CHIP 10 (1608)
R1039	1-211-981-91	s RES,	CHIP 33 (1608)
R1040	1-211-969-91	s RES,	CHIP 10 (1608)
RB1	1-234-380-21	s RES,	NETWORK 47K (1005X4)
RB2	1-234-377-21	s RES,	NETWORK 4.7K (1005X4)
RB3	1-234-377-21	s RES,	NETWORK 4.7K (1005X4)
RB4	1-234-380-21	s RES,	NETWORK 47K (1005X4)
RB5	1-234-380-21	s RES,	NETWORK 47K (1005X4)
RB6	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB7	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB8	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB9	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB10	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB11	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB12	1-234-380-21	s RES,	NETWORK 47K (1005X4)
RB13	1-234-380-21	s RES,	NETWORK 47K (1005X4)
RB14	1-234-380-21	s RES,	NETWORK 47K (1005X4)
RB15	1-234-380-21	s RES,	NETWORK 47K (1005X4)
RB16	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB17	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB18	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB19	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB20	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB21	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB22	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB23	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB24	1-234-369-21	s RES,	NETWORK 10 (1005X4)
RB25	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB26	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB27	1-234-380-21	s RES,	NETWORK 47K (1005X4)
RB101	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB102	1-234-381-21	s RES,	NETWORK 100K (1005X4)
RB103	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB104	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB105	1-234-371-21	s RES,	NETWORK 47 (1005X4)
RB106	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB601	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB602	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB603	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB604	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB605	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB606	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB607	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB608	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB609	1-234-372-21	s RES,	NETWORK 100 (1005X4)
RB610	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB611	1-234-378-21	s RES,	NETWORK 10K (1005X4)
RB701	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB702	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB703	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB704	1-234-373-21	s RES,	NETWORK 220 (1005X4)
RB705	1-234-373-21	s RES,	NETWORK 220 (1005X4)

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP Description
RB706	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB707	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB708	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB801	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB802	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB803	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB804	1-234-373-21	s RES, NETWORK 220 (1005X4)
S1	1-798-311-11	s SWITCH, TACTILE
S2	1-798-311-11	s SWITCH, TACTILE
S3	1-798-311-11	s SWITCH, TACTILE
S4	1-798-311-11	s SWITCH, TACTILE
S5	1-798-311-11	s SWITCH, TACTILE
S6	1-798-311-11	s SWITCH, TACTILE
S7	1-798-311-11	s SWITCH, TACTILE
S8	1-798-311-11	s SWITCH, TACTILE
S9	1-798-311-11	s SWITCH, TACTILE
S10	1-798-311-11	s SWITCH, TACTILE
S11	1-798-311-11	s SWITCH, TACTILE
S12	1-798-311-11	s SWITCH, TACTILE
S13	1-798-311-11	s SWITCH, TACTILE
S14	1-798-311-11	s SWITCH, TACTILE
S15	1-798-311-11	s SWITCH, TACTILE
S16	1-798-311-11	s SWITCH, TACTILE
S17	1-798-311-11	s SWITCH, TACTILE
S18	1-798-311-11	s SWITCH, TACTILE
S19	1-798-311-11	s SWITCH, TACTILE
S20	1-798-311-11	s SWITCH, TACTILE
S21	1-798-311-11	s SWITCH, TACTILE
S22	1-798-311-11	s SWITCH, TACTILE
S23	1-798-311-11	s SWITCH, TACTILE
S24	1-798-311-11	s SWITCH, TACTILE
S25	1-798-311-11	s SWITCH, TACTILE
S26	1-798-311-11	s SWITCH, TACTILE
S27	1-798-311-11	s SWITCH, TACTILE
S28	1-798-311-11	s SWITCH, TACTILE
S29	1-798-311-11	s SWITCH, TACTILE
S30	1-798-311-11	s SWITCH, TACTILE
S31	1-798-311-11	s SWITCH, TACTILE
S32	1-798-311-11	s SWITCH, TACTILE
S33	1-798-311-11	s SWITCH, TACTILE
S34	1-798-311-11	s SWITCH, TACTILE
S35	1-798-311-11	s SWITCH, TACTILE
S36	1-798-311-11	s SWITCH, TACTILE
S37	1-798-311-11	s SWITCH, TACTILE
S38	1-798-311-11	s SWITCH, TACTILE
S39	1-798-311-11	s SWITCH, TACTILE
S40	1-798-311-11	s SWITCH, TACTILE
S41	1-798-311-11	s SWITCH, TACTILE
S42	1-798-311-11	s SWITCH, TACTILE
S43	1-798-311-11	s SWITCH, TACTILE
S44	1-798-311-11	s SWITCH, TACTILE
S45	1-798-311-11	s SWITCH, TACTILE
S46	1-798-311-11	s SWITCH, TACTILE
S47	1-798-311-11	s SWITCH, TACTILE
S48	1-798-311-11	s SWITCH, TACTILE
S49	1-798-311-11	s SWITCH, TACTILE
S50	1-798-311-11	s SWITCH, TACTILE
S51	1-798-311-11	s SWITCH, TACTILE

(SW-1455 BOARD for MSU-1000)

Ref. No. or Q'ty	Part No.	SP Description
S52	1-798-311-11	s SWITCH, TACTILE
S53	1-798-311-11	s SWITCH, TACTILE
S54	1-798-311-11	s SWITCH, TACTILE
S55	1-798-311-11	s SWITCH, TACTILE
S56	1-798-311-11	s SWITCH, TACTILE
S57	1-798-311-11	s SWITCH, TACTILE
S58	1-798-311-11	s SWITCH, TACTILE
S59	1-798-311-11	s SWITCH, TACTILE
S60	1-798-311-11	s SWITCH, TACTILE
S61	1-798-311-11	s SWITCH, TACTILE
S62	1-798-311-11	s SWITCH, TACTILE
S63	1-798-311-11	s SWITCH, TACTILE
S64	1-798-311-11	s SWITCH, TACTILE
S65	1-798-311-11	s SWITCH, TACTILE
S66	1-798-311-11	s SWITCH, TACTILE
S67	1-798-311-11	s SWITCH, TACTILE
S68	1-798-311-11	s SWITCH, TACTILE
S69	1-798-311-11	s SWITCH, TACTILE
S70	1-798-311-11	s SWITCH, TACTILE
S71	1-798-311-11	s SWITCH, TACTILE
S72	1-798-311-11	s SWITCH, TACTILE
S73	1-798-311-11	s SWITCH, TACTILE
S74	1-798-311-11	s SWITCH, TACTILE
S75	1-798-311-11	s SWITCH, TACTILE
S76	1-798-311-11	s SWITCH, TACTILE
S77	1-798-311-11	s SWITCH, TACTILE
S78	1-798-311-11	s SWITCH, TACTILE
S79	1-798-311-11	s SWITCH, TACTILE
S80	1-798-311-11	s SWITCH, TACTILE
S81	1-798-311-11	s SWITCH, TACTILE
S82	1-798-311-11	s SWITCH, TACTILE
S83	1-798-311-11	s SWITCH, TACTILE
S84	1-798-311-11	s SWITCH, TACTILE
S85	1-798-311-11	s SWITCH, TACTILE
S86	1-798-311-11	s SWITCH, TACTILE
S87	1-798-311-11	s SWITCH, TACTILE
S88	1-798-311-11	s SWITCH, TACTILE
S89	1-798-311-11	s SWITCH, TACTILE
S90	1-798-311-11	s SWITCH, TACTILE
S91	1-798-311-11	s SWITCH, TACTILE
S92	1-798-311-11	s SWITCH, TACTILE
S93	1-798-311-11	s SWITCH, TACTILE
S94	1-798-311-11	s SWITCH, TACTILE
S95	1-798-311-11	s SWITCH, TACTILE
S96	1-798-311-11	s SWITCH, TACTILE
S97	1-798-311-11	s SWITCH, TACTILE
S98	1-798-311-11	s SWITCH, TACTILE
S99	1-798-311-11	s SWITCH, TACTILE
S100	1-798-311-11	s SWITCH, TACTILE
S101	1-798-311-11	s SWITCH, TACTILE
S102	1-798-311-11	s SWITCH, TACTILE
S103	1-798-311-11	s SWITCH, TACTILE
THP101 Δ	1-804-458-21	s THERMISTOR, POSITIVE
X1	1-814-011-11	s OSCILLATOR, CRYSTAL (33.1776MHZ)

SW-1456 BOARD for MSU-1500

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1748-543-A	s MOUNTED CIRCUIT BOARD, SW-1456
6pcs	4-169-672-01	s LED REFLECTOR (B)
C1	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C2	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C3	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C4	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C5	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C6	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C7	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C8	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C9	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C10	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C11	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C12	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C13	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C14	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C15	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C16	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C17	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C18	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C19	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C20	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C21	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C22	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C23	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C24	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C25	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C26	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C27	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C28	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C29	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C30	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C31	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C32	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C33	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C34	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C35	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C36	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C37	1-165-989-91	s CAP, CERAMIC 10MF (2012)
C38	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C39	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C40	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C41	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C101	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C102	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C103	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C104	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C105	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C106	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C107	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C108	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C109	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C110	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C111	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C112	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C113	1-126-394-21	s CAP, CHIP ELECT 10MF (4X5.7)
C114	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C115	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005

(SW-1456 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
C116	1-112-692-81	o CAP,CHIP CERAMIC1000PF CH 1005
C117	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C118	1-119-923-81	s CAP, CERAMIC 0.047MF B 1005
C119	1-164-874-81	s CAP,CHIP CERAMIC 100PF CH 1005
C120	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C121	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C150	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C151	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C152	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C153	1-116-340-11	s CAP, ELECT 22MF 105
C154	1-116-340-11	s CAP, ELECT 22MF 105
C155	1-116-340-11	s CAP, ELECT 22MF 105
C156	1-116-340-11	s CAP, ELECT 22MF 105
C157	1-116-340-11	s CAP, ELECT 22MF 105
C158	1-116-340-11	s CAP, ELECT 22MF 105
C201	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C202	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C203	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C204	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C205	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C206	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C207	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C208	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C209	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C210	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C211	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C212	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C213	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C214	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C215	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C216	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C217	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C218	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C219	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C220	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C221	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C222	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C223	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C224	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C401	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C402	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C403	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C404	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C405	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C406	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C407	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C408	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C409	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C501	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C502	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C503	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C504	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C505	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C506	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C511	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C512	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C513	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C514	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C515	1-164-227-91	s CAP,CERAMIC 22000PF B 1608

(SW-1456 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
C516	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C517	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C518	1-164-227-91	s CAP,CERAMIC 22000PF B 1608
C519	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C520	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C601	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C602	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C603	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C604	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C605	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C606	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C607	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C608	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C701	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C702	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C703	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C704	1-114-582-91	o CAP, CERAMIC 0.1MF B 1005
C705	1-126-391-21	s CAP, CHIP ELECT 47MF (5X5.7)
CN1	1-778-650-31	s CONNECTOR, FFC/FPC(ZIF) ST 30P
CN2	1-565-953-61	s CONNECTOR, FLEXIBLE 4P
CN3	1-784-650-21	s CONNECTOR 2P
CN5	1-766-431-51	s HOUSING, CONNECTOR 30P
CN6	1-785-207-51	s HOUSING, CONNECTOR 25P
CN7	1-506-469-11	s PIN, CONNECTOR 4P
CN8	1-506-469-11	s PIN, CONNECTOR 4P
CN101	1-778-648-31	s CONNECTOR, FFC/FPC(ZIF) ST 20P
D1	8-719-069-28	s DI 1SS400FJTE61
D101	8-719-989-01	s DIODE DA221-TL
D102	8-719-989-01	s DIODE DA221-TL
D103	8-719-989-01	s DIODE DA221-TL
D104	8-719-989-01	s DIODE DA221-TL
D107	6-502-352-01	s DI SML-522MU8WT86PQ
D201	6-502-195-01	s DI SML-D12D8WT86SQ
D202	6-503-065-01	s DI SML-D13Y8WT86S
D203	6-503-065-01	s DI SML-D13Y8WT86S
D204	6-503-065-01	s DI SML-D13Y8WT86S
D205	6-502-195-01	s DI SML-D12D8WT86SQ
D206	6-503-065-01	s DI SML-D13Y8WT86S
D207	6-503-065-01	s DI SML-D13Y8WT86S
D208	6-503-065-01	s DI SML-D13Y8WT86S
D209	8-719-991-01	s DIODE DAP222-TL
D210	8-719-991-01	s DIODE DAP222-TL
D211	8-719-991-01	s DIODE DAP222-TL
D212	8-719-991-01	s DIODE DAP222-TL
D213	6-501-358-01	s DIODE CL-197HG5-CD-T
D214	6-503-065-01	s DI SML-D13Y8WT86S
D215	6-503-065-01	s DI SML-D13Y8WT86S
D216	6-503-065-01	s DI SML-D13Y8WT86S
D217	6-501-358-01	s DIODE CL-197HG5-CD-T
D218	6-503-065-01	s DI SML-D13Y8WT86S
D219	6-503-065-01	s DI SML-D13Y8WT86S
D220	6-503-065-01	s DI SML-D13Y8WT86S
D221	6-501-358-01	s DIODE CL-197HG5-CD-T
D222	6-503-065-01	s DI SML-D13Y8WT86S
D223	6-503-065-01	s DI SML-D13Y8WT86S
D224	6-503-065-01	s DI SML-D13Y8WT86S
D225	6-501-358-01	s DIODE CL-197HG5-CD-T
D226	6-503-065-01	s DI SML-D13Y8WT86S

(SW-1456 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
D227	6-503-065-01	s DI SML-D13Y8WT86S
D228	6-503-065-01	s DI SML-D13Y8WT86S
D229	8-719-991-01	s DIODE DAP222-TL
D230	8-719-991-01	s DIODE DAP222-TL
D231	8-719-991-01	s DIODE DAP222-TL
D232	8-719-991-01	s DIODE DAP222-TL
D233	6-503-065-01	s DI SML-D13Y8WT86S
D234	6-502-193-01	s DI SML-D12V8WT86SN
D235	6-503-065-01	s DI SML-D13Y8WT86S
D236	6-503-065-01	s DI SML-D13Y8WT86S
D237	6-502-193-01	s DI SML-D12V8WT86SN
D238	6-503-065-01	s DI SML-D13Y8WT86S
D239	6-503-065-01	s DI SML-D13Y8WT86S
D240	6-502-193-01	s DI SML-D12V8WT86SN
D241	6-503-065-01	s DI SML-D13Y8WT86S
D242	6-503-065-01	s DI SML-D13Y8WT86S
D243	6-502-193-01	s DI SML-D12V8WT86SN
D244	6-503-065-01	s DI SML-D13Y8WT86S
D245	8-719-991-01	s DIODE DAP222-TL
D246	8-719-991-01	s DIODE DAP222-TL
D247	8-719-991-01	s DIODE DAP222-TL
D248	6-503-065-01	s DI SML-D13Y8WT86S
D249	6-502-193-01	s DI SML-D12V8WT86SN
D250	6-502-193-01	s DI SML-D12V8WT86SN
D251	6-503-065-01	s DI SML-D13Y8WT86S
D252	6-502-193-01	s DI SML-D12V8WT86SN
D253	6-502-193-01	s DI SML-D12V8WT86SN
D254	6-503-065-01	s DI SML-D13Y8WT86S
D255	6-502-195-01	s DI SML-D12D8WT86SQ
D256	6-503-065-01	s DI SML-D13Y8WT86S
D257	6-502-195-01	s DI SML-D12D8WT86SQ
D258	8-719-991-01	s DIODE DAP222-TL
D259	6-501-358-01	s DIODE CL-197HG5-CD-T
D260	6-501-358-01	s DIODE CL-197HG5-CD-T
D261	6-502-195-01	s DI SML-D12D8WT86SQ
D262	6-503-065-01	s DI SML-D13Y8WT86S
D263	6-502-195-01	s DI SML-D12D8WT86SQ
D264	6-503-065-01	s DI SML-D13Y8WT86S
D265	6-502-195-01	s DI SML-D12D8WT86SQ
D266	6-503-065-01	s DI SML-D13Y8WT86S
D267	6-502-195-01	s DI SML-D12D8WT86SQ
D268	6-503-065-01	s DI SML-D13Y8WT86S
D269	8-719-991-01	s DIODE DAP222-TL
D270	8-719-991-01	s DIODE DAP222-TL
D271	8-719-991-01	s DIODE DAP222-TL
D272	8-719-991-01	s DIODE DAP222-TL
D273	6-503-065-01	s DI SML-D13Y8WT86S
D274	6-503-065-01	s DI SML-D13Y8WT86S
D275	6-501-358-01	s DIODE CL-197HG5-CD-T
D276	6-503-065-01	s DI SML-D13Y8WT86S
D277	6-503-065-01	s DI SML-D13Y8WT86S
D278	6-503-065-01	s DI SML-D13Y8WT86S
D279	6-501-358-01	s DIODE CL-197HG5-CD-T
D280	6-503-065-01	s DI SML-D13Y8WT86S
D281	6-503-065-01	s DI SML-D13Y8WT86S
D282	6-503-065-01	s DI SML-D13Y8WT86S
D283	6-503-065-01	s DI SML-D13Y8WT86S
D284	6-503-065-01	s DI SML-D13Y8WT86S
D285	6-503-065-01	s DI SML-D13Y8WT86S

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Ref. No. or Q'ty	Part No.	SP	Description
D286	6-503-065-01	s DI	SML-D13Y8WT86S
D287	8-719-991-01	s DIODE	DAP222-TL
D288	8-719-991-01	s DIODE	DAP222-TL
D289	8-719-991-01	s DIODE	DAP222-TL
D290	6-503-065-01	s DI	SML-D13Y8WT86S
D291	6-503-065-01	s DI	SML-D13Y8WT86S
D292	6-503-065-01	s DI	SML-D13Y8WT86S
D293	6-503-065-01	s DI	SML-D13Y8WT86S
D294	6-503-065-01	s DI	SML-D13Y8WT86S
D295	6-503-065-01	s DI	SML-D13Y8WT86S
D296	6-503-065-01	s DI	SML-D13Y8WT86S
D297	6-503-065-01	s DI	SML-D13Y8WT86S
D298	6-503-065-01	s DI	SML-D13Y8WT86S
D299	6-503-065-01	s DI	SML-D13Y8WT86S
D300	6-503-065-01	s DI	SML-D13Y8WT86S
D301	6-503-065-01	s DI	SML-D13Y8WT86S
D302	8-719-991-01	s DIODE	DAP222-TL
D303	8-719-991-01	s DIODE	DAP222-TL
D304	8-719-991-01	s DIODE	DAP222-TL
D305	6-503-065-01	s DI	SML-D13Y8WT86S
D306	6-503-065-01	s DI	SML-D13Y8WT86S
D307	6-503-065-01	s DI	SML-D13Y8WT86S
D308	6-503-065-01	s DI	SML-D13Y8WT86S
D309	6-503-065-01	s DI	SML-D13Y8WT86S
D310	6-503-065-01	s DI	SML-D13Y8WT86S
D311	6-503-065-01	s DI	SML-D13Y8WT86S
D312	6-503-065-01	s DI	SML-D13Y8WT86S
D313	6-503-065-01	s DI	SML-D13Y8WT86S
D314	6-503-065-01	s DI	SML-D13Y8WT86S
D315	6-503-065-01	s DI	SML-D13Y8WT86S
D316	6-503-065-01	s DI	SML-D13Y8WT86S
D317	8-719-991-01	s DIODE	DAP222-TL
D318	8-719-991-01	s DIODE	DAP222-TL
D319	8-719-991-01	s DIODE	DAP222-TL
D320	6-503-065-01	s DI	SML-D13Y8WT86S
D321	6-503-065-01	s DI	SML-D13Y8WT86S
D322	6-503-065-01	s DI	SML-D13Y8WT86S
D323	6-503-065-01	s DI	SML-D13Y8WT86S
D324	6-503-065-01	s DI	SML-D13Y8WT86S
D325	6-503-065-01	s DI	SML-D13Y8WT86S
D326	8-719-991-01	s DIODE	DAP222-TL
D401	6-501-358-01	s DIODE	CL-197HG5-CD-T
D402	6-503-065-01	s DI	SML-D13Y8WT86S
D403	6-503-065-01	s DI	SML-D13Y8WT86S
D404	6-501-358-01	s DIODE	CL-197HG5-CD-T
D405	6-503-065-01	s DI	SML-D13Y8WT86S
D406	8-719-991-01	s DIODE	DAP222-TL
D407	8-719-991-01	s DIODE	DAP222-TL
D408	6-502-193-01	s DI	SML-D12V8WT86SN
D409	6-503-065-01	s DI	SML-D13Y8WT86S
D410	6-502-193-01	s DI	SML-D12V8WT86SN
D411	6-503-065-01	s DI	SML-D13Y8WT86S
D412	6-503-065-01	s DI	SML-D13Y8WT86S
D413	6-503-065-01	s DI	SML-D13Y8WT86S
D414	6-503-065-01	s DI	SML-D13Y8WT86S
D415	6-503-065-01	s DI	SML-D13Y8WT86S
D416	8-719-991-01	s DIODE	DAP222-TL
D417	8-719-991-01	s DIODE	DAP222-TL
D418	6-503-065-01	s DI	SML-D13Y8WT86S

(SW-1456 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP	Description
D419	6-503-065-01	s DI	SML-D13Y8WT86S
D420	6-503-065-01	s DI	SML-D13Y8WT86S
D421	6-503-065-01	s DI	SML-D13Y8WT86S
D422	6-503-065-01	s DI	SML-D13Y8WT86S
D423	6-503-065-01	s DI	SML-D13Y8WT86S
D424	6-502-197-01	s DI	SML-D12M8WT86SM
D425	6-503-065-01	s DI	SML-D13Y8WT86S
D426	6-503-065-01	s DI	SML-D13Y8WT86S
D427	8-719-991-01	s DIODE	DAP222-TL
D428	8-719-991-01	s DIODE	DAP222-TL
D429	6-503-065-01	s DI	SML-D13Y8WT86S
D430	6-503-065-01	s DI	SML-D13Y8WT86S
D431	6-503-065-01	s DI	SML-D13Y8WT86S
D432	6-503-065-01	s DI	SML-D13Y8WT86S
D433	6-503-065-01	s DI	SML-D13Y8WT86S
D434	6-503-065-01	s DI	SML-D13Y8WT86S
D435	6-503-065-01	s DI	SML-D13Y8WT86S
D436	6-503-065-01	s DI	SML-D13Y8WT86S
D437	6-503-065-01	s DI	SML-D13Y8WT86S
D438	6-503-065-01	s DI	SML-D13Y8WT86S
D439	8-719-991-01	s DIODE	DAP222-TL
D440	8-719-991-01	s DIODE	DAP222-TL
D441	6-503-065-01	s DI	SML-D13Y8WT86S
D442	6-503-065-01	s DI	SML-D13Y8WT86S
D443	6-503-065-01	s DI	SML-D13Y8WT86S
D501	6-502-352-01	s DI	SML-522MU8WT86PQ
D502	6-502-352-01	s DI	SML-522MU8WT86PQ
D503	6-502-352-01	s DI	SML-522MU8WT86PQ
D504	6-502-352-01	s DI	SML-522MU8WT86PQ
D505	6-502-352-01	s DI	SML-522MU8WT86PQ
D506	6-502-352-01	s DI	SML-522MU8WT86PQ
D507	6-502-352-01	s DI	SML-522MU8WT86PQ
D508	6-502-352-01	s DI	SML-522MU8WT86PQ
D701	6-502-352-01	s DI	SML-522MU8WT86PQ
D702	6-502-352-01	s DI	SML-522MU8WT86PQ
D703	6-502-352-01	s DI	SML-522MU8WT86PQ
D704	6-502-352-01	s DI	SML-522MU8WT86PQ
D705	6-502-352-01	s DI	SML-522MU8WT86PQ
D706	6-502-352-01	s DI	SML-522MU8WT86PQ
D707	6-502-352-01	s DI	SML-522MU8WT86PQ
D708	6-502-352-01	s DI	SML-522MU8WT86PQ
D709	6-502-352-01	s DI	SML-522MU8WT86PQ
D710	6-502-352-01	s DI	SML-522MU8WT86PQ
D711	6-502-352-01	s DI	SML-522MU8WT86PQ
D712	6-502-352-01	s DI	SML-522MU8WT86PQ
D713	6-502-352-01	s DI	SML-522MU8WT86PQ
D714	6-502-352-01	s DI	SML-522MU8WT86PQ
D715	6-502-352-01	s DI	SML-522MU8WT86PQ
D716	6-502-352-01	s DI	SML-522MU8WT86PQ
D717	6-502-352-01	s DI	SML-522MU8WT86PQ
D718	6-502-352-01	s DI	SML-522MU8WT86PQ
D719	6-502-352-01	s DI	SML-522MU8WT86PQ
D720	6-502-352-01	s DI	SML-522MU8WT86PQ
D721	6-502-352-01	s DI	SML-522MU8WT86PQ
D722	6-502-352-01	s DI	SML-522MU8WT86PQ
D723	6-502-352-01	s DI	SML-522MU8WT86PQ
D724	6-502-352-01	s DI	SML-522MU8WT86PQ
D725	6-502-352-01	s DI	SML-522MU8WT86PQ
D726	6-502-352-01	s DI	SML-522MU8WT86PQ

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Ref. No. or Q'ty	Part No.	SP	Description
D794	6-502-352-01	s	DI SML-522MU8WT86PQ
D795	6-502-352-01	s	DI SML-522MU8WT86PQ
D796	6-502-352-01	s	DI SML-522MU8WT86PQ
D797	6-502-352-01	s	DI SML-522MU8WT86PQ
D798	6-502-352-01	s	DI SML-522MU8WT86PQ
D799	6-502-352-01	s	DI SML-522MU8WT86PQ
D800	6-502-352-01	s	DI SML-522MU8WT86PQ
D801	6-502-352-01	s	DI SML-522MU8WT86PQ
D802	6-502-352-01	s	DI SML-522MU8WT86PQ
D803	6-502-352-01	s	DI SML-522MU8WT86PQ
D804	6-502-352-01	s	DI SML-522MU8WT86PQ
D805	6-502-352-01	s	DI SML-522MU8WT86PQ
D806	6-502-352-01	s	DI SML-522MU8WT86PQ
D807	6-502-352-01	s	DI SML-522MU8WT86PQ
D808	6-502-352-01	s	DI SML-522MU8WT86PQ
D809	6-502-352-01	s	DI SML-522MU8WT86PQ
D810	6-502-352-01	s	DI SML-522MU8WT86PQ
D811	6-502-352-01	s	DI SML-522MU8WT86PQ
D812	6-502-352-01	s	DI SML-522MU8WT86PQ
D813	6-502-352-01	s	DI SML-522MU8WT86PQ
D814	6-502-352-01	s	DI SML-522MU8WT86PQ
D815	6-502-352-01	s	DI SML-522MU8WT86PQ
D816	6-502-352-01	s	DI SML-522MU8WT86PQ
D817	6-502-352-01	s	DI SML-522MU8WT86PQ
D818	6-502-352-01	s	DI SML-522MU8WT86PQ
D819	6-502-352-01	s	DI SML-522MU8WT86PQ
D820	6-502-352-01	s	DI SML-522MU8WT86PQ
D821	6-502-352-01	s	DI SML-522MU8WT86PQ
D822	6-502-352-01	s	DI SML-522MU8WT86PQ
D823	6-502-352-01	s	DI SML-522MU8WT86PQ
D824	6-502-352-01	s	DI SML-522MU8WT86PQ
D825	6-502-352-01	s	DI SML-522MU8WT86PQ
D826	6-502-352-01	s	DI SML-522MU8WT86PQ
D827	6-502-352-01	s	DI SML-522MU8WT86PQ
D828	6-502-352-01	s	DI SML-522MU8WT86PQ
D829	6-502-352-01	s	DI SML-522MU8WT86PQ
D830	6-502-352-01	s	DI SML-522MU8WT86PQ
D831	6-502-352-01	s	DI SML-522MU8WT86PQ
D832	6-502-352-01	s	DI SML-522MU8WT86PQ
D833	6-502-352-01	s	DI SML-522MU8WT86PQ
D834	6-502-352-01	s	DI SML-522MU8WT86PQ
D835	6-502-352-01	s	DI SML-522MU8WT86PQ
D836	6-502-352-01	s	DI SML-522MU8WT86PQ
D837	6-502-352-01	s	DI SML-522MU8WT86PQ
D838	6-502-352-01	s	DI SML-522MU8WT86PQ
D839	6-502-352-01	s	DI SML-522MU8WT86PQ
D840	6-502-352-01	s	DI SML-522MU8WT86PQ
D841	6-502-352-01	s	DI SML-522MU8WT86PQ
D842	6-502-352-01	s	DI SML-522MU8WT86PQ
D843	6-502-352-01	s	DI SML-522MU8WT86PQ
D844	6-502-352-01	s	DI SML-522MU8WT86PQ
D845	6-502-352-01	s	DI SML-522MU8WT86PQ
D846	6-502-352-01	s	DI SML-522MU8WT86PQ
D847	6-502-352-01	s	DI SML-522MU8WT86PQ
D848	6-502-352-01	s	DI SML-522MU8WT86PQ
E101	1-535-877-22	s	CHIP, CHECKER
E102	1-535-877-22	s	CHIP, CHECKER
E103	1-535-877-22	s	CHIP, CHECKER

(SW-1456 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP	Description
IC2	6-707-856-01	s IC	TC74LCX74FT(EKJ)
IC3	6-702-879-01	s IC	R3112N281A-TR-FA
IC4	6-702-319-01	s IC	TC7WZ04FK(TE85R)
IC5	6-706-841-01	s IC	EP1C6F256C6N(300)
IC6	8-759-598-44	s IC	TC7WH08FK(TE85R)
IC7	8-759-656-54	s IC	TC7WH14FK(TE85R)
IC8	6-702-879-01	s IC	R3112N281A-TR-FA
IC101	6-711-424-01	s IC	TC74VHC238FK(EL)
IC102	6-711-424-01	s IC	TC74VHC238FK(EL)
IC103	6-707-874-01	s IC	TC74VHC244FT(EKJ)
IC104	6-711-424-01	s IC	TC74VHC238FK(EL)
IC105	6-711-424-01	s IC	TC74VHC238FK(EL)
IC106	6-715-106-01	s IC	YMF795-EZE2
IC107	6-600-680-01	s	PHOTO DIODE BH1690FVC-TR
IC114	8-759-337-40	s IC	NJM2904V(TE2)
IC201	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC202	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC203	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC204	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC205	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC206	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC207	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC208	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC401	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC402	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC403	6-707-880-01	s IC	TC74VHC573FT(EKJ)
IC501	6-711-424-01	s IC	TC74VHC238FK(EL)
IC502	6-711-424-01	s IC	TC74VHC238FK(EL)
IC503	6-711-424-01	s IC	TC74VHC238FK(EL)
IC504	6-711-424-01	s IC	TC74VHC238FK(EL)
IC505	6-707-861-01	s IC	TC74VHC04FT(EKJ)
IC506	6-707-861-01	s IC	TC74VHC04FT(EKJ)
IC601	6-711-424-01	s IC	TC74VHC238FK(EL)
IC602	6-711-424-01	s IC	TC74VHC238FK(EL)
IC603	6-711-424-01	s IC	TC74VHC238FK(EL)
IC604	6-711-424-01	s IC	TC74VHC238FK(EL)
IC701	6-711-445-01	s IC	TC74VHCT138AFK(EL)
IC702	6-711-424-01	s IC	TC74VHC238FK(EL)
L1	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L2	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L3	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L4	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L5	1-414-392-41	s	INDUCTOR (SMD) 1.0UH
L101	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
L111	1-416-344-21	s	COIL, CHOKE 10UH
L112	1-416-344-21	s	COIL, CHOKE 10UH
L113	1-416-510-21	s	COIL, CHOKE 100UH
L501	1-414-398-41	s	INDUCTOR (SMD) 10.0UH
ND1	6-503-067-01	s DI	LF-301MKN
ND2	6-503-067-01	s DI	LF-301MKN
ND3	6-503-067-01	s DI	LF-301MKN
ND4	6-503-067-01	s DI	LF-301MKN
ND5	6-503-067-01	s DI	LF-301MKN
ND6	6-503-067-01	s DI	LF-301MKN
ND7	6-503-067-01	s DI	LF-301MKN
ND8	6-503-067-01	s DI	LF-301MKN
ND9	6-503-067-01	s DI	LF-301MKN
ND10	6-503-067-01	s DI	LF-301MKN

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Ref. No. or Q'ty	Part No.	SP	Description
ND11	6-503-067-01	s DI	LF-301MKN
ND12	6-503-067-01	s DI	LF-301MKN
ND13	6-503-067-01	s DI	LF-301MKN
ND14	6-503-067-01	s DI	LF-301MKN
ND15	6-503-067-01	s DI	LF-301MKN
ND16	6-503-067-01	s DI	LF-301MKN
ND17	6-503-067-01	s DI	LF-301MKN
ND18	6-503-067-01	s DI	LF-301MKN
ND19	6-503-067-01	s DI	LF-301MKN
ND20	6-503-067-01	s DI	LF-301MKN
ND21	6-503-067-01	s DI	LF-301MKN
ND22	6-503-067-01	s DI	LF-301MKN
ND23	6-503-067-01	s DI	LF-301MKN
ND24	6-503-067-01	s DI	LF-301MKN
ND25	6-503-067-01	s DI	LF-301MKN
ND26	6-503-067-01	s DI	LF-301MKN
ND27	6-503-067-01	s DI	LF-301MKN
ND28	6-503-067-01	s DI	LF-301MKN
ND29	6-503-067-01	s DI	LF-301MKN
ND30	6-503-067-01	s DI	LF-301MKN
ND31	6-503-067-01	s DI	LF-301MKN
ND32	6-503-067-01	s DI	LF-301MKN
ND33	6-503-067-01	s DI	LF-301MKN
ND34	6-503-067-01	s DI	LF-301MKN
ND35	6-503-067-01	s DI	LF-301MKN
ND36	6-503-067-01	s DI	LF-301MKN
ND37	6-503-067-01	s DI	LF-301MKN
ND38	6-503-067-01	s DI	LF-301MKN
ND39	6-503-067-01	s DI	LF-301MKN
ND40	6-503-067-01	s DI	LF-301MKN
ND41	6-503-067-01	s DI	LF-301MKN
ND42	6-503-067-01	s DI	LF-301MKN
ND43	6-503-067-01	s DI	LF-301MKN
ND44	6-503-067-01	s DI	LF-301MKN
Q101	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q102	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q201	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q202	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q203	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q204	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q205	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q206	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q207	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q208	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q209	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q210	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q211	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q212	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q213	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q214	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q215	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q216	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q217	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q218	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q219	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q220	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q221	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q222	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q223	8-729-929-09	s	TRANSISTOR DTC123JE-TL

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Ref. No. or Q'ty	Part No.	SP	Description
Q513	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q514	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q515	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q516	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q517	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q518	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q519	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q520	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q521	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q522	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q523	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q524	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q525	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q526	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q527	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q528	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q529	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q530	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q531	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q532	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q533	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q534	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q535	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q536	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q537	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q538	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q601	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q602	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q603	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q604	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q605	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q606	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q607	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q608	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q609	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q610	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q611	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q612	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q613	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q614	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q615	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q616	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q617	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q618	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q619	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q620	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q621	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q622	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q623	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q624	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q625	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q626	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q627	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q628	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q629	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q630	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q631	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q632	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q633	8-729-929-09	s	TRANSISTOR DTC123JE-TL

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Ref. No. or Q'ty	Part No.	SP	Description
Q634	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q635	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q636	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q637	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q638	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q639	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q640	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q641	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q642	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q643	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q644	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q645	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q646	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q647	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q648	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q649	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q650	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q651	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q652	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q653	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q654	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q655	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q656	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q701	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q702	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q703	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q704	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q705	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q706	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q707	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q708	8-729-102-84	s	TRANSISTOR 2SB624-T1BV5
Q709	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q710	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q711	8-729-102-84	s	TRANSISTOR 2SB624-T1BV5
Q712	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q713	8-729-102-84	s	TRANSISTOR 2SB624-T1BV5
Q714	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q715	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q716	8-729-102-84	s	TRANSISTOR 2SB624-T1BV5
Q717	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q718	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q719	8-729-102-84	s	TRANSISTOR 2SB624-T1BV5
Q720	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q721	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q722	8-729-102-84	s	TRANSISTOR 2SB624-T1BV5
Q723	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q724	8-729-102-84	s	TRANSISTOR 2SB624-T1BV5
Q725	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q726	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q727	8-729-102-84	s	TRANSISTOR 2SB624-T1BV5
Q728	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q729	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q730	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q731	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q732	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q733	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q734	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q735	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q736	8-729-928-55	s	TRANSISTOR DTA123JE-TL

