SONY

ROUTING SWITCHER CONTROLLER

HKSP-R80

ROUTING SWITCHER BACKUP CPU
HKSP-R81

MAINTENANCE MANUAL
1st Edition (Revised 1)
Serial No. 10001 and Higher (HKSP-R80)
Serial No. 20001 and Higher (HKSP-R81)

⚠警告

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

⚠WARNING

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

⚠WARNUNG

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

⚠ AVERTISSEMENT

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

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

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

ATTENTION

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

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.
Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

ADVARSEL

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

VARNING

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

VAROITUS

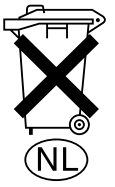
Paristo voi räjähtää jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

When using a LAN cable:
For safety,do not connect to the connector for peripheral device wiring that might have excessive voltage.

For the customers in the Netherlands
Voor de klanten in Nederland

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

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



Für Kunden in Deutschland

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

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Manual Structure

Purpose of this manual

This manual is the maintenance manual of Routing Switcher Controller HKSP-R80 and Routing Switcher Backup CPU HKSP-R81.
This manual is intended for use by trained system and service engineers, and describes the information for maintenance and detailed service.

Related manuals

The following manuals are prepared for HKSP-R80/R81.

- **Operation Manual (Supplied with HKSP-R80)**
  This manual describes the software application and operation of HKSP-R80.

- **Installation Manual (Supplied with HKSP-R80)**
  This manual describes the information on installing the HKSP-R80/R81.

- **System Setup Manual (Supplied with HKSP-R80)**
  This manual describes the software initialization and operation confirmation.

- **Protocol Manual (Available on request)**
  This manual describes the protocol for controlling this board. The manual below is provided for the protocol that this board can support.
  If this manual is required, please contact your local Sony Sales Office/Service Center.
  S-BUS PROTOCOL AND COMMAND SPECIFICATIONS
  (S-BUS remote terminal control protocol)
  Part No.: 9-977-477-1X

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**
  This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in B&P Company equipment.
  Semiconductors that cannot be searched for on this CD-ROM are listed in the service manual for the corresponding unit. The service manual contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.
  Part number: 9-968-546-XX

Contents

This manual is organized by following sections.

Section 1 Service Overview

This section explains the information and procedure required for service such as lists of error code and remedy, procedure for writing of board information after replacement of IC, and procedure for upgrading software version.

Section 2 Spare Parts

This section describes the spare parts.

Section 3 Semiconductor Pin Assignments

This section contains information on semiconductors used for unit.
It includes a complete list of the semiconductors and their ID Nos. for retrieving information on “Semiconductor Pin Assignments” CD-ROM, which is available separately.
Please refer to this section together with the “Semiconductor Pin Assignments” CD-ROM.
Information on the semiconductors not contained in the CD-ROM at the time of issue of this manual, if any, is given in this section as well.

Section 4 Overall Block Diagram

This section describes the overall block diagram.

Section 5 Schematic Diagrams

This section describes the schematic diagrams of each board.

Section 6 Board Layouts

This section describes the board layouts of each board.

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- Windows 98, Windows 2000, Windows XP, and MS-DOS are registered trademarks of Microsoft Corporation.
- IBM and AT are registered trademarks of International Business Corporation.
- Ethernet is a registered trademark of Xerox Corporation.

Other system names, product names, and company names appearing in this manual are trademarks or registered trademarks of their respective holders.

Section 1
Service Overview

1-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

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

2. Standardization of Parts

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

3. Stock of Parts

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

1-2. Replacement of Fuse / IC Link

WARNING

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

The fuses and IC links are mounted on the boards below. Be sure to replace with the specified fuse and IC link as shown below after removing the foreign substances that may cause the shorts.

CPU-355 board

Ref No. (Address)	Description	Parts No.
F1201 (C-3)	Fuse Chip 2A/125V	⚠1-533-999-21

CN-2334 board

Ref No. (Address)	Description	Parts No.
F101 (A-1)	Fuse Chip 1A/125V	⚠1-533-998-21
PS101 (B-2)	IC Link 2.5A	⚠1-576-398-21

CN-2335 board

Ref No. (Address)	Description	Parts No.
F101 (A-1)	Fuse Chip 1A/125V	⚠1-533-998-11

1-3. Error Indication

When an error or warning occurs, PFV-SP series and HKSP-R80 operate as follows.

- The output of 4-pin (BOARD ERROR OUT) or 5-pin (BOARD WARNING OUT) of the STATUS OUT connector of the connector panel of the PFV-SP series becomes high impedance (low level in normal operation).
- The STATUS indicator of the PFV-SP series blinks in red (error) or in green (warning).
- The STATUS indicator of the indicator panel of the CPU-355 board blinks in red (error) or in green (warning).
- The error code and error symbol are displayed on the status indicator of the indicator panel of the CPU-355 board alternately.

When there is no error, “R80” is displayed on the status indicator. On similar occasions, when the BZR-IF810 is installed in the HKSP-R80, “810” is displayed. (The STATUS indicator lights in green.)

Note

For the error message displayed on the personal computer (terminal emulator) connected to the REMOTE3 connector or DATA connector, refer to the system setup manual supplied with the HKSP-R80.

Error code

Error code	Error symbol	Description	Remedy
E.27	SBUS	Connection error of S-BUS	Check the connections among the devices in the S-BUS link, then attach a 75 Ω terminator.
E.50	BT	Error of lithium battery (BT501) for backup	Replace the lithium battery. (Refer to Section 1-5.)
E.80	MEM	Error of the checksum of ROM (IC602 to IC605) or writing error of RAM (IC503 to IC506) **Note** When restarting the HKSP-R80 after rewriting the application software, this error code is displayed. However, it does not indicate abnormal state.	Replace the corresponding IC.
E.FE	PG	System does not start for a reason that the program is not downloaded correctly.	Download the program again.
E.FF	CN	Connector board is not installed in the correct slot or no connector board is installed in the slot.	Install the connector board in the slot correctly.

Warning code

Error code	Error symbol	Description	Remedy
W.60	REF	Although S803-1 is set to OFF (SYNC), no reference signal is input.	Input the reference signal to the connectors (REF IN A/B) of the PFV-SP series correctly and set the reference channel used in S802-7 (REF A/B) correctly. In the case that the reference signal is not used, set S803-1 to ON (ASYNC).
(Not displayed)		Although the CPU-355 board for backup is installed, it does not start.	Replace the CPU-355 board for backup.

1-4. Replacement of Board

WARNING

Before starting the replacement, be sure to turn off the power of both power supply units of the PFV-SP series and pull out the power plugs from the wall outlets.

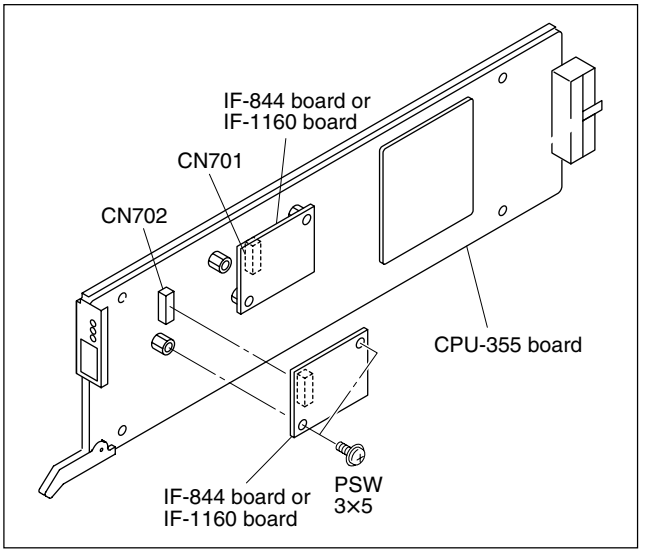
1-4-1. Front Side

IF-844 board or IF-1160 board

Notes

- When the IF-844 board becomes defective and needs to be replaced, replace both of the two IF-844 boards on the CPU-355 board with IF-1160 boards.
  An IF-844 board and an IF-1160 board cannot be mounted together on the CPU-355 board.
- When using the HKSP-R80 with backup operation, avoid using an IF-1160 board and an IF-844 board together on the CPU-355 that is not the target of replacement (of IF-844 board with IF-1160 board).
  Unless an IF-844 board and an IF-1160 board are mounted together on the CPU-355 board, both of the two boards on the CPU-355 board need not be replaced.
- After IF-844 boards have been replaced with IF-1160 boards, upgrade the application software on the CPU-355 board.
  The dedicated application software is required for upgrading the software.
  For obtaining the dedicated software, contact your local Sony Sales Office/Service Center.

1. Remove the front panel and board retainer. (Refer to the maintenance manual of the PFV-SP series)
2. Pull out the CPU-355 board assembly. (Refer to the maintenance manual of the PFV-SP series)
3. Remove the two screws, then remove the IF-844 board or the IF-1160 board from the connector (CN701 or CN702) on the CPU-355 board.



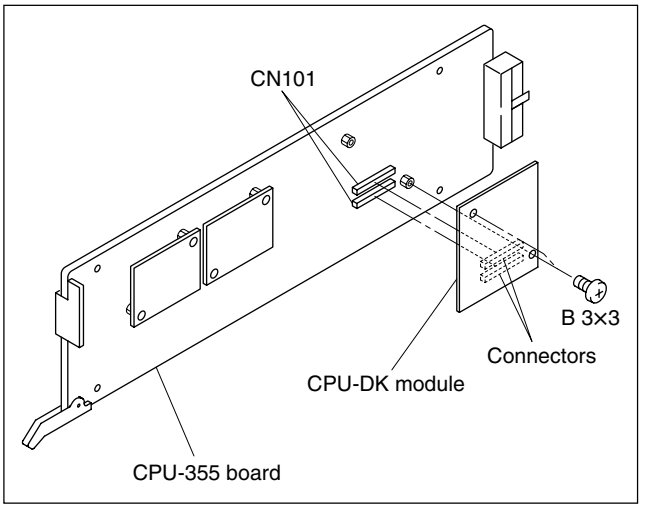
4. Attach a new IF-844 board or a new IF-1160 board in the reverse order of steps 1 to 3.

Note

Before securing the IF-844 board or the IF-1160 board, make sure that the connectors are securely connected.

CPU-DK module

1. Remove the front panel and board retainer. (Refer to the maintenance manual of the PFV-SP series)
2. Remove the CPU-355 board assembly. (Refer to the maintenance manual of the PFV-SP series)
3. Remove the two screws, then remove the CPU-DK module from the connector (CN101) on the CPU-355 board.



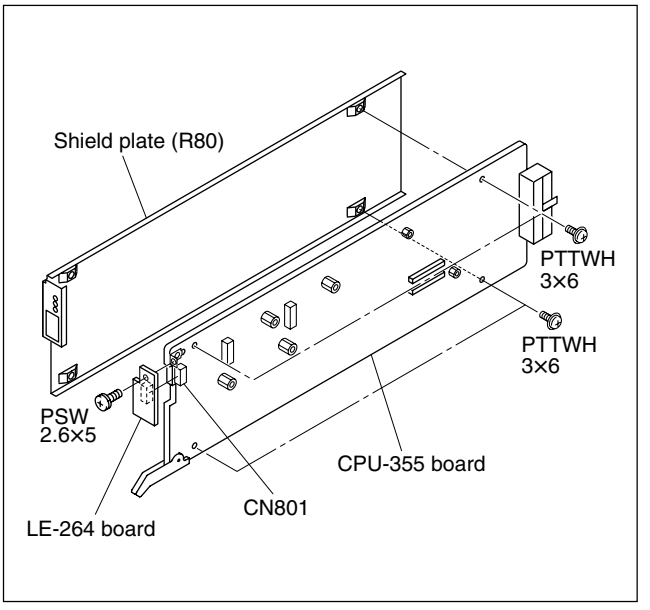
4. Attach a new CPU-DK module in the reverse order of steps 1 to 3.