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Ref. No. or Q'ty	Part No.	SP	Description
Q737	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q738	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q739	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q740	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q741	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q742	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q743	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q744	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q745	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q746	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q747	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q748	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q749	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q750	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q751	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q752	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q753	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q754	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q755	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q756	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q757	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q758	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q759	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q760	8-729-928-55	s	TRANSISTOR DTA123JE-TL
Q761	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q762	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q763	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
Q764	8-729-102-94	s	TRANSISTOR 2SD596-T1DV5
R1	1-208-935-81	s	RES, CHIP 100K (1005)
R2	1-220-870-81	s	RES, CHIP 10 (1005)
R3	1-220-870-81	s	RES, CHIP 10 (1005)
R4	1-220-870-81	s	RES, CHIP 10 (1005)
R5	1-220-870-81	s	RES, CHIP 10 (1005)
R6	1-220-870-81	s	RES, CHIP 10 (1005)
R7	1-220-870-81	s	RES, CHIP 10 (1005)
R8	1-220-870-81	s	RES, CHIP 10 (1005)
R9	1-208-935-81	s	RES, CHIP 100K (1005)
R10	1-208-935-81	s	RES, CHIP 100K (1005)
R11	1-208-863-81	s	RES, CHIP 100 (1005)
R12	1-208-863-81	s	RES, CHIP 100 (1005)
R13	1-208-927-81	s	RES, CHIP 47K (1005)
R14	1-208-927-81	s	RES, CHIP 47K (1005)
R15	1-208-927-81	s	RES, CHIP 47K (1005)
R16	1-208-927-81	s	RES, CHIP 47K (1005)
R17	1-208-911-81	s	RES, CHIP 10K (1005)
R18	1-208-911-81	s	RES, CHIP 10K (1005)
R19	1-208-855-81	s	RES, CHIP 47 (1005)
R20	1-220-870-81	s	RES, CHIP 10 (1005)
R21	1-208-935-81	s	RES, CHIP 100K (1005)
R23	1-220-870-81	s	RES, CHIP 10 (1005)
R24	1-208-911-81	s	RES, CHIP 10K (1005)
R25	1-208-911-81	s	RES, CHIP 10K (1005)
R26	1-208-911-81	s	RES, CHIP 10K (1005)
R27	1-208-887-81	s	RES, CHIP 1.0K (1005)
R28	1-208-911-81	s	RES, CHIP 10K (1005)
R29	1-208-911-81	s	RES, CHIP 10K (1005)
R30	1-208-911-81	s	RES, CHIP 10K (1005)
R31	1-208-911-81	s	RES, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R32	1-208-911-81 s	RES, CHIP 10K (1005)
R34	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R38	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R41	1-208-927-81 s	RES, CHIP 47K (1005)
R42	1-208-927-81 s	RES, CHIP 47K (1005)
R43	1-208-927-81 s	RES, CHIP 47K (1005)
R44	1-208-927-81 s	RES, CHIP 47K (1005)
R45	1-220-870-81 s	RES, CHIP 10 (1005)
R46	1-220-870-81 s	RES, CHIP 10 (1005)
R49	1-208-887-81 s	RES, CHIP 1.0K (1005)
R50	1-208-875-81 s	RES, CHIP 330 (1005)
R51	1-208-899-81 s	RES, CHIP 3.3K (1005)
R52	1-220-870-81 s	RES, CHIP 10 (1005)
R53	1-208-895-81 s	RES, CHIP 2.2K (1005)
R54	1-208-903-81 s	RES, CHIP 4.7K (1005)
R102	1-211-969-91 s	RES, CHIP 10 (1608)
R103	1-208-863-81 s	RES, CHIP 100 (1005)
R104	1-208-863-81 s	RES, CHIP 100 (1005)
R105	1-208-863-81 s	RES, CHIP 100 (1005)
R106	1-208-863-81 s	RES, CHIP 100 (1005)
R107	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R108	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R109	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R110	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R111	1-208-927-81 s	RES, CHIP 47K (1005)
R112	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R115	1-218-990-81 s	CONDUCTOR, CHIP (1005)
R116	1-218-977-81 s	RES, CHIP 100K
R117	1-218-969-81 s	RES, CHIP 22K
R118	1-208-911-81 s	RES, CHIP 10K (1005)
R119	1-208-911-81 s	RES, CHIP 10K (1005)
R120	1-208-855-81 s	RES, CHIP 47 (1005)
R137	1-208-911-81 s	RES, CHIP 10K (1005)
R138	1-208-907-81 s	RES, CHIP 6.8K (1005)
R139	1-208-895-81 s	RES, CHIP 2.2K (1005)
R140	1-208-911-81 s	RES, CHIP 10K (1005)
R201	1-208-879-81 s	RES, CHIP 470 (1005)
R202	1-208-881-81 s	RES, CHIP 560 (1005)
R203	1-208-879-81 s	RES, CHIP 470 (1005)
R204	1-208-881-81 s	RES, CHIP 560 (1005)
R205	1-208-879-81 s	RES, CHIP 470 (1005)
R206	1-208-881-81 s	RES, CHIP 560 (1005)
R207	1-208-879-81 s	RES, CHIP 470 (1005)
R208	1-208-881-81 s	RES, CHIP 560 (1005)
R209	1-208-873-81 s	RES, CHIP 270 (1005)
R210	1-208-881-81 s	RES, CHIP 560 (1005)
R211	1-208-881-81 s	RES, CHIP 560 (1005)
R212	1-208-881-81 s	RES, CHIP 560 (1005)
R213	1-208-873-81 s	RES, CHIP 270 (1005)
R214	1-208-881-81 s	RES, CHIP 560 (1005)
R215	1-208-881-81 s	RES, CHIP 560 (1005)
R216	1-208-881-81 s	RES, CHIP 560 (1005)
R217	1-208-873-81 s	RES, CHIP 270 (1005)
R218	1-208-881-81 s	RES, CHIP 560 (1005)
R219	1-208-881-81 s	RES, CHIP 560 (1005)
R220	1-208-881-81 s	RES, CHIP 560 (1005)
R221	1-208-873-81 s	RES, CHIP 270 (1005)
R222	1-208-881-81 s	RES, CHIP 560 (1005)
R223	1-208-881-81 s	RES, CHIP 560 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R224	1-208-881-81 s	RES, CHIP 560 (1005)
R225	1-208-881-81 s	RES, CHIP 560 (1005)
R226	1-208-877-81 s	RES, CHIP 390 (1005)
R227	1-208-881-81 s	RES, CHIP 560 (1005)
R228	1-208-881-81 s	RES, CHIP 560 (1005)
R229	1-208-877-81 s	RES, CHIP 390 (1005)
R230	1-208-881-81 s	RES, CHIP 560 (1005)
R231	1-208-881-81 s	RES, CHIP 560 (1005)
R232	1-208-877-81 s	RES, CHIP 390 (1005)
R233	1-208-881-81 s	RES, CHIP 560 (1005)
R234	1-208-881-81 s	RES, CHIP 560 (1005)
R235	1-208-877-81 s	RES, CHIP 390 (1005)
R236	1-208-881-81 s	RES, CHIP 560 (1005)
R237	1-208-881-81 s	RES, CHIP 560 (1005)
R238	1-208-877-81 s	RES, CHIP 390 (1005)
R239	1-208-877-81 s	RES, CHIP 390 (1005)
R240	1-208-881-81 s	RES, CHIP 560 (1005)
R241	1-208-877-81 s	RES, CHIP 390 (1005)
R242	1-208-877-81 s	RES, CHIP 390 (1005)
R243	1-208-881-81 s	RES, CHIP 560 (1005)
R244	1-208-879-81 s	RES, CHIP 470 (1005)
R245	1-208-881-81 s	RES, CHIP 560 (1005)
R246	1-208-879-81 s	RES, CHIP 470 (1005)
R247	1-208-873-81 s	RES, CHIP 270 (1005)
R248	1-208-873-81 s	RES, CHIP 270 (1005)
R249	1-208-879-81 s	RES, CHIP 470 (1005)
R250	1-208-881-81 s	RES, CHIP 560 (1005)
R251	1-208-879-81 s	RES, CHIP 470 (1005)
R252	1-208-881-81 s	RES, CHIP 560 (1005)
R253	1-208-879-81 s	RES, CHIP 470 (1005)
R254	1-208-881-81 s	RES, CHIP 560 (1005)
R255	1-208-879-81 s	RES, CHIP 470 (1005)
R256	1-208-881-81 s	RES, CHIP 560 (1005)
R257	1-208-881-81 s	RES, CHIP 560 (1005)
R258	1-208-881-81 s	RES, CHIP 560 (1005)
R259	1-208-873-81 s	RES, CHIP 270 (1005)
R260	1-208-881-81 s	RES, CHIP 560 (1005)
R261	1-208-881-81 s	RES, CHIP 560 (1005)
R262	1-208-881-81 s	RES, CHIP 560 (1005)
R263	1-208-873-81 s	RES, CHIP 270 (1005)
R264	1-208-881-81 s	RES, CHIP 560 (1005)
R265	1-208-881-81 s	RES, CHIP 560 (1005)
R266	1-208-881-81 s	RES, CHIP 560 (1005)
R267	1-208-881-81 s	RES, CHIP 560 (1005)
R268	1-208-881-81 s	RES, CHIP 560 (1005)
R269	1-208-881-81 s	RES, CHIP 560 (1005)
R270	1-208-881-81 s	RES, CHIP 560 (1005)
R271	1-208-881-81 s	RES, CHIP 560 (1005)
R272	1-208-881-81 s	RES, CHIP 560 (1005)
R273	1-208-881-81 s	RES, CHIP 560 (1005)
R274	1-208-881-81 s	RES, CHIP 560 (1005)
R275	1-208-881-81 s	RES, CHIP 560 (1005)
R276	1-208-881-81 s	RES, CHIP 560 (1005)
R277	1-208-881-81 s	RES, CHIP 560 (1005)
R278	1-208-881-81 s	RES, CHIP 560 (1005)
R279	1-208-881-81 s	RES, CHIP 560 (1005)
R280	1-208-881-81 s	RES, CHIP 560 (1005)
R281	1-208-881-81 s	RES, CHIP 560 (1005)
R282	1-208-881-81 s	RES, CHIP 560 (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R507	1-208-863-81	s RES,	CHIP 100 (1005)
R508	1-211-969-91	s RES,	CHIP 10 (1608)
R509	1-211-969-91	s RES,	CHIP 10 (1608)
R510	1-211-969-91	s RES,	CHIP 10 (1608)
R511	1-211-969-91	s RES,	CHIP 10 (1608)
R512	1-211-969-91	s RES,	CHIP 10 (1608)
R513	1-208-935-81	s RES,	CHIP 100K (1005)
R514	1-208-935-81	s RES,	CHIP 100K (1005)
R515	1-208-935-81	s RES,	CHIP 100K (1005)
R516	1-208-935-81	s RES,	CHIP 100K (1005)
R517	1-208-871-81	s RES,	CHIP 220 (1005)
R518	1-208-871-81	s RES,	CHIP 220 (1005)
R519	1-211-981-91	s RES,	CHIP 33 (1608)
R520	1-211-969-91	s RES,	CHIP 10 (1608)
R521	1-211-981-91	s RES,	CHIP 33 (1608)
R522	1-211-969-91	s RES,	CHIP 10 (1608)
R523	1-211-981-91	s RES,	CHIP 33 (1608)
R524	1-211-969-91	s RES,	CHIP 10 (1608)
R525	1-211-981-91	s RES,	CHIP 33 (1608)
R526	1-211-969-91	s RES,	CHIP 10 (1608)
R527	1-211-981-91	s RES,	CHIP 33 (1608)
R528	1-211-969-91	s RES,	CHIP 10 (1608)
R529	1-211-981-91	s RES,	CHIP 33 (1608)
R530	1-211-969-91	s RES,	CHIP 10 (1608)
R531	1-211-981-91	s RES,	CHIP 33 (1608)
R532	1-211-969-91	s RES,	CHIP 10 (1608)
R533	1-211-981-91	s RES,	CHIP 33 (1608)
R534	1-211-969-91	s RES,	CHIP 10 (1608)
R601	1-211-969-91	s RES,	CHIP 10 (1608)
R602	1-211-969-91	s RES,	CHIP 10 (1608)
R603	1-211-969-91	s RES,	CHIP 10 (1608)
R604	1-211-969-91	s RES,	CHIP 10 (1608)
R605	1-211-969-91	s RES,	CHIP 10 (1608)
R606	1-211-969-91	s RES,	CHIP 10 (1608)
R607	1-211-969-91	s RES,	CHIP 10 (1608)
R608	1-211-969-91	s RES,	CHIP 10 (1608)
R609	1-211-969-91	s RES,	CHIP 10 (1608)
R610	1-211-969-91	s RES,	CHIP 10 (1608)
R611	1-211-969-91	s RES,	CHIP 10 (1608)
R612	1-211-969-91	s RES,	CHIP 10 (1608)
R613	1-211-969-91	s RES,	CHIP 10 (1608)
R614	1-211-969-91	s RES,	CHIP 10 (1608)
R615	1-211-969-91	s RES,	CHIP 10 (1608)
R616	1-211-969-91	s RES,	CHIP 10 (1608)
R701	1-211-987-91	s RES,	CHIP 56 (1608)
R702	1-211-981-91	s RES,	CHIP 33 (1608)
R703	1-220-870-81	s RES,	CHIP 10 (1005)
R704	1-211-987-91	s RES,	CHIP 56 (1608)
R705	1-211-981-91	s RES,	CHIP 33 (1608)
R706	1-211-987-91	s RES,	CHIP 56 (1608)
R707	1-211-981-91	s RES,	CHIP 33 (1608)
R708	1-220-870-81	s RES,	CHIP 10 (1005)
R709	1-211-987-91	s RES,	CHIP 56 (1608)
R710	1-211-981-91	s RES,	CHIP 33 (1608)
R711	1-220-870-81	s RES,	CHIP 10 (1005)
R712	1-211-987-91	s RES,	CHIP 56 (1608)
R713	1-211-981-91	s RES,	CHIP 33 (1608)
R714	1-211-987-91	s RES,	CHIP 56 (1608)
R715	1-211-981-91	s RES,	CHIP 33 (1608)

(SW-1456 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP	Description		
R775	1-211-981-91	s	RES, CHIP	33	(1608)
R776	1-211-981-91	s	RES, CHIP	33	(1608)
R777	1-211-969-91	s	RES, CHIP	10	(1608)
R778	1-211-969-91	s	RES, CHIP	10	(1608)
R779	1-211-981-91	s	RES, CHIP	33	(1608)
R780	1-211-969-91	s	RES, CHIP	10	(1608)
R781	1-211-981-91	s	RES, CHIP	33	(1608)
R782	1-211-969-91	s	RES, CHIP	10	(1608)
R783	1-211-969-91	s	RES, CHIP	10	(1608)
R784	1-211-969-91	s	RES, CHIP	10	(1608)
R785	1-211-981-91	s	RES, CHIP	33	(1608)
R786	1-211-981-91	s	RES, CHIP	33	(1608)
R787	1-211-981-91	s	RES, CHIP	33	(1608)
R788	1-211-981-91	s	RES, CHIP	33	(1608)
R789	1-211-969-91	s	RES, CHIP	10	(1608)
R790	1-211-969-91	s	RES, CHIP	10	(1608)
R791	1-211-981-91	s	RES, CHIP	33	(1608)
R792	1-211-969-91	s	RES, CHIP	10	(1608)
R793	1-211-981-91	s	RES, CHIP	33	(1608)
R794	1-211-969-91	s	RES, CHIP	10	(1608)
R795	1-211-969-91	s	RES, CHIP	10	(1608)
R796	1-211-969-91	s	RES, CHIP	10	(1608)
R797	1-211-981-91	s	RES, CHIP	33	(1608)
R798	1-211-981-91	s	RES, CHIP	33	(1608)
R799	1-211-981-91	s	RES, CHIP	33	(1608)
R800	1-211-981-91	s	RES, CHIP	33	(1608)
R801	1-211-969-91	s	RES, CHIP	10	(1608)
R802	1-211-969-91	s	RES, CHIP	10	(1608)
R803	1-211-969-91	s	RES, CHIP	10	(1608)
R804	1-211-969-91	s	RES, CHIP	10	(1608)
R805	1-211-981-91	s	RES, CHIP	33	(1608)
R806	1-211-981-91	s	RES, CHIP	33	(1608)
R807	1-211-969-91	s	RES, CHIP	10	(1608)
R808	1-211-969-91	s	RES, CHIP	10	(1608)
R809	1-211-981-91	s	RES, CHIP	33	(1608)
R810	1-211-981-91	s	RES, CHIP	33	(1608)
R811	1-211-981-91	s	RES, CHIP	33	(1608)
R812	1-211-981-91	s	RES, CHIP	33	(1608)
R813	1-211-969-91	s	RES, CHIP	10	(1608)
R814	1-211-969-91	s	RES, CHIP	10	(1608)
R815	1-211-969-91	s	RES, CHIP	10	(1608)
R816	1-211-969-91	s	RES, CHIP	10	(1608)
R817	1-211-981-91	s	RES, CHIP	33	(1608)
R818	1-211-981-91	s	RES, CHIP	33	(1608)
R819	1-211-969-91	s	RES, CHIP	10	(1608)
R820	1-211-969-91	s	RES, CHIP	10	(1608)
R821	1-211-981-91	s	RES, CHIP	33	(1608)
R822	1-211-981-91	s	RES, CHIP	33	(1608)
R823	1-211-981-91	s	RES, CHIP	33	(1608)
R824	1-211-981-91	s	RES, CHIP	33	(1608)
R825	1-211-969-91	s	RES, CHIP	10	(1608)
R826	1-211-969-91	s	RES, CHIP	10	(1608)
R827	1-211-969-91	s	RES, CHIP	10	(1608)
R828	1-211-969-91	s	RES, CHIP	10	(1608)
R829	1-211-981-91	s	RES, CHIP	33	(1608)
R830	1-211-981-91	s	RES, CHIP	33	(1608)
R831	1-211-969-91	s	RES, CHIP	10	(1608)
R832	1-211-969-91	s	RES, CHIP	10	(1608)
R833	1-211-981-91	s	RES, CHIP	33	(1608)

(SW-1456 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
R834	1-211-981-91	s RES, CHIP 33 (1608)
R835	1-211-981-91	s RES, CHIP 33 (1608)
R836	1-211-981-91	s RES, CHIP 33 (1608)
R837	1-211-969-91	s RES, CHIP 10 (1608)
R838	1-211-969-91	s RES, CHIP 10 (1608)
R839	1-211-969-91	s RES, CHIP 10 (1608)
R840	1-211-969-91	s RES, CHIP 10 (1608)
R841	1-211-981-91	s RES, CHIP 33 (1608)
R842	1-211-969-91	s RES, CHIP 10 (1608)
R843	1-211-981-91	s RES, CHIP 33 (1608)
R844	1-211-981-91	s RES, CHIP 33 (1608)
R845	1-211-969-91	s RES, CHIP 10 (1608)
R846	1-211-969-91	s RES, CHIP 10 (1608)
R847	1-211-981-91	s RES, CHIP 33 (1608)
R848	1-211-981-91	s RES, CHIP 33 (1608)
R849	1-211-969-91	s RES, CHIP 10 (1608)
R850	1-211-969-91	s RES, CHIP 10 (1608)
R851	1-211-981-91	s RES, CHIP 33 (1608)
R852	1-211-981-91	s RES, CHIP 33 (1608)
R853	1-211-969-91	s RES, CHIP 10 (1608)
R854	1-211-981-91	s RES, CHIP 33 (1608)
R855	1-211-969-91	s RES, CHIP 10 (1608)
R856	1-211-969-91	s RES, CHIP 10 (1608)
R857	1-211-981-91	s RES, CHIP 33 (1608)
R858	1-211-969-91	s RES, CHIP 10 (1608)
R859	1-211-981-91	s RES, CHIP 33 (1608)
R860	1-211-981-91	s RES, CHIP 33 (1608)
R861	1-211-981-91	s RES, CHIP 33 (1608)
R862	1-211-969-91	s RES, CHIP 10 (1608)
R863	1-211-969-91	s RES, CHIP 10 (1608)
R864	1-211-969-91	s RES, CHIP 10 (1608)
R865	1-211-981-91	s RES, CHIP 33 (1608)
R866	1-211-969-91	s RES, CHIP 10 (1608)
R868	1-211-981-91	s RES, CHIP 33 (1608)
R870	1-211-969-91	s RES, CHIP 10 (1608)
RB1	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB2	1-234-377-21	s RES, NETWORK 4.7K (1005X4)
RB3	1-234-377-21	s RES, NETWORK 4.7K (1005X4)
RB4	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB5	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB6	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB7	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB8	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB9	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB10	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB11	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB12	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB13	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB14	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB15	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB16	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB17	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB18	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB19	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB20	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB21	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB22	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB23	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB24	1-234-369-21	s RES, NETWORK 10 (1005X4)

(SW-1456 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
RB25	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB26	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB27	1-234-380-21	s RES, NETWORK 47K (1005X4)
RB101	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB102	1-234-381-21	s RES, NETWORK 100K (1005X4)
RB103	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB104	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB105	1-234-371-21	s RES, NETWORK 47 (1005X4)
RB106	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB501	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB502	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB503	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB504	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB505	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB506	1-234-372-21	s RES, NETWORK 100 (1005X4)
RB507	1-234-372-21	s RES, NETWORK 100 (1005X4)
RB508	1-234-372-21	s RES, NETWORK 100 (1005X4)
RB509	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB510	1-234-378-21	s RES, NETWORK 10K (1005X4)
RB601	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB602	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB603	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB604	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB605	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB606	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB701	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB702	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB703	1-234-373-21	s RES, NETWORK 220 (1005X4)
RB704	1-234-373-21	s RES, NETWORK 220 (1005X4)
S1	1-798-311-11	s SWITCH, TACTILE
S2	1-798-311-11	s SWITCH, TACTILE
S3	1-798-311-11	s SWITCH, TACTILE
S4	1-798-311-11	s SWITCH, TACTILE
S5	1-798-311-11	s SWITCH, TACTILE
S6	1-798-311-11	s SWITCH, TACTILE
S7	1-798-311-11	s SWITCH, TACTILE
S8	1-798-311-11	s SWITCH, TACTILE
S9	1-798-311-11	s SWITCH, TACTILE
S10	1-798-311-11	s SWITCH, TACTILE
S11	1-798-311-11	s SWITCH, TACTILE
S12	1-798-311-11	s SWITCH, TACTILE
S13	1-798-311-11	s SWITCH, TACTILE
S14	1-798-311-11	s SWITCH, TACTILE
S15	1-798-311-11	s SWITCH, TACTILE
S16	1-798-311-11	s SWITCH, TACTILE
S17	1-798-311-11	s SWITCH, TACTILE
S18	1-798-311-11	s SWITCH, TACTILE
S19	1-798-311-11	s SWITCH, TACTILE
S20	1-798-311-11	s SWITCH, TACTILE
S21	1-798-311-11	s SWITCH, TACTILE
S22	1-798-311-11	s SWITCH, TACTILE
S23	1-798-311-11	s SWITCH, TACTILE
S24	1-798-311-11	s SWITCH, TACTILE
S25	1-798-311-11	s SWITCH, TACTILE
S26	1-798-311-11	s SWITCH, TACTILE
S27	1-798-311-11	s SWITCH, TACTILE
S28	1-798-311-11	s SWITCH, TACTILE
S29	1-798-311-11	s SWITCH, TACTILE
S30	1-798-311-11	s SWITCH, TACTILE

2-4. Supplied Accessories

(SW-1456 BOARD for MSU-1500)

Ref. No. or Q'ty	Part No.	SP Description
S31	1-798-311-11	s SWITCH, TACTILE
S32	1-798-311-11	s SWITCH, TACTILE
S33	1-798-311-11	s SWITCH, TACTILE
S34	1-798-311-11	s SWITCH, TACTILE
S35	1-798-311-11	s SWITCH, TACTILE
S36	1-798-311-11	s SWITCH, TACTILE
S37	1-798-311-11	s SWITCH, TACTILE
S38	1-798-311-11	s SWITCH, TACTILE
S39	1-798-311-11	s SWITCH, TACTILE
S40	1-798-311-11	s SWITCH, TACTILE
S41	1-798-311-11	s SWITCH, TACTILE
S42	1-798-311-11	s SWITCH, TACTILE
S43	1-798-311-11	s SWITCH, TACTILE
S44	1-798-311-11	s SWITCH, TACTILE
S45	1-798-311-11	s SWITCH, TACTILE
S46	1-798-311-11	s SWITCH, TACTILE
S47	1-798-311-11	s SWITCH, TACTILE
S48	1-798-311-11	s SWITCH, TACTILE
S49	1-798-311-11	s SWITCH, TACTILE
S50	1-798-311-11	s SWITCH, TACTILE
S51	1-798-311-11	s SWITCH, TACTILE
S52	1-798-311-11	s SWITCH, TACTILE
S53	1-798-311-11	s SWITCH, TACTILE
S54	1-798-311-11	s SWITCH, TACTILE
S55	1-798-311-11	s SWITCH, TACTILE
S56	1-798-311-11	s SWITCH, TACTILE
S57	1-798-311-11	s SWITCH, TACTILE
S58	1-798-311-11	s SWITCH, TACTILE
S59	1-798-311-11	s SWITCH, TACTILE
S60	1-798-311-11	s SWITCH, TACTILE
S61	1-798-311-11	s SWITCH, TACTILE
S62	1-798-311-11	s SWITCH, TACTILE
S63	1-798-311-11	s SWITCH, TACTILE
S64	1-798-311-11	s SWITCH, TACTILE
S65	1-798-311-11	s SWITCH, TACTILE
THP101	△ 1-804-458-21	s THERMISTOR, POSITIVE
X1	1-814-011-11	s OSCILLATOR, CRYSTAL (33.1776MHZ)

VR-338 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1748-489-A	s MOUNTED CIRCUIT BOARD, VR-338
1pc	4-169-686-02	s PWB-BRACKET
CN1	1-784-625-31	s CONNECTOR, FFC/FPC(ZIF) AN 30P
EN1	1-487-772-11	s ENCODER, ROTARY
EN2	1-487-772-11	s ENCODER, ROTARY
EN3	1-487-772-11	s ENCODER, ROTARY
EN4	1-487-772-11	s ENCODER, ROTARY

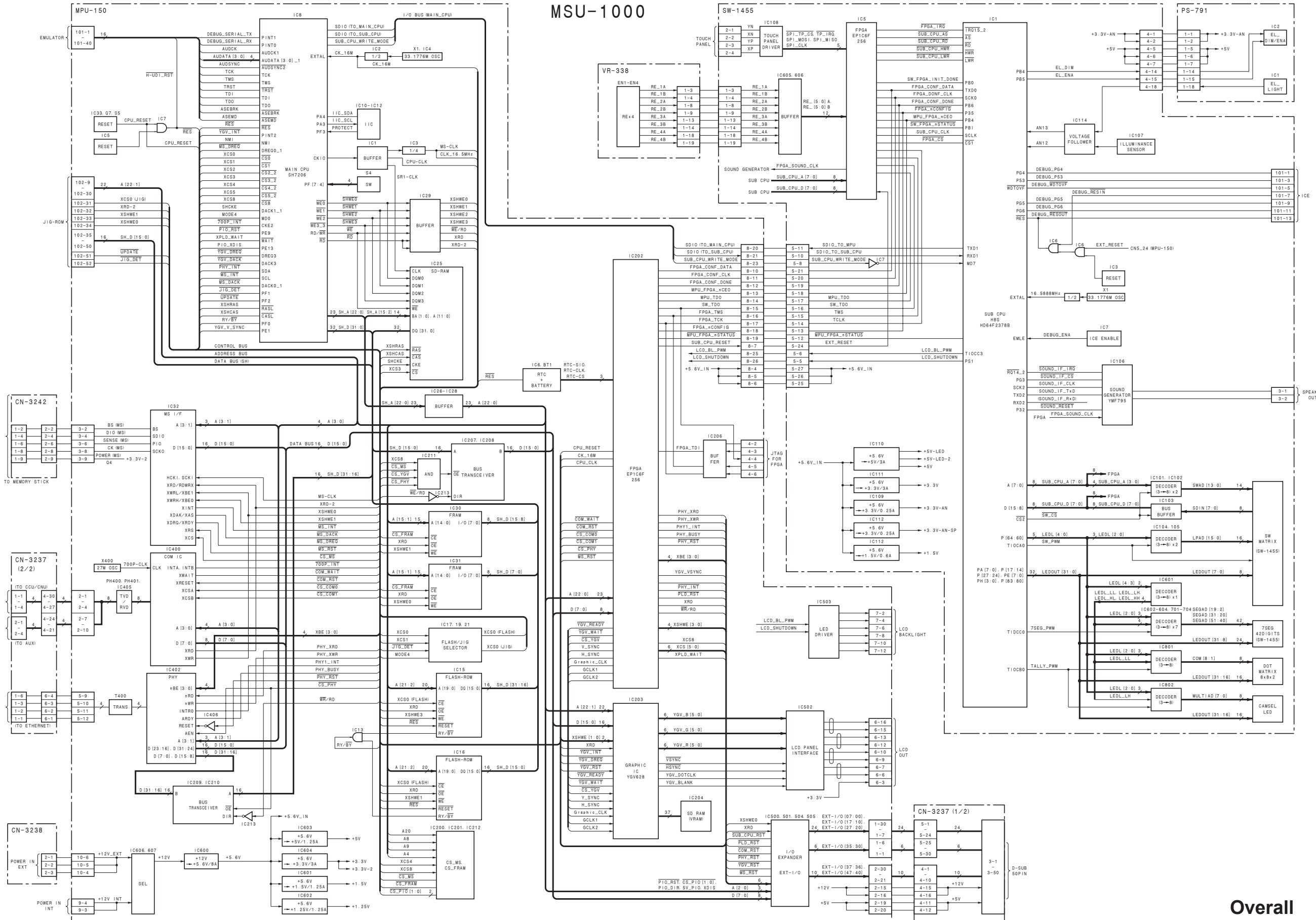
MSU-1000

Q'ty	Part No.	SP Description
1pc	△ 4-169-281-01	s OPERATION MANUAL (English)
1pc	△ 4-169-282-01	s OPERATION MANUAL (Japanese)
1pc	4-171-348-02	s LABEL (SW ASSIGN)

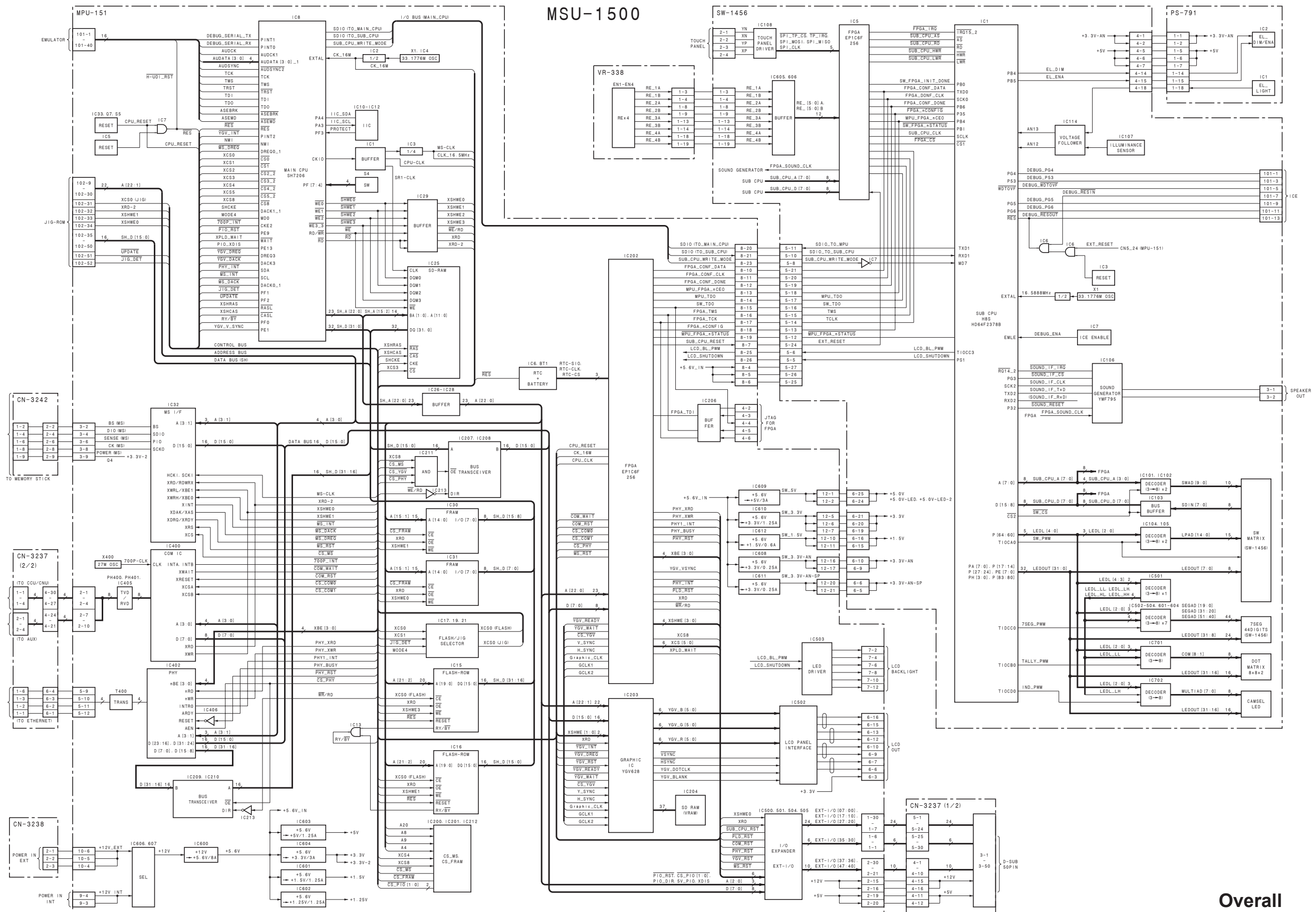
MSU-1500

Q'ty	Part No.	SP Description
1pc	△ 4-169-281-01	s OPERATION MANUAL (English)
1pc	△ 4-169-282-01	s OPERATION MANUAL (Japanese)
1pc	4-171-348-02	s LABEL (SW ASSIGN)

Section 3
Block Diagrams



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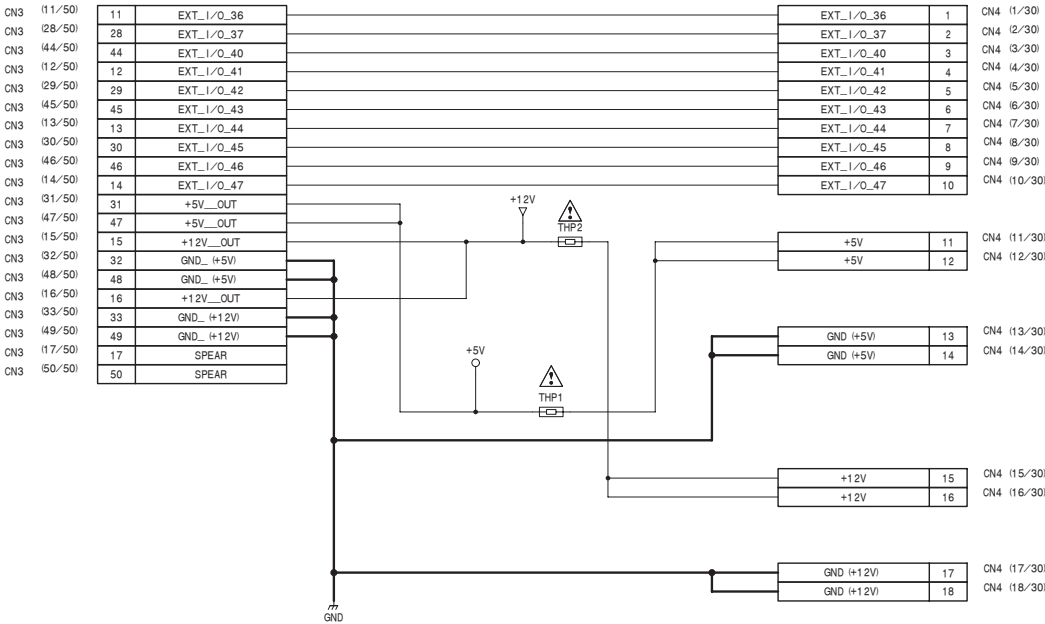
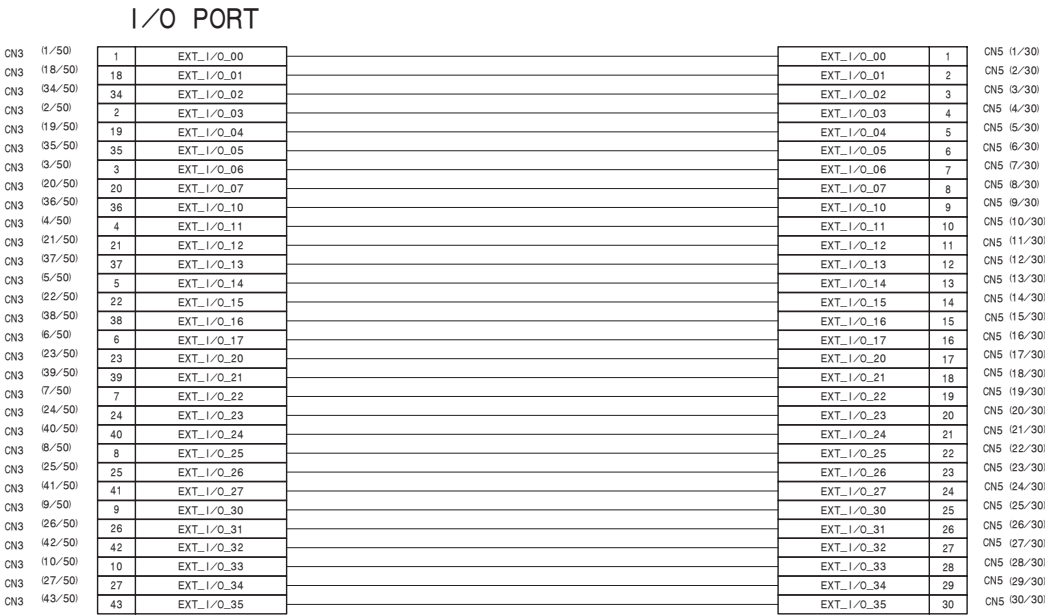
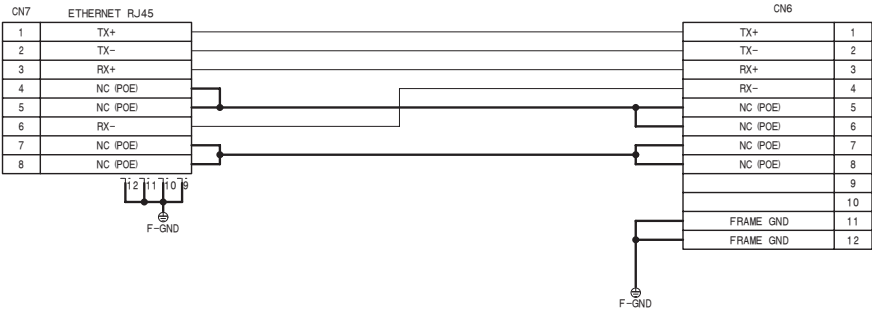
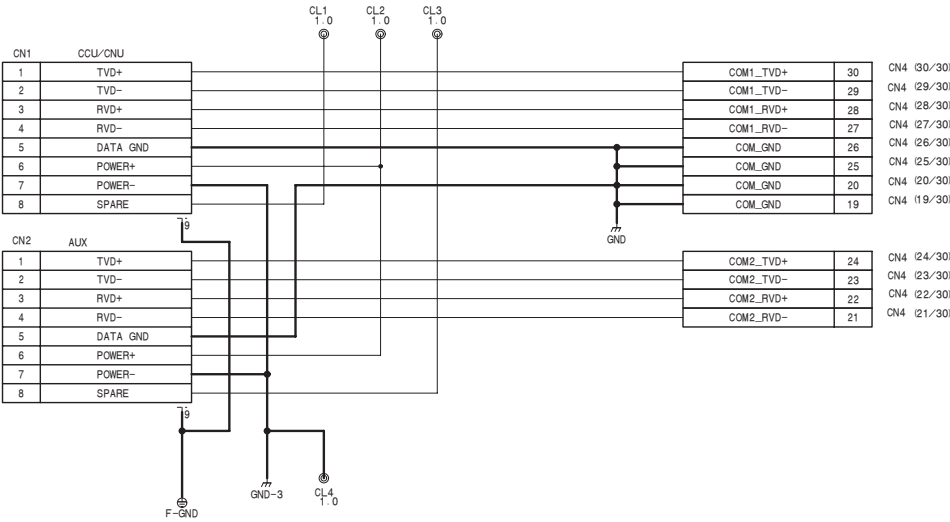
Overall

Section 4

Schematic Diagrams

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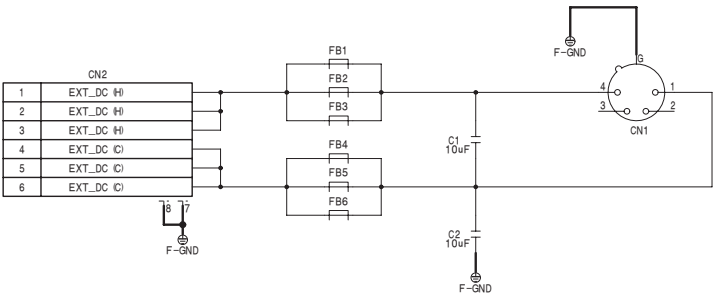