Note

Before securing the CPU-DK module, make sure that the connectors are securely connected.

CPU-355 board

1. Remove the front panel and board retainer. (Refer to the maintenance manual of the PFV-SP series)
2. Remove the CPU-355 board assembly. (Refer to the maintenance manual of the PFV-SP series)
3. Remove the IF-844 board or the IF-1160 board. (Refer to "IF-844 board or IF-1160 board" in this Section)
4. Remove the CPU-DK module. (Refer to "CPU-DK module" in this Section)
5. Remove the four screws (PTTWH 3×6), then remove the shield plate (R80).
6. Remove the lithium battery.
7. Remove one screw (PSW 2.6×5), then remove the LE-264 board from the connector (CN801) on the CPU-355 board.



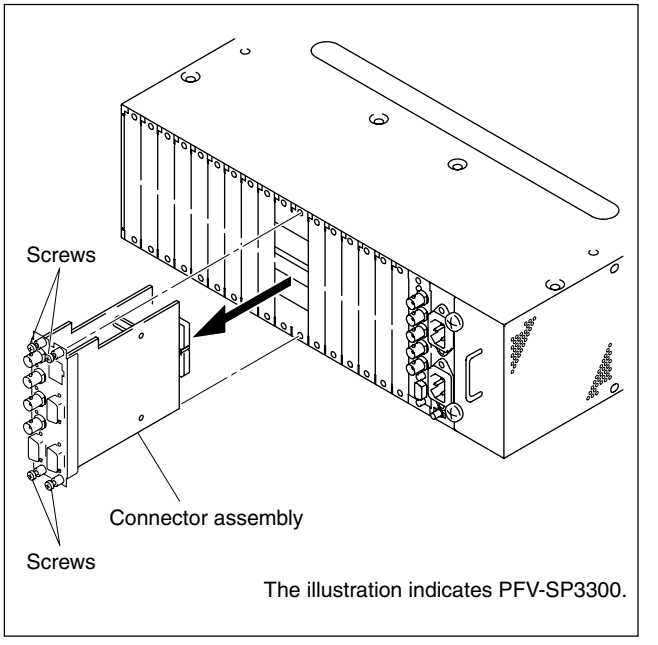
8. Install a new CPU-355 board in the reverse order of steps 1 to 7.

1-4-2. Rear Side

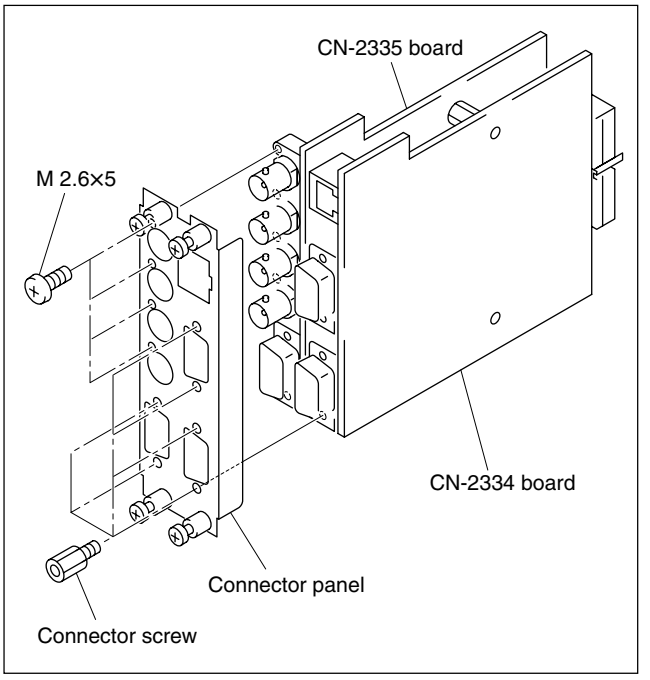
Note

When replacing the CN-2334 board (suffix "-11") with a new one (suffix "-12"), replace the CN-2335 board (suffix "-11") with a new one (suffix "-12") at the same time.
In the same way, when replacing the CN-2335 board (suffix "-11") with a new one (suffix "-12"), replace the CN-2334 board (suffix "-11") with a new one (suffix "-12") at the same time.

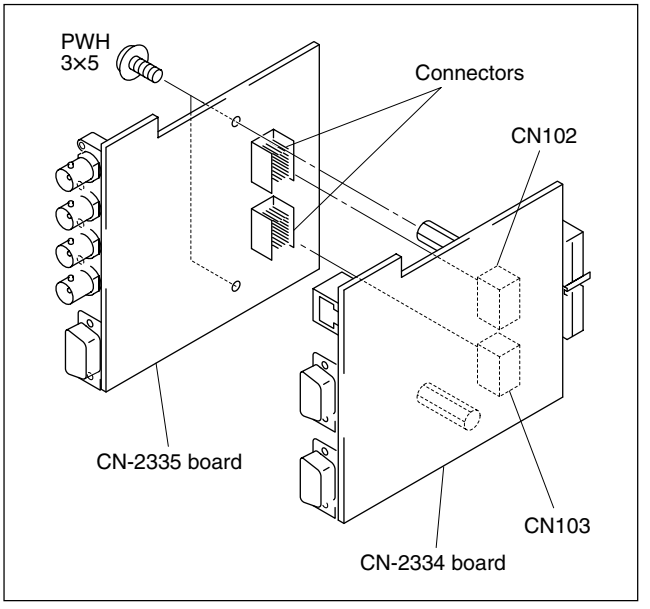
1. Loosen the four screws (with stopper), then remove the connector assembly.



2. Remove the four screws (M 2.6×5) and six connector screws, then remove the connector panel.



3. Remove the two screws (PWH 3×5) from the CN-2335 board.
4. Remove the CN-2335 board from the connectors (CN102 and CN103) on the CN-2334 board.



5. Install a new CN-2334 board or CN-2335 board in the reverse order of steps 1 to 4.

Note

When installing the board, make sure to correctly align connector to prevent the connector pins from bending.

1-5. Replacement of Lithium Battery

A lithium battery is mounted on the CPU-355 board for backing up RAM and for driving internal watch while the power is turned off.
Replace the battery before the replacement time shown below comes.

Status of usage of this machine	Replacement time
The battery has never been replaced since purchase of this machine.	Non power-on period of this machine is shorter than approx. 3 years . (Because consumption of battery has started already at the time of purchase of this machine.)
The battery is replaced by the new battery last time.	Non power-on period of this machine is approx. 3 years.
This machine has been used with always power-on.	Period of usage of this machine is shorter than 5 years. (Because the battery life is 5 years and the consumption of the battery has already started at the time of purchase of this machine.)

The table data that are set using the control terminal is stored in RAM on the CPU-355 board. Before replacing the lithium battery, back up the setting data using the BZR-20 backup software. (Refer to the Installation Manual, Section 9.)

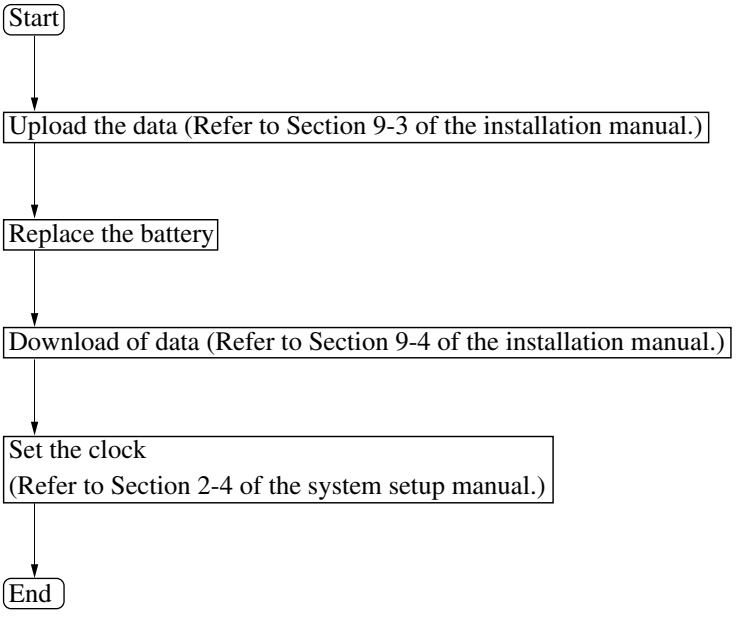
Use the specified battery in the case of replacement.

Ref. No.	Address	Item
BT501	(H-3)	Lithium battery (CR2032)

Replacement Procedure

Note

When replacing battery, do not touch the battery with bare hand as this may corrode electrode.



1-6. Operation after Replacement of IC

After replacing the following IC, install the required data.

Board name	Ref.No.	Refer to
CPU-355	IC201	Section 1-6-4
	IC302	Section 1-6-5
	IC602	Section 1-6-1
	IC603 to IC605	Section 1-6-2
	IC807	Section 1-6-3
CN-2334	IC102	Section 1-6-3
CN-2335	IC102	Section 1-6-3

1-6-1. IC602 (CPU-355 Board)

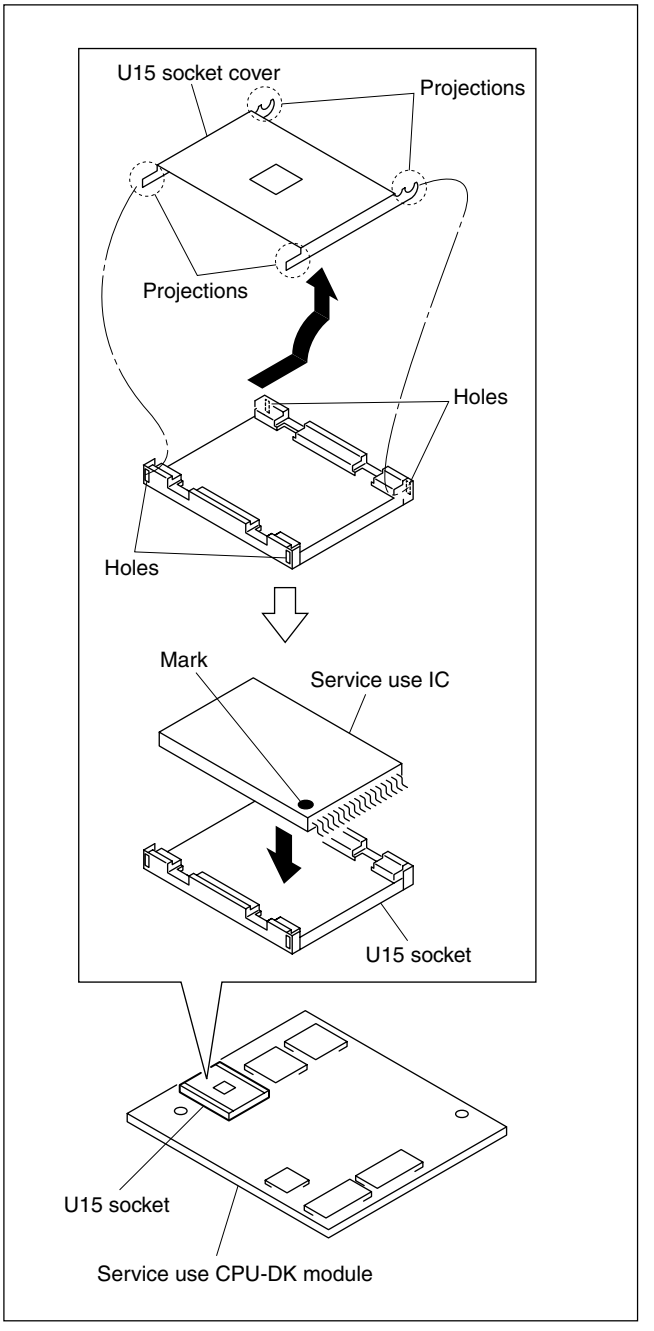
The 2nd BOOT program data to boot up IC603 to IC605 is written in IC602.

Required Equipment

- Personal computer
  IBM PC/AT-compatible machine with terminal software installed
- Ethernet cable
- Service use CPU-DK module
  (Sony part number: 1-761-434-21)
- Service use IC (29LV160-R80BOOTWR-V1.00)
  (Sony part number: 6-802-592-01)
- 2nd Boot program data
  For obtaining the program data, contact your local Sony Sales Office/Service Center.

Preparation

1. Remove the U15 socket cover of the service use CPU-DK module.
2. Attach the service use IC to the U15 socket.
   Note
   Attach the Service use IC so that the mark (No.1 pin) on the IC is placed in the position as shown in the Fig. below.



3. Remove a CPU-DK module from the CPU-355 board on which IC602 is replaced, then attach the service use CPU-DK module. (Refer to Section 1-4-1.)

Writing

Write the 2nd Boot program data in IC602 in almost the same procedure as “1-10. Upgrading Software Version”

Note

The writing procedure of the 2nd Boot program data differs from that of the software upgrade as follows.

- The 2nd Boot program data is used instead of the application software.
- Step 3 of “Preparation” in Section 1-10, the procedure to set the HKSP-R80 as a primary station, is not required.
- In step 4 of “Preparation” in Section 1-10, in the procedure to connect the HKSP-R80 to the personal computer, RS-232C cannot be used.
- In step 5 of “Writing” in Section 1-10, in the procedure to set the IP address and port number, set the IP address as 192.168.0.135 and set the port number as 1001.

Confirmation after Writing

1. After completing the 2nd Boot program data writing, remove the service use CPU-DK module from the CPU-355 board and attach the CPU-DK module removed in step 3 of “Preparation” (on the previous page).
2. After attaching the CPU-DK module, check that the HKSP-R80 normally starts (when restarting, “R80” or “810” is displayed on the status indicator).
3. Check the version of “BOOT” by “V:DISPLAY UNIT STATUS” menu of the secondary station. (Refer to Section 1-11.)

1-6-2. IC603 to IC605 (CPU-355 Board)

The HKSP-R80 main application software is written in IC603 to IC605.

Required Equipment

- Personal computer
  IBM PC/AT-compatible machine with terminal software installed
- Ethernet cable
- Main application software
  S-SUB primary station program supplied with the HKSP-R80.

Writing

Write the main application software in almost the same procedure as “1-10. Upgrading Software Version”.

Note

The writing procedure of the main application software differs from that of the software upgrade as follows.

- Step 3 of “Preparation” in Section 1-10, the procedure to set the HKSP-R80 as a primary station, is not required.
  Note
  Set all bits of S803 on the CPU-355 board to OFF.
- In step 4 of “Preparation” in Section 1-10, in the procedure to connect the HKSP-R80 to the personal computer, RS-232C cannot be used.
- In step 5 of “Writing” in Section 1-10, in the procedure to set the IP address and port number, set the IP address as 192.168.0.135 and set the port number as 1001.
- When the redundant CPU-355 board is installed, remove the CPU-355 board of the main slot (slot with smaller number) from the PFV-SP series after performing step 8 of “Writing” in Section 1-10.

Confirmation after Writing

After resetting the CPU, check that the HKSP-R80 normally starts (when restarting, “R80” is displayed on the status indicator).

1-6-3. EEPROM

The board information of each board is written in the following ICs.

- IC807 on the CPU-355 board
- IC102 on the CN-2334 board
- IC102 on the CN-2335 board

Note

It is required to input the hardware version for the writing of the board information. Contact your local Sony Sales Office/Service Center for the hardware version.

Write the data in the following two steps.

1. Writing of common data: Text data is transferred from terminal.
2. Writing of individual data: Individual data is typed from keyboard.

Required Equipment

- Personal computer
  IBM PC/AT-compatible machine with terminal software installed
- Ethernet cable
- RS-232C cable

Procedure

1. Writing of common data

(1) Copy and paste the following data using the personal computer (if you cannot copy/paste, enter the data), and save it in text format.

Notes

- You can use any file name.
- The 2nd line to the last line (∗1 and ∗2) are same in both text data.

Text data for CPU-355 board

```
S00F000052383069326366
S1130000536F6E7920436F72706F726174696F6E93
S1130010524F5554494E4720535749544348455228B
S113002020434F4E54524F4C4C4552202020202008
S1130030202020202020202020524F55544552204378
S113004054524C2020202020484B53502D523830FD
S1130050202020202020202053594D202020202003
S1130060202020202020202020202020202020208C
S1130070202020202020202020202020202020207C
S1130080312E303020202020312E303020202020EE
S1130090202020202020202020202020202020205C
S11300A020202020202020202020202020202204C
S11300B000000000000000000000000000000003C
S11300C000000000000000000000000000000002C
S11300D000000000000000000000000000000001C
S11300E000000000000000000000000000000000C
S11300F020202020202020202020202020202020FC
S904000000FB
```

∗1

Text data for CN-2334 board and CN-2335 board

```
S00F000052383069326372
S1130000536F6E7920436F72706F726174696F6E93
S1130010524F5554494E4720535749544348455228B
S113002020434F4E54524F4C4C4552202020202008
S1130030202020202020202020524F55544552204378
S113004054524C2020202020484B53502D523830FD
S1130050202020202020202053594D202020202003
S1130060202020202020202020202020202020208C
S1130070202020202020202020202020202020207C
S1130080312E303020202020312E303020202020EE
S1130090202020202020202020202020202020205C
S11300A020202020202020202020202020202204C
S11300B000000000000000000000000000000003C
S11300C000000000000000000000000000000002C
S11300D000000000000000000000000000000001C
S11300E000000000000000000000000000000000C
S11300F020202020202020202020202020202020FC
S904000000FB
```

∗2

(2) Connect the DATA connector on the connector panel to the personal computer using the Ethernet cable.
(3) Set the rotary switch S804 on the CPU-355 board to "F".
(4) Turn on the power of the PFV-SP series.
(5) Start the terminal software of the personal computer.
(6) Set the same IP address as the HKSP-R80 to the TCP/IP of the terminal software and set the port number to 1001.
(7) Transfer the text data created in step (1) to the HKSP-R80 from the terminal software.
(8) Exit from the terminal software.
(9) Disconnect the Ethernet cable connecting the DATA connector and the personal computer.

2. Writing of individual data

(1) Connect the personal computer used in "1. Writing of common data" to the REMOTE3 connector on the connector panel using the RS-232C cable.

(2) Set the communication conditions of the personal computer.

Baud rate	38400 bps
Data	8 bit
Parity	None
Stop	1 bit
Flow control	None

(3) When replacing the IC on the connector board, install the CPU-355 board in the same slot (front side) as the connector board. (In the case that two CPU-355 boards are installed for backup operation, remove the other CPU-355 board.)
When replacing the IC on the CPU-355 board, the data can be written into ROM in whichever slot the board is installed. (In the case that two CPU-355 boards are installed for backup operation, remove either CPU-355 board.)

When replacing IC102 on the CN-2334 board

Installed board	
Connector side	**Front side**
CN-2334	CPU-355
CN-2335	(None)

When replacing IC102 on the CN-2335 board

Installed board	
Connector side	**Front side**
CN-2334	(None)
CN-2335	CPU-355

When replacing IC807 on the CPU-355 board

Installed board	
Connector side	**Front side**
CN-2334	CPU-355 in either slot
CN-2335	

∗ In the case that two CPU-355 boards are installed for backup operation, remove either CPU-355 board.

(4) Set S804 on the CPU-355 board installed in the slot to "9".

(5) Start the terminal software of the personal computer.

(6) Turn on the power of the PFV-SP series.
The board information input display appears on the terminal software.

(7) Type the information in the parenthesis as indicated on the next page.

Notes

- Fill the blank in the parenthesis with the space by pressing the space key.
  Example: Model Name 16Byte (HKSP-R80__)
  ↑
  Fill this blank with space.

- To switch to the input display for the other (front or rear) board in the same slot, press the F1 key or F2 key.
  Example: In the input display for CN-2334 board, press F1 key (CPU-355). The display is switched to the input display for CPU-355 board.

Writing information for CPU-355 board

```
I2C EDIT MODE

CPU-355 I2C EEPROM DATA
Vendor Name        16Byte  (Sony Corporation)                    ←Enter as shown in the left.
Product Name       40Byte  (ROUTING SWITCHER CONTROLLER    )     ←Enter as shown in the left.
Function           16Byte  (ROUTER CTRL    )                     ←Enter as shown in the left.
Model Name         16Byte  (HKSP-R80    )                       ←Enter as shown in the left. (Enter "HKSP-R80" also to R81)
Model Spec         8Byte   (SYM     )                           ←Enter as shown in the left.
Board Name         8Byte   (CPU-355 )                           ←Enter as shown in the left.
Board Spec         16Byte  (1-685-750-12    )                  ←Enter the part number of the CPU-355 board.
Serial No.         8Byte   (10005    )                         ←Enter the serial number of products.
Original Version   8Byte   (1.00    )                          ←Enter the factory-shipped hardware version.
Revised Version    8Byte   (1.00    )                          ←Enter the current hardware version.
Frame max current  8Byte   (        )                          ←Fill the blank with space.
Service No.        4Byte   (   )                               ←Enter if required for servicing. (Blank for other cases)
Service Comment    20Byte  (                )                  ←Enter if required for servicing. (Blank for other cases)


F1:CPU-355 F2:CN-2334 F3:Read F4:Write
```

Writing information for CN-2334 board

```
I2C EDIT MODE

CN-2334 I2C EEPROM DATA
Vendor Name        16Byte  (Sony Corporation)                    ←Enter as shown in the left.
Product Name       40Byte  (ROUTING SWITCHER CONTROLLER    )     ←Enter as shown in the left.
Function           16Byte  (ROUTER CTRL    )                     ←Enter as shown in the left.
Model Name         16Byte  (HKSP-R80    )                       ←Enter as shown in the left.
Model Spec         8Byte   (SYM     )                           ←Enter as shown in the left.
Board Name         8Byte   (CN-2334 )                           ←Enter as shown in the left.
Board Spec         16Byte  (1-685-751-11    )                  ←Enter the part number of the CN-2334 board.
Serial No.         8Byte   (10005    )                         ←Enter the serial number of products.
Original Version   8Byte   (1.00    )                          ←Enter the factory-shipped hardware version.
Revised Version    8Byte   (1.00    )                          ←Enter the current hardware version.
Frame max current  8Byte   (        )                          ←Fill the blank with space.
Service No.        4Byte   (   )                               ←Enter if required for servicing. (Blank for other cases)
Service Comment    20Byte  (                )                  ←Enter if required for servicing. (Blank for other cases)


F1:CPU-355 F2:CN-2334 F3:Read F4:Write
```

Writing information for CN-2335 board

```
I2C EDIT MODE

CN-2335 I2C EEPROM DATA
Vendor Name        16Byte  (Sony Corporation)                    ←Enter as shown in the left.
Product Name       40Byte  (ROUTING SWITCHER CONTROLLER    )     ←Enter as shown in the left.
Function           16Byte  (ROUTER CTRL    )                     ←Enter as shown in the left.
Model Name         16Byte  (HKSP-R80    )                       ←Enter as shown in the left.
Model Spec         8Byte   (SYM     )                           ←Enter as shown in the left.
Board Name         8Byte   (CN-2335 )                           ←Enter as shown in the left.
Board Spec         16Byte  (1-685-752-11    )                  ←Enter the part number of the CN-2335 board.
Serial No.         8Byte   (10005    )                         ←Enter the serial number of products.
Original Version   8Byte   (1.00    )                          ←Enter the factory-shipped hardware version.
Revised Version    8Byte   (1.00    )                          ←Enter the current hardware version.
Frame max current  8Byte   (        )                          ←Fill the blank with space.
Service No.        4Byte   (   )                               ←Enter if required for servicing. (Blank for other cases)
Service Comment    20Byte  (                )                  ←Enter if required for servicing. (Blank for other cases)


F1:CPU-355 F2:CN-2335 F3:Read F4:Write
```

(8) Check the input data and press the F4 key (Write).
The input data is written in.
(9) Press the F3 (Read) key to check if the input data is correctly displayed.
(10) Exit from the terminal software.
(11) Disconnect the RS-232C cable connecting the personal computer and the REMOTE3 connector.
(12) Set the rotary switch S804 on the CPU-355 board to "0".