CN-3238, CN-3242, PS-791

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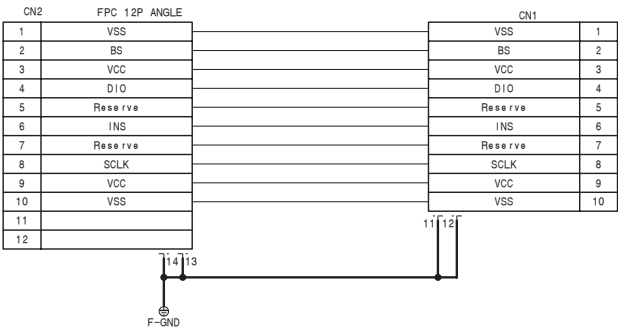
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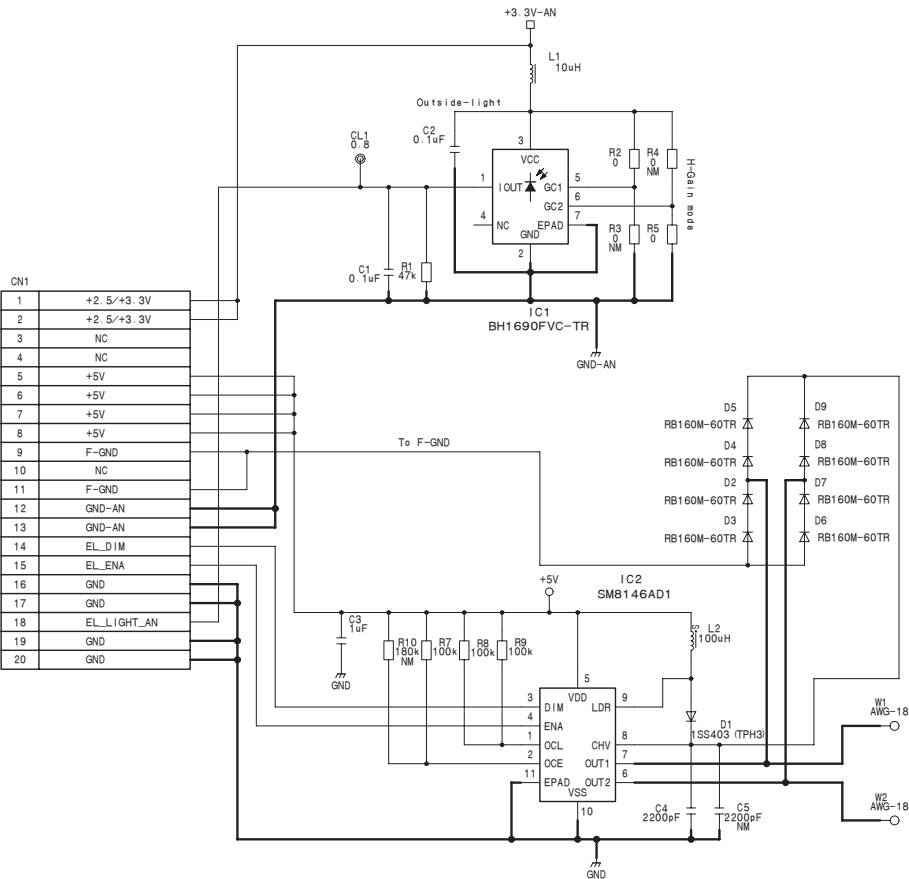
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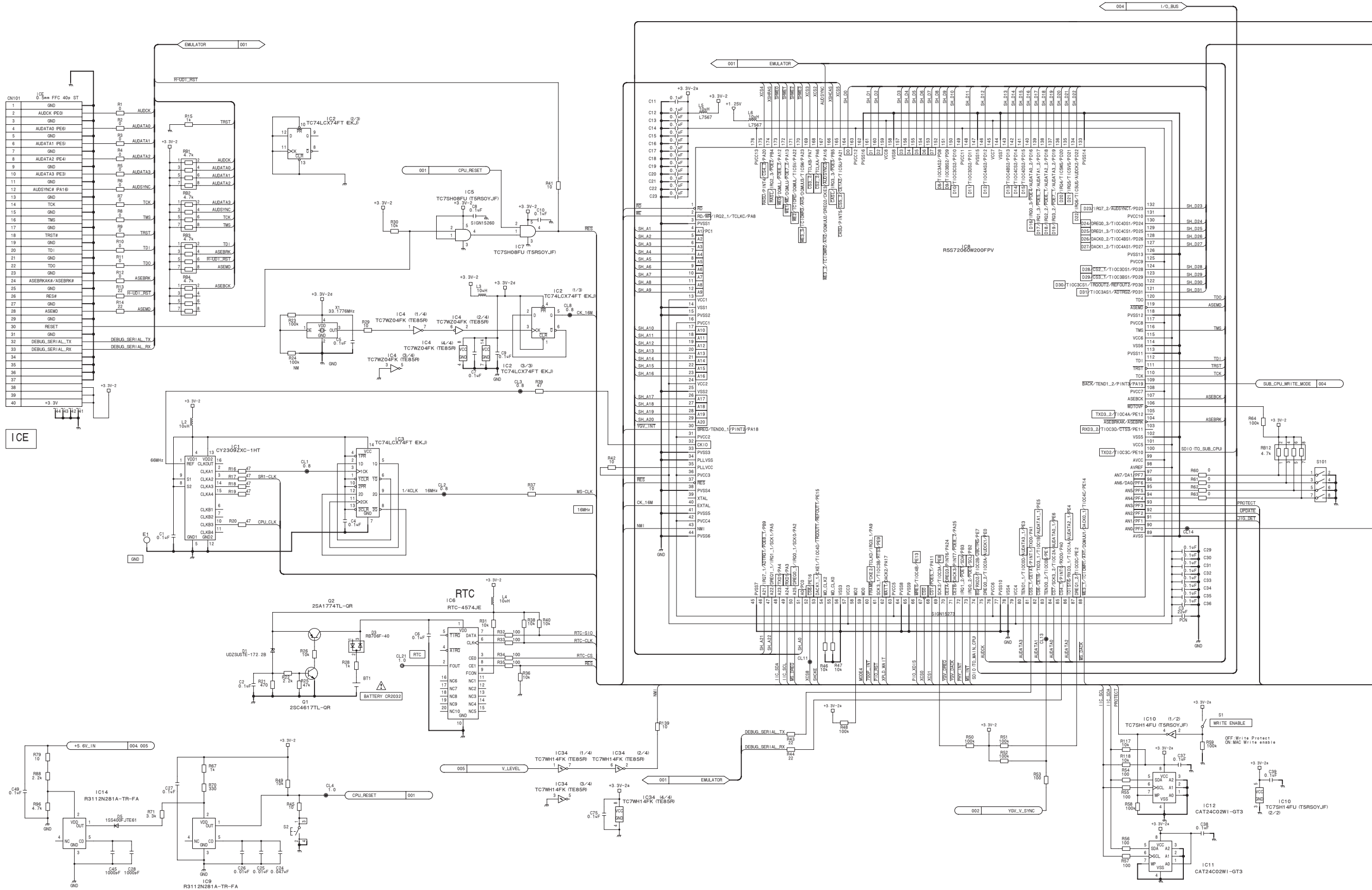
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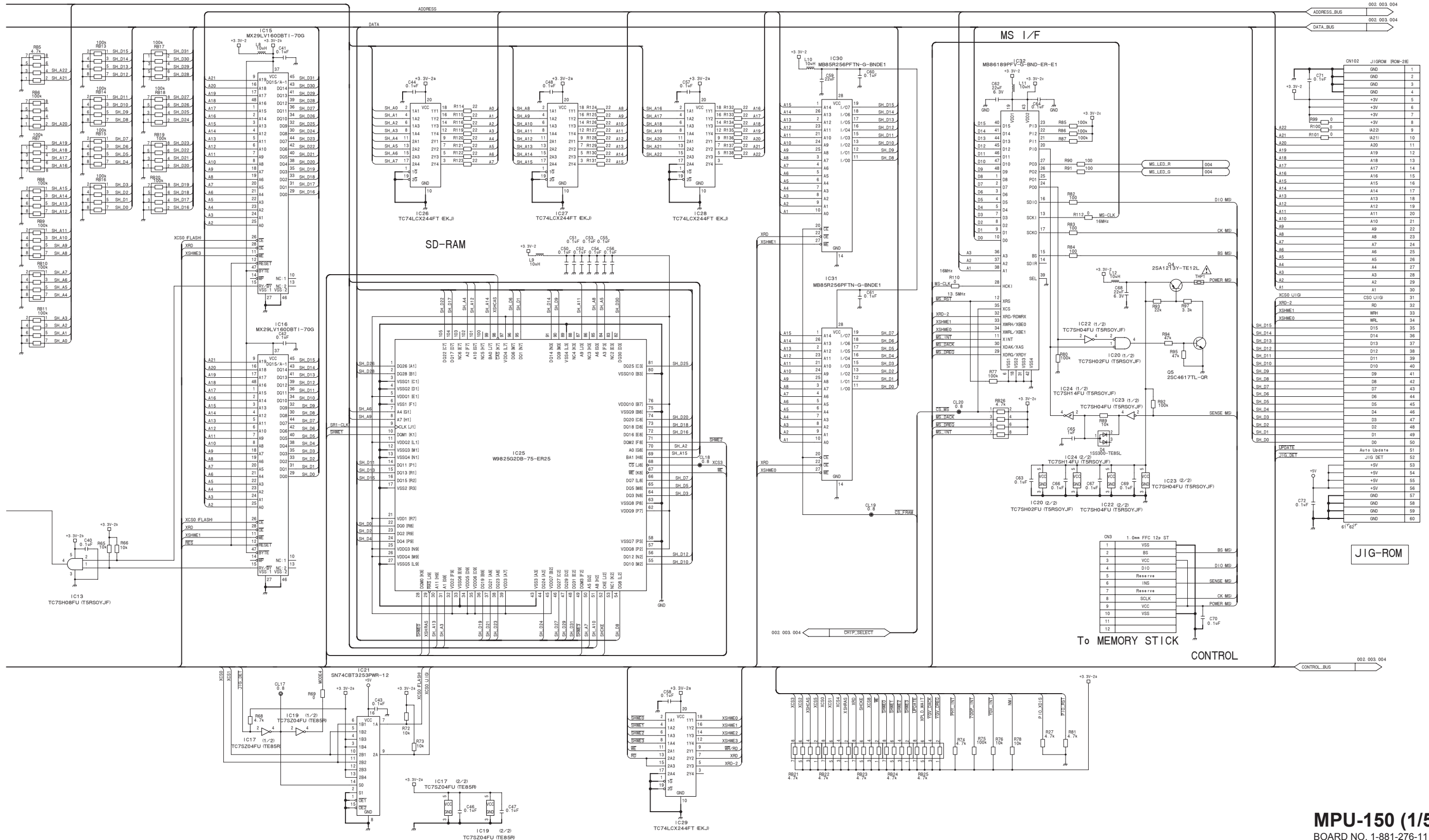
PS-791

BOARD NO. 1-881-285-11
CAX-164_PS-791_021_1



FLASH-ROM

FRAM



MPU-150 (1/5)

BOARD NO. 1-881-276-11
CAX-164_MPU-150_021_1

SUFFIX: -11

SUFFIX: -11

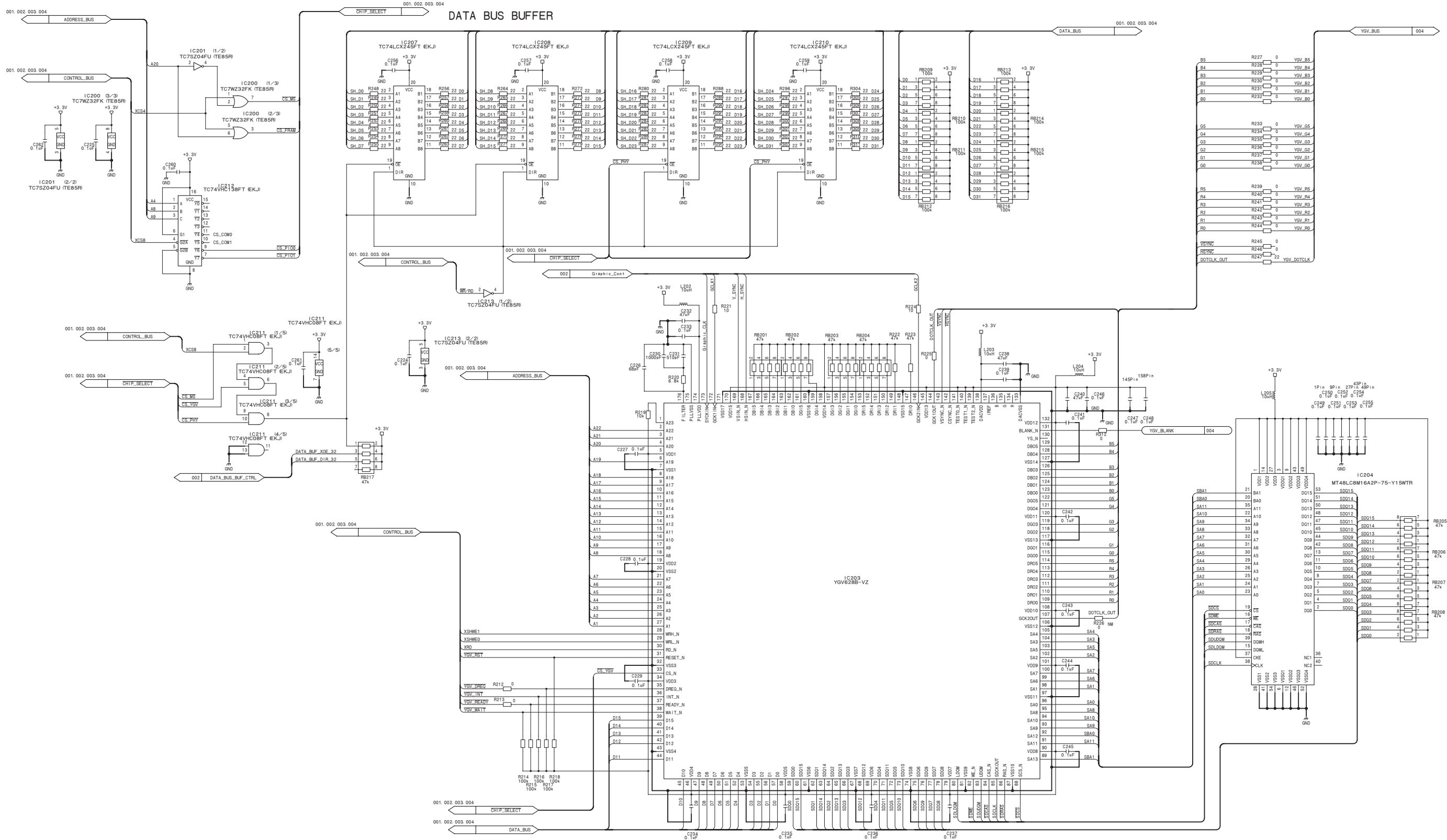


MPU-150 (2/5)

SUFFIX: -11

MPU-150 (2/5)

SUFFIX: -11



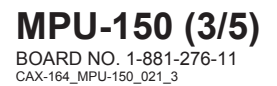
SUFFIX: -11

SUFFIX: -11



SUFFIX: -11

SUFFIX: -11



SUFFIX: -11

SUFFIX: -11



1.0mm FFC 30p ST			
EXT_I/O_00	30	(30/30)	CN
EXT_I/O_01	29	(29/30)	CN
EXT_I/O_02	28	(28/30)	CN
EXT_I/O_03	27	(27/30)	CN
EXT_I/O_04	26	(26/30)	CN
EXT_I/O_05	25	(25/30)	CN
EXT_I/O_06	24	(24/30)	CN
EXT_I/O_07	23	(23/30)	CN

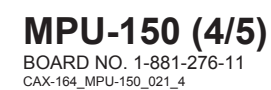
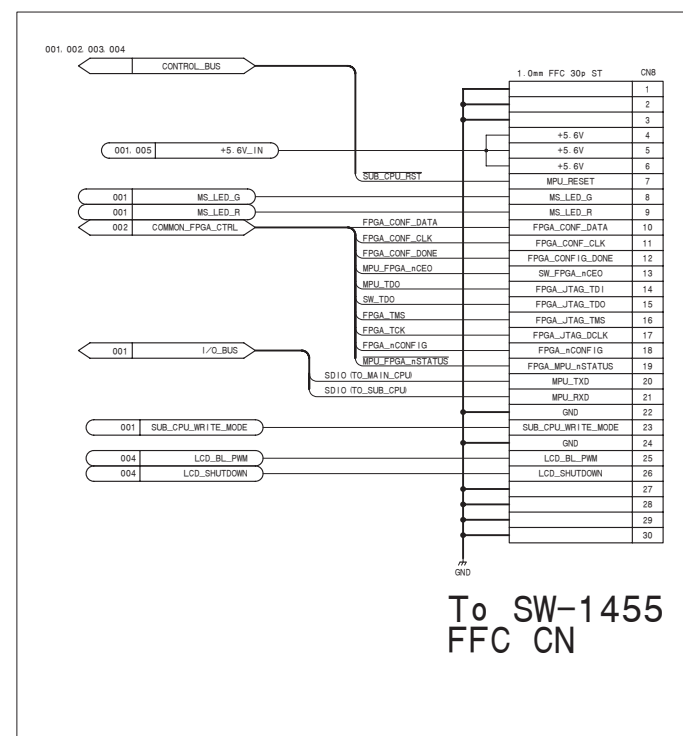
EXT_I/Q_10	22	22/30	CN
EXT_I/Q_11	21	21/30	CN
EXT_I/Q_12	20	20/30	CN
EXT_I/Q_13	19	19/30	CN
EXT_I/Q_14	18	18/30	CN
EXT_I/Q_15	17	17/30	CN
EXT_I/Q_16	16	16/30	CN
EXT_I/Q_17	15	15/30	CN

EXT_I/O_20	14	(14/30)	CN
EXT_I/O_21	13	(13/30)	CN
EXT_I/O_22	12	(12/30)	CN
EXT_I/O_23	11	(11/30)	CN
EXT_I/O_24	10	(10/30)	CN
EXT_I/O_25	9	(9/30)	CN
EXT_I/O_26	8	(8/30)	CN
EXT_I/O_27	7	(7/30)	CN

EXT_1/Q_30	6	6/30	CN
EXT_1/Q_31	5	5/30	CN
EXT_1/Q_32	4	4/30	CN
EXT_1/Q_33	3	3/30	CN
EXT_1/Q_34	2	2/30	CN
EXT_1/Q_35	1	1/30	CN
EXT_1/Q_36	30	30/30	CN
EXT_1/Q_37	29	29/30	CN

EXT_I/O_40	28	(28/30) CN
EXT_I/O_41	27	(27/30) CN
EXT_I/O_42	26	(26/30) CN
EXT_I/O_43	25	(25/30) CN
EXT_I/O_44	24	(24/30) CN
EXT_I/O_45	23	(23/30) CN
EXT_I/O_46	22	(22/30) CN
EXT_I/O_47	21	(21/30) CN

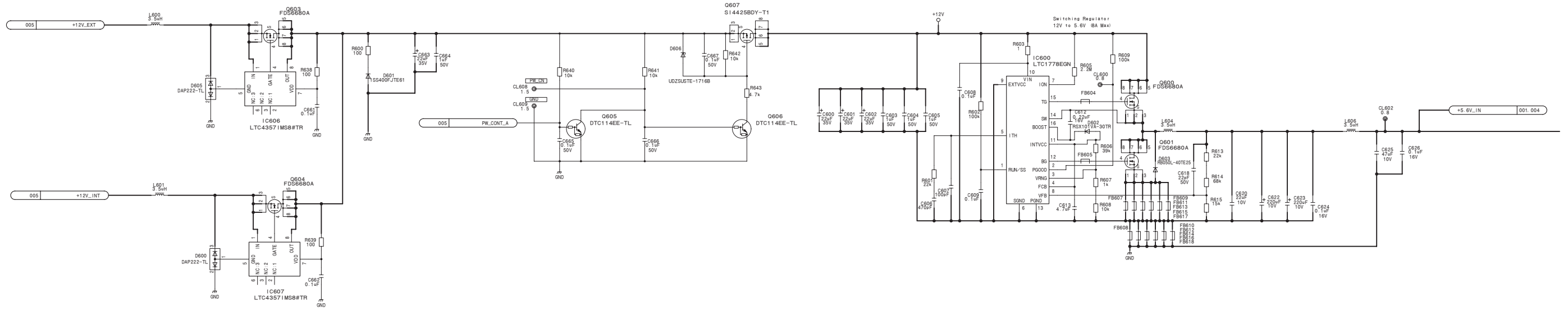
Q501
DTA123JE-TL



SUFFIX: -11

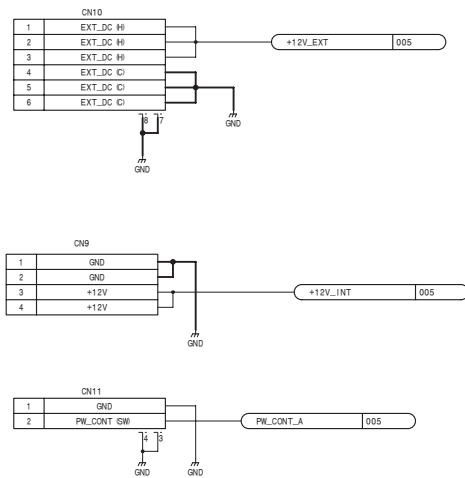
SUFFIX: -11

1

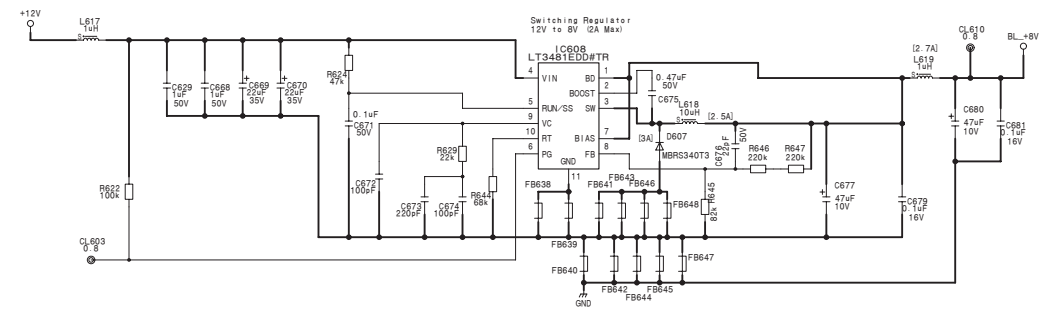


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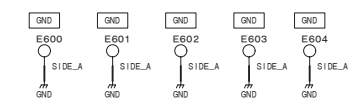
4



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SUFFIX: -11

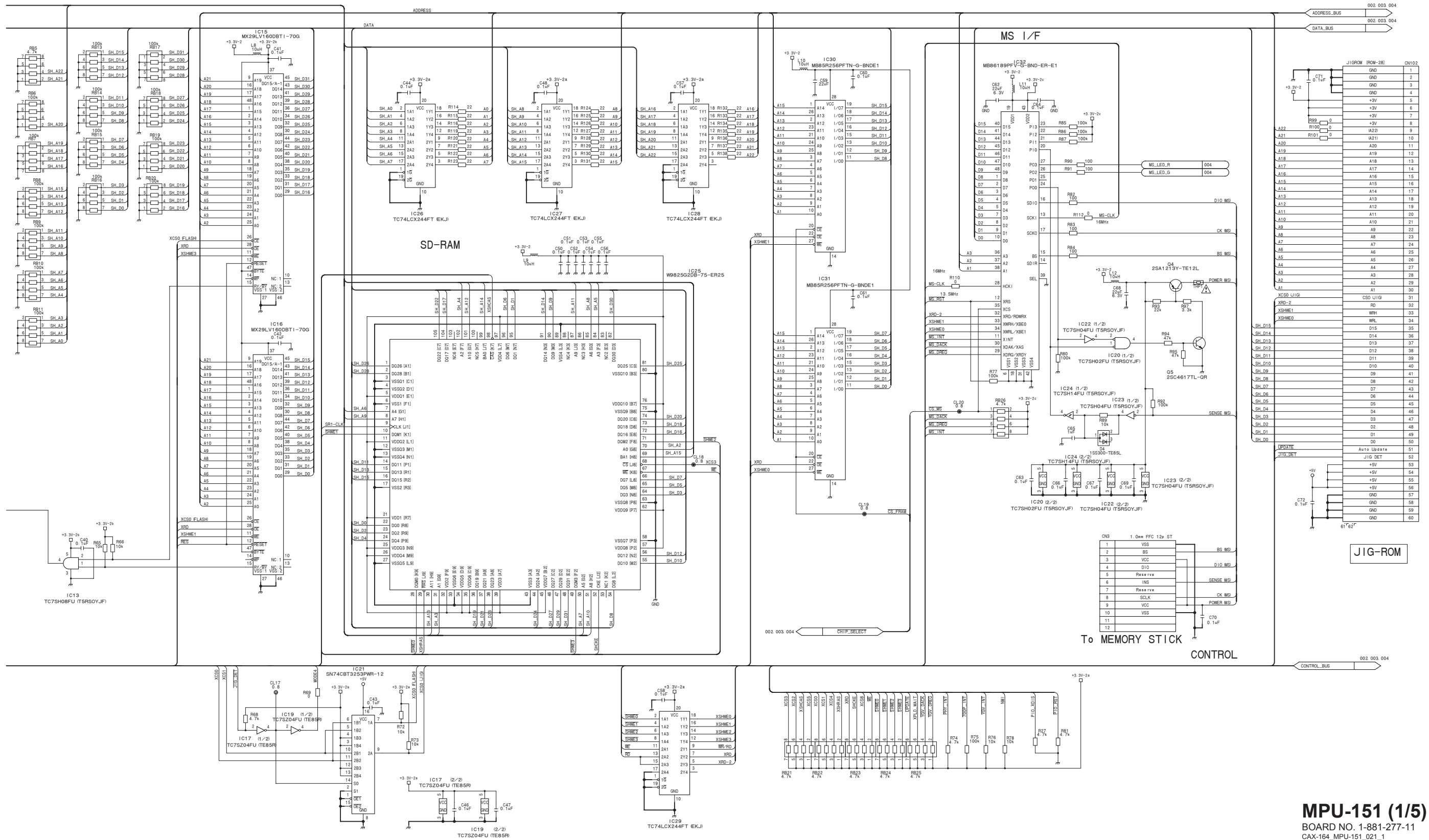
SUFFIX: -11



BOARD NO. 1-881-276-11
CAX-164_MPU-150_021_5

FLASH-ROM

FRAM



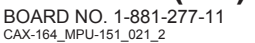
SUFFIX: -11

SUFFIX: -11



SUFFIX: -11

SUFFIX: -11

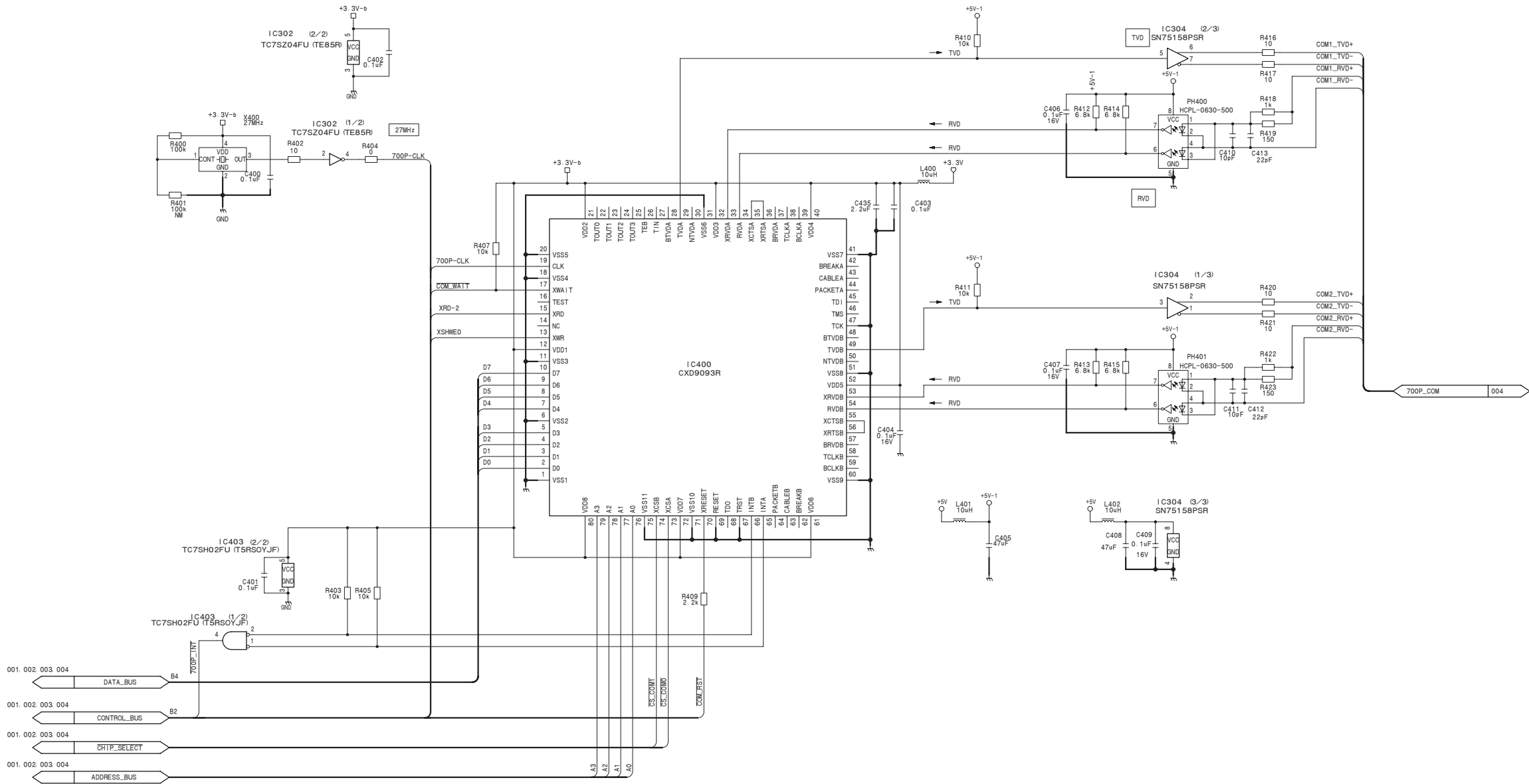


MPU-151 (3/5)

SUFFIX: -11

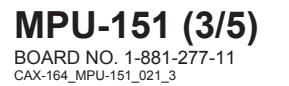
MPU-151 (3/5)

SUFFIX: -11



SUFFIX: -11

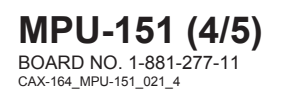
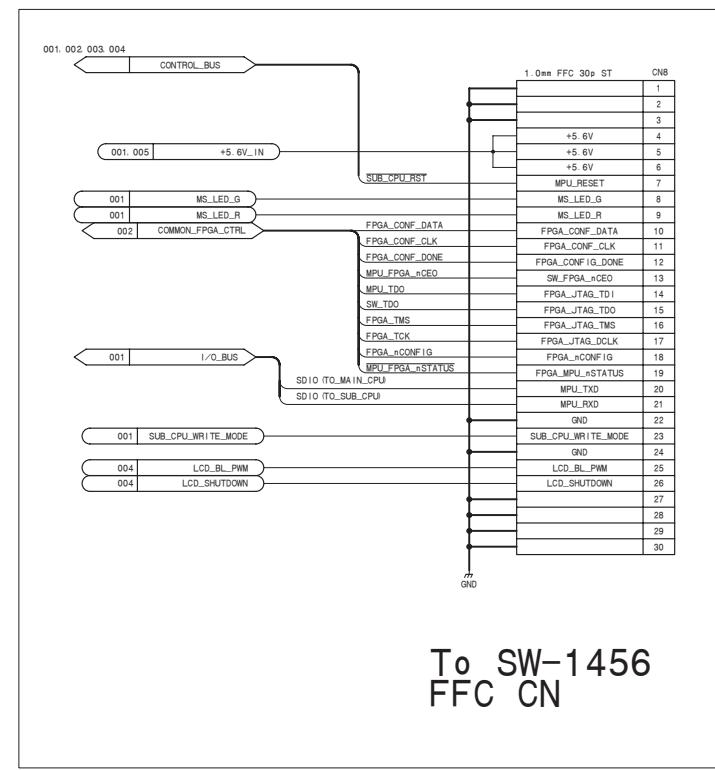
SUFFIX: -11



SUFFIX: -11

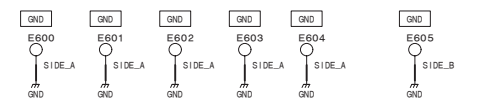
SUFFIX: -11





SUFFIX: -11

SUFFIX: -11

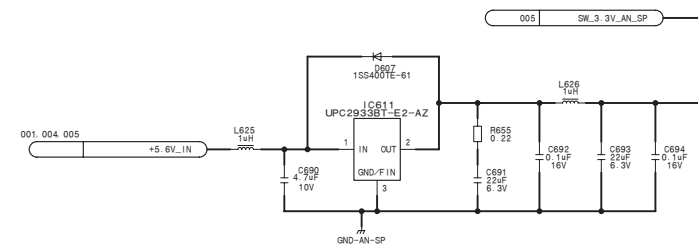
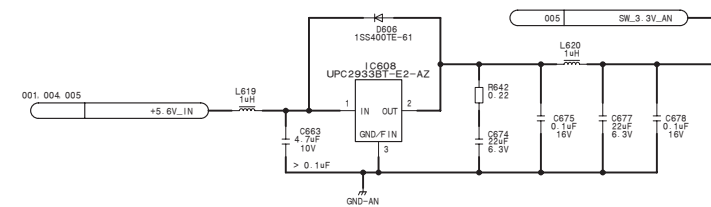
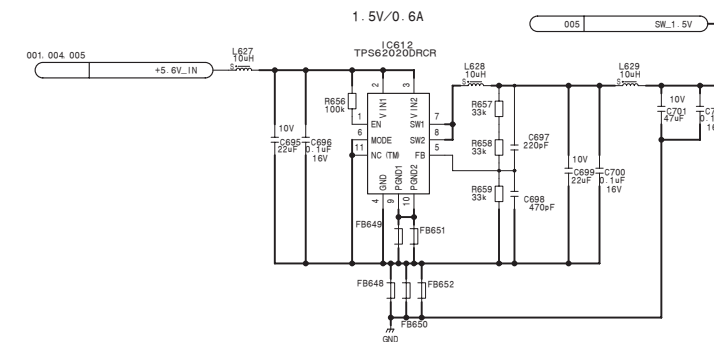
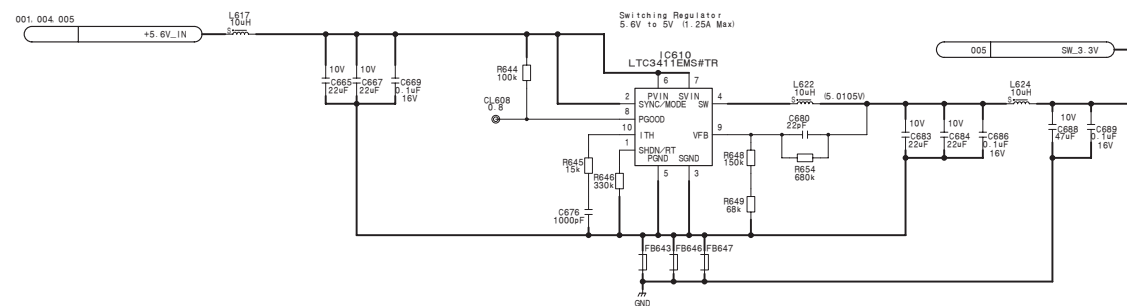
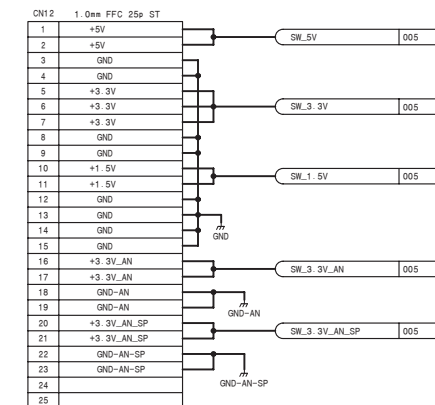
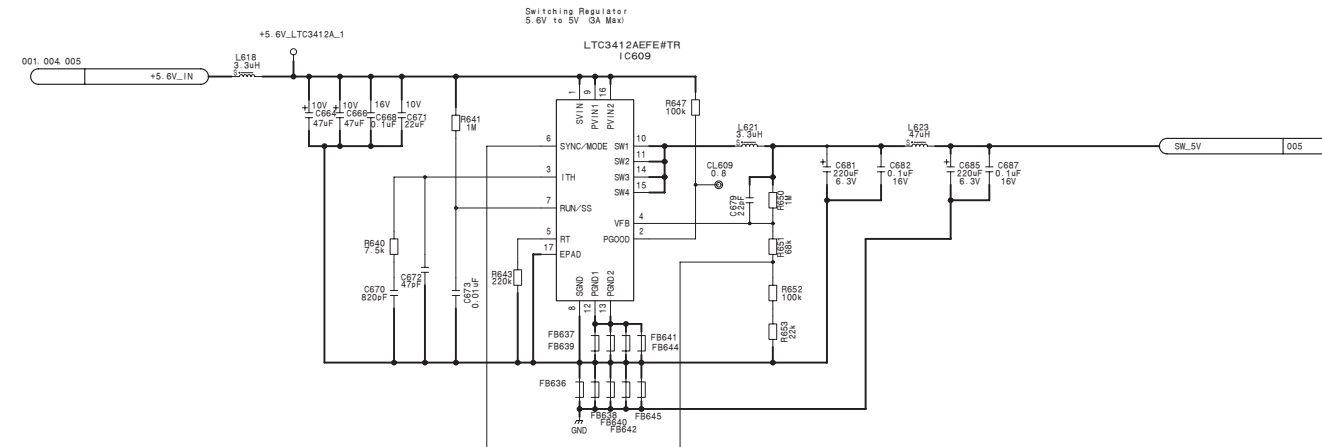


MPU-151 (5/5)

SUFFIX: -11

MPU-151 (5/5)