1-6-4. IC201 (CPU-355 Board)

The PLD data is written in IC201.
After replacing IC201, write the PLD data in the same procedure as "1-9. Upgrading PLD Version".

1-6-5. IC302 (CPU-355 Board)

After replacing IC302, perform the writing of MAC address. (Refer to Section 1-8.)

1-7. Confirmation of Board Information

Note

In confirming the board information, the Ethernet cable cannot be used. Be sure to use the RS-232C cable for the connection between the REMOTE3 connector on the connector panel and the personal computer.

Required Equipment

- Personal computer
  IBM PC/AT-compatible machine with terminal software installed
- RS-232C cable

Procedure

1. Turn on the power of the personal computer.
2. Connect the REMOTE3 connector on the connector panel to the personal computer using the RS-232C cable.

3. In the case of confirming the board information of the connector board, install the CPU-355 board in the same slot (front side) as the connector board. (In the case that two CPU-355 boards are installed for backup operation, remove the other CPU-355 board.)
   In the case of confirming the board information of the CPU-355 board, install the board in either slot. (In the case that two CPU-355 boards are installed for backup operation, remove the other CPU-355 board.)

To confirm the CN-2334 board information

Installed board	
Connector side	**Front side**
CN-2334	CPU-355
CN-2335	(None)

To confirm the CN-2335 board information

Installed board	
Connector side	**Front side**
CN-2334	(None)
CN-2335	CPU-355

To confirm the CPU-355 board information

Installed board	
Connector side	**Front side**
CN-2334	CPU-355 in either slot
CN-2335	

* In the case that two CPU-355 boards are installed for backup operation, remove either CPU-355 board.

4. Turn on the power of the PFV-SP series.
5. Start the terminal software of the personal computer.
6. Set S804 on the CPU-355 board to “9”, then press S1201 (RESET).
   The board information is displayed on the terminal screen.
   To check the board information of the CN-2334 board or CN-2335 board, press the F2 key.

Note

Never press the F4 key. Otherwise, the information in the ROM is rewritten.
In case that the F4 key is accidentally pressed, rewrite the data to the correct information according to the procedure in “1-6-3. EEPROM”.

Example of CPU-355 board information

```
I2C EDIT MODE

CPU-355 I2C EEPROM DATA
Vendor Name       16Byte   (Sony Corporation)
Product Name      40Byte   (ROUTING SWITCHER CONTROLLER    )
Function          16Byte   (ROUTER CTRL    )
Model Name        16Byte   (HKSP-R80    )
Model Spec        8Byte    (SYM     )
Board Name        8Byte    (CPU-355 )
Board Spec        16Byte   (1-685-750-12    )
Serial No.        8Byte    (10005    )
Original Version  8Byte    (1.00    )
Revised Version   8Byte    (1.00    )
Frame max current 8Byte    (       )
Service No.       4Byte    (   )
Service Comment   20Byte   (                )


F1:CPU-355 F2:CN-2334 F3:Read F4:Write
```

1-8. Writing the MAC Address

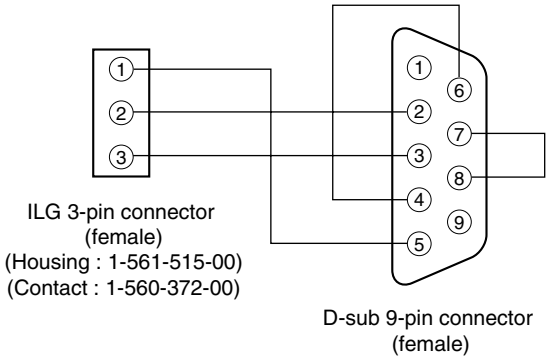
The MAC address means the serial number that is indicated on the seal (E-2) on the CPU-355 board.
This is one of the important information when connecting the PFV-SP series to any network.
Be sure to perform the following work when IC302 (H-2) on the CPU-355 board is replaced.

Required Items

- Personal computer
  IBM PC/AT-compatible machine with terminal software installed
- 3-pin to 9-pin connector tool
  (Sony part number: 1-791-786-11)

Note

The 3-pin to 9-pin connector tool can also be prepared by connecting the ILG 3-pin connector to the D-sub 9-pin connector as shown below.



Preparation

1. Connect the 3-pin side of the 3-pin to 9-pin connector tool, to CN103 (A-2) on the CPU-355 board.
   Connect the 9-pin side of the connector tool to the serial port of the personal computer.
2. Turn on the power of the personal computer.
3. Set the communication conditions of the personal computer as shown below.

Baud rate	9600 bps
Data bit	8 bit
Parity	No
Stop bit	1 bit
Flow control	No

4. Turn on the power of the PFV-SP series.

Setting the MAC Address

1. Start up the terminal software of the personal computer and press Enter.
2. Type the following command from the terminal software of the personal computer.
   [MACaddress(0x∗,0x∗,0x∗,0x∗,0x∗,0x∗)]
   Type the MAC address in place of the ∗-position with 6-segment character string in hexadecimal.
3. Press Enter.
4. Check that the typed MAC address appears after “MAC address is” on the display.

<Display example (When the MAC address is "23.1.3e.ac.f2.0")>

-> MACaddress(0x23,0x1,0x3E,0xAC,0xF2,0x0)
MAC address is 23, 1, 3e, ac, f2, 0
value = 39 = 0x27 ='''

Note

The indication "value = 39 = 0x27 = ''' " on the display has no relation with the MAC address value.

1-9. Upgrading the PLD Version

This section describes how to upgrade the PLD version of each board using the PLD download tool.

Equipment required

- A personal computer equipped with the parallel port (For the target OS, refer to the Operation Manual supplied with the PLD Download Tool.)
- PLD Download Tool (J-7120-140-A)

Connection

1. Connect the PLD Download Tool to the parallel port of the personal computer.
2. Connect the cable (8-pin connector) coming from the PLD Download Tool to the following connectors on the target boards.

Target board	Ref. No.	Project file No.
CPU-355 board	CN201	E-000-000-66-xx

Note

No setup is required in the CPU-355 board.

Downloading

1. Start up the PLD Download Tool Software on the personal computer. After reading data for upgrading the PLD version, write the data and confirm that is correctly written.

   Note

   For details of the operation, refer to the Operation Manual of the PLD Download Tool.

2. Upon completion of downloading, turn off the main power of the PFV-SP series once.

1-10. Upgrading Software Version

The procedure to upgrade the main software (R80 and BZR-IF810) and the software (installed in IF-844 board or IF-1160 board) for S-BUS control is described in this Section.
When using the HKSP-R80 with backup operation, upgrade both CPU-355 boards.

Note

Before starting the upgrade, disconnect all the cables connected to other devices and separate the HKSP-R80 from the system in operation.

There are following two methods to upgrade the software version.

- Upgrading via DATA connector (Connected with Ethernet cable)
- Upgrading via REMOTE3 connector (Connected with RS-232C cable)

The upgrade procedures of the two methods are the same except for step 8. However, the program size and communication time are different between the methods. Following table shows the approx. time required for upgrade.

Main software

Serial port	Transfer time (sec.)	Flash ROM writing time (sec.)	Total time (sec.)
Ethernet	30	80	110
RS-232C	2300 (38 min.)	80	2380

S-BUS control software

Serial port	Transfer time (sec.)	Flash ROM writing time (sec.)	Total time (sec.)
Ethernet	1	10	11
RS-232C	5	10	15

Required Equipment

- Personal computer
  IBM PC/AT-compatible machine with terminal software installed
- Ethernet cable or RS-232C cable
- Application software
  For obtaining the software, contact your local Sony Sales Office/Service Center.

Preparation

1. Upload the setting data using the BZR-20.
   (Refer to Section 9-3 of the installation manual.)
2. Turn off the power of the PFV-SP series, then disconnect all the cables connected to other devices from the connector panel of the HKSP-R80.
3. Set S803-3 on the CPU-355 board to ON and set the HKSP-R80 as a primary station.
   (You can set S803-1, 2 and 4 to 8 to any position.)
   Note
   When using the HKSP-R80 with backup operation, set S803-3 of both CPU-355 boards to ON.
4. Connect the HKSP-R80 to the personal computer.
   When connecting with Ethernet :
   Connect the LAN hub to the DATA connector using the Ethernet cable.
   When connecting with RS-232C :
   Connect the personal computer to the REMOTE3 connector using the RS-232C cable.

Writing

1. Turn on the power of the personal computer.
2. Copy the application software to the personal computer.
3. Turn on the power of the PFV-SP series.
4. Start the terminal software of the personal computer.
5. Set the communication conditions of the personal computer.
   When connecting with Ethernet :
   Set the same IP address as the HKSP-R80 to TCP/IP of the terminal software. Set the same port number displayed on the terminal screen, “TERM PORT”. Default setting is 1001.
   Note
   For the details of the terminal screen, refer to “4. Setting of IP Address” of the installation manual supplied with the HKSP-R80.

When connecting with RS-232C :

Baud rate	38400 bps
Data	8 bit
Parity	None
Stop	1 bit
Flow control	None

6. Send the application program file from the terminal software to the HKSP-R80.
   While sending the file, the received data is sequentially displayed on the status indicator of the indicator panel.
   After completion of the sending, the data is written in the flash ROM. Then, the CPU-355 board is automatically reset.
7. Exit from the terminal software.
8. When connecting with Ethernet, initialize the information about the personal computer networking. (Refer to "Example of initialization" shown below.)
   Note
   When connecting with RS-232C, initialization is not required.
9. When using the HKSP-R80 with backup operation, repeat steps 4 to 8 and also upgrade the backup CPU-355 board (in the slot with larger number).
   Note
   Check that the backup CPU-355 board operates as main CPU (ACTIVE indicator is lit).
10. Exit from the terminal software.
11. Set S804 on both main and backup CPU-355 boards to "D" (initialization).
12. Set S804 on both CPU-355 boards to "0" (normal operation).
13. Return the setting of S803 on both CPU-355 boards.
14. Download the setting data using the BZR-20. (Refer to Section 9-4 of the installation manual.)

Example of initialization

(When using the DOS/V-compatible personal computer in which Windows 98/2000/XP is used as OS.)

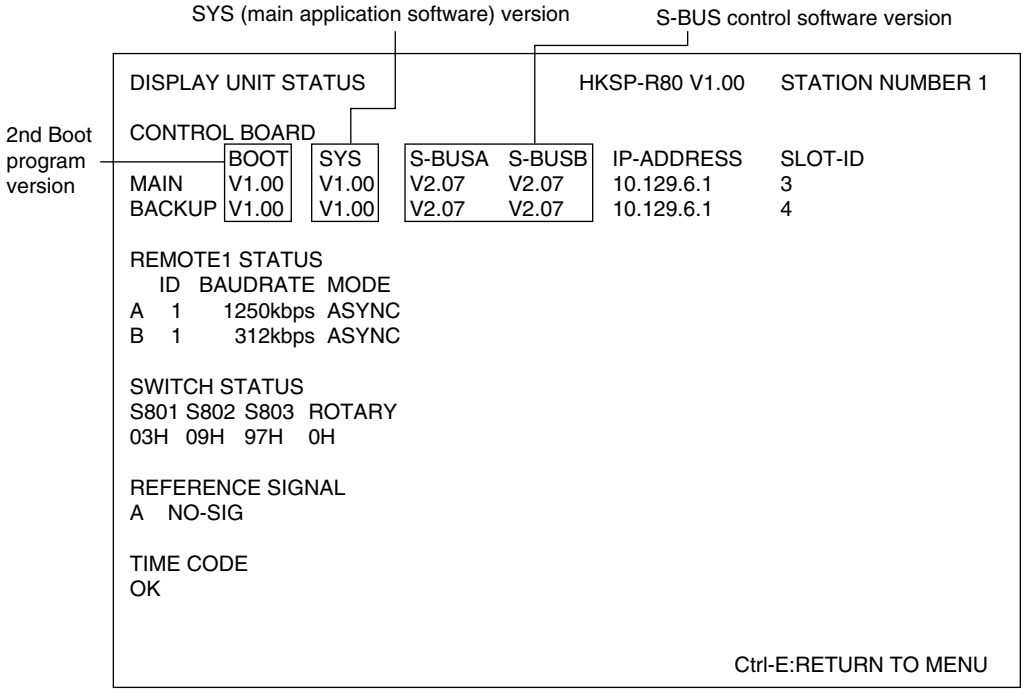
1. Open the MS-DOS prompt screen for Windows 98 or command prompt screen for Windows 2000/XP.
2. Type the following command from the command line.
   c:¥>arp␣-d␣192.168.0.135
   Note
   c:¥> indicates the prompt of the command line which varies depending on the setting. ␣ shows space. The value after -d is the IP address.
3. Press the Enter key.

1-11. Confirmation of Version

The software version can be confirmed by “V:DISPLAY UNIT STATUS” menu of the secondary station. Confirm each version of BOOT (when writing 2nd Boot), SYS (when writing main application software), and S-BUS A and B (S-BUS control software) in “V:DISPLAY UNIT STATUS”.

Note

For the procedure of indicating “V:DISPLAY UNIT STATUS” menu of the secondary station, refer to the system setup manual supplied with the HKSP-R80.



Section 2
Spare Parts

CN ASSEMBLY

Ref. No. or Q'ty	Part No.	SP	Description
4pcs	3-637-901-01	s	SCREW M2.6X5
2pcs	7-682-903-01	s	SCREW +PWH 3X5

CN-2334 BOARD (SUFFIX 11)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8345-251-A	s	MOUNTED CIRCUIT BOARD, CN-2334
2pcs	3-711-649-01	s	STUD
2pcs	7-682-903-01	s	SCREW +PWH 3X5
C101	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C102	1-127-715-11	s	CAPACITOR,CERAMIC 0.22MF B1608
C103	1-135-346-11	s	CAP, SOLID ELECT 39MF 16V
C104	1-135-346-11	s	CAP, SOLID ELECT 39MF 16V
C105	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C106	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C107	1-135-343-11	s	CAPACITOR,SOLID ELECT 120MF
C108	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C109	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C201	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C202	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C203	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C205	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C206	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C207	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C208	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C209	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C211	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C301	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C302	1-135-968-21	s	CAP, CERAMIC 1000PF (5750)
CN201	1-779-195-11	s	CONNECTOR, D SUB 9P
CN202	1-779-195-11	s	CONNECTOR, D SUB 9P
CN301	1-794-441-11	s	MODULAR JACK (8P)
D101	8-719-064-52	s	DIODE CL-191YG-CD-T
D102	8-719-072-83	s	DIODE MBRS340T3
D103	8-719-064-52	s	DIODE CL-191YG-CD-T
D301	8-719-820-41	s	DIODE 1SS302
D302	8-719-820-41	s	DIODE 1SS302
D303	8-719-820-41	s	DIODE 1SS302
D304	8-719-820-41	s	DIODE 1SS302
E1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E2	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E3	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E4	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E5	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E6	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E7	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E8	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E9	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E10	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E11	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E12	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E13	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E14	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
F101	⚠ 1-533-998-11	s	FUSE,CHIP 1A/125V (6125)
IC101	8-759-485-63	s	IC MAX1626ESA-TE2
IC102	8-759-678-06	s	IC CAT24WC02JI-TE13
IC202	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC203	8-759-523-81	s	IC TC74VHC08FT(EL)
IC205	8-759-644-10	s	IC MAX3491CSD-TG068

(CN-2334 BOARD (SUFFIX 11))

Ref. No. or Q'ty	Part No.	SP	Description
IC206	8-759-644-10	s	IC MAX3491CSD-TG068
IC207	8-759-644-10	s	IC MAX3491CSD-TG068
IC208	8-759-644-10	s	IC MAX3491CSD-TG068
IC301	8-759-098-12	s	IC TD62083F
L101	1-416-344-11	s	COIL, CHOKE 10UH
L102	1-416-344-11	s	COIL, CHOKE 10UH
PS101 ⚠	1-576-398-21	s	RINK, IC (CCP2E63)
Q101	8-729-045-53	s	TRANSISTOR SI4431DY-T1
Q201	8-729-427-72	s	TRANSISTOR XP4501-TXE
Q202	8-729-427-72	s	TRANSISTOR XP4501-TXE
Q203	8-729-427-72	s	TRANSISTOR XP4501-TXE
Q204	8-729-427-72	s	TRANSISTOR XP4501-TXE
Q301	8-729-921-93	s	TRANSISTOR 2SB1182F5-QR
Q302	8-729-021-09	s	TRANSISTOR RN4904(TE85R)
Q303	8-729-021-09	s	TRANSISTOR RN4904(TE85R)
Q304	8-729-021-09	s	TRANSISTOR RN4904(TE85R)
Q305	8-729-021-09	s	TRANSISTOR RN4904(TE85R)
R102	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R103	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R104	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R105	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R106	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R107	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R108	1-219-611-21	s	RESISTOR, CHIP 0.047 1W
R109	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R110	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R111	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R112	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R115	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R116	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R201	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R202	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R203	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R204	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R205	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R207	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R209	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R210	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R211	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R212	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R213	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R214	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R215	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R216	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R217	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R218	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R219	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R220	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R221	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R222	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R223	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R224	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R225	1-220-221-11	s	RESISTOR CHIP 100 1/2W (4532)
R230	1-220-221-11	s	RESISTOR CHIP 100 1/2W (4532)
R234	1-220-221-11	s	RESISTOR CHIP 100 1/2W (4532)
R236	1-220-221-11	s	RESISTOR CHIP 100 1/2W (4532)
R245	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)

(CN-2334 BOARD (SUFFIX 11))

Ref. No. or Q'ty	Part No.	SP	Description
R246	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R247	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R248	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R249	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R250	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R251	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R252	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R253	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R254	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R255	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R256	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R301	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R302	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R303	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R304	1-218-665-11	s	RESISTOR,CHIP 75 1/16W (1608)
R305	1-218-665-11	s	RESISTOR,CHIP 75 1/16W (1608)
RY301	1-515-757-11	s	RELAY
RY302	1-515-757-11	s	RELAY
RY303	1-515-757-11	s	RELAY
RY304	1-515-757-11	s	RELAY
TP101	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP201	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP202	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP203	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP204	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP205	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP206	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP207	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP208	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP209	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP210	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP301	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)

CN-2334 BOARD (SUFFIX 12)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8345-251-B	s	MOUNTED CIRCUIT BOARD, CN-2334
2pcs	3-711-649-01	s	STUD
2pcs	7-682-903-01	s	SCREW +PWH 3X5
C104	1-135-346-21	s	CAP, ELECT 39MF (6.3X6)
C105	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C106	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C108	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C109	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C201	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C202	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C203	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C204	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C205	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C206	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C207	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C208	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C209	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C211	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C301	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C302	1-135-968-21	s	CAP, CERAMIC 1000PF (5750)
C401	1-126-396-21	s	CAP, CHIP ELECT 47MF (6.3X5.7)
C402	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C403	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C404	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C405	1-126-396-21	s	CAP, CHIP ELECT 47MF (6.3X5.7)
C406	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C411	1-126-396-21	s	CAP, CHIP ELECT 47MF (6.3X5.7)
C412	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C413	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C414	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C415	1-126-396-21	s	CAP, CHIP ELECT 47MF (6.3X5.7)
C416	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
CN201	1-779-195-11	s	CONNECTOR, D SUB 9P
CN202	1-779-195-11	s	CONNECTOR, D SUB 9P
CN301	1-794-441-11	s	MODULAR JACK (8P)
D101	8-719-064-52	s	DIODE CL-191YG-CD-T
D103	8-719-064-52	s	DIODE CL-191YG-CD-T
D301	8-719-820-42	s	DIODE 1SS302-TE85L
D302	8-719-820-42	s	DIODE 1SS302-TE85L
D303	8-719-820-42	s	DIODE 1SS302-TE85L
D304	8-719-820-42	s	DIODE 1SS302-TE85L
D401	8-719-069-28	s	DI 1SS400FJTE61
D402	8-719-069-28	s	DI 1SS400FJTE61
D403	8-719-069-28	s	DI 1SS400FJTE61
D411	8-719-069-28	s	DI 1SS400FJTE61
D412	8-719-069-28	s	DI 1SS400FJTE61
D413	8-719-069-28	s	DI 1SS400FJTE61
E1	1-535-757-21	s	CHIP, CHECKER
E2	1-535-757-21	s	CHIP, CHECKER
E3	1-535-757-21	s	CHIP, CHECKER
E4	1-535-757-21	s	CHIP, CHECKER
E5	1-535-757-21	s	CHIP, CHECKER
E6	1-535-757-21	s	CHIP, CHECKER
E7	1-535-757-21	s	CHIP, CHECKER
E8	1-535-757-21	s	CHIP, CHECKER
E9	1-535-757-21	s	CHIP, CHECKER
E10	1-535-757-21	s	CHIP, CHECKER

(CN-2334 BOARD (SUFFIX 12))

Ref. No. or Q'ty	Part No.	SP	Description
E11	1-535-757-21	s	CHIP, CHECKER
E12	1-535-757-21	s	CHIP, CHECKER
E13	1-535-757-21	s	CHIP, CHECKER
E14	1-535-757-21	s	CHIP, CHECKER
F101	⚠ 1-533-998-21	s	FUSE, (SMD) (1A/125V)
F102	⚠ 1-533-998-21	s	FUSE, (SMD) (1A/125V)
FB201	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB202	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB203	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB204	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB205	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB206	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB207	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB208	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB301	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB302	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB303	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB304	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB305	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB306	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
IC102	6-710-018-01	s	IC CAT24C02WI-GT3
IC202	8-759-523-80	s	IC TC74VHC04FT(EL)
IC203	8-759-523-81	s	IC TC74VHC08FT(EL)
IC205	8-759-644-10	s	IC MAX3491CSD+TG068
IC206	8-759-644-10	s	IC MAX3491CSD+TG068
IC207	8-759-644-10	s	IC MAX3491CSD+TG068
IC208	8-759-644-10	s	IC MAX3491CSD+TG068
IC301	8-759-586-02	s	IC TD62083AFG(S,EL)
IC401	6-709-014-01	s	IC UPC2933BT-E2-AZ
IC411	6-709-014-01	s	IC UPC2933BT-E2-AZ
L102	1-416-344-21	s	COIL, CHOKE 10UH
L401	1-416-344-21	s	COIL, CHOKE 10UH
L411	1-416-344-21	s	COIL, CHOKE 10UH
PS101	⚠ 1-576-398-21	s	RINK, IC (CCP2E63) (2.5A/72V)
Q201	8-729-013-24	s	TR HN1C01FU
Q202	8-729-013-24	s	TR HN1C01FU
Q203	8-729-013-24	s	TR HN1C01FU
Q204	8-729-013-24	s	TR HN1C01FU
Q301	8-729-921-95	s	TRANSISTOR 2SB1182F5-QR-TLQR
Q302	6-551-041-01	s	TR RN4904
Q303	6-551-041-01	s	TR RN4904
Q304	6-551-041-01	s	TR RN4904
Q305	6-551-041-01	s	TR RN4904
Q450	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q451	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q452	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q453	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q454	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q455	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q456	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q457	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q458	8-729-929-09	s	TRANSISTOR DTC123JE-TL
R103	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R104	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R105	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R106	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R107	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)