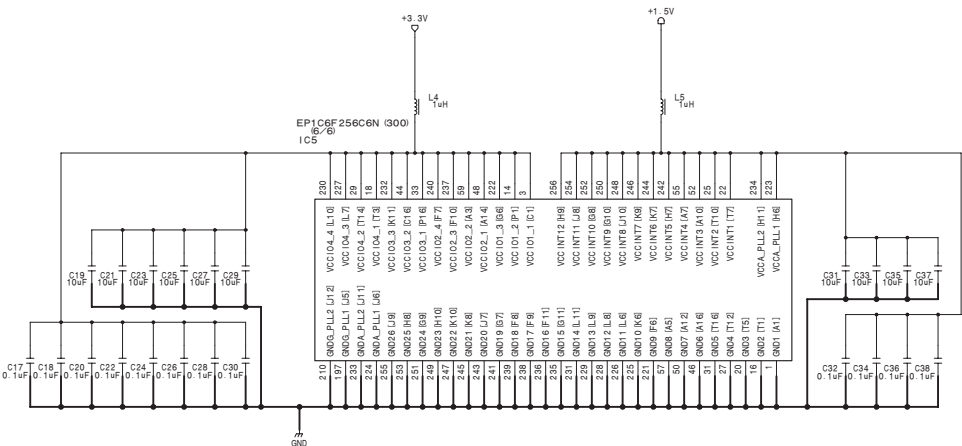
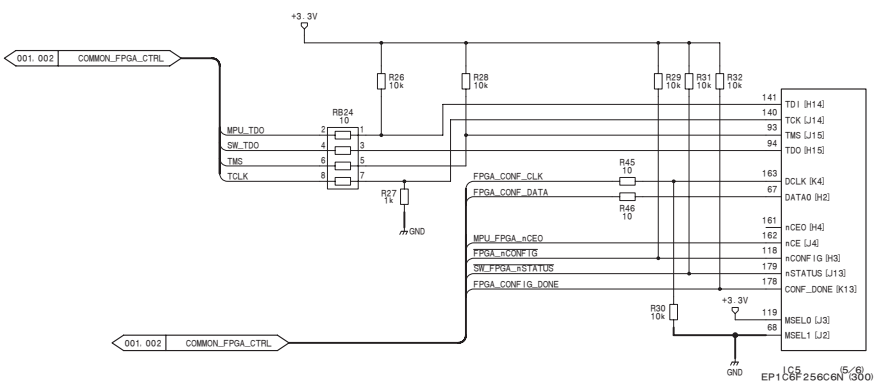
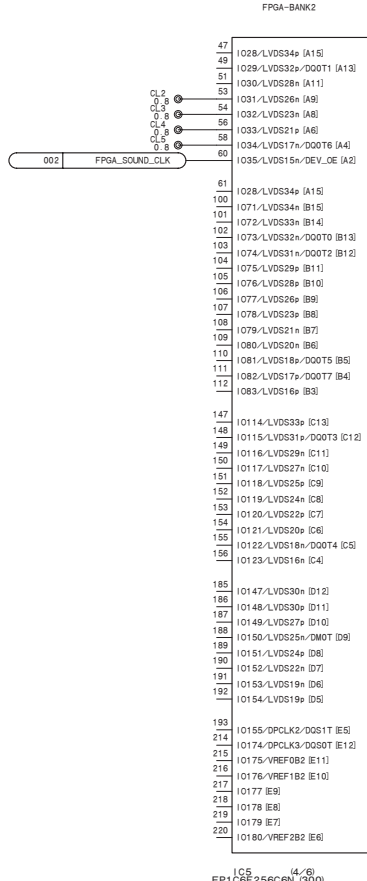
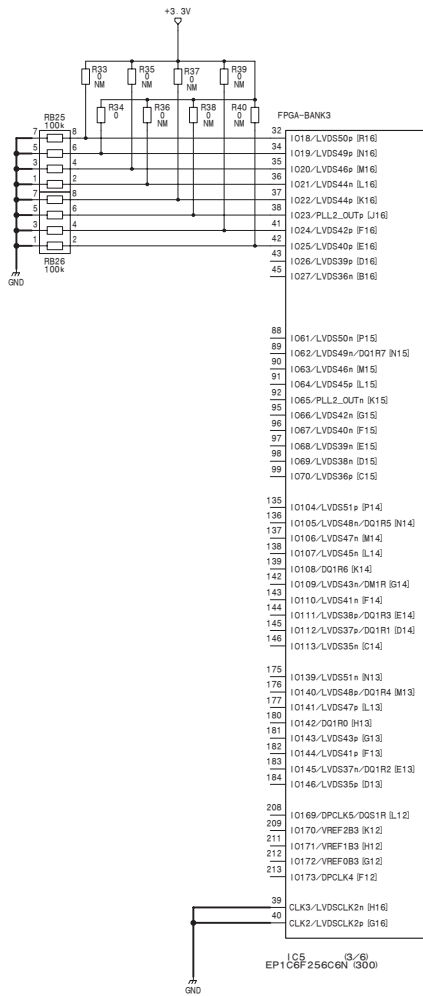
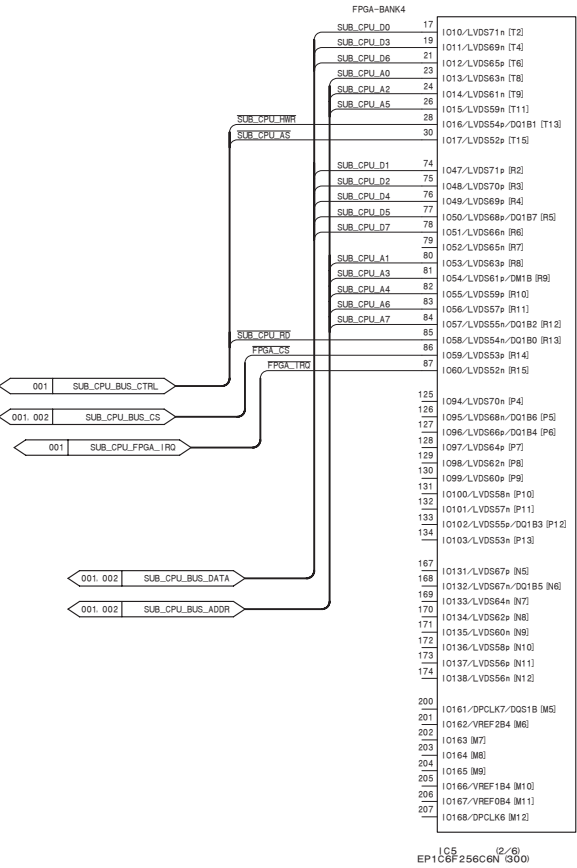
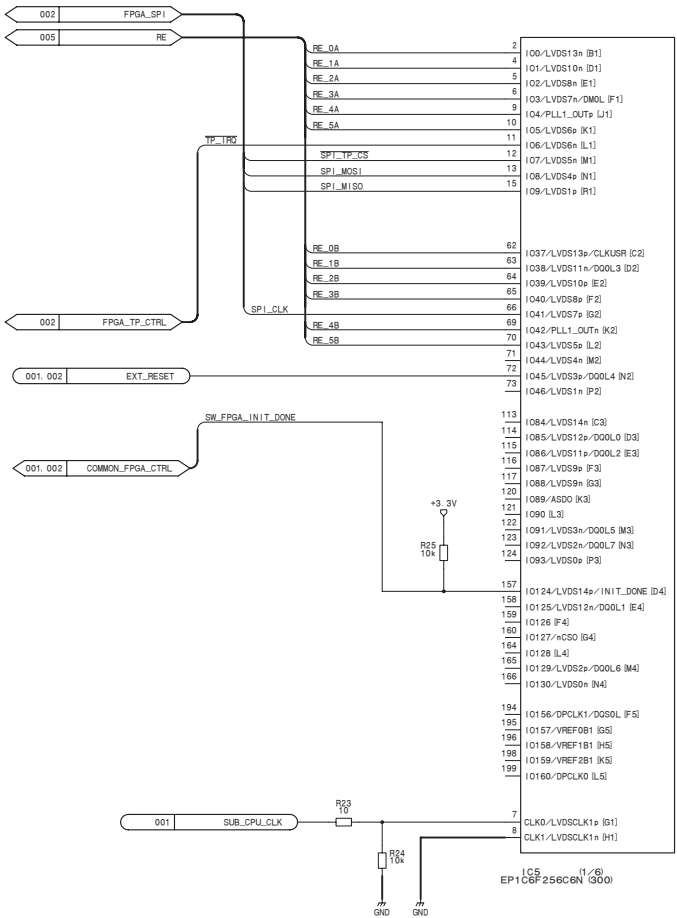
SUFFIX: -11



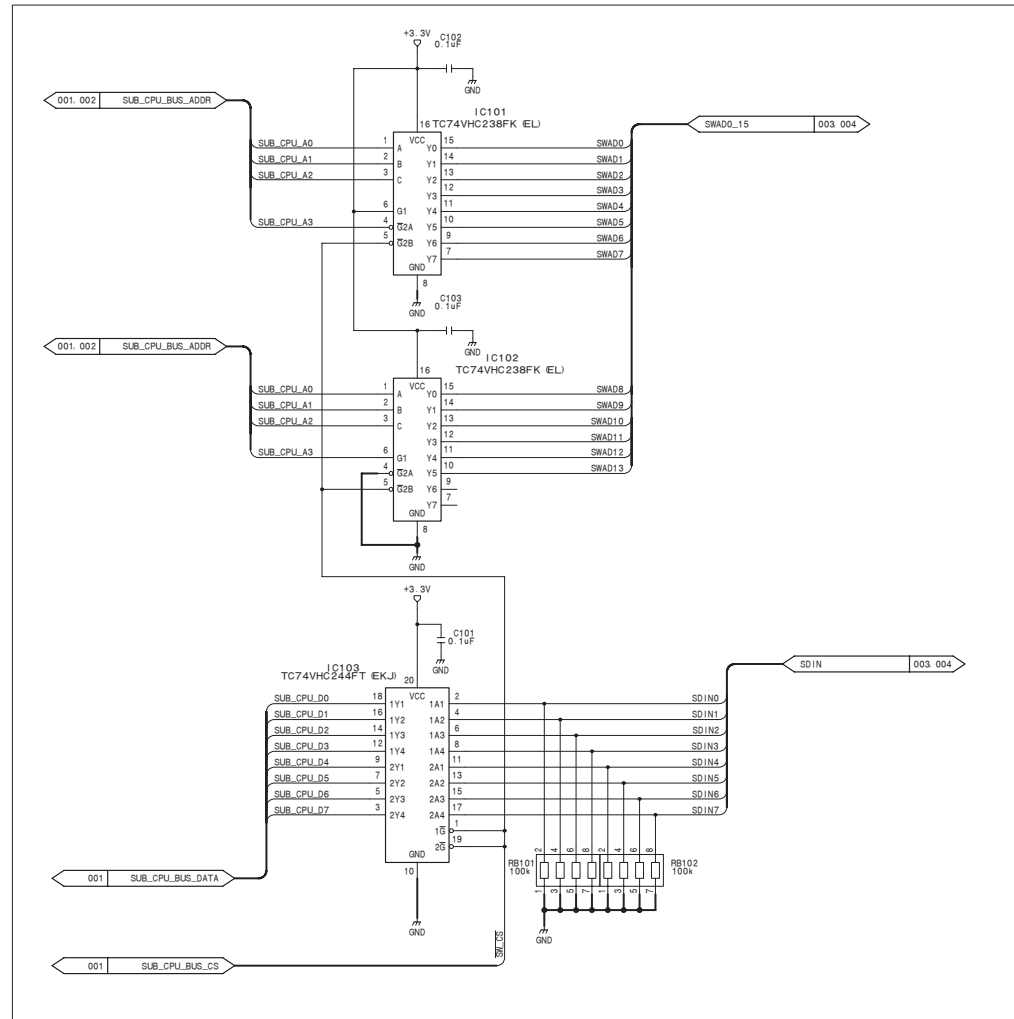
MPU-151 (5/5)

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CAX-164_MPU-151_021_5

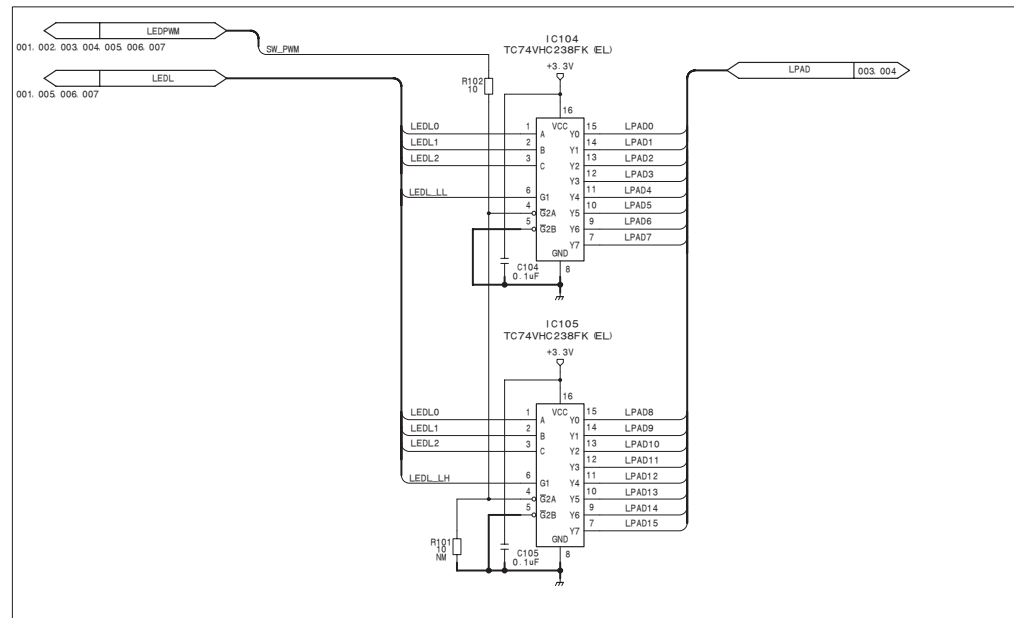




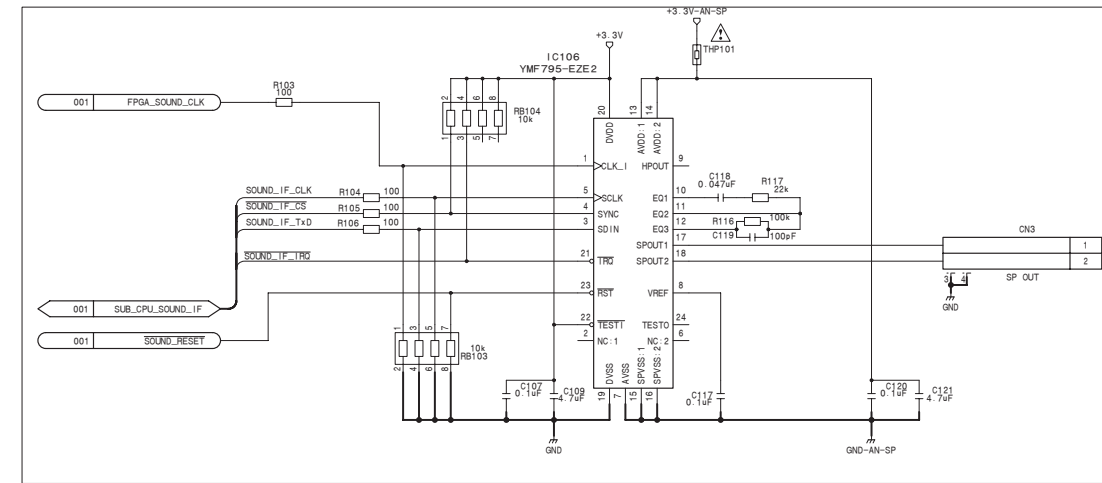
Switch Bus



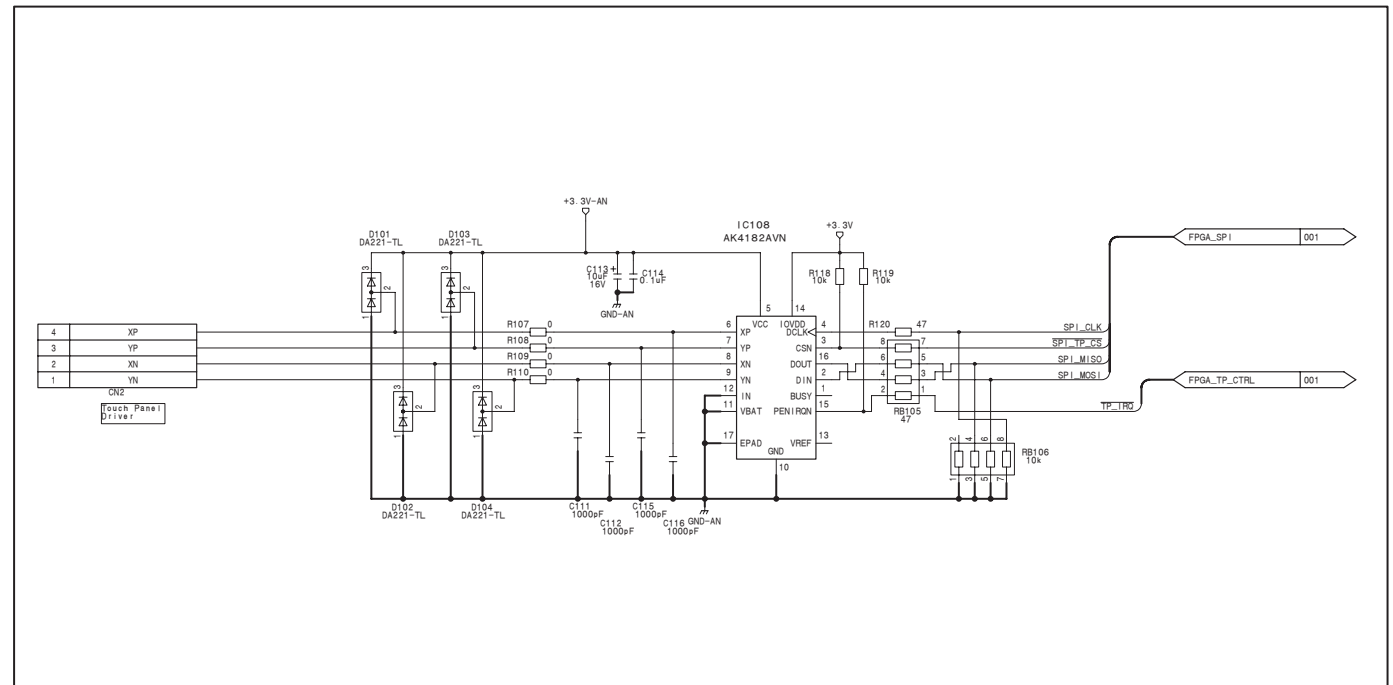
LED Bus



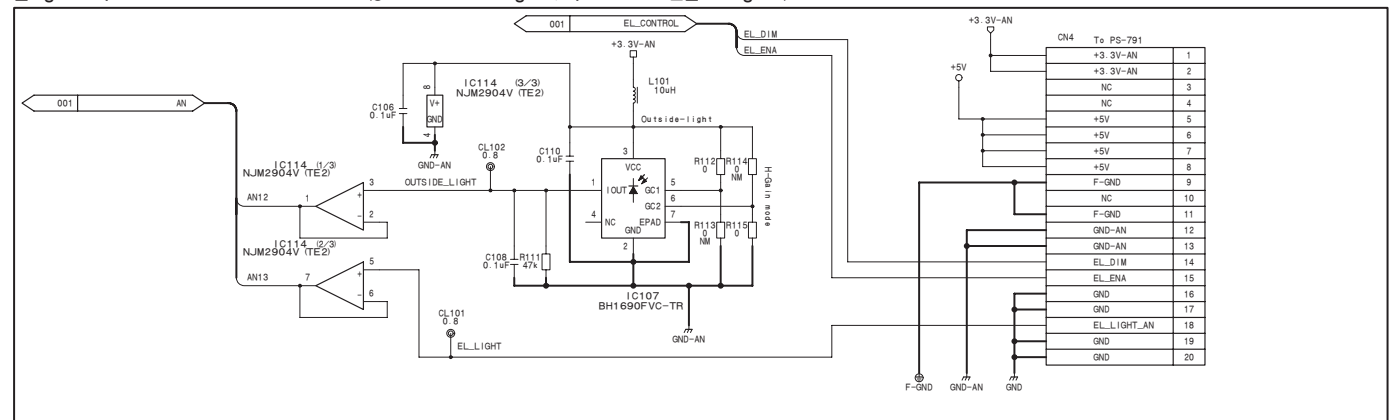
Sound Generator

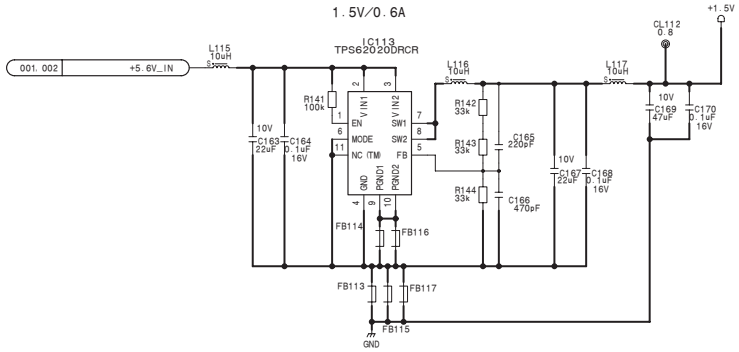
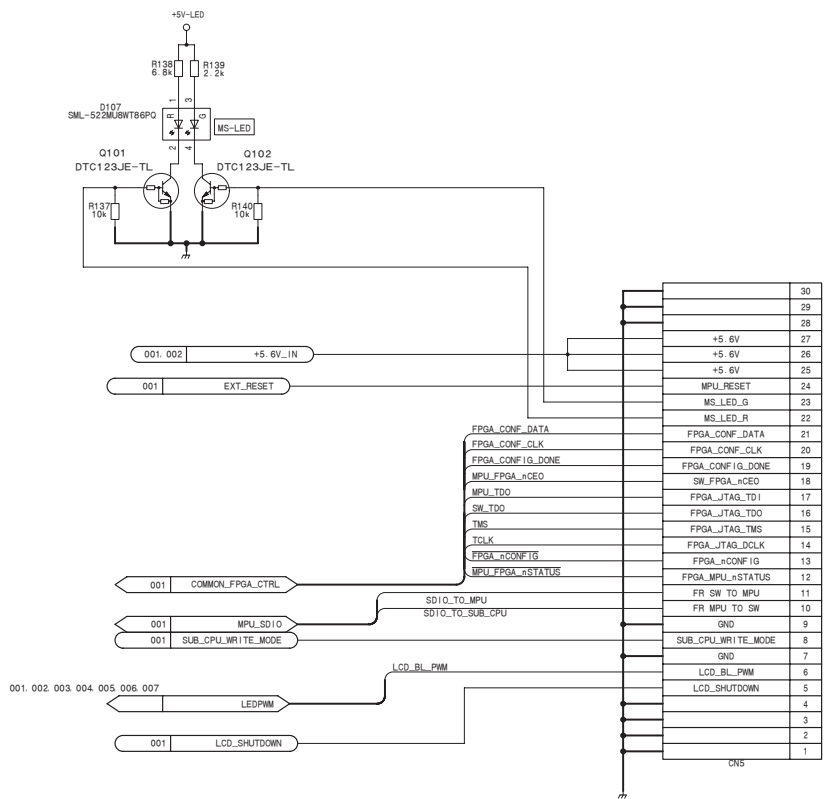
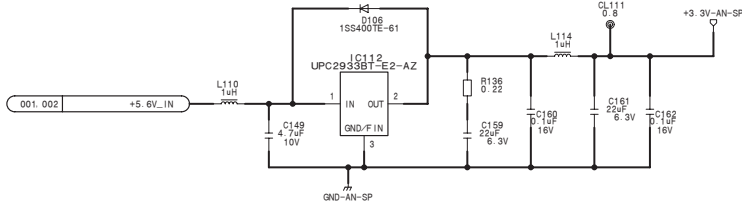
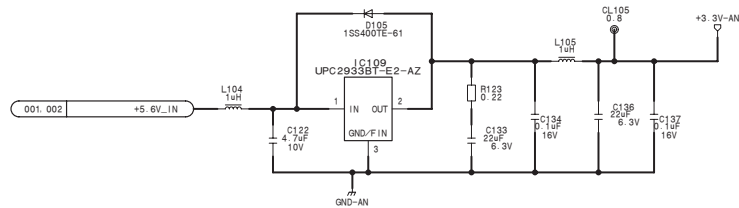
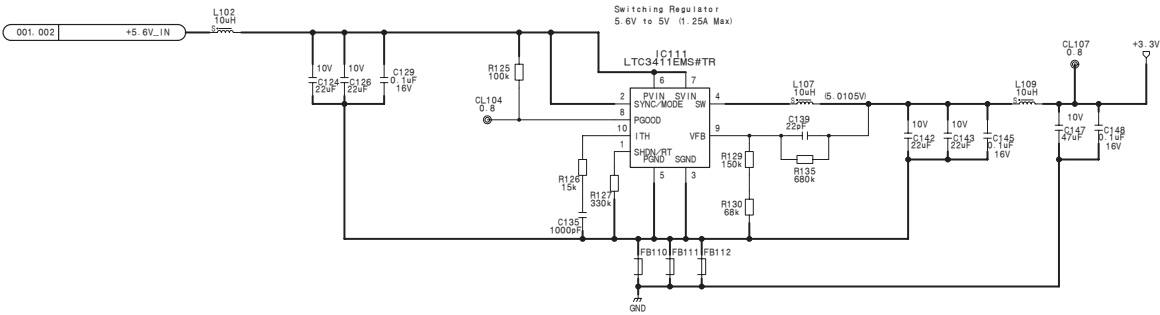
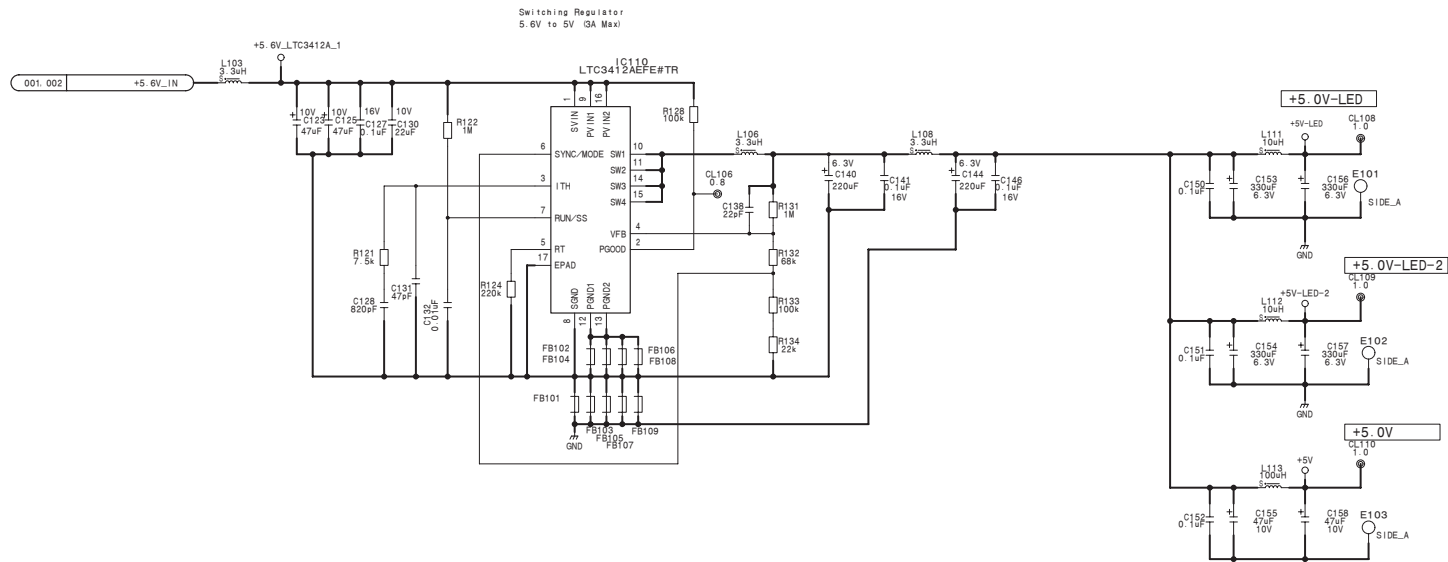


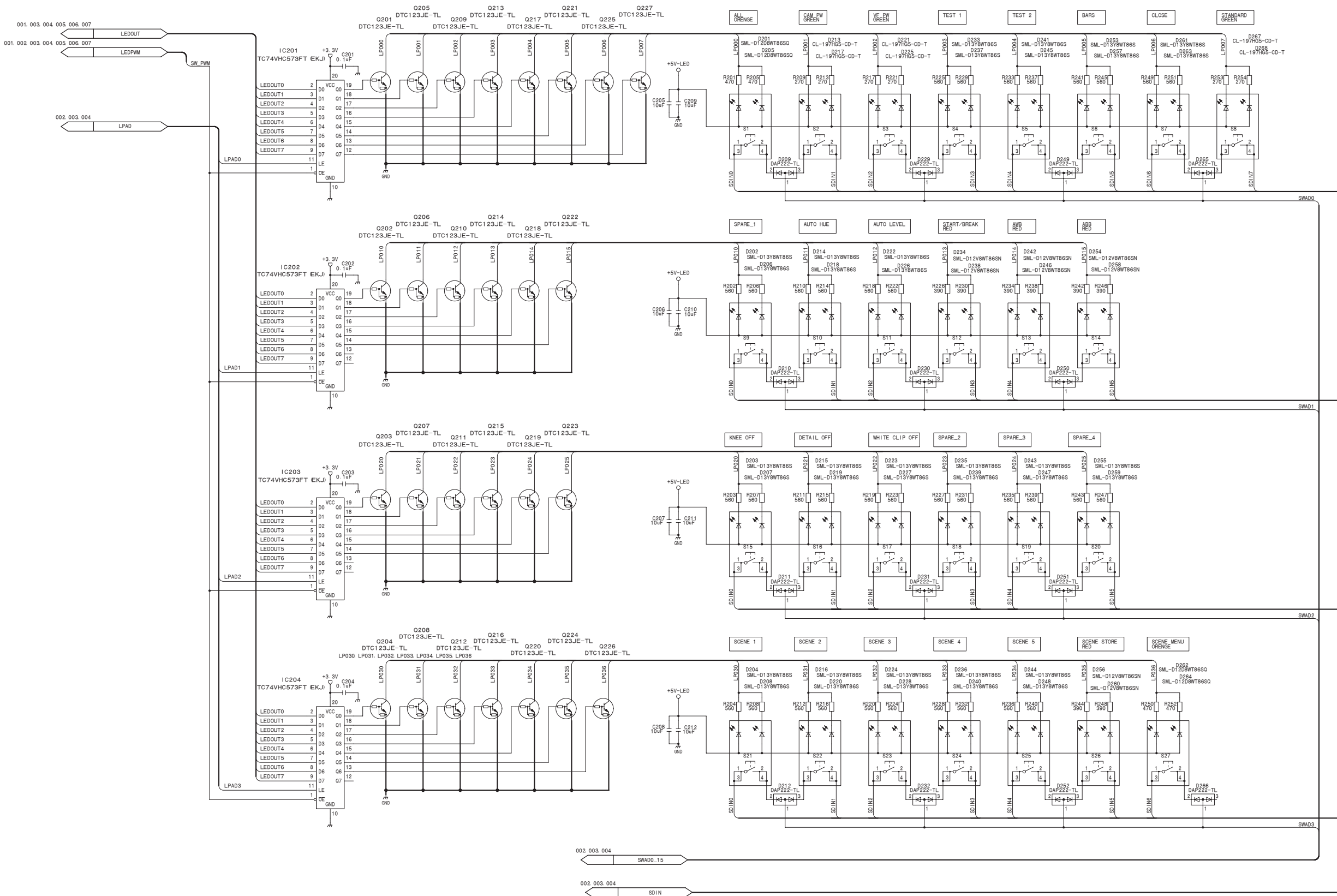
Touch Panel Driver

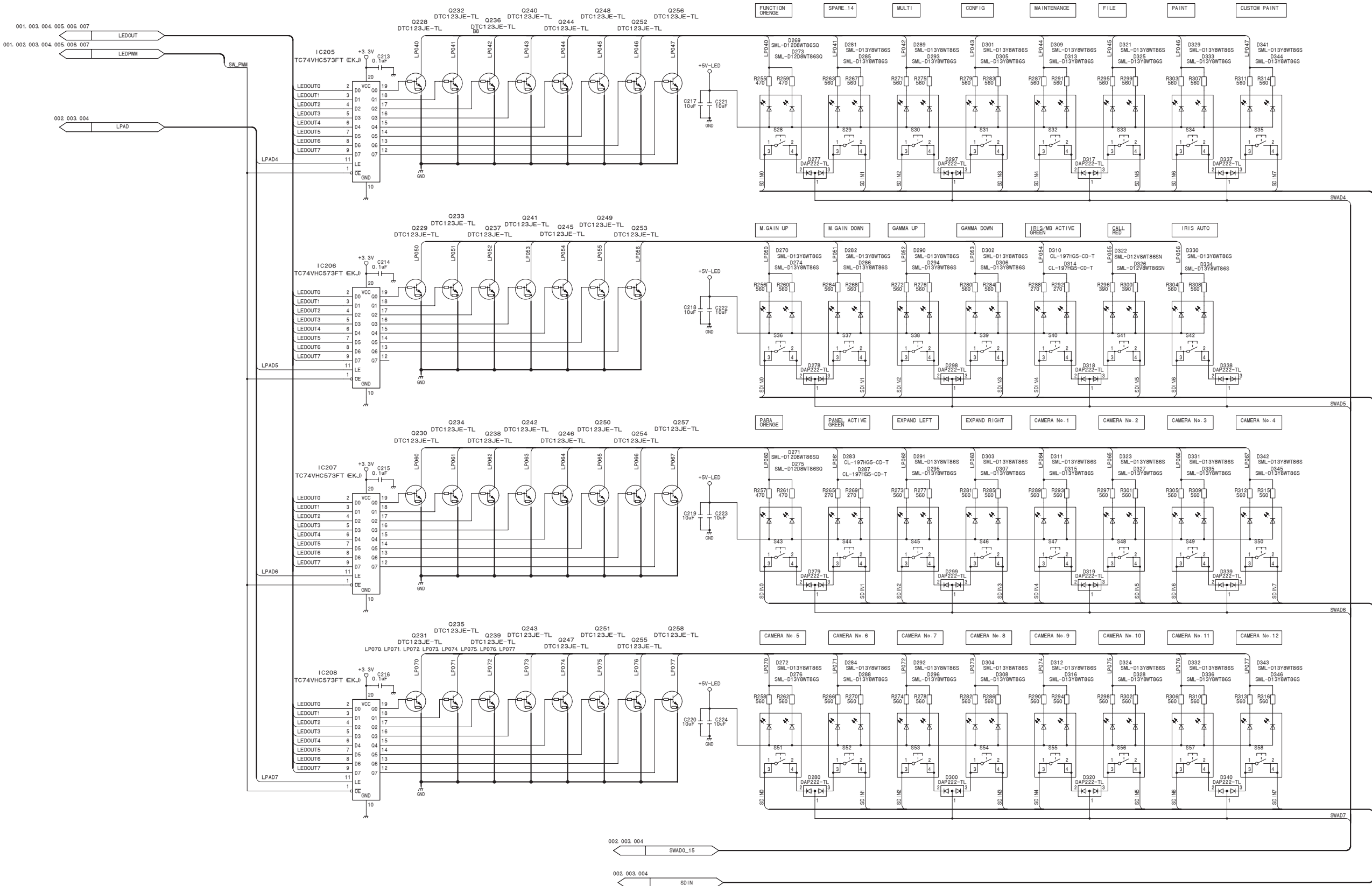


Light Illuminance sensor (Outside-light/Inside-EL-light)





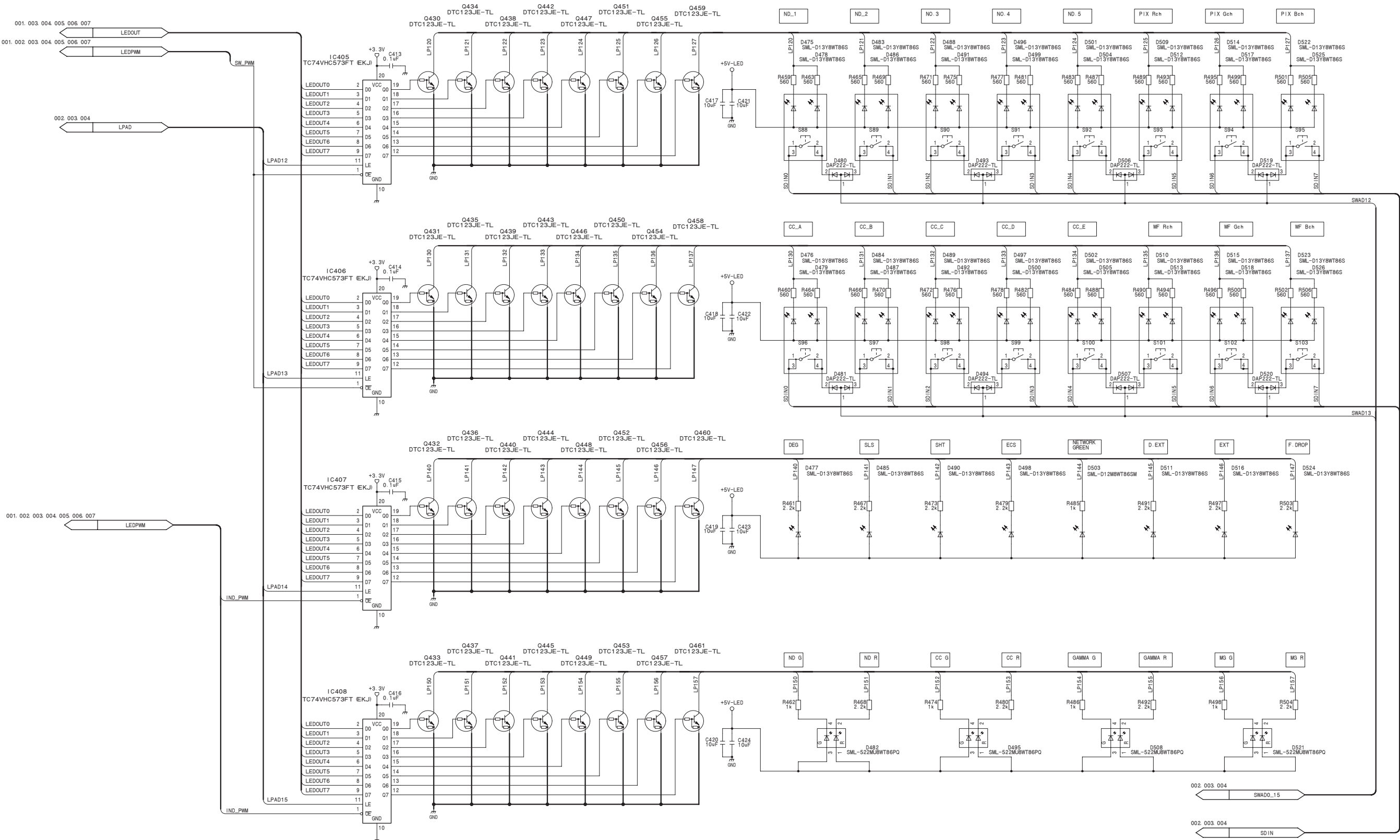


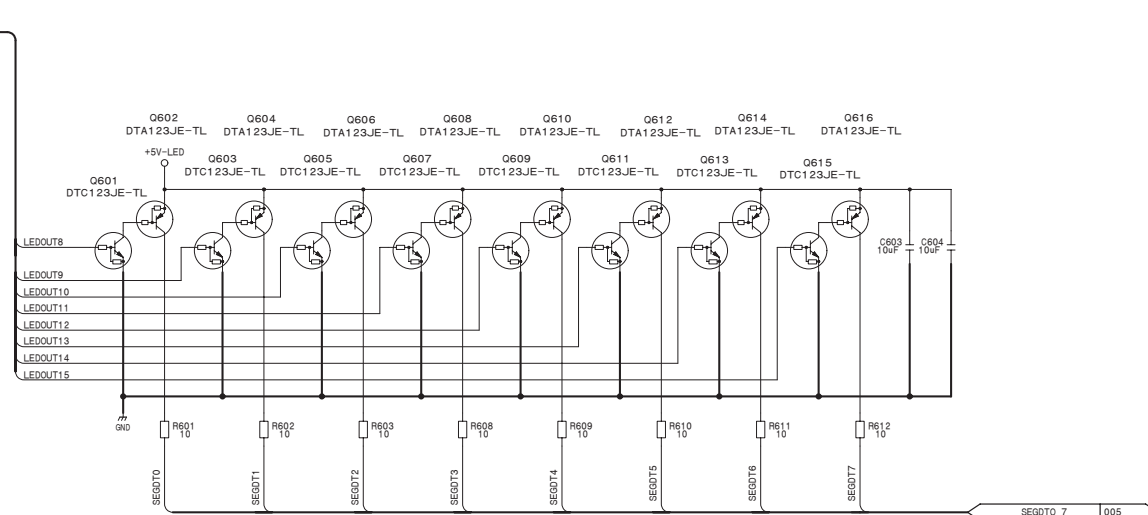
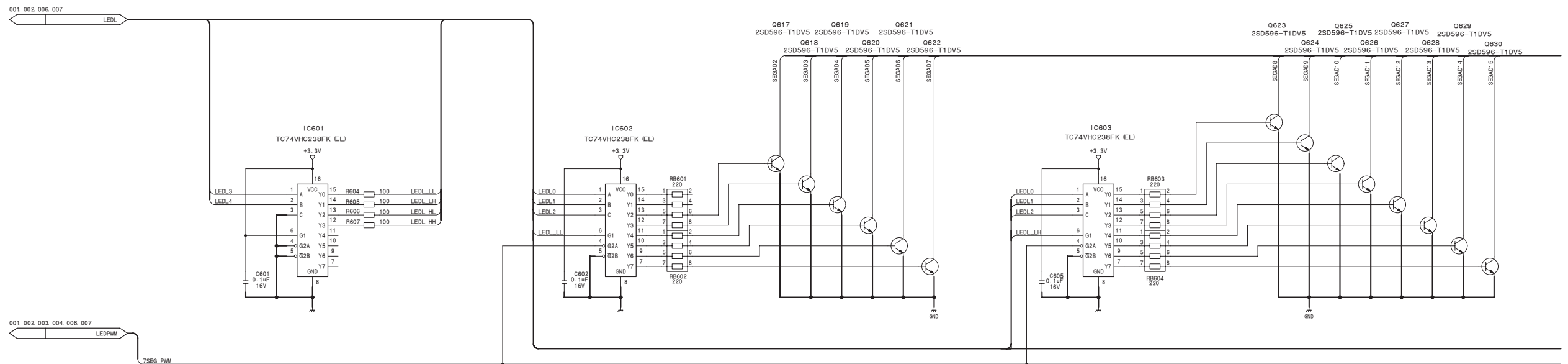
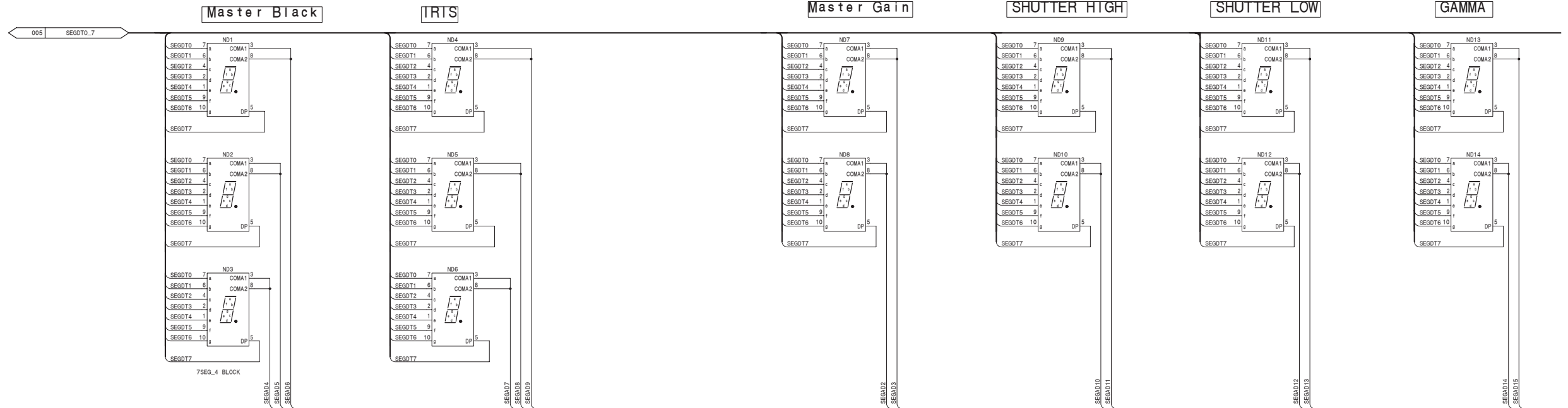