(CN-2334 BOARD (SUFFIX 12))

Ref. No. or Q'ty	Part No.	SP	Description
R109	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R110	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R111	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R112	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R115	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R116	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R201	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R202	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R203	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R204	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R205	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R207	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R209	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R210	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R211	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R212	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R213	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R214	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R215	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R216	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R217	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R218	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R219	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R220	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R221	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R222	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R223	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R224	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R225	1-220-221-91	s	RES,SQUARE TYPE CHIP 100(4532)
R230	1-220-221-91	s	RES,SQUARE TYPE CHIP 100(4532)
R234	1-220-221-91	s	RES,SQUARE TYPE CHIP 100(4532)
R236	1-220-221-91	s	RES,SQUARE TYPE CHIP 100(4532)
R245	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R246	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R247	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R248	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R249	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R250	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R251	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R252	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R253	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R254	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R255	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R256	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R301	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R302	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R303	1-245-843-11	s	RES, METAL FILM(SMD)4.3K(1608)
R304	1-245-761-11	s	RES, METAL FILM(SMD) 75 (1608)
R305	1-245-761-11	s	RES, METAL FILM(SMD) 75 (1608)
R451	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R452	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R453	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R454	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R455	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R456	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R457	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R458	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R459	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R460	1-216-864-91	s	CONDUCTOR, CHIP (1608)

(CN-2334 BOARD (SUFFIX 12))

Ref. No. or Q'ty	Part No.	SP	Description
R461	1-216-864-91	s	CONDUCTOR, CHIP (1608)
RY301	1-515-757-11	s	RELAY
RY302	1-515-757-11	s	RELAY
RY303	1-515-757-11	s	RELAY
RY304	1-515-757-11	s	RELAY
TP101	1-535-757-21	s	CHIP, CHECKER
TP201	1-535-757-21	s	CHIP, CHECKER
TP202	1-535-757-21	s	CHIP, CHECKER
TP203	1-535-757-21	s	CHIP, CHECKER
TP204	1-535-757-21	s	CHIP, CHECKER
TP205	1-535-757-21	s	CHIP, CHECKER
TP206	1-535-757-21	s	CHIP, CHECKER
TP207	1-535-757-21	s	CHIP, CHECKER
TP208	1-535-757-21	s	CHIP, CHECKER
TP209	1-535-757-21	s	CHIP, CHECKER
TP210	1-535-757-21	s	CHIP, CHECKER
TP301	1-535-757-21	s	CHIP, CHECKER

CN-2335 BOARD (SUFFIX 11)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8345-252-A	s	MOUNTED CIRCUIT BOARD, CN-2335
4pcs	7-621-770-87	s	SCREW +B2.6X5
C101	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C102	1-127-715-11	s	CAPACITOR,CERAMIC 0.22MF B1608
C103	1-135-346-11	s	CAP, SOLID ELECT 39MF 16V
C105	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C106	1-135-343-11	s	CAPACITOR,SOLID ELECT 120MF
C107	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C108	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C201	1-162-917-11	s	CAPACITOR,CERAMIC 15PF/50V CH
C202	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C203	1-162-917-11	s	CAPACITOR,CERAMIC 15PF/50V CH
C204	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C205	1-162-917-11	s	CAPACITOR,CERAMIC 15PF/50V CH
C206	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C207	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C208	1-126-390-11	s	CAPACITOR ELECT 22MF/6.3V(105)
C209	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C210	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C211	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C212	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C213	1-126-390-11	s	CAPACITOR ELECT 22MF/6.3V(105)
C214	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C215	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C217	1-126-390-11	s	CAPACITOR ELECT 22MF/6.3V(105)
C218	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C219	1-125-827-11	s	CAPACITOR,CERAMIC 1MF/25V
C220	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C221	1-125-891-11	s	CAPACITOR CERAMIC 0.47MF/10V
C222	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C223	1-125-891-11	s	CAPACITOR CERAMIC 0.47MF/10V
C224	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C225	1-165-176-11	s	CAPACITOR,CERAMIC 47000PF/16V
C226	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C227	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C228	1-125-891-11	s	CAPACITOR CERAMIC 0.47MF/10V
C229	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C230	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C231	1-165-176-11	s	CAPACITOR,CERAMIC 47000PF/16V
CN201	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
CN202	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
CN203	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
CN204	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
CN205	1-565-388-11	o	CONNECTOR
D101	8-719-072-83	s	DIODE MBRS340T3
D102	8-719-064-52	s	DIODE CL-191YG-CD-T
D201	8-719-800-76	s	DIODE 1SS226
D202	8-719-800-76	s	DIODE 1SS226
D203	8-719-800-76	s	DIODE 1SS226
D204	8-719-016-87	s	DIODE 02DZ2.2-TPH3
D205	8-719-016-87	s	DIODE 02DZ2.2-TPH3
E1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E2	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E3	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E4	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E5	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E6	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)

Ref. No. or Q'ty	Part No.	SP	Description
E7	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E8	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E9	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E10	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E11	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E12	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E13	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E14	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
F101	⚠ 1-533-998-11	s	FUSE,CHIP 1A/125V (6125)
FB201	1-469-094-11	s	FERRITE, EMI (SMD)
FB202	1-469-094-11	s	FERRITE, EMI (SMD)
FB203	1-469-094-11	s	FERRITE, EMI (SMD)
IC101	8-759-485-63	s	IC MAX1626ESA-TE2
IC102	8-759-678-06	s	IC CAT24WC02JI-TE13
IC201	8-759-988-13	s	IC LM393PS
IC202	8-759-988-13	s	IC LM393PS
IC203	8-759-196-96	s	IC TC7SH08FU (TE85R)
IC204	8-759-980-44	s	IC TL712CPS
IC205	8-759-980-44	s	IC TL712CPS
IC206	8-759-980-44	s	IC TL712CPS
IC207	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC208	8-759-472-94	s	IC MAX3241CAI-TE2
IC209	8-759-549-15	s	IC SN74LV245APWR
IC210	8-759-271-86	s	IC TC7SH04FU
IC211	8-759-523-81	s	IC TC74VHC08FT(EL)
IC212	8-759-669-45	s	IC TL062CPWR-12
IC213	8-759-271-86	s	IC TC7SH04FU
L101	1-416-344-11	s	COIL, CHOKE 10UH
Q101	8-729-045-53	s	TRANSISTOR SI4431DY-T1
Q201	8-729-021-09	s	TRANSISTOR RN4904(TE85R)
Q202	8-729-021-09	s	TRANSISTOR RN4904(TE85R)
Q203	8-729-021-09	s	TRANSISTOR RN4904(TE85R)
Q204	8-729-230-60	s	TRANSISTOR 2SA1586-YG
Q205	8-729-122-63	s	TRANSISTOR 2SA1226-E4
Q206	8-729-230-60	s	TRANSISTOR 2SA1586-YG
Q207	8-729-230-60	s	TRANSISTOR 2SA1586-YG
Q208	8-729-122-63	s	TRANSISTOR 2SA1226-E4
Q209	8-729-122-63	s	TRANSISTOR 2SA1226-E4
R102	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R107	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R108	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R109	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R110	1-219-611-21	s	RESISTOR, CHIP 0.047 1W
R113	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R114	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R115	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R116	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R117	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R120	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R121	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R122	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R201	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R202	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R203	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R204	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R205	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R206	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R207	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R208	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R209	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R210	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R211	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R212	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R213	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R214	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R215	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R216	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R217	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R218	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R219	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R220	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R221	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R222	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R223	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R224	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R225	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R226	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R227	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R228	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R229	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R230	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R231	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R232	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R233	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R234	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R235	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R236	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R237	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R238	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R239	1-218-722-11	s	RESISTOR, CHIP 18K 1/16W 1608
R240	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R241	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R242	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R243	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R244	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R245	1-218-722-11	s	RESISTOR, CHIP 18K 1/16W 1608
R246	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R247	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R248	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R249	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R250	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R251	1-218-722-11	s	RESISTOR, CHIP 18K 1/16W 1608
R252	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R253	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R254	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R255	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R256	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R257	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R258	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R259	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R260	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R261	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R262	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R263	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R264	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R265	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)

(CN-2335 BOARD (SUFFIX 11))

Ref. No. or Q'ty	Part No.	SP	Description
R266	1-218-738-11	s	RESISTOR,CHIP 82K 1/16W(1608)
R267	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R268	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R269	1-216-857-11	s	RESISTOR,CHIP 1M 1/10W(1608)
R270	1-218-728-11	s	RESISTOR,CHIP 33K 1/16W
R271	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R272	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R273	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R274	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R275	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R276	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R277	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R278	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R279	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R280	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R281	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R282	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R283	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R284	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R285	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R286	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
TP101	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP102	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP201	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP202	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP203	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)

CN-2335 BOARD (SUFFIX 12)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8345-252-B	s	MOUNTED CIRCUIT BOARD, CN-2335
4pcs	2-655-586-01	s	SCREW +B M2.6 EG
C105	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C107	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C108	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C201	1-162-917-91	s	CAP, CERAMIC 15PF CH 1608
C202	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3225
C203	1-162-917-91	s	CAP, CERAMIC 15PF CH 1608
C204	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3225
C205	1-162-917-91	s	CAP, CERAMIC 15PF CH 1608
C206	1-127-692-91	s	CAP, CHIP CERAMIC 10MF B 3225
C207	1-164-156-91	s	CAP, CHIP CERAMIC 0.1MF F 1608
C208	1-126-390-21	s	CAP, CHIP ELECT 22MF (4X5.7)
C209	1-164-227-91	s	CAP,CERAMIC 22000PF B 1608
C210	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C211	1-164-227-91	s	CAP,CERAMIC 22000PF B 1608
C212	1-164-227-91	s	CAP,CERAMIC 22000PF B 1608
C213	1-126-390-21	s	CAP, CHIP ELECT 22MF (4X5.7)
C214	1-164-156-91	s	CAP, CHIP CERAMIC 0.1MF F 1608
C215	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C216	1-164-156-91	s	CAP, CHIP CERAMIC 0.1MF F 1608
C217	1-126-390-21	s	CAP, CHIP ELECT 22MF (4X5.7)
C218	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C219	1-125-827-91	s	CAP, CHIP CERAMIC 1MF B
C220	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C221	1-125-891-91	s	CAP, CHIP CERAMIC0.47MF B 1608
C222	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C223	1-125-891-91	s	CAP, CHIP CERAMIC0.47MF B 1608
C224	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C225	1-165-176-91	s	CAP,CERAMIC 47000PF B 1608
C226	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C227	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C228	1-125-891-91	s	CAP, CHIP CERAMIC0.47MF B 1608
C229	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C230	1-164-230-91	s	CAP,CERAMIC 220PF CH 1608
C231	1-165-176-91	s	CAP,CERAMIC 47000PF B 1608
C401	1-126-396-21	s	CAP, CHIP ELECT 47MF (6.3X5.7)
C402	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C403	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C404	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C405	1-126-396-21	s	CAP, CHIP ELECT 47MF (6.3X5.7)
C406	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C411	1-126-396-21	s	CAP, CHIP ELECT 47MF (6.3X5.7)
C412	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C413	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
C414	1-107-826-91	s	CAP, CHIP CERAMIC 0.1MF B
C415	1-126-396-21	s	CAP, CHIP ELECT 47MF (6.3X5.7)
C416	1-127-715-91	s	CAP,CHIP CERAMIC 0.22MF B 1608
CN201	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
CN202	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
CN203	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
CN204	1-793-324-11	o	CONNECTOR, COAXIAL (BNC TYPE)
CN205	1-565-388-11	o	CONNECTOR, D-SUB 9P
D102	8-719-064-52	s	DIODE CL-191YG-CD-T
D201	8-719-104-22	s	DIODE 1SS123-T1
D202	8-719-104-22	s	DIODE 1SS123-T1
D203	8-719-104-22	s	DIODE 1SS123-T1
D204	8-719-016-87	s	DIODE 02DZ2.2-TPH3