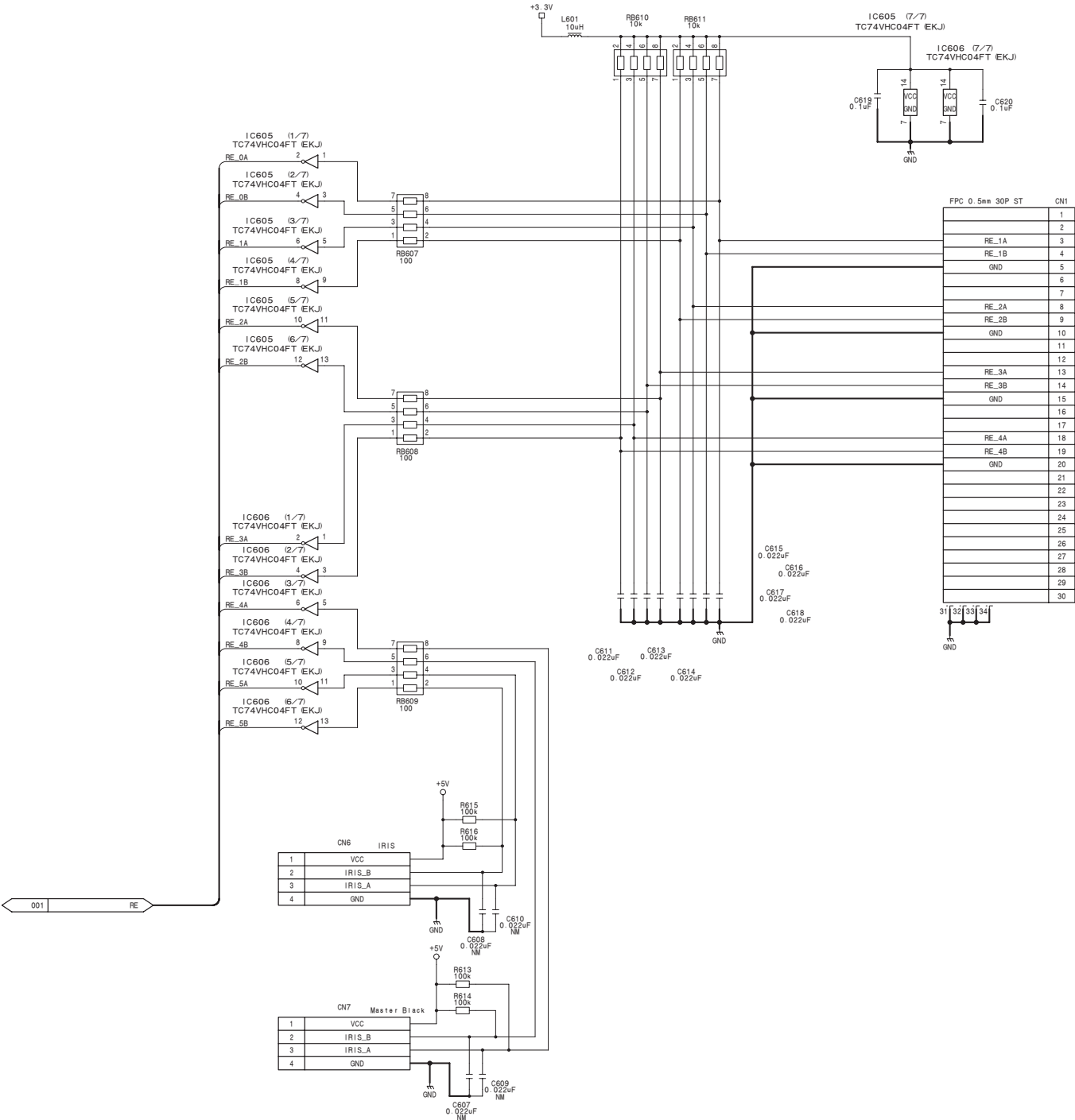
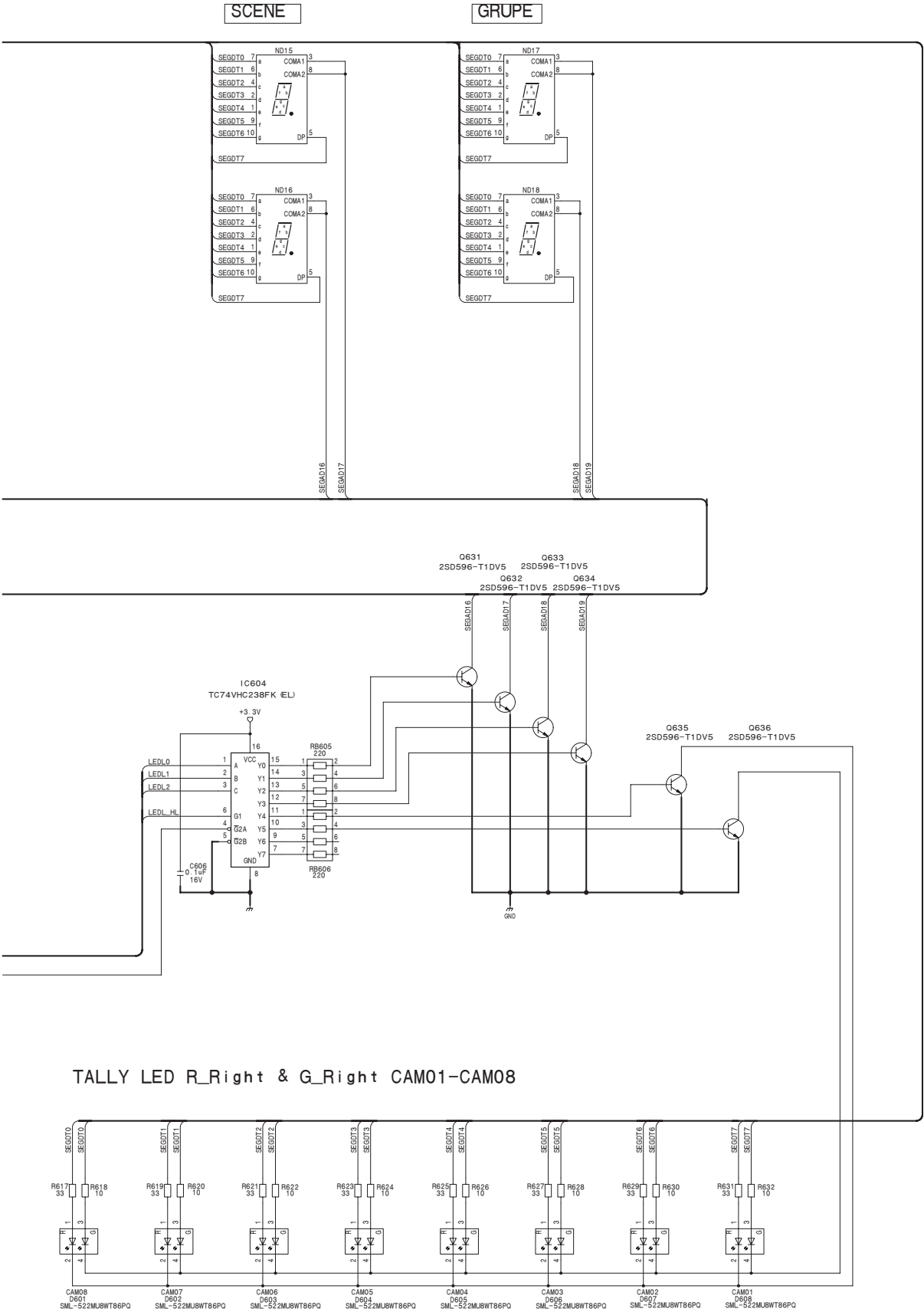
SUFFIX: -11

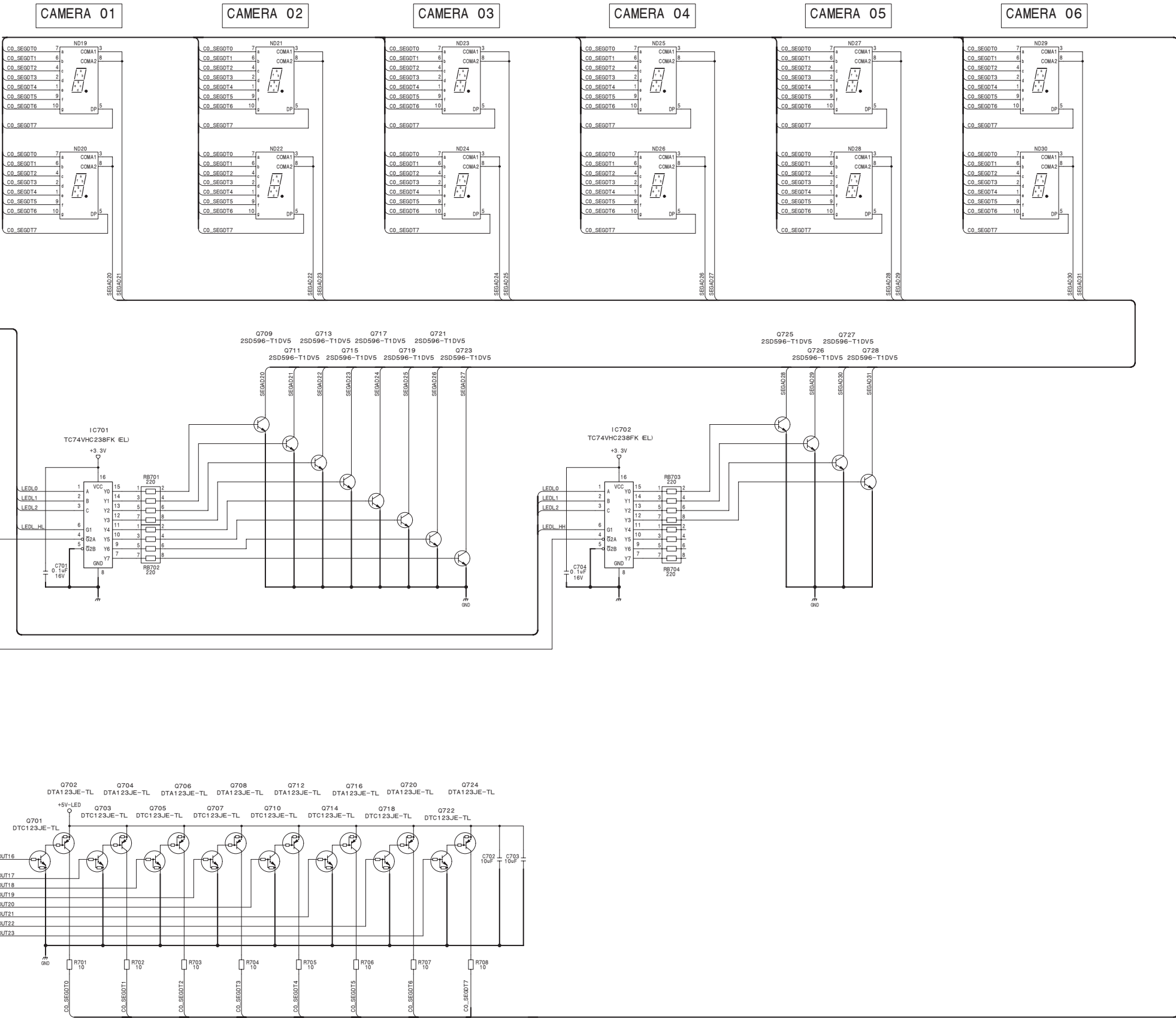
SUFFIX: -11

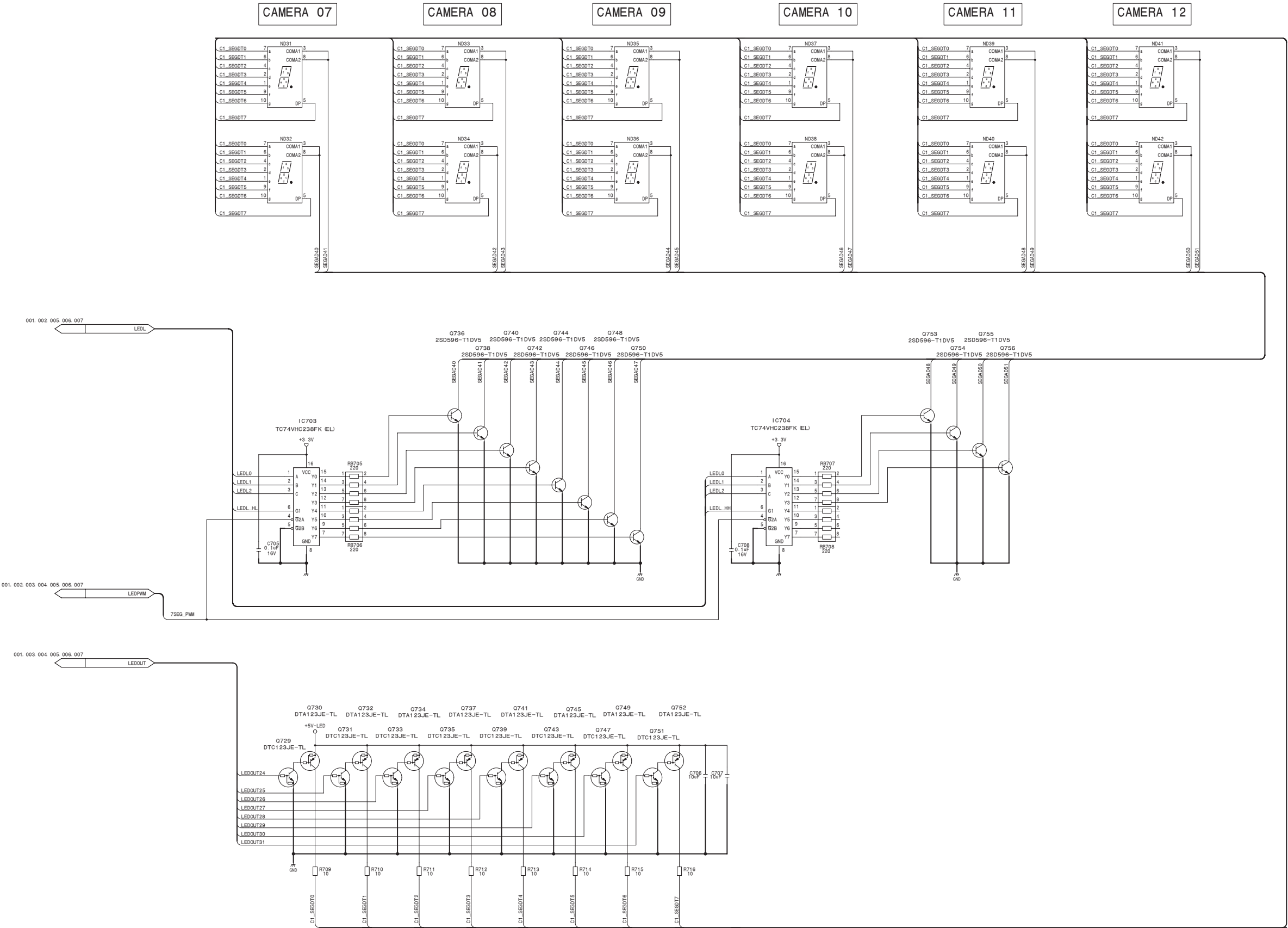








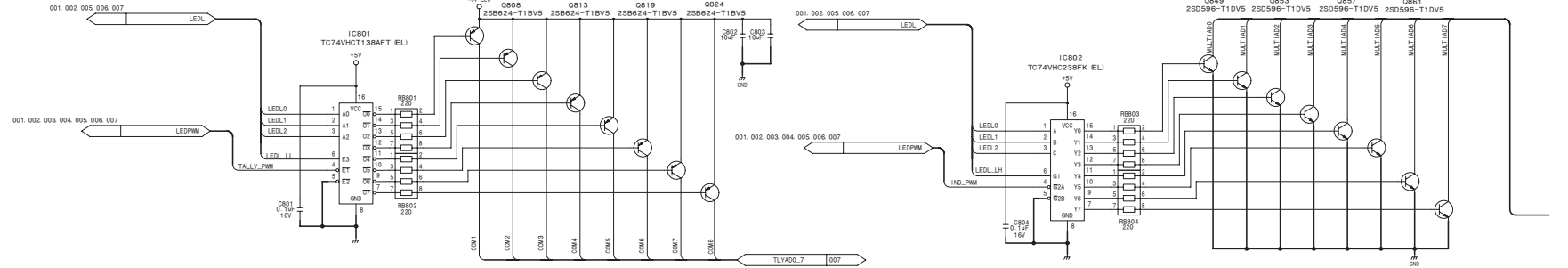
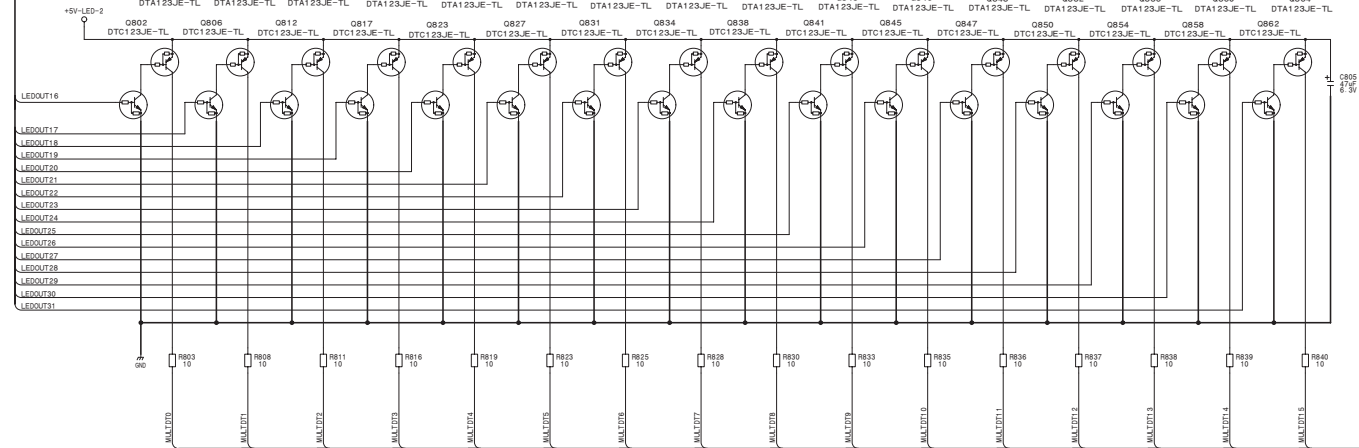




SUFFIX: -11

SUFFIX: -11

LEDOUT



A

B

C

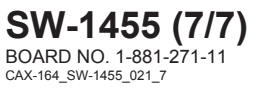
D

E

F

G

H



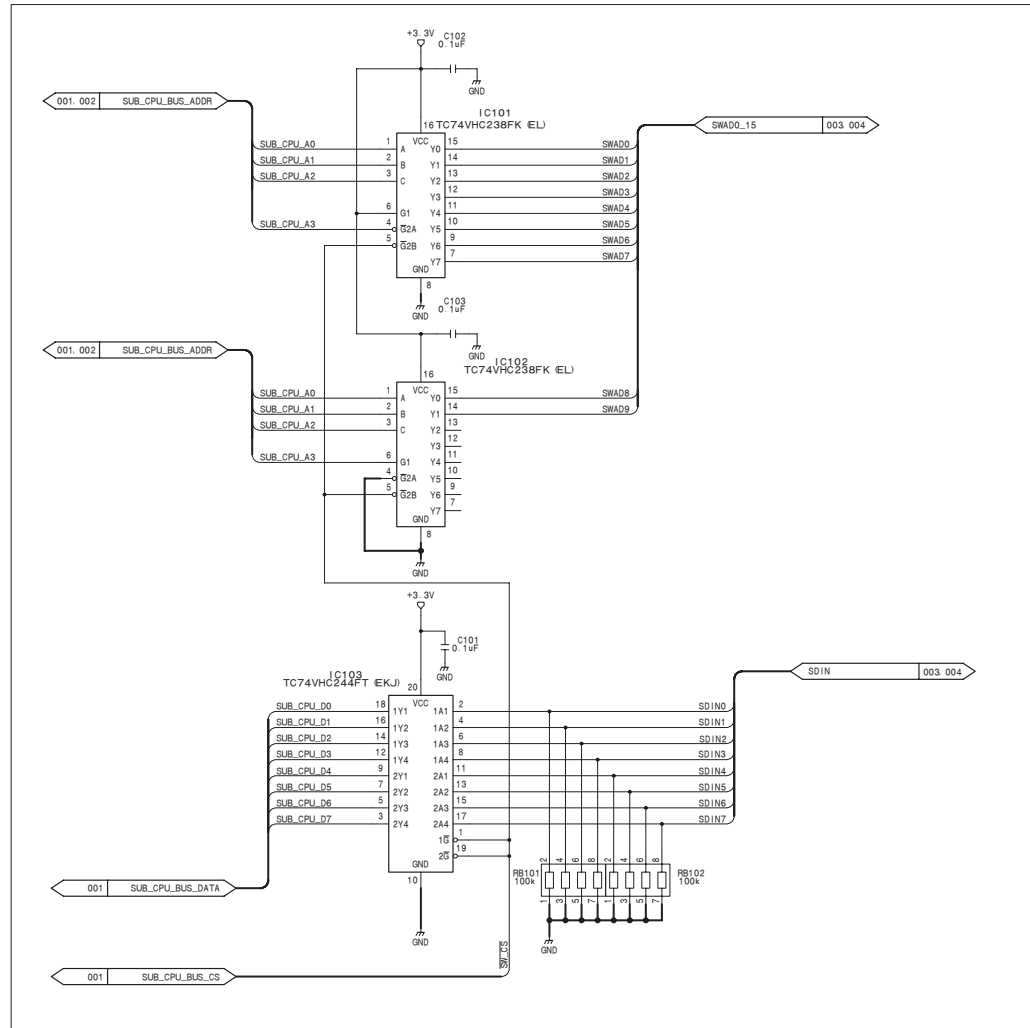
SUFFIX: -11

SUFFIX: -11

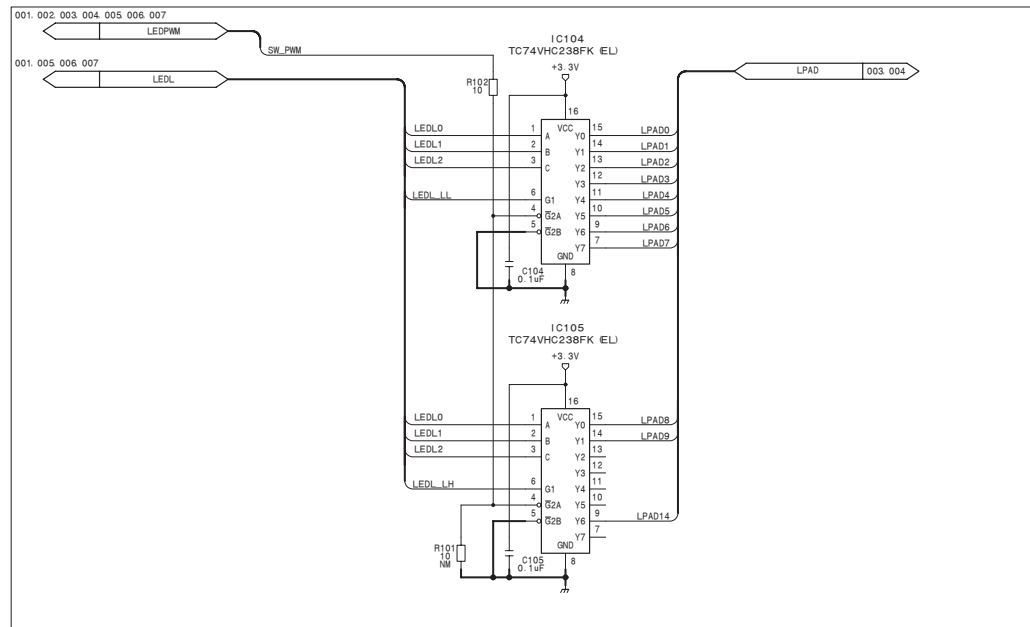


BOARD NO. 1-881-272-11
CAX-164_SW-1456_021_1

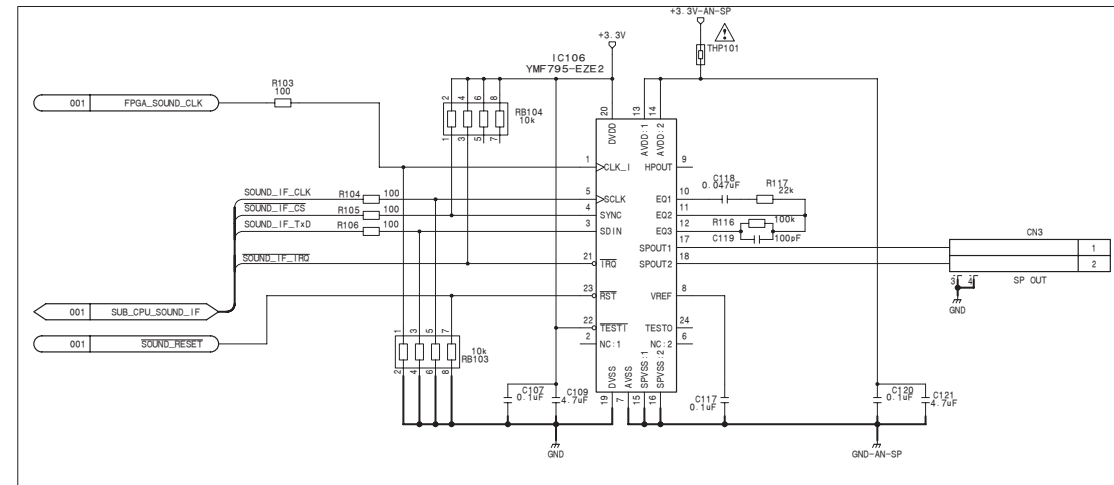
Switch Bus



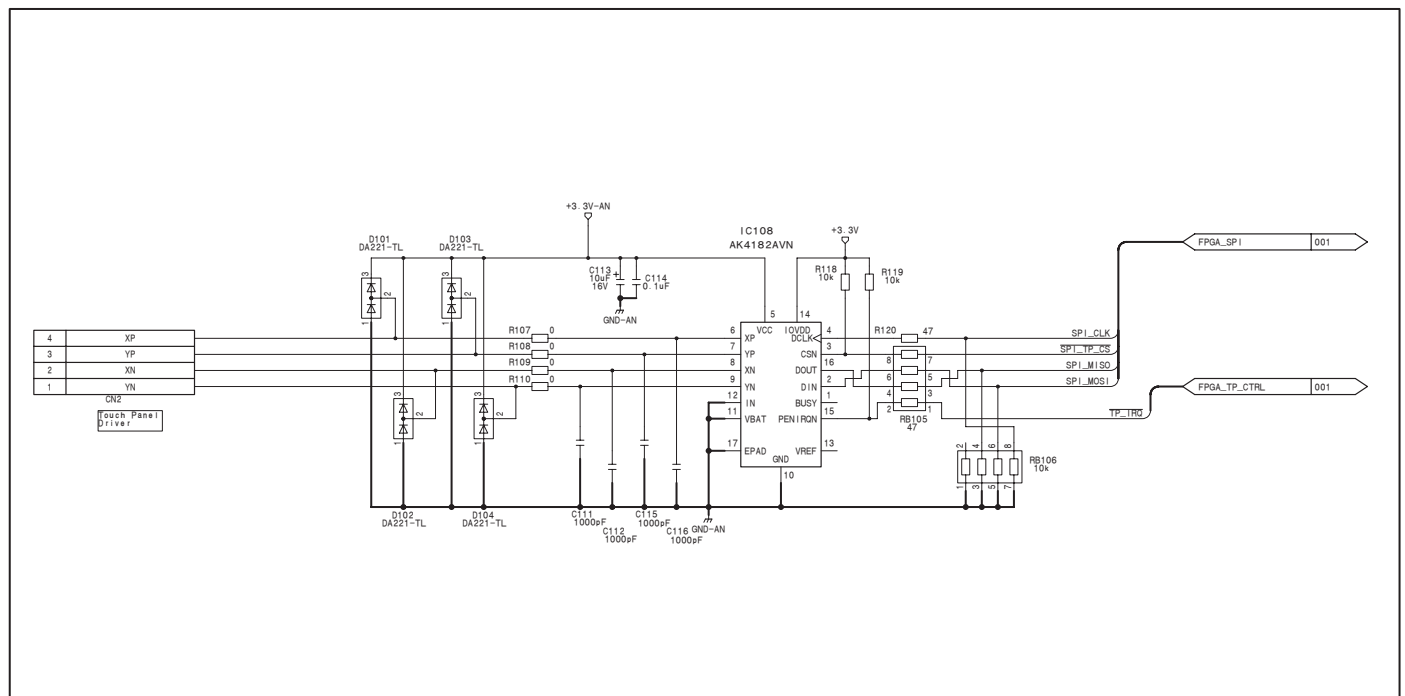
LED Bus



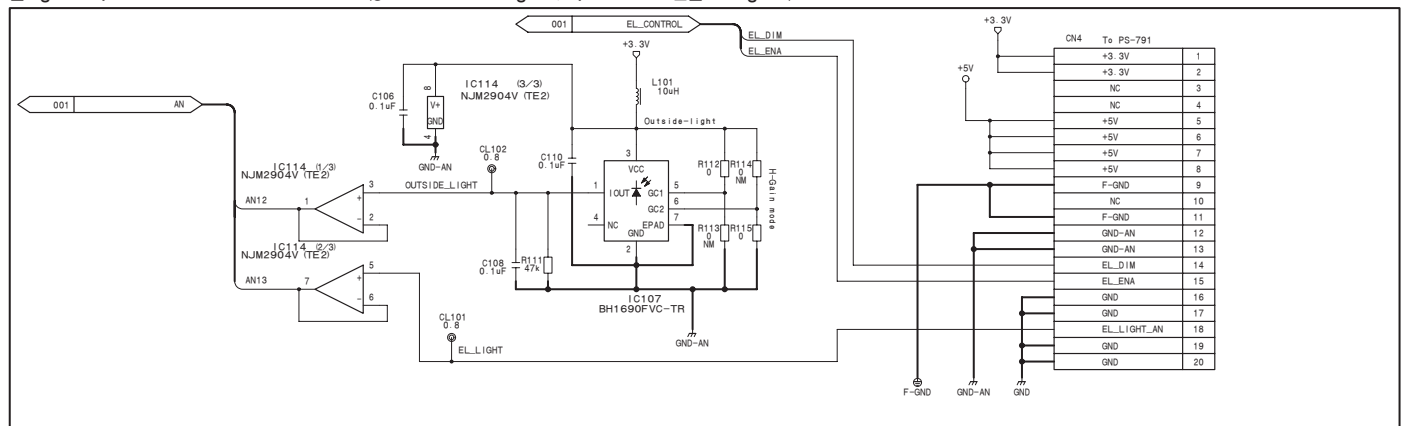
Sound Generator

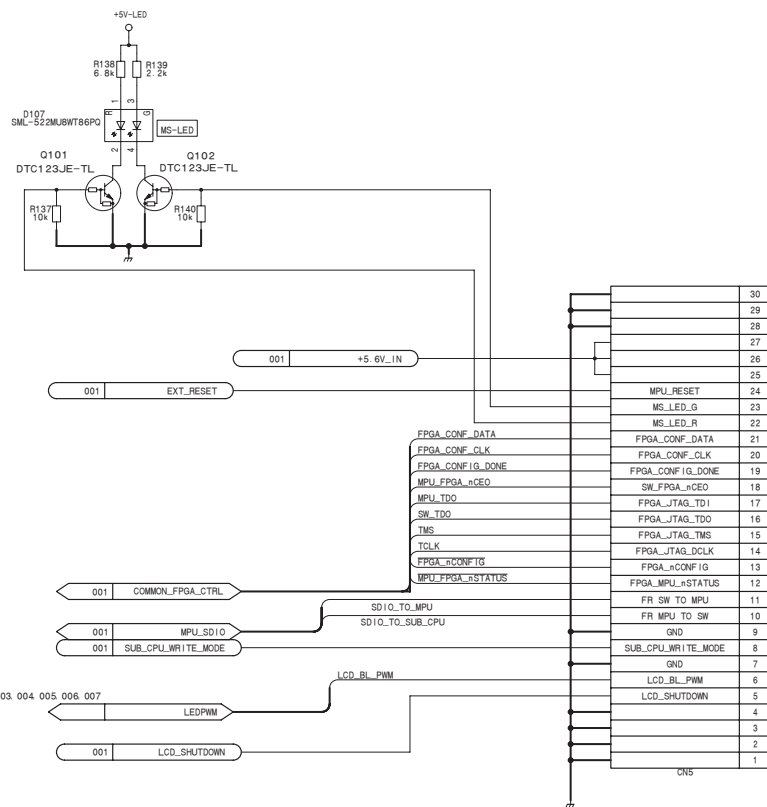
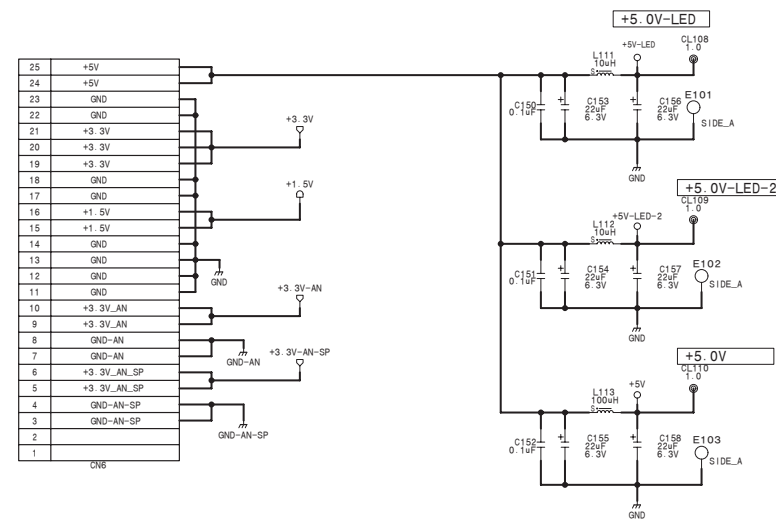


Touch Panel Driver



Light Illuminance sensor (Outside-light/Inside-EL-light)