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Ref. No. or Q'ty	Part No.	SP	Description
D205	8-719-016-87	s	DIODE 02DZ2.2-TPH3
D401	8-719-069-28	s	DI 1SS400FJTE61
D402	8-719-069-28	s	DI 1SS400FJTE61
D403	8-719-069-28	s	DI 1SS400FJTE61
D411	8-719-069-28	s	DI 1SS400FJTE61
D412	8-719-069-28	s	DI 1SS400FJTE61
D413	8-719-069-28	s	DI 1SS400FJTE61
E1	1-535-757-21	s	CHIP, CHECKER
E2	1-535-757-21	s	CHIP, CHECKER
E3	1-535-757-21	s	CHIP, CHECKER
E4	1-535-757-21	s	CHIP, CHECKER
E5	1-535-757-21	s	CHIP, CHECKER
E6	1-535-757-21	s	CHIP, CHECKER
E7	1-535-757-21	s	CHIP, CHECKER
E8	1-535-757-21	s	CHIP, CHECKER
E9	1-535-757-21	s	CHIP, CHECKER
E10	1-535-757-21	s	CHIP, CHECKER
E11	1-535-757-21	s	CHIP, CHECKER
E12	1-535-757-21	s	CHIP, CHECKER
E13	1-535-757-21	s	CHIP, CHECKER
E14	1-535-757-21	s	CHIP, CHECKER
F101	⚠ 1-533-998-21	s	FUSE, (SMD) (1A/125V)
F102	⚠ 1-533-998-21	s	FUSE, (SMD) (1A/125V)
FB201	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB202	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB203	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB204	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB205	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB206	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB207	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB208	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
FB209	1-469-100-21	s	FERRITE, EMI (SMD) (1608)
IC102	6-710-018-01	s	IC CAT24C02WI-GT3
IC201	6-710-750-01	s	IC LM393PSRG4
IC202	6-710-750-01	s	IC LM393PSRG4
IC203	6-706-487-01	s	IC TC7SH08FU
IC204	8-759-327-14	s	IC TL712CPSR
IC205	8-759-327-14	s	IC TL712CPSR
IC206	8-759-327-14	s	IC TL712CPSR
IC207	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC208	8-759-472-94	s	IC MAX3241CAI+TG068
IC209	8-759-549-15	s	IC SN74LV245APWR
IC210	6-706-484-01	s	IC TC7SH04FU
IC211	8-759-523-81	s	IC TC74VHC08FT(EL)
IC212	8-759-669-45	s	IC TL062CPWR-12
IC213	6-706-484-01	s	IC TC7SH04FU
IC401	6-709-015-01	s	IC UPC2905BT-E2-AZ
IC411	6-709-015-01	s	IC UPC2905BT-E2-AZ
L401	1-416-344-21	s	COIL, CHOKE 10UH
L411	1-416-344-21	s	COIL, CHOKE 10UH
Q201	6-551-042-01	s	TR RN4905
Q202	6-551-042-01	s	TR RN4905
Q203	6-551-042-01	s	TR RN4905
Q204	8-729-230-61	s	TRANSISTOR 2SA1586YG-TE85L
Q205	8-729-142-11	s	TRANSISTOR 2SA1226-T1E3E4
Q206	8-729-230-61	s	TRANSISTOR 2SA1586YG-TE85L

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Ref. No. or Q'ty	Part No.	SP	Description
Q207	8-729-230-61	s	TRANSISTOR 2SA1586YG-TE85L
Q208	8-729-142-11	s	TRANSISTOR 2SA1226-T1E3E4
Q209	8-729-142-11	s	TRANSISTOR 2SA1226-T1E3E4
Q450	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q451	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q452	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q453	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q454	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q455	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q456	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q457	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q458	8-729-929-09	s	TRANSISTOR DTC123JE-TL
R107	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R108	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R109	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R113	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R114	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R115	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R116	1-245-816-11	s	RES, METAL FILM(SMD)2.2K(1608)
R117	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R120	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R121	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R122	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R123	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R201	1-245-843-11	s	RES, METAL FILM(SMD)4.3K(1608)
R202	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R203	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R204	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R205	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R206	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R207	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R208	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R209	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R210	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R211	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R212	1-245-843-11	s	RES, METAL FILM(SMD)4.3K(1608)
R213	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R214	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R215	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R216	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R217	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R218	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R219	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R220	1-245-764-11	s	RES, METAL FILM(SMD) 100(1608)
R221	1-245-843-11	s	RES, METAL FILM(SMD)4.3K(1608)
R222	1-245-843-11	s	RES, METAL FILM(SMD)4.3K(1608)
R223	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R224	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R225	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R226	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R227	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R228	1-245-843-11	s	RES, METAL FILM(SMD)4.3K(1608)
R229	1-245-843-11	s	RES, METAL FILM(SMD)4.3K(1608)
R230	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R231	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R232	1-245-768-11	s	RES, METAL FILM(SMD) 150(1608)
R233	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R234	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)

(CN-2335 BOARD (SUFFIX 12))

Ref. No. or Q'ty	Part No.	SP	Description
R235	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R236	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R237	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R238	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R239	1-245-858-11	s	RES, METAL FILM(SMD) 18K(1608)
R240	1-245-856-11	s	RES, METAL FILM(SMD) 15K(1608)
R241	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R242	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R243	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R244	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R245	1-245-858-11	s	RES, METAL FILM(SMD) 18K(1608)
R246	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R247	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R248	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R249	1-245-808-11	s	RES, METAL FILM(SMD) 1K (1608)
R250	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R251	1-245-858-11	s	RES, METAL FILM(SMD) 18K(1608)
R252	1-245-856-11	s	RES, METAL FILM(SMD) 15K(1608)
R253	1-245-810-11	s	RES, METAL FILM(SMD)1.2K(1608)
R254	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R255	1-245-728-11	s	RES, METAL FILM(SMD) 22 (1608)
R256	1-245-810-11	s	RES, METAL FILM(SMD)1.2K(1608)
R257	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R258	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R259	1-245-856-11	s	RES, METAL FILM(SMD) 15K(1608)
R260	1-245-810-11	s	RES, METAL FILM(SMD)1.2K(1608)
R261	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R262	1-245-728-11	s	RES, METAL FILM(SMD) 22 (1608)
R263	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R264	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R265	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R266	1-245-894-11	s	RES, METAL FILM(SMD) 82K(1608)
R267	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R268	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R269	1-216-857-91	s	RES, CHIP 1.0M (1608)
R270	1-245-884-11	s	RES, METAL FILM(SMD) 33K(1608)
R271	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R272	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R273	1-245-852-11	s	RES, METAL FILM(SMD) 10K(1608)
R274	1-245-896-11	s	RES, METAL FILM(SMD)100K(1608)
R275	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R276	1-245-728-11	s	RES, METAL FILM(SMD) 22 (1608)
R277	1-245-728-11	s	RES, METAL FILM(SMD) 22 (1608)
R278	1-245-728-11	s	RES, METAL FILM(SMD) 22 (1608)
R279	1-245-728-11	s	RES, METAL FILM(SMD) 22 (1608)
R280	1-245-728-11	s	RES, METAL FILM(SMD) 22 (1608)
R281	1-245-728-11	s	RES, METAL FILM(SMD) 22 (1608)
R282	1-245-728-11	s	RES, METAL FILM(SMD) 22 (1608)
R283	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R284	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R285	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R286	1-245-888-11	s	RES, METAL FILM(SMD) 47K(1608)
R451	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R452	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R453	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R454	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R455	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R456	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R457	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)

(CN-2335 BOARD (SUFFIX 12))

Ref. No. or Q'ty	Part No.	SP	Description
R458	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R459	1-245-880-11	s	RES, METAL FILM(SMD) 22K(1608)
R460	1-216-864-91	s	CONDUCTOR, CHIP (1608)
R461	1-216-864-91	s	CONDUCTOR, CHIP (1608)
TP101	1-535-757-21	s	CHIP, CHECKER
TP102	1-535-757-21	s	CHIP, CHECKER
TP103	1-535-757-21	s	CHIP, CHECKER
TP201	1-535-757-21	s	CHIP, CHECKER
TP202	1-535-757-21	s	CHIP, CHECKER
TP203	1-535-757-21	s	CHIP, CHECKER

CPU-355 ASSEMBLY

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-761-434-11	s	CPU-DK MODULE(MOUNTED)
4pcs	4-886-821-11	s	SCREW,M3X6 CASE (SILVER)
1pc	7-621-759-35	s	SCREW +PSW 2.6X5
2pcs	7-682-544-04	s	SCREW +B3X3
4pcs	7-682-946-09	s	SCREW +PSW 3X5