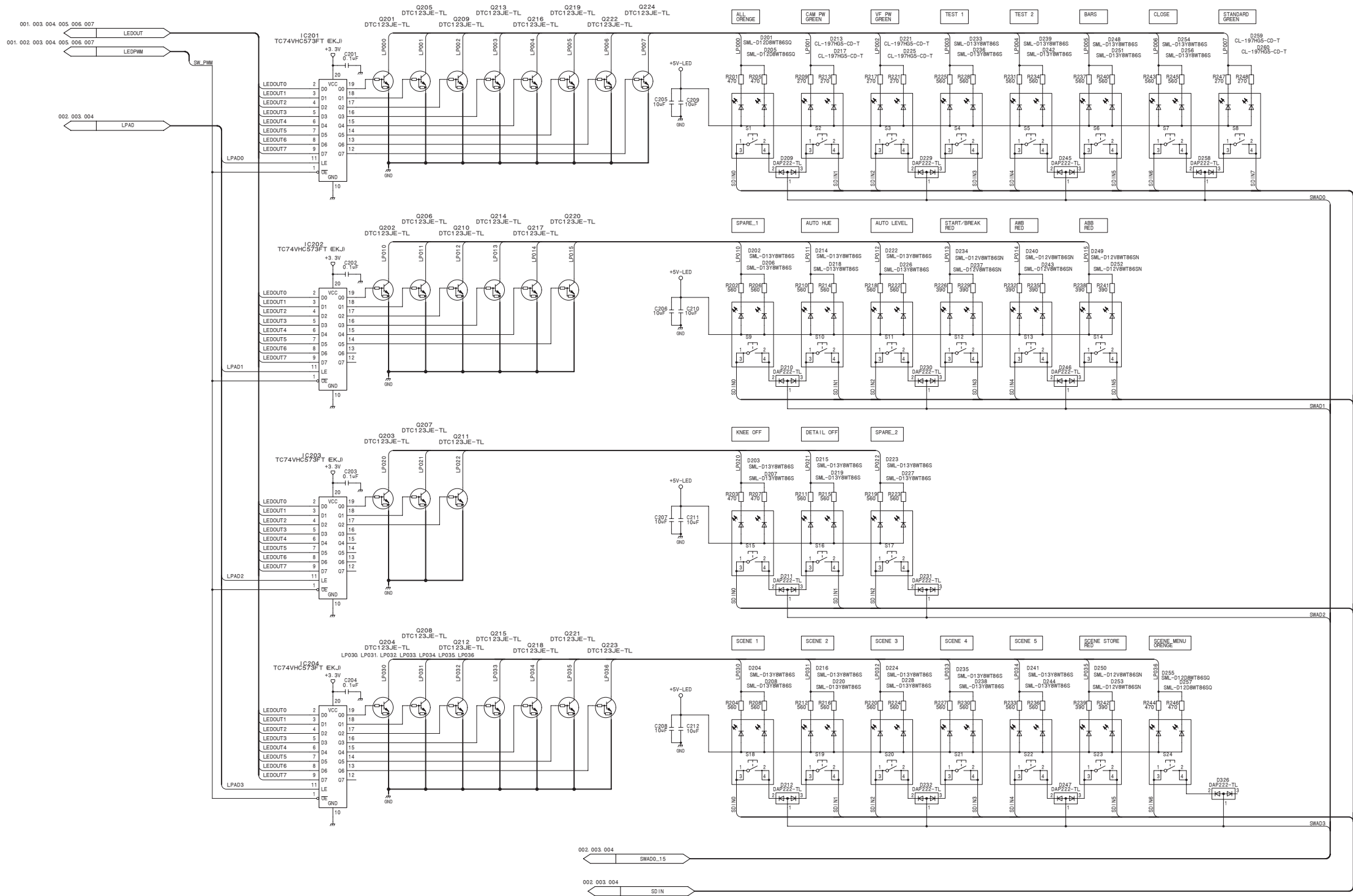


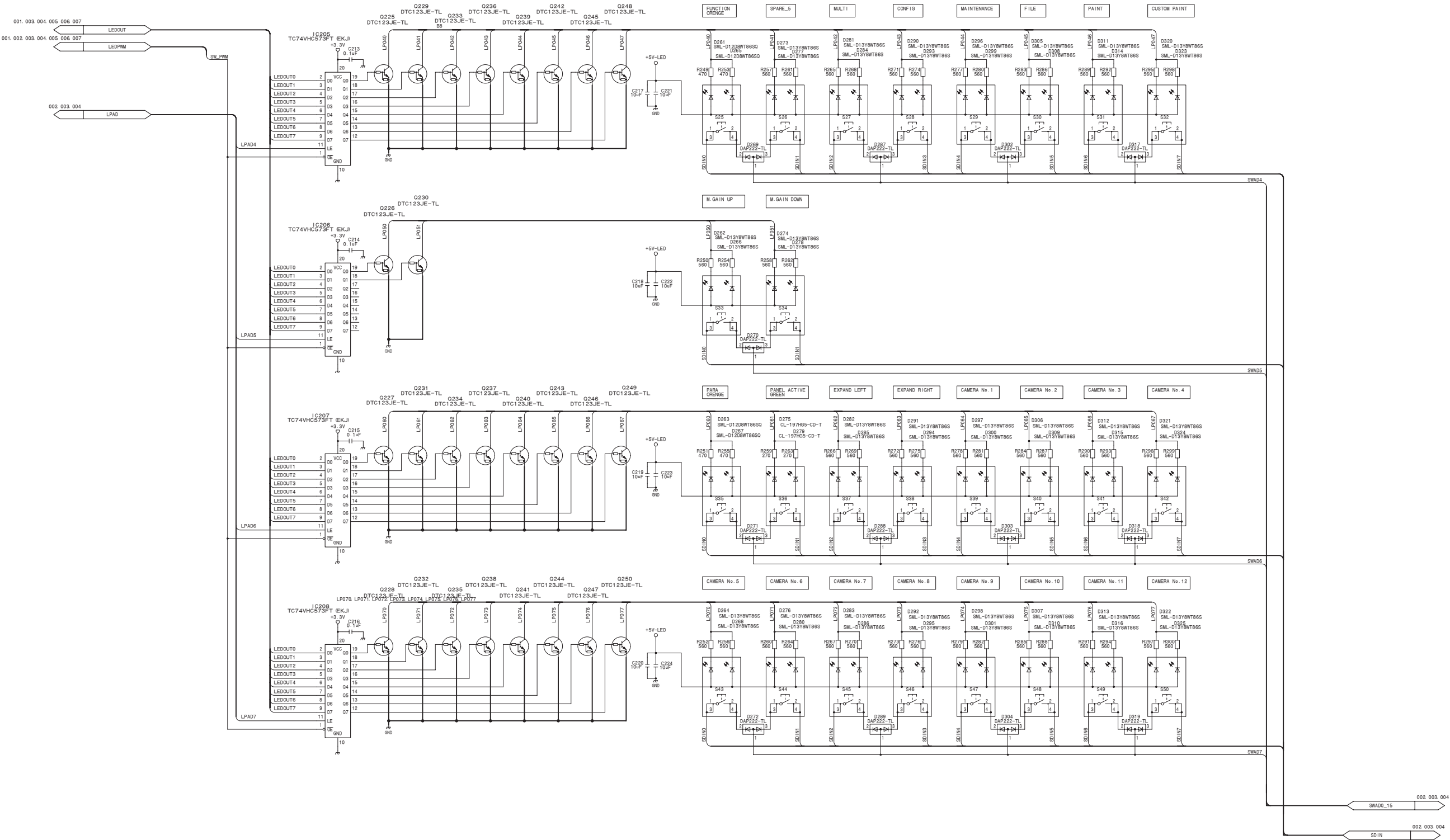
SW-1456 (2/7)

BOARD NO. 1-881-272-11
CAX-164_SW-1456_021_2

SW-1456 (3/7) SW-1456 (3/7)

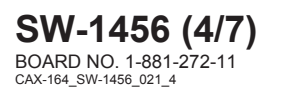
SUFFIX: -11 SUFFIX: -11

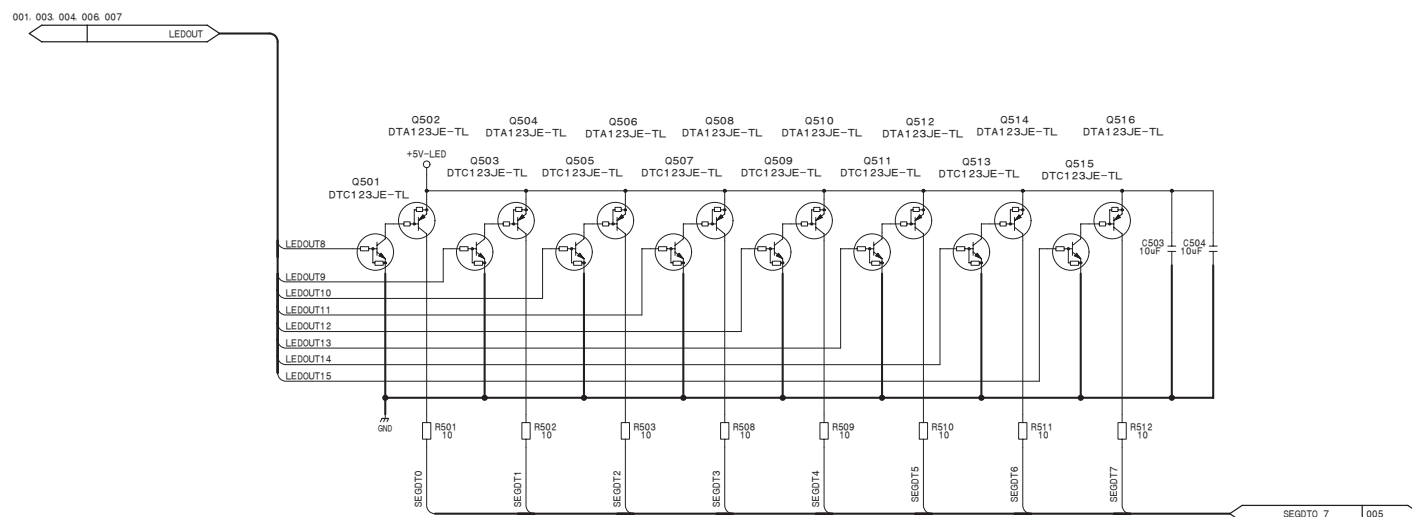
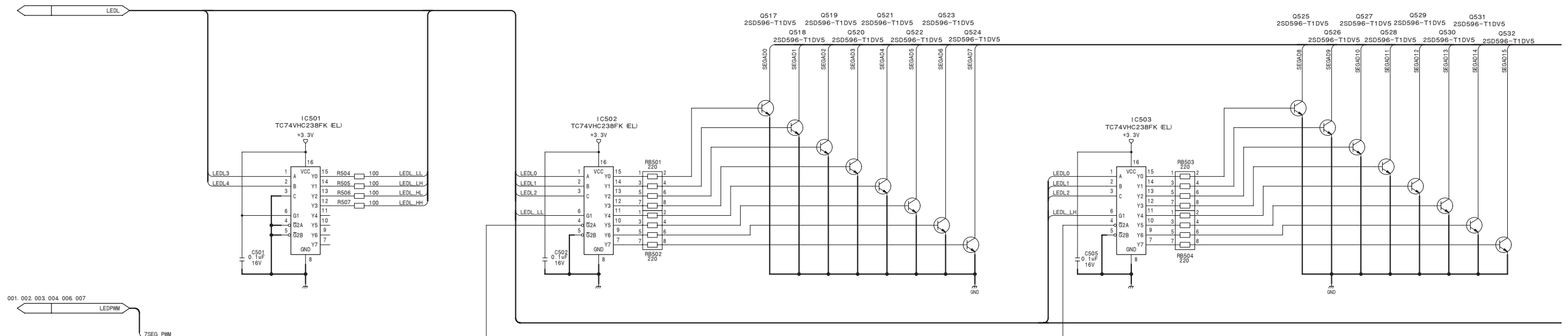
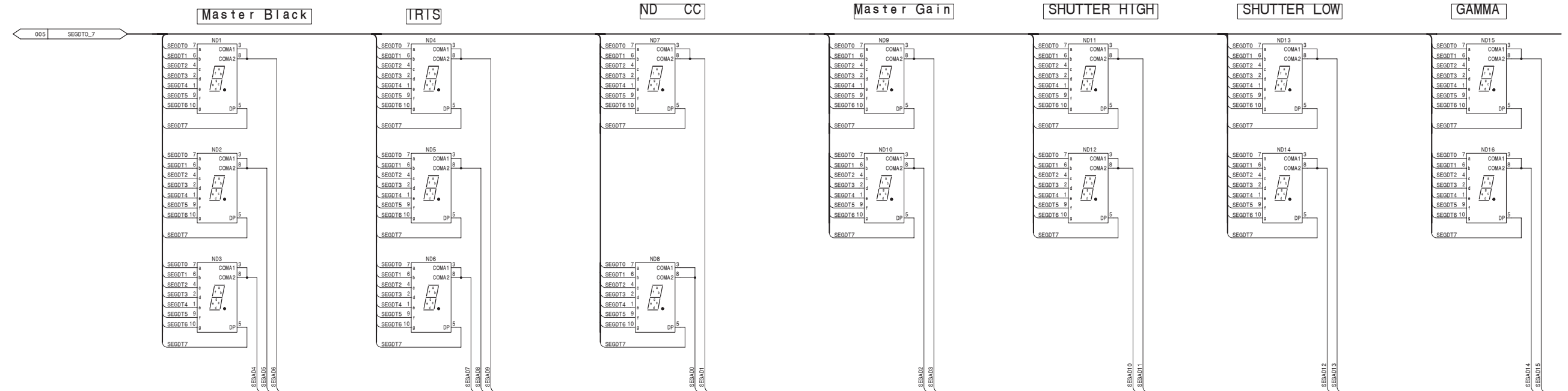


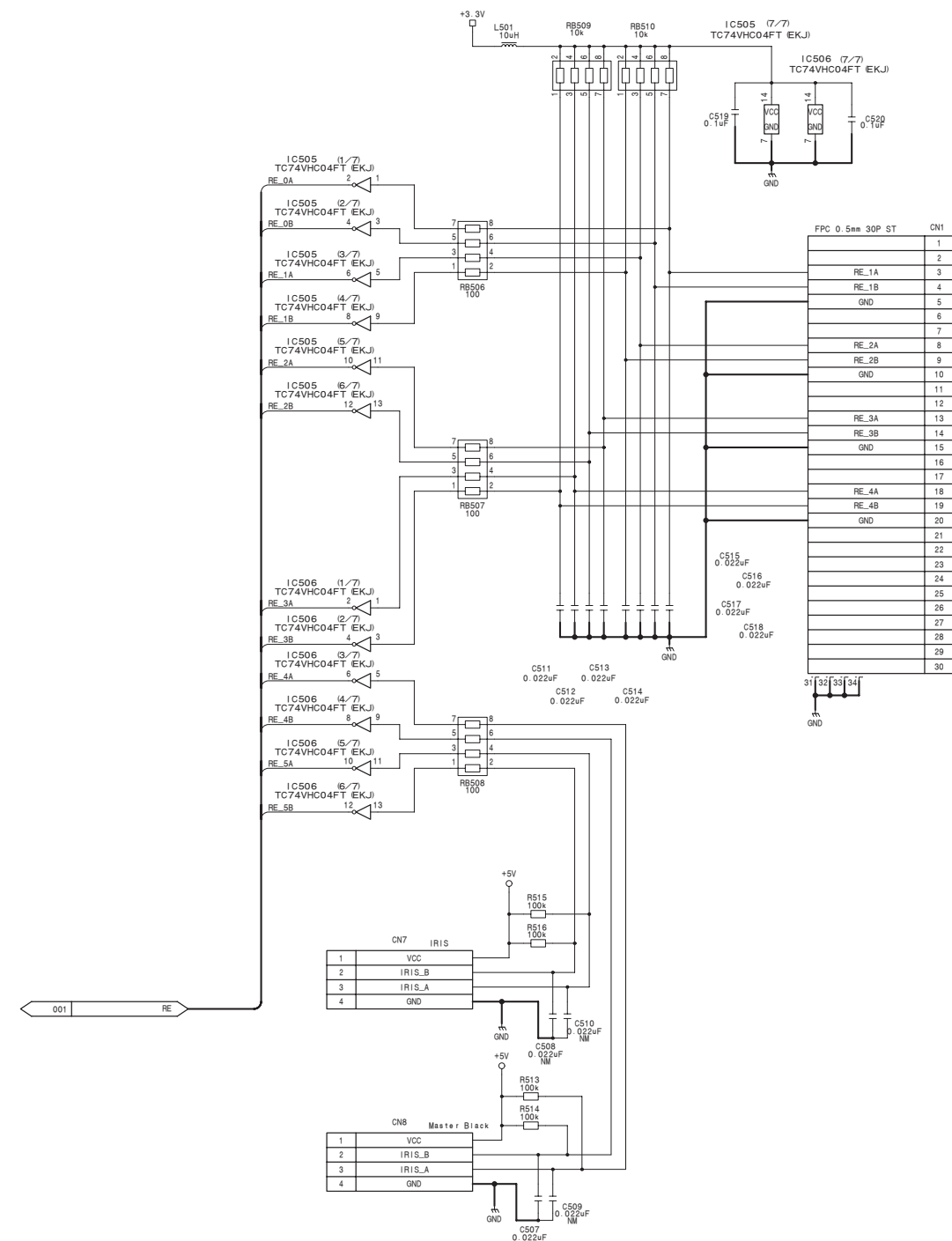
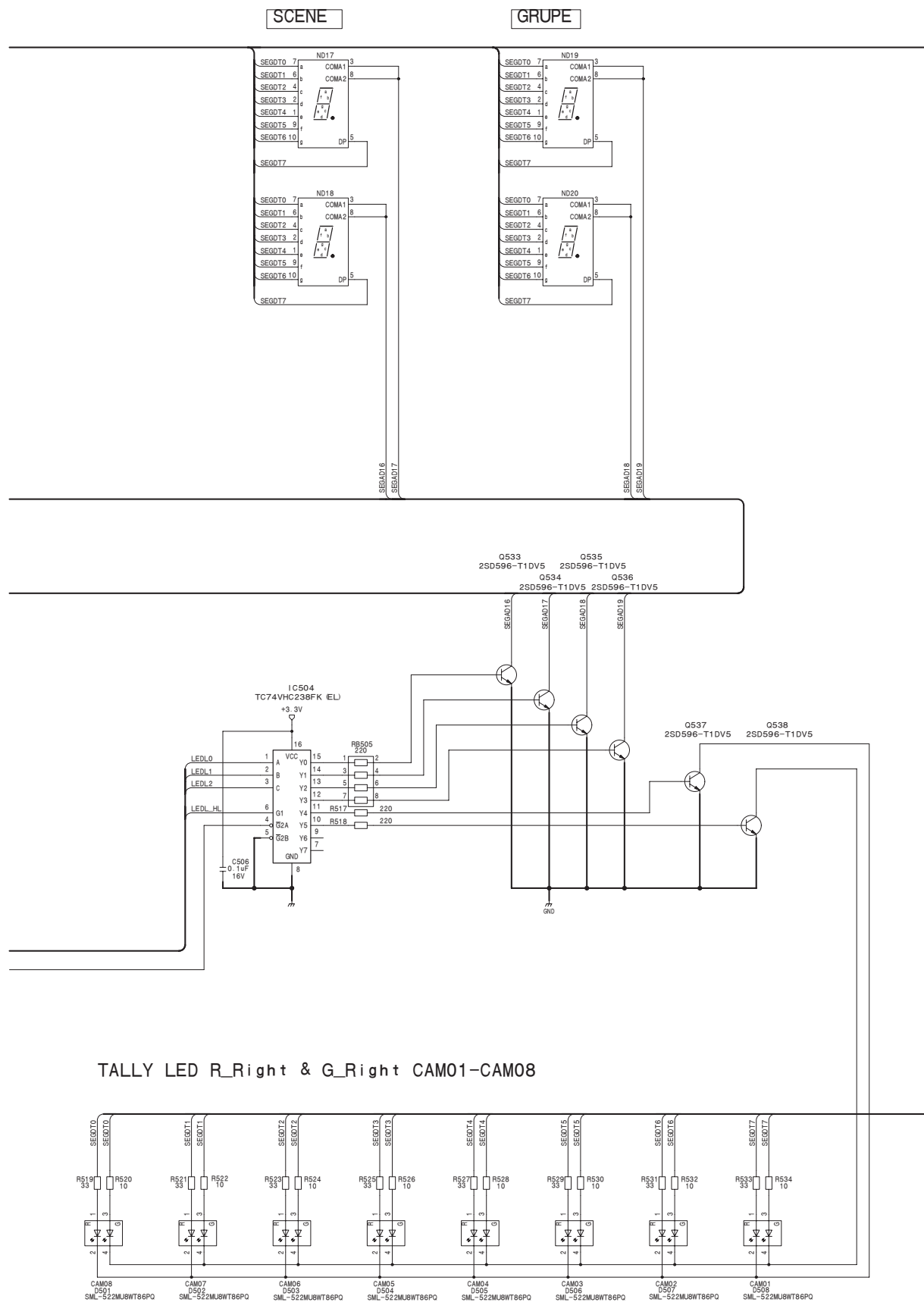


SUFFIX: -11

SUFFIX: -11

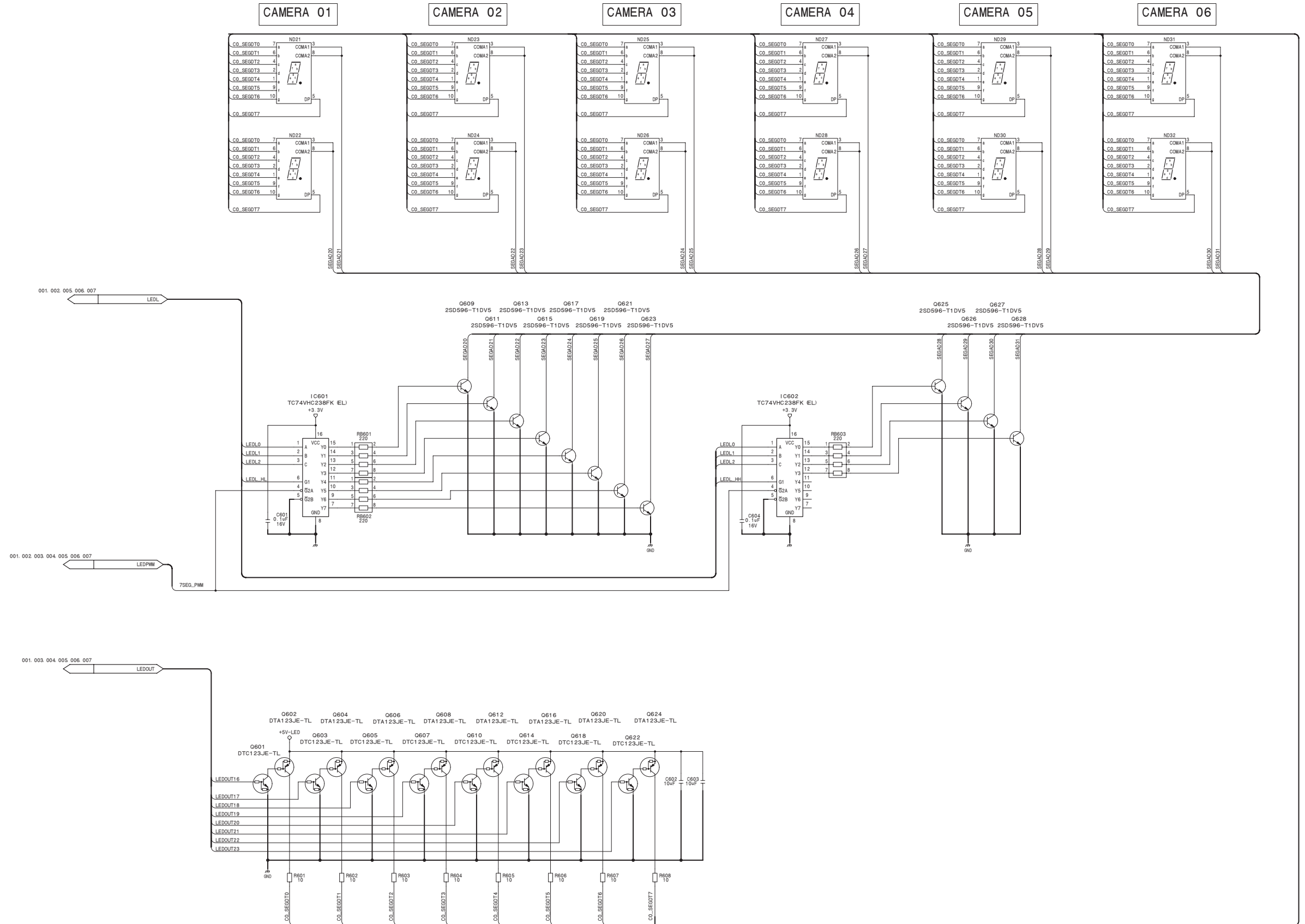


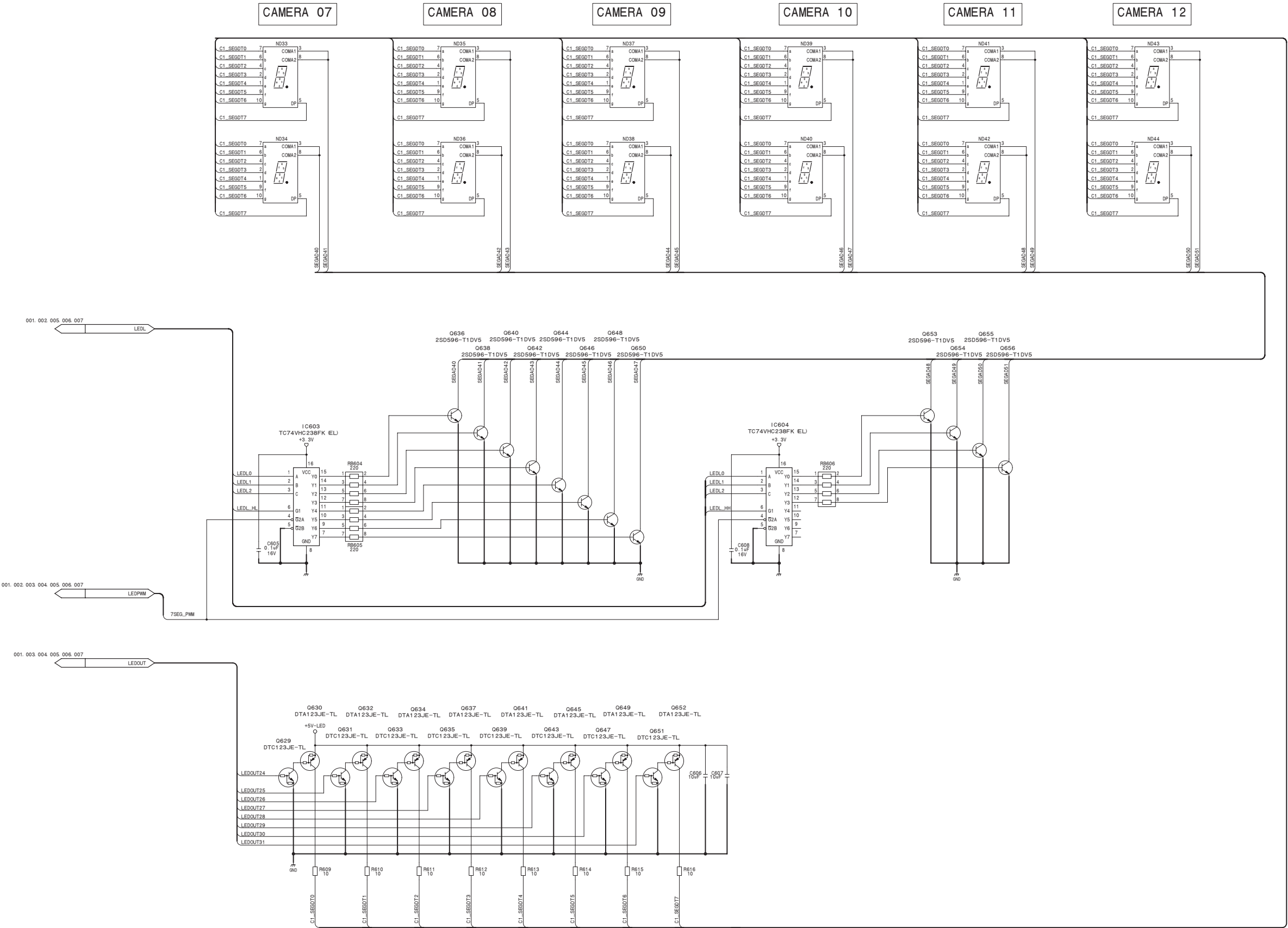




SW-1456 (5/7)

BOARD NO. 1-881-272-11
CAX-164 SW-1456 021_5





SUFFIX: -11

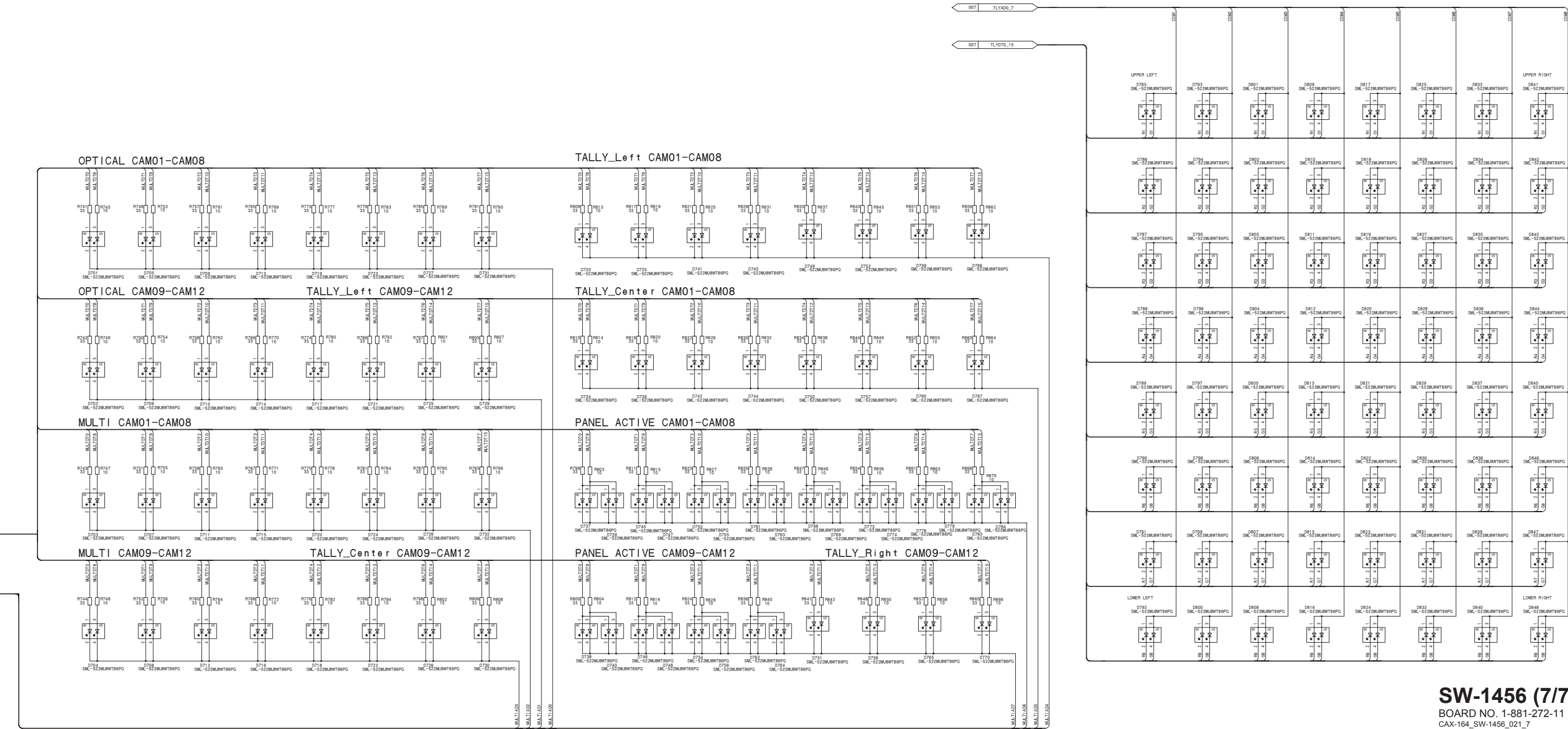
SUFFIX: -11

[illegible]

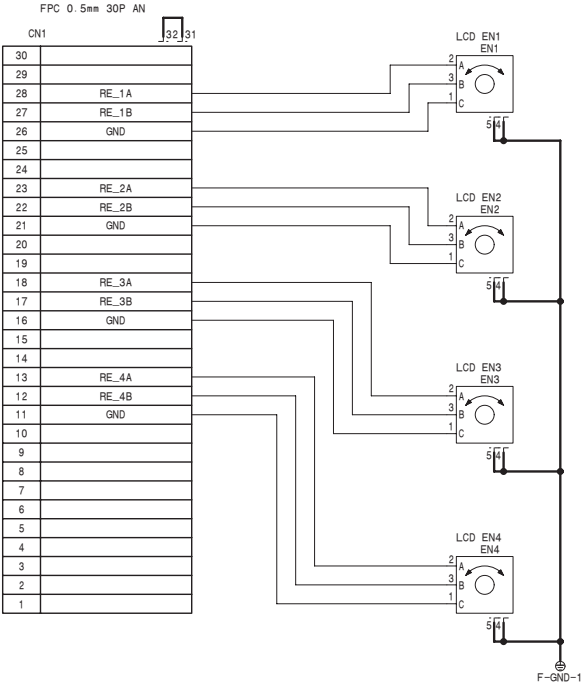
4-50

MSU-1000/1500

H



1



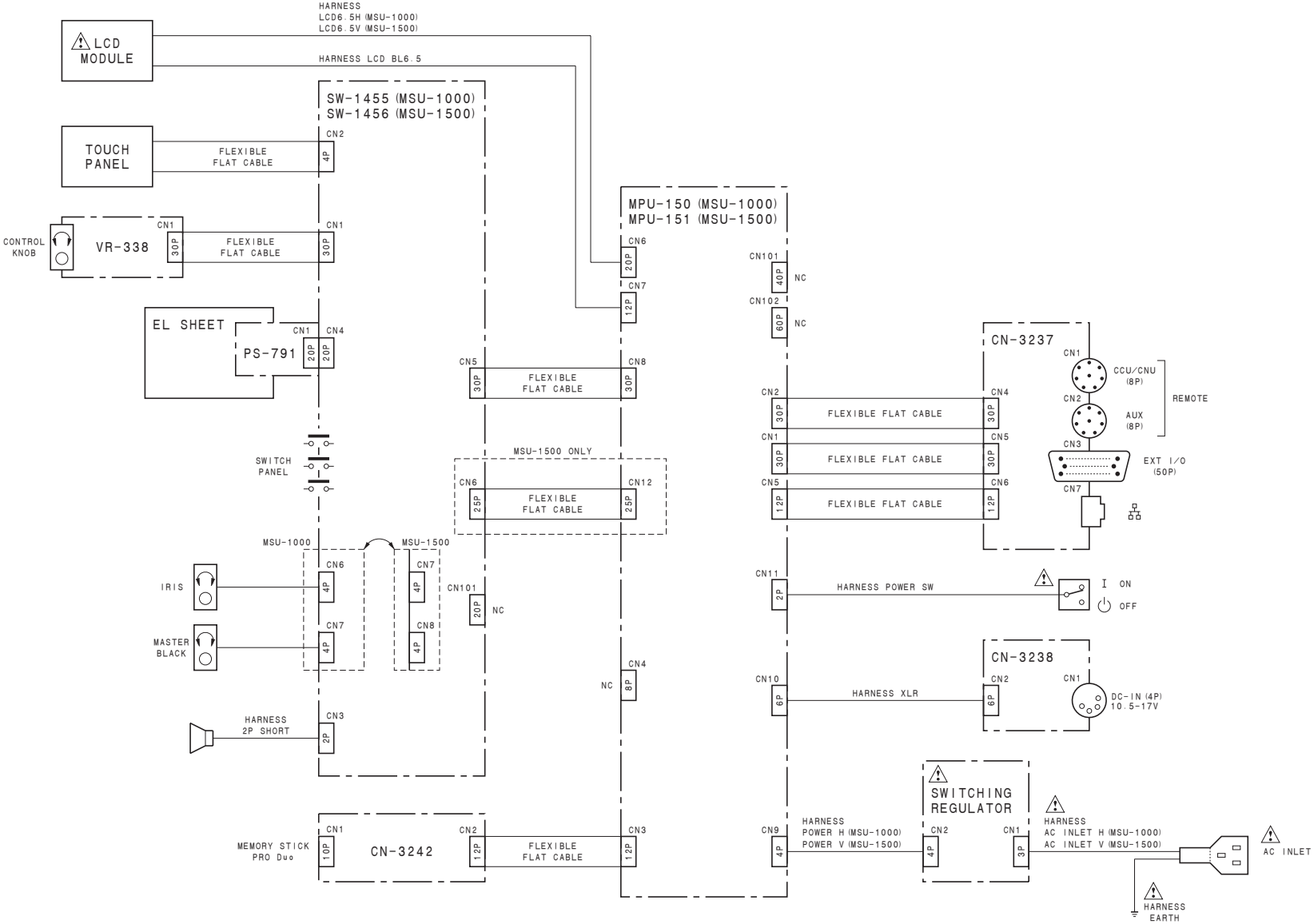
2

3

VR-338
BOARD NO. 1-881-289-11
CAX-164_VR-338_021_1

4

5

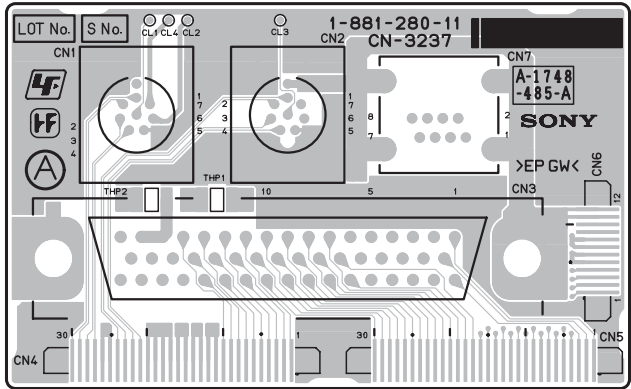


Frame Wiring

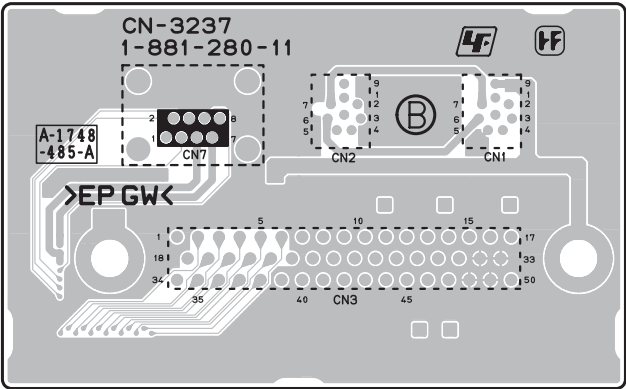
Section 5
Board Layouts

Index

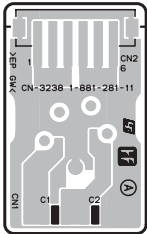
Board name	Page
CN-3237	5-2
CN-3238	5-2
CN-3242	5-2
MPU-150	5-3
MPU-151	5-5
PS-791	5-2
SW-1455	5-7
SW-1456	5-11
VR-338	5-2



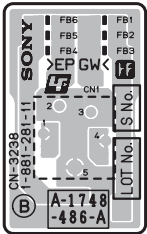
CN-3237 -A SIDE-
SUFFIX: -11



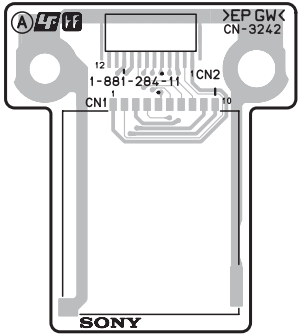
CN-3237 -B SIDE-
SUFFIX: -11



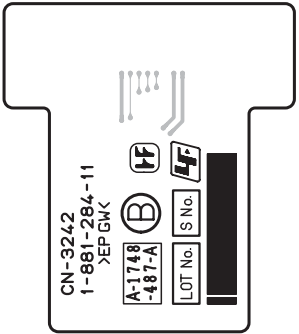
CN-3238 -A SIDE-
SUFFIX: -11



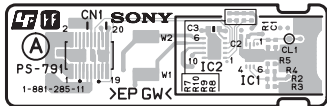
CN-3238 -B SIDE-
SUFFIX: -11



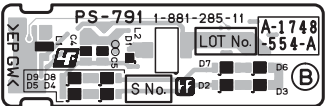
CN-3242 -A SIDE-
SUFFIX: -11



CN-3242 -B SIDE-
SUFFIX: -11



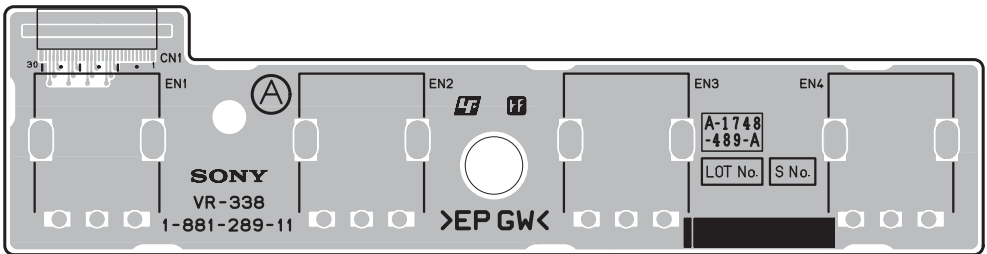
PS-791 -A SIDE-
SUFFIX: -11



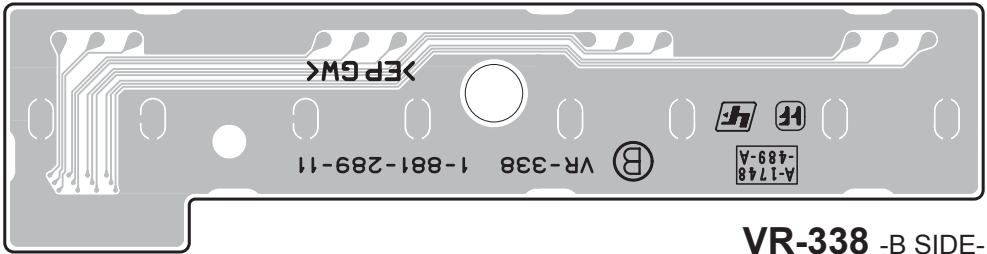
PS-791 -B SIDE-
SUFFIX: -11

PS-791 (1-881-285-11)
*:B SIDE

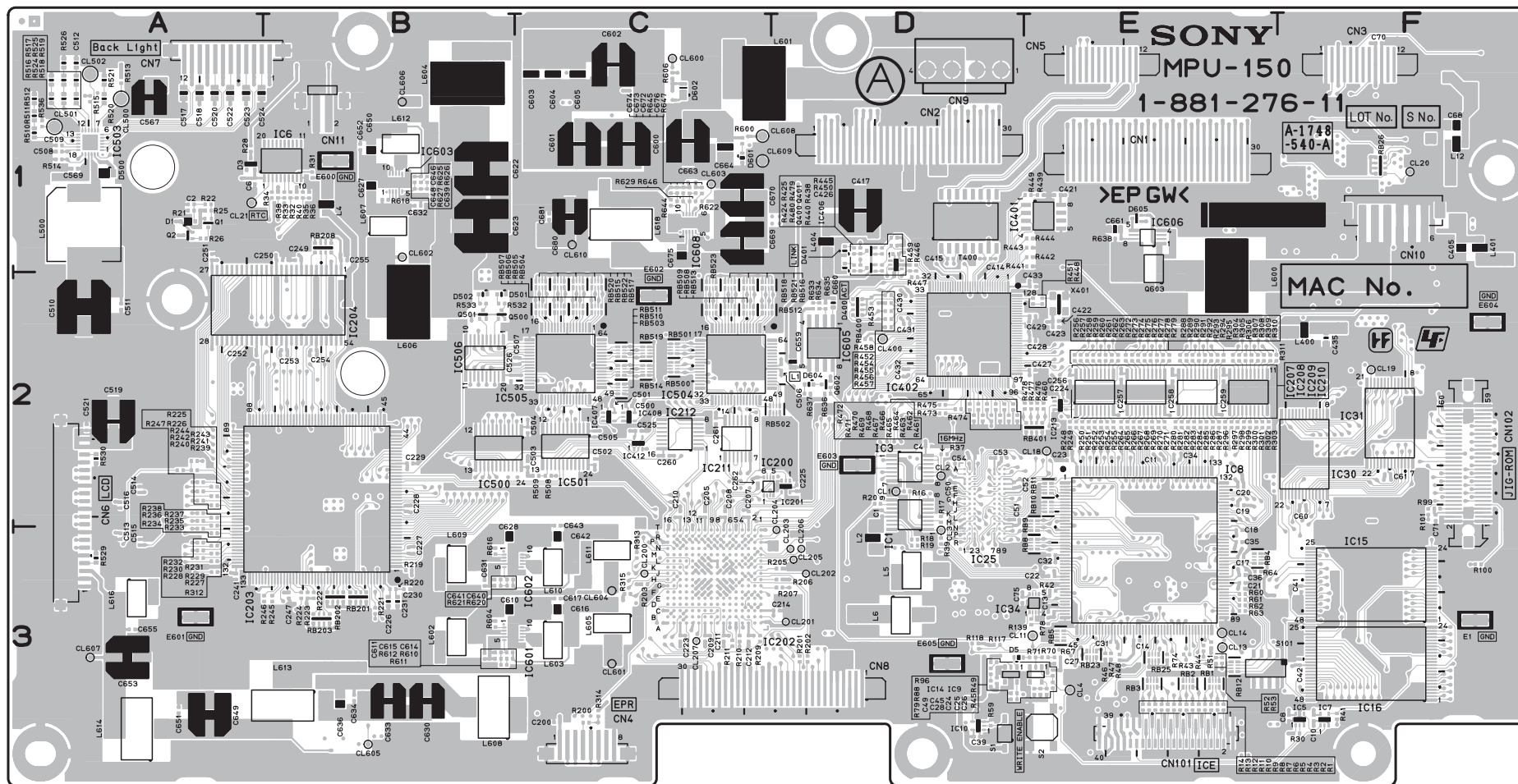
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C2	A1	D2	*A1	IC2	A1	R7	A1
C3	A1	D3	*A1			R8	A1
C4	*A1	D4	*A1	L1	*A1	R9	A1
C5	*A1	D5	*A1	L2	*A1	R10	A1
		D6	*A1				
CL1	A1	D7	*A1	R1	A1	W1	A1
		D8	*A1	R2	A1	W2	A1
CN1	A1	D9	*A1	R3	A1		
				R4	A1		



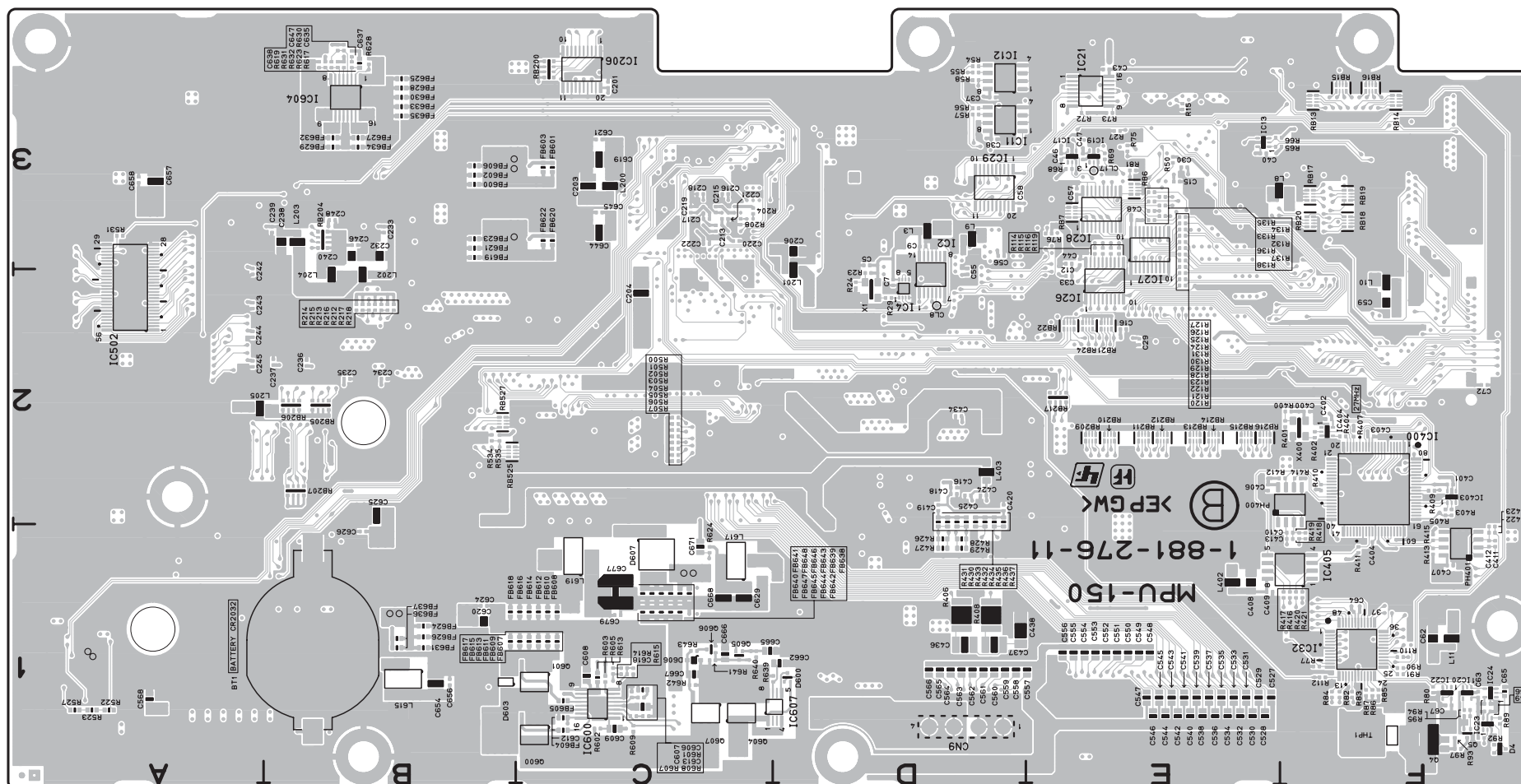
VR-338 -A SIDE-
SUFFIX: -11



VR-338 -B SIDE-
SUFFIX: -11



MPU-150 -A SIDE-
SUFFIX: -11

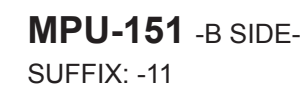
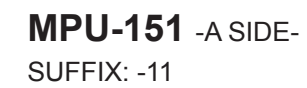


MPU-150 -B SIDE-
SUFFIX: -11

MPU-150 (1-881-276-11)

*:B SIDE

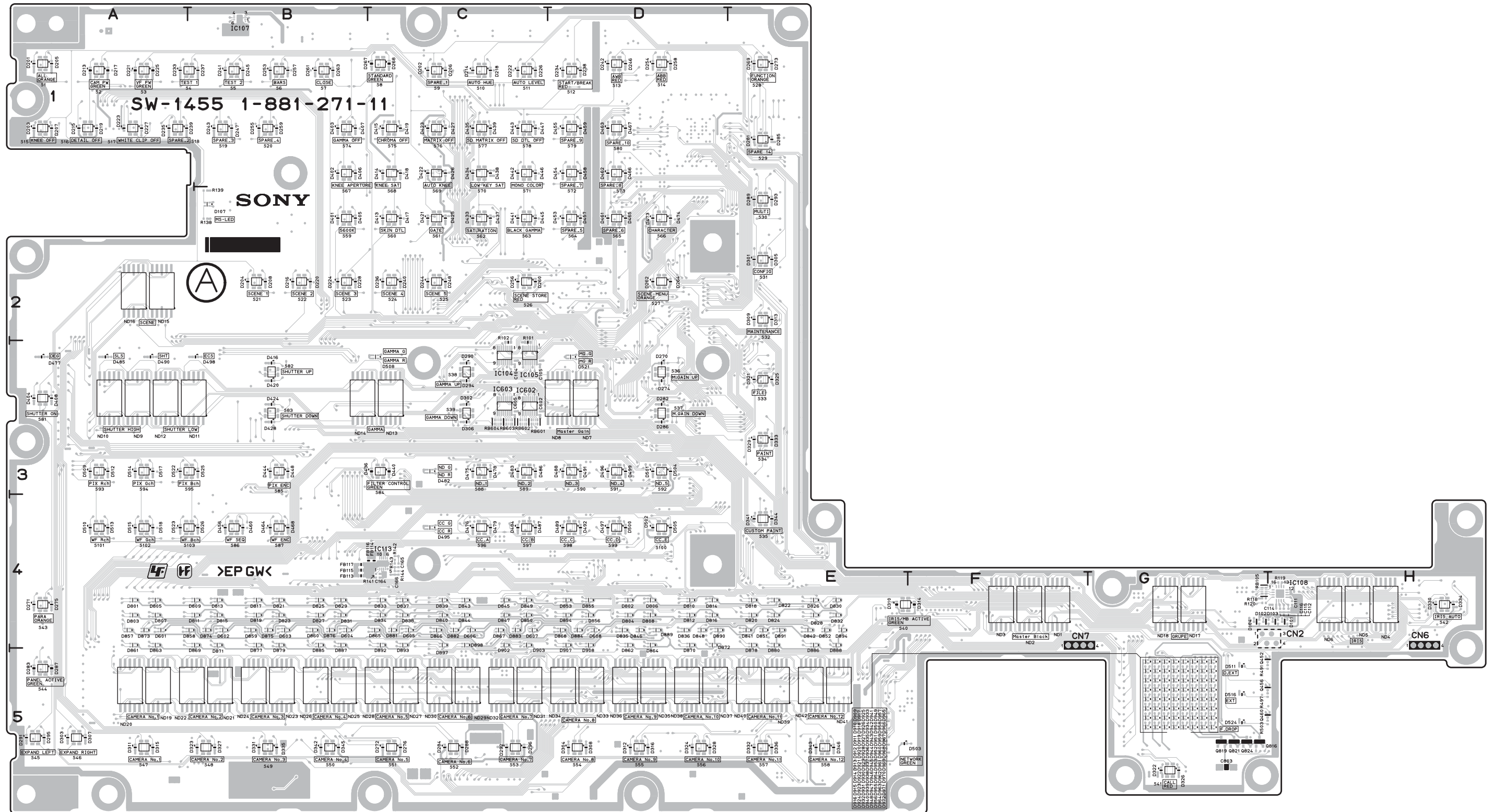
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C1	D2	C220	* C3	C509	A1	C630	B3	CN5	E1	IC9	E3	L606	B2	R60	E3	R222	B3	R313	C3	R507	* C2	RB15	* F3
C2	A1	C221	* C3	C510	A2	C631	B3	CN6	A2	IC10	D3	L607	B1	R61	E3	R223	B3	R314	C3	R508	C2	RB16	* F3
C4	D2	C222	* C3	C511	A2	C632	B1	CN7	A1	IC11	* D3	L608	B3	R62	E3	R224	B3	R315	C3	R509	C2	RB17	* F3
C5	* D3	C223	C3	C512	A1	C633	B3	CN8	D3	IC12	* D3	L609	B3	R63	E3	R225	A2	R400	* F2	R510	A1	RB18	* F3
C6	A1	C224	E2	C513	A3	C634	B3	CN9	D1	IC13	* E3	L610	C3	R64	E3	R226	A2	R401	* F2	R511	A1	RB19	* F3
C7	* D2	C225	D2	C514	A2	C635	* B3	CN10	F1	IC14	D3	L611	C3	R65	* E3	R227	A3	R402	* F2	R512	A1	RB20	* F3
C8	F3	C226	B3	C515	A3	C636	B3	CN11	B1	IC15	F3	L612	B1	R66	* E3	R228	A3	R403	* F2	R513	A1	RB21	* E2
C9	* D3	C227	B3	C516	A2	C637	* B3	CN101	E3	IC16	F3	L613	B3	R67	E3	R229	A3	R404	* F2	R514	A1	RB22	* E2
C10	F3	C228	B2	C517	A1	C638	* B3	CN102	F2	IC17	* E3	L614	A3	R68	* E3	R230	A3	R405	* F2	R515	A1	RB23	E3
C11	E2	C229	B2	C518	A1	C639	B1	D1	A1	IC19	* E3	L615	* B1	R69	* E3	R231	A3	R406	* D1	R516	A1	RB24	* E2
C12	* E3	C230	B3	C519	A2	C640	B3	D3	A1	IC20	* F1	L616	A3	R70	E3	R232	A3	R407	* F2	R517	A1	RB25	E3
C13	E3	C231	B3	C520	A1	C641	B3	D4	* F1	IC21	* E3	L617	* C1	R71	E3	R233	A3	R408	* D1	R518	A1	RB26	F1
C14	E3	C232	* B3	C521	A2	C642	C3	D5	D3	IC22	* F1	L618	C1	R72	* E3	R234	A3	R409	* F2	R519	A1	RB200	* C3
C15	* E3	C233	* B3	C522	A1	C643	C2	D400	D1	IC23	* F1	L619	* C1	R73	* E3	R235	A2	R410	* F2	R520	A1	RB201	B3
C16	* E2	C234	* B2	C523	A1	C644	* C2	D401	D1	IC24	* F1	PH400	* F2	R74	E3	R236	A2	R411	* F1	R521	A1	RB202	B3
C17	E3	C235	* B2	C524	A1	C645	* C3	D500	A1	IC25	D2	PH401	* F1	R75	* E3	R237	A2	R412	* F2	R522	* A1	RB203	B3
C18	E3	C236	* B2	C525	C2	C646	B1	D501	B2	IC26	* E2	Q1	A1	R76	* E3	R238	A2	R413	* F1	R523	* A1	RB204	* B3
C19	E2	C237	* B2	C526	B2	C647	* B3	D502	B2	IC27	* E3	Q2	A1	R77	* F1	R239	A2	R414	* F2	R524	A1	RB205	* B2
C20	E2	C238	* B3	C527	* E1	C648	B1	D600	* D1	IC28	* E3	Q4	* F1	R78	E3	R240	A2	R415	* F1	R525	A1	RB206	* B2
C21	E3	C239	* B3	C528	* E1	C649	A3	D601	C1	IC29	* D3	Q5	* F1	R79	D3	R241	A2	R416	* F1	R526	A1	RB207	* B2
C22	E3	C240	* B3	C529	* E1	C650	B1	D602	C1	IC30	F2	Q400	D1	R80	* F1	R242	A2	R417	* F1	R527	* A1	RB208	B1
C23	E2	C241	A3	C530	* E1	C651	A3	D603	* B1	IC31	F2	Q401	D1	R81	* E3	R243	A2	R418	* F1	R529	A3	RB209	* E2
C24	E3	C242	* A2	C531	* E1	C652	B1	D604	D2	IC32	* F1	Q500	B2	R82	* F1	R244	A2	R419	* F1	R530	A2	RB210	* E2
C25	E3	C243	* A2	C532	* E1	C653	A3	D605	E1	IC34	E3	Q501	B2	R83	* F1	R245	B3	R420	* F1	R531	* A3	RB211	* E2
C26	E3	C244	* A2	C533	* E1	C654	* B1	D606	* C1	IC200	C2	Q600	* C1	R84	* F1	R246	B3	R421	* F1	R532	B2	RB212	* E2
C27	E3	C245	* A2	C534	* E1	C655	A3	D607	* C1	IC201	D2	Q601	* C1	R85	* F1	R247	A2	R422	* F1	R533	B2	RB213	* E2
C28	D3	C246	* B3	C535	* E1	C656	* B1	E1	F3	IC202	C3	Q602	D2	R86	* F1	R248	E2	R423	* F1	R534	* B2	RB214	* E2
C29	* E2	C247	B3	C536	* E1	C657	* A3	B600	B1	IC203	B2	Q603	E1	R87	* F1	R249	E2	R424	D1	R535	* B2	RB215	* E2
C30	* E3	C248	* B3	C537	* E1	C658	* A3	B601	A3	IC204	B2	Q604	* C1	R88	D3	R250	E2	R425	D1	R536	A1	RB216	* E2
C31	E3	C249	B1	C538	* E1	C659	D2	B602	C2	IC206	* C3	Q605	* C1	R89	* F1	R251	E2	R426	* D1	R600	C1	RB217	* E2
C32	E3	C250	B1	C539	* E1	C660	D2	B603	D2	IC207	E2	Q606	* C1	R90	* F1	R252	E2	R427	* D1	R601	* C1	RB400	D2
C33	* E2	C251	A1	C540	* E1	C661	E1	B604	F2	IC208	E2	Q607	* C1	R91	* F1	R253	E2	R428	* D1	R602	* C1	RB401	E2
C34	E2	C252	A2	C541	* E1	C662	* D1	B605	D3	IC209	E2	R1	E3	R92	* F1	R254	E2	R429	* D1	R603	* C1	RB500	C2
C35	E3	C253	B2	C542	* E1	C663	C1	FB600	* B3	IC210	E2	R2	E3	R93	* F1	R255	E2	R430	* D2	R604	B3	RB501	C2
C36	E3	C254	B2	C543	* E1	C664	C1	FB601	* C3	IC211	C2	R3	E3	R94	* F1	R256	E2	R431	* D2	R605	* C1	RB502	D2
C37	* D3	C255	B1	C544	* E1	C665	* C1	FB602	* B3	IC212	C2	R4	E3	R95	* F1	R257	E2	R432	* D2	R606	C1	RB503	C2
C38	* D3	C256	E2	C545	* E1	C666	* C1	FB603	* C3	IC213	E2	R5	E3	R96	D3	R258	E2	R433	* D2	R607	* C1	RB504	C2
C39	D3	C257	E2	C546	* E1	C667	* C1	FB604	* C1	IC400	* F2	R6	E3	R97	* F1	R259	E2	R434	* D2	R608	* C1	RB505	C2
C40	* E3	C258	E2	C547	* E1	C668	* C1	FB605	* C1	IC401	E1	R7	E3	R99	F2	R260	E2	R435	* D2	R609	* C1	RB506	C2
C41	F3	C259	E2	C548	* E1	C669	C1	FB606	* B3	IC402	D2	R8	E3	R100	F3	R261	E2	R436	* D2	R610	B3	RB507	C2
C42	F3	C260	C2	C549	* E1	C670	C1	FB607	* C1	IC403	* F2	R9	E3	R101	F2	R262	E2	R437	* D2	R611	B3	RB508	C2
C43	* E3	C261	C2	C550	* E1	C671	* C1	FB608	* C1	IC404	* F2	R10	E3	R110	* F1	R263	E2	R438	D1	R612	B3	RB509	C2
C44	* E3	C262	C2	C551	* E1	C672	C1	FB609	* C1	IC405	* F1	R11	E3	R112	* F1	R264	E2	R439	E1	R613	* C1	RB510	C2
C45	D3	C400	* F2	C552	* E1	C673	C1	FB610	* C1	IC406	D1	R12	E3	R114	* E3	R265	E2	R440	D1	R614	* C1	RB511	C2
C46	* E3	C401	* F2	C553	* E1	C674	C1	FB611	* C1	IC407	C2	R13	E3	R115	* E3	R266	E2	R441	E1	R615	* C1	RB512	C2
C47	* E3	C402	* F2	C554	* E1	C675	C1	FB612	* C1	IC408	C2	R14	E3	R116	* E3	R267	E2	R442	E1	R616	B3	RB513	C2
C48	* E3	C403	* F2	C555	* E1	C676	C1	FB613	* C1	IC412	C2	R15	* E3	R117	D3	R268	E2	R443	E1	R617	* B3	RB514	C2
C49	D3	C404	* F1	C556	* E1	C677	* C1	FB614	* C1	IC500	B2	R16	D2	R118	D3	R269	E2	R444	E1	R618	B1	RB515	C2
C50	D2	C405	F1	C557	* E1	C679	* C1	FB615	* C1	IC501	C2	R17	D2	R119	* E3	R270	E2	R445	D1	R619	* B3	RB516	C2
C51	D2	C406	* E2	C558	* D1	C680	C1	FB616	* C1	IC502	* A2	R18	D3	R120	* E2	R271	E2	R446	D1	R620	B3	RB517	C2
C52	D2	C407	* F1	C559	* D1	C681	C1	FB617	* B1	IC503	A1	R19	D3	R121	* E2	R272	E2	R447	D2	R621	B3	RB518	C2
C53	D2	C408	* E1	C560	* D1	CL1	D2	FB618	* B1	IC504	C2	R20	D2	R122	* E2	R273	E2	R448	E2	R622	C1	RB519	C2
C54	D2	C409	* E1	C561	* D1	CL2	D2	FB619	* B3	IC505	C2	R21	A1	R123	* E3	R274	E2	R449	E1	R623	* B3	RB520	C2
C55	* D2	C410	* F1	C562	* D1	CL3	D3	FB620	* C3	IC506	B2	R22	A1	R124	* E3	R275	E2	R450	D1	R624	* C1	RB521	C2
C56	* D3	C411	* F1	C563	* D1	CL4	E3	FB621	* B3	IC600	* C1	R23	* D2	R125	* E3	R276	E2	R451	E2	R625	B1	RB522	C2
C57	* E3	C412	* F1	C564	* D1	CL8	* D2	FB622	* C3	IC601	B3	R24	* D2	R126	* E3	R277	E2	R452	D2	R626	B1	RB523	C2
C58	* D3	C413	* F1	C565	* D1	CL11	E3	FB623	* B3	IC602	B3	R25	A1	R127	* E3	R278	E2	R453	D2	R627	B1	RB525	* B2
C59	* F2	C414	D1	C566	* D1	CL13	E3	FB624	* B1	IC603	B1	R26	A1	R128	* E3	R279	E2	R454	D2	R628	* B3	RB527	* B2
C60	F2	C415	D1	C567	A1	CL14	E3	FB625	* B3	IC604	* B3	R27	* E3	R129	* E3	R280	E2	R455	D2	R629	C1	S1	D3
C61	F2	C416	* D2	C568	* A1	CL17	* E3	FB626	* B1	IC605	D2	R28	A1	R130	* E3	R281	E2	R456	D2	R630	* B3	S2	E3
C62	* F1	C417	D1	C569	A1	CL18	E2	FB627	* B3	IC606	E1	R29	* D2	R131	* E3	R282	E2	R457	D2	R631	* B3	S101	E3
C63	* F1	C418	* D2	C600	C1	CL19	F2	FB628	* B3	IC607	* D1	R30	F3	R132	* E3	R283	E2	R458	D2	R632	* B3	T400	D1
C64	* F1	C419	* D2	C601	C1	CL20	F1	FB629	* B3	IC608	C1	R31	B1	R133	* E3	R284	E2	R459	D1	R633	D2	THP1	* F1
C65	* F1	C420	* D2	C602	C1	CL21	A1	FB630	* B3	L2	D3	R32	B1	R134	* E3	R285	E2	R460	E2	R634	D2	X1	* D2
C66	* F1	C421	E1	C603	C1	CL200	C3	FB631	* B1	L3	* D3	R33	B1	R135	* E3	R286	E2	R461	D2	R635	D2	X400	* F2
C67	* F1	C422	E2	C604	C1	CL201	D3	FB632	* B3	L4	B1	R34	B1	R136	* E3	R287	E2	R462	D2	R636	D2	X401	E2
C68	F1	C423	E2	C605	C1	CL202	D3	FB633	* B3	L5	D3	R35	B1	R137	* E3	R288	E2	R463	D2	R637	D2		
C69	* F1	C424	* D2	C606	* C1	CL203	D3	FB634	* B3	L6	D3	R36	B1	R138	* E3	R289	E2	R464	D2	R638	E1		
C70	F1	C425	* D2	C607	* C1	CL204	D3	FB635	* B3	L8													



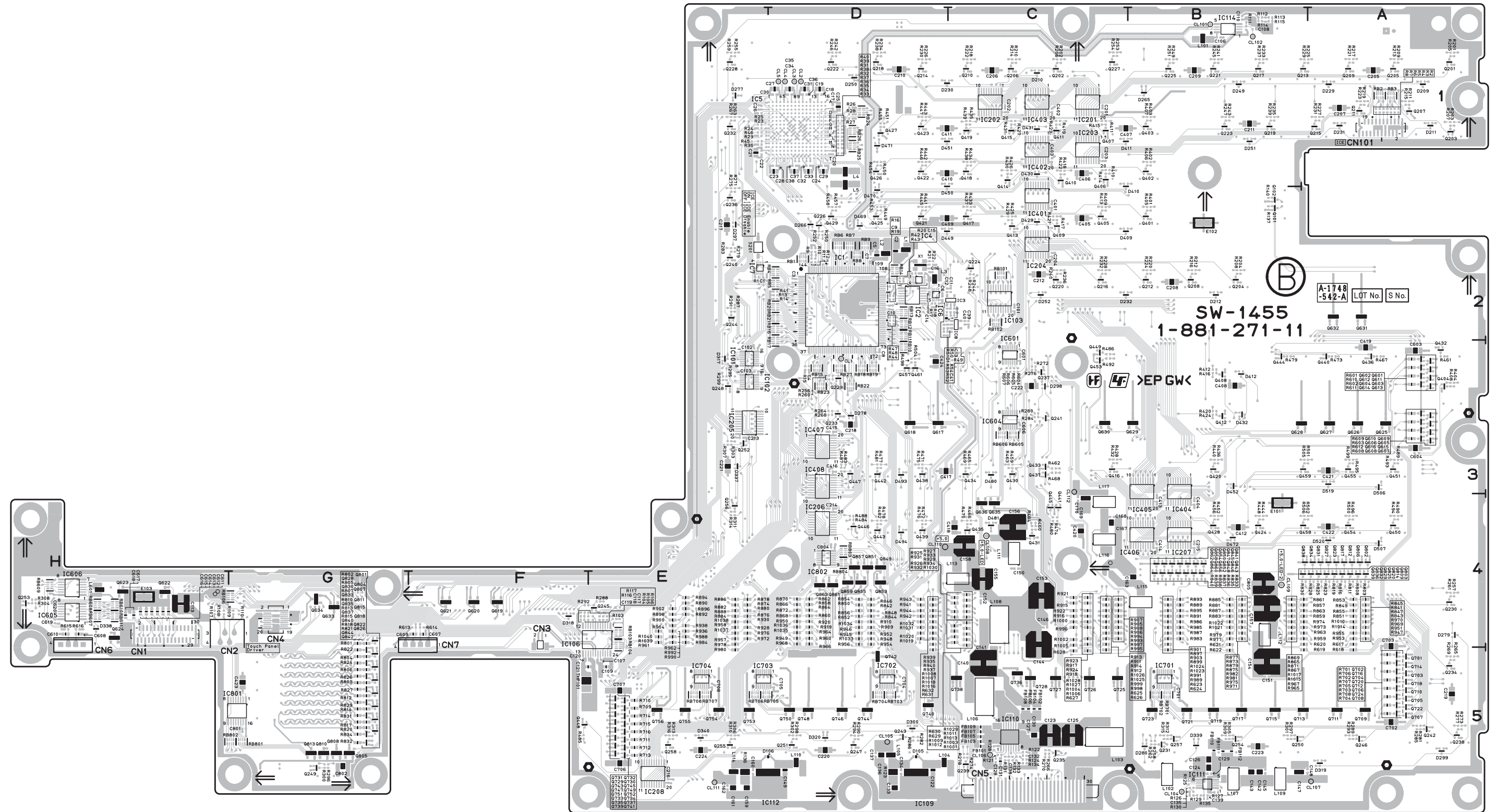
MPU-151 (1-881-277-11)

*:B SIDE

BT1	*G2	C218	*B2	C507	*D1	C628	B3	C720	G3	FB606	*B1	IC32	*G1	L622	*B3	R60	D3	R222	D2	R313	B2	R505	*B1	R657	A2	THP1	G1
		C219	*B2	C508	F2	C629	A1	C721	G3	FB607	*C1	IC34	C3	L623	B3	R61	D3	R223	D2	R314	A1	R506	*B1	R658	A2		
C1	B3	C220	*B2	C509	F2	C630	C1			FB608	*B1	IC200	B2	L624	*B3	R62	D3	R224	D2	R315	B2	R507	*B1	R659	A2	X1	*B3
C2	*F3	C221	*B2	C510	G2	C631	B2	CL1	B2	FB609	*C1	IC201	B2	L625	*A2	R63	D3	R225	E1	R316	B2	R508	*D2	R660	*E1	X400	*E1
C4	C2	C222	*B2	C511	G2	C632	A1	CL2	C2	FB610	*B1	IC202	B2	L626	*A2	R64	D3	R226	E1	R317	B2	R509	*D2	R661	*E1	X401	F3
C5	*B3	C223	B2	C512	G2	C633	D1	CL3	C3	FB611	*C1	IC203	E2	L627	A2	R65	*D3	R227	D1	R318	B2	R510	F1	R662	*E1		
C6	*G3	C224	C2	C513	E1	C634	D1	CL4	C3	FB612	*B1	IC204	E2	L628	A3	R66	*D3	R228	D1	R319	*B2	R511	F1	R663	*E1		
C7	*B3	C225	B2	C514	E1	C635	*C1	CL8	C3	FB613	*C1	IC206	*A1	L629	B3	R67	D3	R229	D1	R400	*E1	R512	F1	R664	G3		
C8	D3	C226	D2	C515	E1	C636	D1	CL11	C3	FB614	*B1	IC207	C2	L630	*G3	R68	*C3	R230	D1	R401	*E1	R513	F2	R665	G3		
C9	*C3	C227	D2	C516	E1	C637	*C1	CL13	D3	FB615	*C1	IC208	D2	L631	G3	R69	*C3	R231	E1	R402	*E1	R514	F2	R666	G3		
C10	D3	C228	E2	C517	F2	C638	*C1	CL14	D3	FB616	*B1	IC209	D2	L632	*G3	R70	C3	R232	E1	R403	*F1	R515	F2	R667	G3		
C11	D2	C229	E2	C518	F2	C639	*G3	CL17	C3	FB617	*B1	IC210	D2			R71	C3	R233	E1	R404	*E1	R516	F1				
C12	*C3	C230	D2	C519	E1	C640	B3	CL18	C2	FB618	*B1	IC211	C2			R72	*C3	R234	E1	R405	*F1	R517	F1	RB1	*E3		
C13	C3	C231	D2	C520	F2	C641	B2	CL19	E2	FB619	*B2	IC212	B2			R73	*C3	R235	E1	R406	*F3	R518	F2	RB2	*E3		
C14	C3	C232	*E2	C521	E1	C642	B3	CL20	G1	FB620	*B3	IC213	C2			R74	D3	R236	E1	R407	*E1	R519	F2	RB3	*D3		
C15	*D3	C233	*D2	C522	F2	C643	B3	CL22	G3	FB621	*B2	IC302	*E1	Q1	*F3	R75	*C3	R237	E1	R408	*F3	R520	F2	RB4	D3		
C16	*C2	C234	*E2	C523	F2	C644	B3	CL200	B2	FB622	*B3	IC304	*F1	Q2	*F3	R76	*C3	R238	E1	R409	*F1	R521	F2	RB5	C3		
C17	D3	C235	*E2	C524	F2	C645	B3	CL201	B2	FB623	*B2	IC309	*F3	Q4	G1	R77	*F1	R239	E1	R410	*E1	R522	*F2	RB6	*C3		
C18	D3	C236	*E2	C525	*C2	C646	A1	CL202	B2	FB624	*A1	IC400	*E1	Q5	*G1	R78	C3	R240	E1	R411	*E1	R523	*F2	RB7	*C3		
C19	D3	C237	*E2	C526	*D1	C647	*C1	CL203	B2	FB625	*C1	IC401	F3	Q400	*F3	R79	C3	R241	E1	R412	*E1	R524	F2	RB8	C3		
C20	D2	C238	*D2	C527	*F1	C648	A1	CL204	B2	FB626	*A1	IC402	F3	Q401	*F3	R80	*G1	R242	E1	R413	*F1	R525	F2	RB9	C3		
C21	D3	C239	*D1	C528	*F2	C649	D1	CL205	B2	FB627	*D1	IC403	*F1	Q500	D1	R81	*C3	R243	E1	R414	*E1	R526	G2	RB10	C3		
C22	C3	C240	*E2	C529	*F2	C650	A2	CL206	B2	FB628	*C1	IC407	*C2	Q501	D1	R82	*G1	R244	E1	R415	*F1	R527	*F2	RB11	C2		
C23	C2	C241	D1	C530	*F2	C651	D1	CL207	B2	FB629	*D1	IC408	*C2	Q600	*C1	R83	*G1	R245	D2	R416	*F1	R529	D1	RB12	D3		
C24	C3	C242	*E1	C531	*F2	C652	A2	CL400	F2	FB630	*C1	IC412	*C2	Q601	*C1	R84	*G1	R246	D1	R417	*F1	R530	E1	RB13	*E3		
C25	C3	C243	*E1	C532	*F2	C653	E1	CL500	F2	FB631	*A1	IC500	*D2	Q602	C2	R85	*G1	R247	E1	R418	*E1	R531	*D1	RB14	*E3		
C26	C3	C244	*E1	C533	*F2	C654	*A2	CL501	F1	FB632	*D1	IC501	*D2	Q603	*G2	R86	*G1	R248	C2	R419	*E1	R532	D1	RB15	E3		
C27	D3	C245	*E1	C534	*F2	C655	E1	CL502	F2	FB633	*C1	IC502	*E1	Q604	F1	R87	*G1	R249	C2	R420	*F1	R533	D1	RB16	E3		
C28	D3	C246	*E2	C535	*F2	C656	*A2	CL600	C1	FB634	*D1	IC503	F2	Q605	*E1	R88	C3	R250	C2	R421	*F1	R534	D1	RB17	E3		
C29	*D2	C247	D2	C536	*F2	C657	E1	CL601	B1	FB635	*C1	IC504	C2	Q606	*E1	R89	*G1	R251	C2	R422	*F1	R535	D1	RB18	D3		
C30	*D3	C248	*D2	C537	*F1	C658	F1	CL602	A1	FB636	*C1	IC505	*D1	Q607	*E1	R90	*G1	R252	C2	R423	*F1	R536	F2	RB19	*D3		
C31	C3	C249	F2	C538	*F1	C659	C2	CL603	G3	FB637	*B3	IC506	*D1			R91	*G1	R253	C2	R424	*F3	R537	*C2	RB20	*D3		
C32	C3	C250	F2	C539	*F1	C660	C1	CL604	B3	FB638	*B3	IC600	*C1	R1	E3	R92	*G1	R254	C2	R425	*F3	R538	*C2	RB21	*C2		
C33	*C3	C251	F1	C540	*F1	C661	*G2	CL605	C1	FB639	*B3	IC601	B1	R2	E3	R93	*G1	R255	C2	R426	*F3	R539	*C2	RB22	*C2		
C34	D2	C252	E2	C541	*F1	C662	E1	CL606	A2	FB640	*B3	IC602	B3	R3	E3	R94	*G1	R256	C2	R427	*F3	R600	E1	RB23	C3		
C35	D3	C253	E2	C542	*F1	C663	*A3	CL607	E1	FB641	*B3	IC603	A1	R4	E3	R95	*G1	R257	C2	R428	*F3	R601	*C1	RB24	*C2		
C36	D3	C254	E2	C543	*F1	C664	C3	CL608	B2	FB642	*B3	IC604	*C1	R5	E3	R96	D3	R258	C2	R429	*F3	R602	*C1	RB25	D3		
C37	*C3	C255	F2	C544	*F1	C665	*B2	CL609	C3	FB643	*B3	IC605	C1	R6	E3	R97	*G1	R259	C2	R430	*F3	R603	*C1	RB26	*G1		
C38	*C3	C256	C2	C545	*F1	C666	B3	CL610	E1	FB644	*B3	IC606	*G2	R7	D3	R99	E3	R260	C2	R431	*F3	R604	B1	RB200	*A1		
C39	D3	C257	C2	C546	*F1	C667	*B2	CL611	E1	FB645	*C3	IC607	F1	R8	D3	R100	E3	R261	C2	R432	*F3	R605	*C1	RB201	D2		
C40	*D3	C258	D2	C547	*F1	C668	C3	CL612	G3	FB646	*B3	IC608	*A3	R9	D3	R101	E3	R262	C2	R433	*F3	R606	C1	RB202	D2		
C41	D3	C259	D2	C548	*F1	C669	*B2			FB647	*B3	IC609	*C3	R10	D3	R110	*G1	R263	C2	R434	*F3	R607	*C1	RB203	D2		
C42	*E3	C260	B2	C549	*F1	C670	*C3	CN1	F1	FB648	*B2	IC610	*B2	R11	D3	R112	*G1	R264	C2	R435	*F3	R608	*C1	RB204	*D2		
C43	*C3	C261	C2	C550	*F1	C671	B3	CN2	F1	FB649	*B3	IC611	*A2	R12	D3	R114	*C3	R265	C2	R436	*F3	R609	C1	RB205	*E2		
C44	*C3	C262	B2	C551	*F1	C672	*C3	CN3	G1	FB650	*A2	IC612	B2	R13	D3	R115	*C3	R266	C2	R437	*F3	R610	B1	RB206	*E2		
C45	D3	C400	*E1	C552	*F1	C673	*C3	CN4	A1	FB651	*B3	IC613	G3	R14	D3	R116	*C3	R267	D2	R438	*F3	R611	B1	RB207	*F2		
C46	*C3	C401	*F1	C553	*F1	C674	*A3	CN5	G1	FB652	*A2			R15	*D3	R117	C3	R268	D2	R439	F3	R612	B1	RB208	F2		
C47	*C3	C402	*E1	C554	*F1	C675	*A3	CN6	E1	FB653	*A1	L2	B3	R16	C2	R118	C3	R269	D2	R440	*F3	R613	*C1	RB209	*C2		
C48	*C3	C403	*E1	C555	*F1	C676	*B2	CN7	F2	FB654	*A2	L3	*C3	R17	C3	R119	*C3	R270	D2	R441	F3	R614	*C1	RB210	*C2		
C49	C3	C404	*E1	C556	*F1	C677	*A3	CN8	A2	FB655	*G3	L4	*F3	R18	C3	R120	*D3	R271	D2	R442	F3	R615	*C1	RB211	*D2		
C50	C2	C405	*F1	C557	F1	C678	*A3	CN9	F1	FB656	*G3	L5	C3	R19	C3	R121	*D3	R272	C2	R443	F3	R616	B2	RB212	*D2		
C51	C3	C406	*F1	C558	F1	C679	*C3	CN10	G2	FB657	*G3	L6	B3	R20	B3	R122	*D3	R273	C2	R444	F3	R617	*C1	RB213	*D2		
C52	C2	C407	*F1	C559	*F2	C680	*B2	CN11	G3	FB658	*G3	L8	*D3	R21	*F3	R123	*D3	R274	D2	R445	*F3	R618	A1	RB214	*D2		
C53	C2	C408	*G1	C560	*F2	C681	B3	CN12	A3	FB659	*G3	L9	*C3	R22	*F3	R124	*D3	R275	D2	R446	*F3	R619	*C1	RB215	*D2		
C54	C2	C409	*F1	C561	*F2	C682	B3	CN101	D3	FB660	*G3	L10	*E3	R23	*B3	R125	*D3	R276	D2	R447	*F3	R620	B3	RB216	*D2		
C55	*C3	C410	*E1	C562	*F2	C683	*B3	CN102	E3	FB661	*G3	L11	*G1	R24	*B3	R126	*D3	R277	D2	R448	F3	R621	B2	RB217	*C2		
C56	*C3	C411	*F1	C563	*F2	C684	*B3			FB662	*G3	L12	G1	R25	*F3	R127	*D3	R278	D2	R449	F3	R622	G3	RB400	*F3		
C57	*C3	C412	*F1	C564	*F2	C685	A3	D1	*F3	FB663	*G3	L200	*B2	R26	*F3	R128	*D3	R279	D2	R450	*F3	R623	*C1	RB401	*E3		
C58	*C3	C413	*E1	C565	*F2	C686	*B3	D3	*G3	FB664	*G3	L201	*B2	R27	*D3	R129	*D3	R280	D2	R451	F3	R624	G3	RB500	B2		
C59	*E3	C414	F3	C566	*F2	C687	A3	D4	*G1	FB665	*G3	L202	*E2	R28	*G3	R130	*D3	R281	D2	R452	F3	R625	A1	RB501	B1		
C60	E3	C415	F3	C567	G2	C688	*B3	D5	C3			L203	*D2	R29	*B2	R131	*D3	R282	D2	R453	*F3	R626	A1	RB502	C2		
C61	E3	C416	*F3	C568	*F2	C689	*B3	D400	F3	IC1																	



SW-1455 -A SIDE-SUFFIX: -11

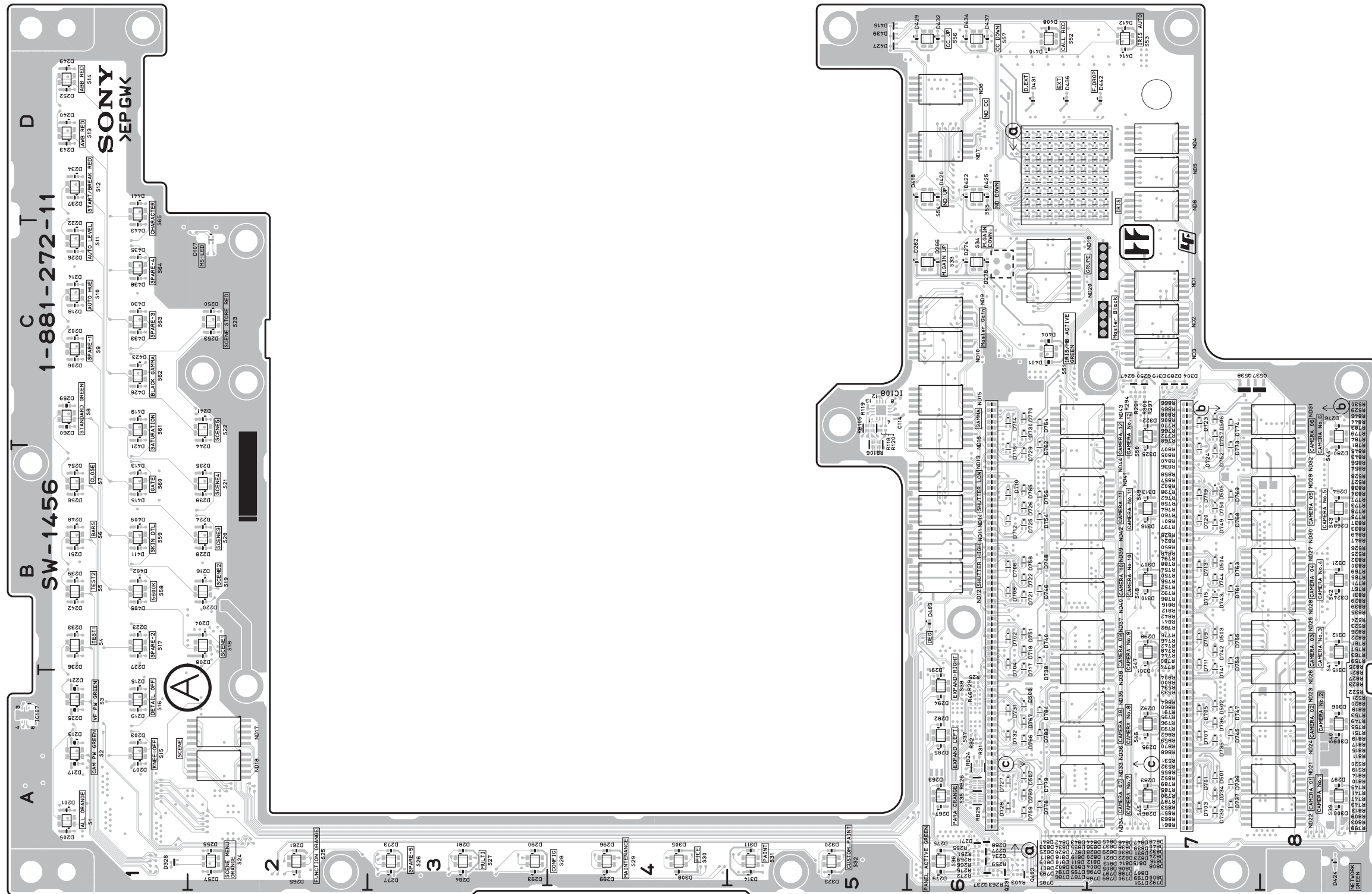
SW-1455 -B SIDE-
SUFFIX: -11

SW-1455 (1-881-271-11)

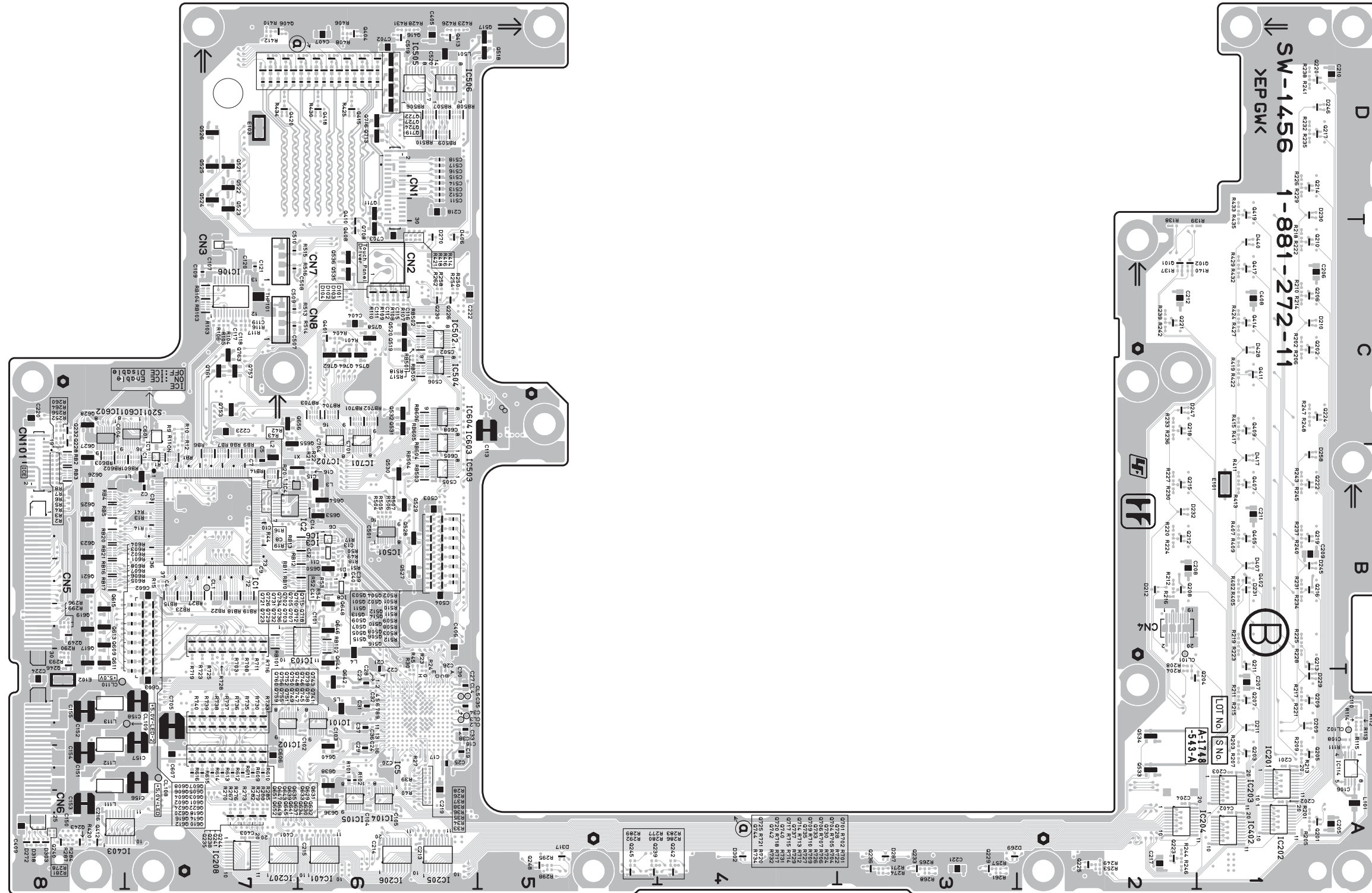
*:B SIDE

C1	*E2	C151	*B5	C704	*D5	D247	B1	D338	*H4	D483	C3	D840	C4	D939	G5	IC405	*B3	Q206	*C1	Q439	*D4	Q733	*E5	R3	*A1	R140	*B2	R287	*E2	R462	*C3	R715	*E5
C2	*D2	C152	*C4	C705	*D5	D248	C2	D339	*B5	D484	C4	D841	E4	D940	G5	IC406	*B4	Q207	*A1	Q440	*A3	Q734	*E5	R4	*A1	R141	*C4	R288	*E4	R463	*C3	R716	*E5
C3	*D2	C153	*C4	C706	*E5	D249	*B1	D340	*E5	D485	A3	D842	E4	D941	G5	IC407	*D3	Q208	*B2	Q441	*C4	Q735	*E5	R5	*A1	R142	C4	R289	*A5	R464	*C4	R801	*G4
C4	*D3	C154	*B5	C707	*E5	D250	*D1	D341	E4	D486	C3	D843	C4	D942	G5	IC408	*D3	Q209	*A1	Q442	*D3	Q736	*C5	R6	*A1	R143	C4	R290	*D5	R465	*C3	R802	*G4
C5	*D2	C155	*C4	C708	*E5	D251	*B1	D342	B5	D487	C4	D844	C4	D943	G5	IC601	*C3	Q210	*C1	Q443	*D4	Q737	*E5	R7	*A1	R144	C4	R291	*E2	R466	*C4	R803	*A4
C6	*D2	C156	*C4	C801	*G5	D252	*C2	D343	E5	D488	D3	D845	C4	D944	G5	IC602	C3	Q211	*A1	Q444	*B3	Q738	*C5	R8	*A1	R201	*A1	R292	*F4	R467	*A3	R804	*G5
C7	*D2	C157	*B4	C802	*G5	D253	B1	D344	E4	D489	D4	D846	D4	D945	G5	IC603	C3	Q212	*B2	Q445	*C4	Q739	*E5	R9	*D2	R202	*C1	R293	*A5	R468	*C3	R805	*G5
C8	*D3	C158	*C4	C803	G5	D254	D1	D345	B5	D490	A3	D847	C4	D946	G5	IC604	*C3	Q213	*B1	Q446	*D4	Q740	*D5	R10	*D2	R203	*A1	R294	*D5	R469	*C3	R806	*G5
C9	*D2	C159	*E5	C804	*D4	D255	B1	D346	E5	D491	D3	D848	D4	D947	G5	IC605	*H4	Q214	*D1	Q447	*D3	Q741	*E5	R11	*D2	R204	*B2	R295	*E3	R470	*C4	R807	*G5
C10	*D2	C160	*E5	C805	*B4	D256	C2	D401	B2	D492	D4	D849	C4	D948	G5	IC606	*H4	Q215	*A1	Q448	*F5	Q742	*D5	R12	*D2	R205	*A1	R296	*G5	R471	*D3	R808	*A4
C11	*C2	C161	*E5			D257	B1	D402	B1	D493	*D3	D850	C4	D949	G5	IC701	*B5	Q216	*C2	Q449	*C3	Q743	*E5	R13	*D2	R206	*C1	R297	*B5	R472	*D4	R809	*G5
C12	*D2	C162	*E5	CL1	*D3	D258	D1	D403	B1	D494	*D4	D851	E4	D950	G5	IC702	*D5	Q217	*B1	Q450	*A4	Q744	*D5	R14	*D2	R207	*A1	R298	*D5	R473	*A3	R810	*G5
C13	*C2	C163	*B4	CL2	*D1	D259	B1	D404	A3	D495	C4	D852	E4	D951	G5	IC703	*E5	Q218	*D1	Q451	*A3	Q745	*E5	R15	*D3	R208	*B2	R299	*E3	R474	*C4	R811	*A4
C14	*D2	C164	C4	CL3	*D1	D260	C2	D405	B2	D496	D3	D853	D4	D952	G5	IC704	*E5	Q219	*B1	Q452	G5	Q746	*D5	R16	*D2	R209	*A1	R300	*G5	R475	*D3	R812	*G5
C15	*D2	C165	C4	CL4	*D1	D261	B1	D406	B1	D497	D4	D854	D4	D953	G5	IC801	*G5	Q220	*C2	Q453	*C3	Q747	*E5	R17	*D2	R210	*C1	R301	*B5	R476	*D4	R813	*G5
C16	*D2	C166	C4	CL5	*D1	D262	D2	D407	B1	D498	B3	D855	D4	D954	G5	IC802	*D4	Q221	*B1	Q454	*A4	Q748	*D5	R18	*D2	R211	*A1	R302	*D5	R477	*D3	R814	*G5
C17	*D1	C167	*C4	CL101	*B1	D263	B1	D408	A3	D499	D3	D856	D4	D955	G5			Q222	*D1	Q455	*A3	Q749	*E5	R19	*D2	R212	*B2	R303	*E3	R478	*D4	R815	*G5
C18	*D1	C168	*C4	CL102	*B1	D264	D2	D409	*C2	D500	D4	D857	A4	D956	G5	L1	*D2	Q223	*B1	Q456	G5	Q750	*D5	R20	*D2	R213	*A1	R304	*H4	R479	*B3	R816	*A4
C19	*D1	C169	*C4	CL104	*B5	D265	*B1	D410	*C2	D501	D3	D858	B4	D957	G5	L2	*D2	Q224	*C2	Q457	*D3	Q751	*E5	R21	*D2	R214	*C1	R305	*B5	R480	*C4	R817	*G5
C20	*D1	C170	*C4	CL105	*D5	D266	*D2	D411	*C1	D502	D4	D859	B4	D958	G5	L3	*D2	Q225	*B1	Q458	*B4	Q752	*E5	R22	*D2	R215	*A1	R306	*E5	R481	*D3	R818	*G5
C21	*E1	C201	*C1	CL106	*C5	D267	C1	D412	*B3	D503	E5	D860	B4	D959	G5	L4	*D1	Q226	*D2	Q459	*B3	Q753	*E5	R23	*E1	R216	*B2	R307	*E3	R482	*D4	R819	*A4
C22	*E1	C202	*C1	CL107	*A5	D268	C1	D413	C2	D504	D3	D861	A4	D960	G5	L5	*D1	Q227	*C1	Q460	G5	Q754	*E5	R24	*E1	R217	*A1	R308	*H4	R483	*D3	R820	*G5
C23	*D1	C203	*C1	CL108	*C4	D269	E1	D414	C1	D505	D4	D862	D4	D961	G5	L101	*B1	Q228	*E1	Q461	*D3	Q755	*E5	R25	*E1	R218	*C1	R309	*B5	R484	*D4	R821	*G5
C24	*D1	C204	*C2	CL109	*B4	D270	D3	D415	C1	D506	*A3	D863	A4	D962	G5	L102	*B5	Q229	*D3	Q601	*A3	Q756	*E5	R26	*D1	R219	*A1	R310	*E5	R485	*F5	R822	*G5
C25	*D1	C205	*A1	CL110	*D4	D271	A4	D416	B3	D507	*A4	D864	D4	D963	G5	L103	*C5	Q230	*A4	Q602	*A3	Q801	*G4	R27	*D1	R220	*B2	R311	*E4	R486	*C3	R823	*A4
C26	*E1	C206	*C1	CL111	*E5	D272	C5	D417	C2	D508	C3	D865	C4	D964	G5	L104	*D5	Q231	*B5	Q603	*A3	Q802	*A4	R28	*D1	R221	*A1	R312	*B5	R487	*D3	R824	*G5
C27	*D1	C207	*A1	CL112	*C3	D273	E1	D418	C1	D509	A3	D866	C4	D965	G5	L105	*D5	Q232	*E1	Q604	*A3	Q803	*A4	R29	*E1	R222	*C1	R313	*E5	R488	*D4	R825	*A4
C28	*D1	C208	*B2			D274	D3	D419	C1	D510	A4	D867	C4	D966	G5	L106	*C5	Q233	*D3	Q605	*A3	Q804	*G5	R30	*E1	R223	*A1	R314	*E4	R489	*A3	R826	*G5
C29	*D1	C209	*B1	CN1	*H4	D275	A4	D420	B3	D511	G5	D868	D4	D967	G5	L107	*B5	Q234	*A5	Q606	*A3	Q805	*G5	R31	*D1	R224	*B2	R315	*B5	R490	*A4	R827	*G5
C30	*D1	C210	*D1	CN2	*G4	D276	C5	D421	C2	D512	A3	D869	B4	D968	G5	L108	*C4	Q235	*C5	Q607	*A3	Q806	*A4	R32	*D1	R225	*A1	R316	*E5	R491	G5	R828	*A4
C31	*D1	C211	*B1	CN3	*F4	D277	*E1	D422	C1	D513	A4	D870	D4	D969	G5	L109	*B5	Q236	*E2	Q608	*A3	Q807	*G5	R33	*D1	R226	*D1	R401	*B2	R492	*C3	R829	*G5
C32	*D1	C212	*C2	CN4	*G4	D278	*D3	D423	C1	D514	A3	D871	B4	D970	G5	L110	*D5	Q237	*C3	Q609	*A3	Q808	*G5	R34	*D1	R227	*A1	R402	*B1	R493	*A3	R830	*B4
C33	*D1	C213	*E3	CN5	*G5	D279	*A4	D424	B3	D515	A4	D872	D4	D971	G5	L111	*C4	Q238	*A5	Q610	*A3	Q809	*A4	R35	*D1	R228	*C2	R403	*B1	R494	*A4	R831	*G5
C34	*D1	C214	*D4	CN6	*H4	D280	*B5	D425	C2	D516	G5	D873	A4	D972	G5	L112	*B4	Q239	*C5	Q611	*A3	Q810	*G5	R36	*D1	R229	*B1	R404	*A3	R495	*A3	R832	*G5
C35	*D1	C215	*B4	CN7	*F4	D281	E1	D426	C1	D517	A3	D874	B4			L113	*C4	Q240	*E2	Q612	*A3	Q811	*G5	R37	*D1	R230	*D1	R405	*B2	R496	*A4	R833	*B4
C36	*D1	C216	*E5	CN101	*A1	D282	D3	D427	C1	D518	A4	D875	B4	E101	*B4	L114	*E5	Q241	*C3	Q613	*A3	Q812	*A4	R38	*D1	R231	*A1	R406	*B1	R497	G5	R834	*G5
C37	*D1	C217	*E2			D283	A5	D428	B3	D519	*A3	D876	B4	E102	*B2	L115	*B4	Q242	*A5	Q614	*A3	Q813	*G5	R39	*D1	R232	*C2	R407	*B1	R498	*D3	R835	*B4
C38	*D1	C218	*D3	D1	*D2	D284	C5	D429	*C2	D520	*A4	D877	B4	E103	*H4	L116	*C4	Q243	*D5	Q615	*A3	Q814	*A4	R40	*D1	R233	*B1	R408	*A3	R499	*A3	R836	*B4
C39	*C2	C219	*A5	D101	H4	D285	E1	D430	*C1	D521	D3	D878	E4			L117	*C4	Q244	*E2	Q616	*A3	Q815	*G5	R41	*D2	R234	*D1	R409	*C2	R500	*A4	R837	*B4
C40	*C2	C220	*A5	D102	G4	D286	D3	D431	*C1	D522	A3	D879	B4	FB101	*C5	L601	*H4	Q245	*E4	Q617	*D3	Q816	G5	R42	*D2	R235	*B1	R410	*C1	R501	*A3	R838	*B4
C41	*D2	C221	*E3	D103	H4	D287	A5	D432	*B3	D523	A4	D880	E4	FB102	*C5			Q246	*A5	Q618	*D3	Q817	*A4	R43	*D2	R236	*C2	R411	*C1	R502	*A4	R839	*B4
C101	*C2	C222	*C3	D104	G4	D288	C5	D433	C2	D524	G5	D881	C4	FB103	*C5	ND1	F4	Q247	*D5	Q619	*F4	Q818	*G5	R44	*D2	R237	*B1	R412	*B3	R503	G5	R840	*B4
C102	*E3	C223	*B5	D105	*D5	D289	E2	D434	C1	D525	B3	D882	C4	FB104	*C5	ND2	F4	Q248	*E3	Q620	*F4	Q819	G5	R45	*E1	R238	*D1	R413	*C2	R504	*D3	R841	*A4
C103	*E3	C224	*E5	D106	*D5	D290	C3	D435	C1	D526	B4	D883	C4	FB105	*C5	ND3	F4	Q249	*G5	Q621	*F4	Q820	*A4	R46	*E1	R239	*B1	R414	*C1	R505	*B3	R842	*D4
C104	C3	C401	*C2	D107	B2	D291	A5	D436	C3	D601	A4	D884	D4	FB106	*C5	ND4	H4	Q250	*B5	Q622	*H4	Q821	G5	R47	*D2	R240	*C2	R415	*C1	R506	*B4	R843	*A4
C105	C3	C402	*C1	D201	A1	D292	C5	D437	C2	D602	B4	D885	B4	FB107	*C5	ND5	H4	Q251	*D5	Q623	*H4	Q822	*G5	R48	*D2	R241	*B1	R416	*B3	R601	*A3	R844	*D4
C106	*B1	C403	*C1	D202	C1	D293	E2	D438	C1	D603	B4	D886	E4	FB108	*C5	ND6	H4	Q252	*E3	Q624	*H4	Q823	*A4	R49	*C2	R242	*D1	R417	*C2	R602	*A3	R845	*A4
C107	*E5	C404	*B4	D203	A1	D294	C3	D439	C1	D604	B4	D887	B4	FB109	*C5	ND7	D3	Q253	*H4	Q625	*A3	Q824	G5	R50	*C2	R243	*B1	R418	*C1	R603	*A3	R846	*D4

R890	* E4	R981	* B4	RB104	* E4	S65	D2
R891	* B4	R982	* B4	RB105	G4	S66	D2
R892	* E4	R983	* B4	RB106	* G4	S67	B1
R893	* B4	R984	* E4	RB601	C3	S68	C1
R894	* E4	R985	* B4	RB602	C3	S69	C1
R895	* B4	R986	* B4	RB603	C3	S70	C1
R896	* E4	R987	* B4	RB604	C3	S71	C1
R897	* B4	R988	* E4	RB605	* C3	S72	D1
R898	* E4	R989	* B4	RB606	* C3	S73	D1
R899	* B4	R990	* E4	RB607	* H4	S74	B1
R900	* E4	R991	* B4	RB608	* H4	S75	C1
R901	* B4	R992	* E4	RB609	* H4	S76	C1
R902	* E4	R993	* C4	RB610	* H4	S77	C1
R903	* B4	R994	* C4	RB611	* H4	S78	C1
R904	* E4	R995	* C4	RB701	* B5	S79	D1
R905	* C4	R996	* C4	RB702	* B5	S80	D1
R906	* C4	R997	* C4	RB703	* D5	S81	A3
R907	* C4	R998	* C4	RB704	* D5	S82	B3
R908	* C4	R999	* C4	RB705	* E5	S83	B3
R909	* D4	R1000	* C4	RB706	* E5	S84	C3
R910	* D4	R1001	* C4	RB707	* E5	S85	B3
R911	* C4	R1002	* C4	RB708	* E5	S86	B4
R912	* C4	R1003	* C4	RB801	* G5	S87	B4
R913	* C4	R1004	* C4	RB802	* G5	S88	C3
R914	* C4	R1005	* C4	RB803	* D4	S89	C3
R915	* C4	R1006	* C4	RB804	* D4	S90	D3
R916	* C4	R1007	* D4			S91	D3
R917	* C4	R1008	* D4	S1	A1	S92	D3
R918	* C4	R1009	* C4	S2	A1	S93	A3
R919	* D4	R1010	* A4	S3	A1	S94	A3
R920	* D4	R1011	* C4	S4	B1	S95	B3
R921	* C4	R1012	* C4	S5	B1	S96	C4
R922	* C4	R1013	* C4	S6	B1	S97	C4
R923	* C4	R1014	* A4	S7	B1	S98	D4
R924	* C4	R1015	* B4	S8	C1	S99	D4
R925	* C4	R1016	* D4	S9	C1	S100	D4
R926	* C4	R1017	* B4	S10	C1	S101	A4
R927	* C4	R1018	* D4	S11	C1	S102	A4
R928	* E4	R1019	* D4	S12	D1	S103	B4
R929	* C4	R1020	* D4	S13	D1	S201	* E2
R930	* E4	R1021	* B4	S14	D1		
R931	* C4	R1022	* B4	S15	A1	THP101	* F5
R932	* C4	R1023	* B4	S16	A1		
R933	* C4	R1024	* B4	S17	A1	X1	* D2
R934	* C4	R1025	* C4	S18	A1		
R935	* D4	R1026	* C4	S19	B1		
R936	* E4	R1027	* C4	S20	B1		
R937	* D4	R1028	* C4	S21	B2		
R938	* E4	R1029	* C4	S22	B2		
R939	* D4	R1030	* C4	S23	B2		
R940	* D4	R1031	* D4	S24	C2		
R941	* D4	R1032	* D4	S25	C2		
R942	* D4	R1033	* D4	S26	C2		
R943	* D4	R1034	* D4	S27	D2		
R944	* D4	R1035	* D4	S28	E1		
R945	* D4	R1036	* D4	S29	E1		
R946	* D4	R1037	* E4	S30	E2		
R947	* A4	R1038	* E4	S31	E2		
R948	* D4	R1039	* E4	S32	E2		
R949	* D4	R1040	* E4	S33	E3		
R950	* D4			S34	E3		
R951	* A4	RB1	* D2	S35	E4		
R952	* D4	RB2	* A1	S36	D3		
R953	* A4	RB3	* A1	S37	D3		
R954	* D4	RB4	* D2	S38	C3		
R955	* A4	RB5	* D2	S39	C3		
R956	* D4	RB6	* D2	S40	E4		
R957	* E4	RB7	* D2	S41	G5		
R958	* E4	RB8	* D2	S42	H4		
R959	* B4	RB9	* D2	S43	A4		
R960	* D4	RB10	* D3	S44	A5		
R961	* E4	RB11	* D2	S45	A5		
R962	* E4	RB12	* D2	S46	A5		
R963	* B4	RB13	* D2	S47	A5		
R964	* D4	RB14	* D2	S48	B5		
R965	* B4	RB15	* D3	S49	B5		
R966	* D4	RB16	* D2	S50	B5		
R967	* B4	RB17	* D3	S51	C5		
R968	* D4	RB18	* D3	S52	C5		
R969	* A4	RB19	* D3	S53	C5		
R970	* A4	RB20	* D2	S54	D5		
R971	* B4	RB21	* D2	S55	D5		
R972	* E4	RB22	* D3	S56	D5		
R973	* B4	RB23	* D3	S57	E5		
R974	* B4	RB24	* D1	S58	E5		
R975	* B4	RB25	* D1	S59	B2		
R976	* E4	RB26	* D1	S60	C2		
R977	* B4	RB27	* D3	S61	C2		
R978	* E4	RB101	* C2	S62	C2		
R979	* B4	RB102	* C2	S63	C2		
R980	* E5	RB103	* E4	S64	D2		



SW-1456 -A SIDE-SUFFIX: -11



SW-1456 -B SIDE-
SUFFIX: -11

SW-1456 (1-881-272-11)

*:B SIDE

C2	*B7	C222	*A3	D218	C1	D309	A8	D723	C7	D822	D6	ND8	D6	Q402	*B1	Q635	*A7	R5	*B8	R220	*B2	R411	*B1	R717	*D7	R808	C6	RB103	*C7	THP101 *C7
C3	*B7	C223	*C7	D220	B2	D311	A5	D725	B6	D824	D7	ND10	C6	Q404	*D6	Q637	*A7	R7	*B8	R222	*C1	R413	*B1	R719	*B7	R810	A7	RB105	C5	
C4	*B7	C224	*A8	D221	A1	D312	B8	D726	B6	D825	D6	ND11	B6	Q405	*B1	Q638	*A6	R8	*B8	R223	*B1	R414	*C6	R720	*D7	R811	A7	RB106	C5	X1 *B7
C5	*B7	C401	*A7	D222	C1	D313	B7	D727	A6	D826	D6	ND12	B6	Q406	*D7	Q639	*A7	R9	*C7	R224	*B2	R415	*C1	R721	*D7	R812	B6	RB501	*C6	
C6	*B6	C402	*A1	D223	B1	D314	A5	D728	A6	D827	D6	ND13	B6	Q407	*B1	Q640	*A6	R10	*C7	R225	*B1	R416	*C6	R722	*D6	R813	A7	RB502	*C6	
C7	*B7	C403	*A7	D224	B2	D315	B8	D729	B6	D828	D6	ND14	B6	Q408	*C6	Q641	*A7	R11	*B7	R226	*D1	R417	*C1	R723	*B7	R814	A7	RB503	*B6	
C8	*B7	C404	*C6	D225	A1	D316	B7	D730	C6	D829	D6	ND15	C6	Q409	*C1	Q642	*A6	R12	*C7	R227	*B2	R418	*C6	R724	*D6	R815	A7	RB504	*B6	
C9	*B7	C405	*D6	D226	C1	D317	*A5	D731	A6	D830	D6	ND16	C6	Q410	*C6	Q643	*A7	R13	*B7	R228	*B1	R419	*C1	R725	*B7	R816	B6	RB505	*C6	
C10	*B7	C406	*B6	D227	B1	D318	*A8	D732	A6	D831	D7	ND17	A2	Q411	*C1	Q644	*B6	R14	*B7	R229	*D1	R420	*A8	R726	*D6	R817	A7	RB506	*D6	
C11	*B6	C407	*D6	D228	B2	D319	C7	D733	A7	D832	D7	ND18	A2	Q412	*A8	Q645	*A7	R15	*B7	R230	*B2	R421	*C6	R727	*D6	R818	A7	RB507	*D6	
C12	*B6	C408	*C1	D229	*A1	D320	A5	D734	A7	D833	D6	ND19	C6	Q413	*D6	Q646	*B6	R16	*B7	R231	*B1	R422	*C1	R728	*B7	R819	A7	RB508	*D6	
C13	*B6	C409	*A8	D230	*D1	D321	B8	D735	A7	D834	D6	ND20	C6	Q414	*C1	Q647	*A7	R17	*B6	R232	*D1	R423	*D6	R729	*D6	R820	A7	RB509	*D6	
C14	*B6	C501	*B6	D231	*B1	D322	C7	D736	A7	D835	D6	ND21	A8	Q415	*D6	Q648	*B6	R18	*B6	R233	*C2	R424	*C1	R730	*A7	R821	A7	RB510	*D6	
C15	*B6	C502	*C6	D232	*B2	D323	A5	D737	A7	D836	D6	ND22	A8	Q416	*D6	Q649	*A7	R19	*B7	R234	*B1	R425	*D6	R731	*D7	R822	B7	RB601	*B7	
C16	*B6	C503	*B6	D233	B1	D324	B8	D738	B6	D837	D6	ND23	A8	Q417	*C1	Q650	*B6	R20	*B7	R235	*D1	R426	*D6	R732	*D7	R823	A7	RB602	*B8	
C17	*A6	C504	*B6	D234	D1	D325	B7	D739	A7	D838	D6	ND24	A8	Q418	*D6	Q651	*A7	R21	*B6	R236	*C2	R427	*C1	R733	*A7	R824	B6	RB603	*B8	
C18	*A6	C505	*B6	D235	B2	D326	A1	D740	B6	D839	D7	ND25	B8	Q419	*D1	Q652	*A7	R22	*B6	R237	*B1	R428	*D6	R734	*D7	R825	B7	RB604	*B6	
C19	*A6	C506	*C6	D236	B1	D401	C6	D741	B7	D840	D7	ND26	B8	Q420	*D7	Q653	*B6	R23	*B6	R238	*D1	R429	*C1	R735	*A7	R826	B7	RB605	*C6	
C20	*A6	C507	*C7	D237	D1	D402	B1	D742	B7	D841	D6	ND27	B8	Q501	*B6	Q654	*B6	R24	*B6	R239	*C2	R430	*D6	R736	*A7	R827	A7	RB606	*C6	
C21	*A6	C508	*C7	D238	B2	D403	B6	D743	B7	D842	D6	ND28	B8	Q502	*B6	Q655	*B7	R25	A6	R240	*B1	R431	*D6	R737	*A7	R828	B6	RB701	*C6	
C22	*A6	C509	*C7	D239	B1	D404	C6	D744	B7	D843	D6	ND29	B8	Q503	*B6	Q656	*C7	R26	*A6	R241	*D1	R432	*C1	R738	*A7	R829	B7	RB702	*C6	
C23	*A6	C510	*C7	D240	D1	D405	B1	D745	A7	D844	D6	ND30	B8	Q504	*B6	Q701	*D6	R27	*A6	R242	*C2	R433	*D1	R739	*A7	R830	B7	RB703	*C6	
C24	*A6	C511	*D6	D241	C2	D406	*C6	D746	B6	D845	D6	ND31	C8	Q505	*B6	Q702	*B7	R28	*A6	R243	*B1	R434	*D7	R740	*A7	R831	B7	RB704	*C6	
C25	*A6	C512	*D6	D242	B1	D407	*B1	D747	A7	D846	D6	ND32	B8	Q506	*B6	Q703	*B7	R29	A6	R244	*A2	R435	*D1	R741	A7	R832	B7			
C26	*A6	C513	*D6	D243	D1	D408	D6	D748	B6	D847	D7	ND33	A6	Q507	*B6	Q704	*D6	R30	*A6	R245	*B1	R501	*B6	R742	B6	R833	B7	S1	A1	
C27	*A6	C514	*D6	D244	C2	D409	B1	D749	B7	D848	D7	ND34	A6	Q508	*B6	Q705	*B7	R31	A6	R246	*A2	R502	*B6	R743	A7	R834	B7	S2	A1	
C28	*A6	C515	*D6	D245	*B1	D410	D6	D750	B7			ND35	A6	Q509	*B6	Q706	*D6	R32	A6	R247	*C1	R503	*B6	R744	B6	R835	B7	S3	A1	
C29	*A6	C516	*D6	D246	*D1	D411	B1	D751	B6	E101	*B1	ND36	A6	Q510	*B6	Q707	*B7	R33	*A6	R248	*C1	R504	*B6	R745	A7	R836	B6	S4	B1	
C30	*A6	C517	*D6	D247	*C2	D412	D7	D752	B7	E102	*A8	ND37	B6	Q511	*B6	Q708	*C6	R34	*A6	R249	*A2	R505	*B6	R746	B6	R837	B7	S5	B1	
C31	*A6	C518	*D6	D248	B1	D413	B1	D753	B7	E103	*D7	ND38	B6	Q512	*B6	Q709	*D6	R35	*A6	R250	*C6	R506	*B6	R747	A7	R838	B7	S6	B1	
C32	*A6	C519	*D6	D249	D1	D414	D7	D754	B6			ND39	B6	Q513	*B6	Q710	*B7	R36	*A6	R251	A6	R507	*B6	R748	B6	R839	B7	S7	B1	
C33	*A6	C520	*D6	D250	C2	D415	B1	D755	B7	IC1	*B7	ND40	B6	Q514	*B6	Q711	*D6	R37	*A6	R252	*C8	R508	*B6	R749	A7	R840	B6	S8	C1	
C34	*A6	C601	*C7	D251	B1	D416	D5	D756	B6	IC2	*B7	ND41	B6	Q515	*B6	Q712	*B7	R38	*A6	R253	*A2	R509	*B6	R750	B6	R841	B6	S9	C1	
C35	*A6	C602	*B7	D252	D1	D417	*B1	D757	C7	IC3	*B6	ND42	B6	Q516	*B6	Q713	*D6	R39	*A6	R254	*C6	R510	*B6	R751	A7	R842	B6	S10	C1	
C36	*A6	C603	*A7	D253	C2	D418	D6	D758	B6	IC4	*B7	ND43	C6	Q517	*D5	Q714	*D6	R40	*A6	R255	A6	R511	*B6	R752	B6	R843	B7	S11	C1	
C37	*A6	C604	*B8	D254	B1	D419	C1	D759	A6	IC5	*A6	ND44	B6	Q518	*D5	Q715	*B7	R41	*B7	R256	*C8	R512	*B6	R753	A7	R844	C7	S12	D1	
C38	*A6	C605	*B6	D255	A2	D420	D6	D760	A6	IC6	*B6			Q519	*C6	Q716	*D6	R42	*B7	R257	*A3	R513	*C6	R754	B6	R845	B7	S13	D1	
C39	*B6	C606	*A7	D256	B1	D421	C1	D761	B7	IC7	*B7	Q101	*C2	Q520	*C6	Q717	*D6	R43	*B7	R258	*C6	R514	*C6	R755	A7	R846	C7	S14	D1	
C40	*B6	C607	*A7	D257	A2	D422	D6	D762																						

SAFETY CHECK-OUT

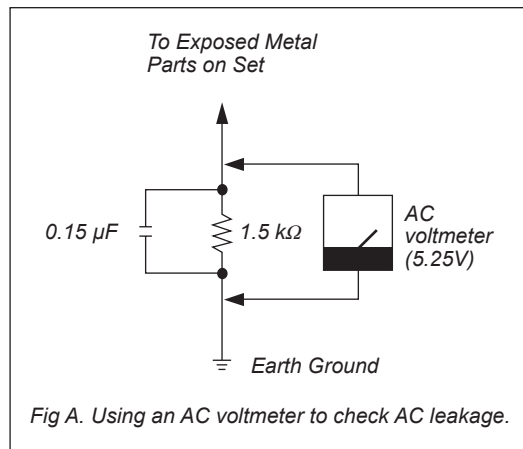
After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

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

LEAKAGE TEST

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

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



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