CPU-355 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	3-166-184-01	o	LEVER, PC BOARD
2pcs	3-636-891-01	o	SPACER
4pcs	4-907-937-01	s	SUPPORT (A)
1pc	7-621-759-35	s	SCREW +PSW 2.6X5
1pc	7-626-320-11	s	SPRING PIN,3X8 (STEEL)
2pcs	7-682-946-09	s	SCREW +PSW 3X5
4pcs	7-682-947-01	s	SCREW +PSW 3X6
2pcs	9-911-841-99	s	CUSHION,METER
BT501	⚠ 1-528-174-31	s	BATTERY,LITHIUM CR2032
	1-756-076-11	s	HOLDER, LITHIUM BATTERY
C101	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C102	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C104	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C106	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C107	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C108	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C109	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C110	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C201	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C202	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C203	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C205	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C206	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C207	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C208	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C209	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C210	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C211	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C212	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C213	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C214	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C215	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C217	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C218	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C219	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C220	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C221	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C222	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C223	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C224	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C225	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C226	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C227	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C228	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C229	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C230	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C231	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C232	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C233	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C234	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C235	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C236	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C237	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C301	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C302	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C303	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C304	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C305	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C306	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C307	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C308	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C309	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C310	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C311	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C312	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C313	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C314	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C315	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C316	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C317	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C318	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C319	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C320	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C321	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C322	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C323	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C324	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C325	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C326	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C327	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C328	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C329	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C330	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C331	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C332	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C333	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C334	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C335	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C336	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C337	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C338	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C339	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C340	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C341	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C342	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C401	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C402	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C403	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C404	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C405	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C406	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C407	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C408	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C409	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C410	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C411	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C412	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C413	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C414	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C415	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C419	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C420	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C421	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C422	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C424	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C425	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C426	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C427	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C428	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C429	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C430	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C431	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C432	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C433	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C434	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C435	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C501	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C502	1-104-905-11	s	CAPACITOR DOUBLE LAYERS 0.22F
C503	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C504	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C505	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C506	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C507	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C601	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C602	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C603	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C604	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C605	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C701	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C702	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C703	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C704	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C705	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C706	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C707	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C708	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C709	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C710	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C711	1-162-917-11	s	CAPACITOR,CERAMIC 15PF/50V CH
C712	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C713	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C714	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C715	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C716	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C717	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C718	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C719	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C720	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C721	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C722	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C723	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C801	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C802	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C803	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C809	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C810	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C811	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C812	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C813	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C814	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C815	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C901	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C902	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C903	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C904	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C905	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1001	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C1004	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1005	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1006	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1007	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1008	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1009	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1010	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1011	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1012	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1013	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1014	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1015	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C1016	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1017	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1101	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1102	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1103	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C1104	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C1105	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C1106	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1107	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C1108	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1109	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1110	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C1111	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1112	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C1113	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C1114	1-162-908-11	s	CAPACITOR,CERAMIC 3PF/50V 1608
C1115	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1116	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C1117	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C1118	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1119	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C1120	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1121	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1201	1-127-715-11	s	CAPACITOR,CERAMIC 0.22MF B1608
C1202	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C1203	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C1204	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1205	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1206	1-165-176-11	s	CAPACITOR,CERAMIC 47000PF/16V
C1207	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C1208	1-128-401-11	s	CAPACITOR,ELECT100MF/25V(CHIP)
C1209	1-164-156-11	s	CAPACITOR,CERAMIC 0.1MF/25V F
C1210	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C1211	1-127-715-11	s	CAPACITOR,CERAMIC 0.22MF B1608
C1212	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C1213	1-125-889-11	s	CAPACITOR, C.CERAMIC 2.2MF
C1214	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1215	1-126-399-11	s	CAPACITOR ELECT 10MF/35V(CHIP)
C1216	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1217	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C1218	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1219	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1220	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C1221	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C1222	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C1223	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1224	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C1225	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1226	1-135-348-11	s	CAPACITOR,SOLID ELECT 150MF
C1227	1-135-344-11	s	CAPACITOR,SOLID ELECT 270MF
C1228	1-135-344-11	s	CAPACITOR,SOLID ELECT 270MF
C1229	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1301	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1302	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1303	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1304	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1305	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1306	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1307	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1308	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN101	1-779-419-11	s	CONNECTOR, BOARD TO BOARD 280P
CN102	1-779-677-11	s	CONNECTOR, USB (B)
CN103	1-560-357-11	o	CONNECTOR POST HEADER,ILG (3P)
CN201	1-764-080-21	s	PIN, CONNECTOR (PC BOARD) 8P
CN701	1-815-128-11	o	CONNECTOR, BOARD TO BOARD 60P
CN702	1-815-128-11	o	CONNECTOR, BOARD TO BOARD 60P
CN801	1-793-059-11	o	CONNECTOR, BOARD TO BOARD 24P
D301	8-719-064-52	s	DIODE CL-191YG-CD-T
D302	8-719-064-52	s	DIODE CL-191YG-CD-T
D303	8-719-064-52	s	DIODE CL-191YG-CD-T
D501	8-719-024-71	s	DIODE 1SS362-TE85L
D502	8-719-056-65	s	DIODE 1SS372-TE85L
D503	8-719-024-71	s	DIODE 1SS362-TE85L
D701	8-719-064-52	s	DIODE CL-191YG-CD-T
D702	8-719-064-52	s	DIODE CL-191YG-CD-T
D703	8-719-024-71	s	DIODE 1SS362-TE85L
D704	8-719-064-52	s	DIODE CL-191YG-CD-T
D705	8-719-064-52	s	DIODE CL-191YG-CD-T
D803	8-719-064-52	s	DIODE CL-191YG-CD-T
D804	8-719-064-52	s	DIODE CL-191YG-CD-T
D805	8-719-064-52	s	DIODE CL-191YG-CD-T
D806	8-719-064-52	s	DIODE CL-191YG-CD-T
D807	8-719-064-52	s	DIODE CL-191YG-CD-T
D808	8-719-064-52	s	DIODE CL-191YG-CD-T
D810	8-719-064-52	s	DIODE CL-191YG-CD-T
D901	8-719-064-52	s	DIODE CL-191YG-CD-T
D902	8-719-064-52	s	DIODE CL-191YG-CD-T
D903	8-719-064-52	s	DIODE CL-191YG-CD-T
D904	8-719-064-52	s	DIODE CL-191YG-CD-T
D1001	8-719-064-52	s	DIODE CL-191YG-CD-T
D1101	8-719-024-71	s	DIODE 1SS362-TE85L
D1102	8-719-024-71	s	DIODE 1SS362-TE85L
D1201	8-719-064-52	s	DIODE CL-191YG-CD-T
D1202	8-719-024-71	s	DIODE 1SS362-TE85L
D1204	8-719-064-52	s	DIODE CL-191YG-CD-T
D1205	8-719-024-81	s	DIODE 1SS300-TE85L
D1206	8-719-064-52	s	DIODE CL-191YG-CD-T
D1207	8-719-072-83	s	DIODE MBRS340T3
D1208	8-719-072-83	s	DIODE MBRS340T3
D1209	8-719-064-52	s	DIODE CL-191YG-CD-T
D1210	8-719-064-52	s	DIODE CL-191YG-CD-T
D1211	8-719-064-52	s	DIODE CL-191YG-CD-T
D1212	8-719-064-52	s	DIODE CL-191YG-CD-T

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Ref. No. or Q'ty	Part No.	SP	Description
D1301	8-719-024-71	s	DIODE 1SS362-TE85L
E1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E2	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E3	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E4	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E5	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E6	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E7	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E8	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E9	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E10	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E11	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E12	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E13	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E14	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E15	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E16	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E17	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E18	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E19	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E20	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E21	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E22	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E23	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E24	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
F1201	⚠ 1-533-999-11	s	FUSE CHIP 2A/125V (6125)
FB701	1-469-094-11	s	FERRITE, EMI (SMD)
IC101	8-759-669-52	s	IC SN74CBTS3306PWR-12
IC102	8-759-644-09	s	IC MAX3222ECAP-TG068
IC201	6-700-387-01	s	IC EPC2LC20-TP
IC202	8-759-549-15	s	IC SN74LV245APWR
IC203	8-759-271-86	s	IC TC7SH04FU
IC204	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC205	8-759-549-15	s	IC SN74LV245APWR
IC206	8-759-691-42	s	IC EPFQC240AB
IC207	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC209	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC210	8-759-523-81	s	IC TC74VHC08FT(EL)
IC211	8-759-656-54	s	IC TC7WH14FK(TE85R)
IC212	8-759-531-92	s	IC TC7WH04FU(TE12R)
IC213	8-759-549-15	s	IC SN74LV245APWR
IC214	8-759-271-86	s	IC TC7SH04FU
IC215	8-759-271-86	s	IC TC7SH04FU
IC301	6-700-129-01	s	IC GD82559ER
IC302	8-759-568-46	s	IC 93LC46BT/SN
IC401	8-759-475-58	s	IC TC74LCX16245AFT(EL)
IC402	8-759-475-58	s	IC TC74LCX16245AFT(EL)
IC403	8-759-475-58	s	IC TC74LCX16245AFT(EL)
IC404	8-759-475-58	s	IC TC74LCX16245AFT(EL)
IC406	8-759-475-58	s	IC TC74LCX16245AFT(EL)
IC407	8-759-475-58	s	IC TC74LCX16245AFT(EL)
IC408	8-759-578-68	s	IC SN74LVCC4245APWR
IC409	8-759-578-68	s	IC SN74LVCC4245APWR
IC410	8-759-578-68	s	IC SN74LVCC4245APWR
IC411	8-759-271-86	s	IC TC7SH04FU
IC501	6-700-108-01	s	IC RV5C387A-EZ
IC502	8-759-524-07	s	IC TC74VHC138FT(EL)

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Ref. No. or Q'ty	Part No.	SP	Description
IC601	8-759-524-07	s	IC TC74VHC138FT(EL)
IC701	8-759-524-07	s	IC TC74VHC138FT(EL)
IC702	8-759-980-44	s	IC TL712CPS
IC703	8-759-988-13	s	IC LM393PS
IC704	8-759-549-15	s	IC SN74LV245APWR
IC705	8-759-644-09	s	IC MAX3222ECAP-TG068
IC706	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC707	8-759-549-15	s	IC SN74LV245APWR
IC708	8-759-523-78	s	IC TC74VHC00FT(EL)
IC709	8-759-531-92	s	IC TC7WH04FU(TE12R)
IC710	8-759-523-81	s	IC TC74VHC08FT(EL)
IC711	8-759-196-96	s	IC TC7SH08FU (TE85R)
IC801	8-752-392-03	s	IC CXD1095BR
IC802	8-759-549-15	s	IC SN74LV245APWR
IC805	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC806	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC807	8-759-678-06	s	IC CAT24WC02JI-TE13
IC901	8-752-392-03	s	IC CXD1095BR
IC902	8-759-524-07	s	IC TC74VHC138FT(EL)
IC903	8-759-549-15	s	IC SN74LV245APWR
IC904	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC1001	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC1002	8-759-523-81	s	IC TC74VHC08FT(EL)
IC1003	6-702-562-01	s	IC TL16C752BPT
IC1004	6-702-562-01	s	IC TL16C752BPT
IC1005	6-702-562-01	s	IC TL16C752BPT
IC1006	8-759-549-15	s	IC SN74LV245APWR
IC1007	8-759-549-15	s	IC SN74LV245APWR
IC1008	8-759-644-10	s	IC MAX3491CSD-TG068
IC1009	8-759-644-10	s	IC MAX3491CSD-TG068
IC1010	8-759-271-86	s	IC TC7SH04FU
IC1011	8-759-271-86	s	IC TC7SH04FU
IC1104	8-759-710-86	s	IC NJM2233BM
IC1106	8-759-344-12	s	IC GS4981CTA
IC1107	8-759-523-81	s	IC TC74VHC08FT(EL)
IC1108	6-702-231-01	s	IC LMH6642MFX
IC1201	6-700-394-01	s	IC BA25BC0FP-TE2
IC1202	6-700-518-01	s	IC MAX4271ESA.TG068
IC1203	8-759-437-39	s	IC MB3771PF-ER
IC1204	8-759-052-52	s	IC L78M05T-FA
IC1205	6-700-984-01	s	IC MAX1715EEI-TG068
IC1206	8-759-656-54	s	IC TC7WH14FK(TE85R)
IC1207	8-759-656-54	s	IC TC7WH14FK(TE85R)
IC1208	8-759-196-96	s	IC TC7SH08FU (TE85R)
IC1301	8-759-271-86	s	IC TC7SH04FU
IC1302	8-759-271-86	s	IC TC7SH04FU
IC1303	8-759-447-77	s	IC TC7WH74FU (TE12R)
IC1304	8-759-447-77	s	IC TC7WH74FU (TE12R)
IC1306	8-759-271-86	s	IC TC7SH04FU
L1101	1-414-754-11	s	INDUCTOR 10.0UH
L1201	1-416-948-21	s	COIL, CHOKE (SMD)
L1202	1-416-948-21	s	COIL, CHOKE (SMD)
Q201	8-729-929-08	s	TRANSISTOR DTC123JE
Q202	8-729-929-08	s	TRANSISTOR DTC123JE
Q203	8-729-929-08	s	TRANSISTOR DTC123JE
Q501	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q502	8-729-122-63	s	TRANSISTOR 2SA1226-E4
Q701	8-729-122-63	s	TRANSISTOR 2SA1226-E4

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Ref. No. or Q'ty	Part No.	SP	Description
Q702	8-729-230-60	s	TRANSISTOR 2SA1586-YG
Q703	8-729-929-08	s	TRANSISTOR DTC123JE
Q803	8-729-929-08	s	TRANSISTOR DTC123JE
Q804	8-729-929-08	s	TRANSISTOR DTC123JE
Q805	8-729-929-08	s	TRANSISTOR DTC123JE
Q806	8-729-929-08	s	TRANSISTOR DTC123JE
Q807	8-729-929-08	s	TRANSISTOR DTC123JE
Q1101	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q1102	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q1103	8-729-929-08	s	TRANSISTOR DTC123JE
Q1104	8-729-929-08	s	TRANSISTOR DTC123JE
Q1105	8-729-929-08	s	TRANSISTOR DTC123JE
Q1201	8-729-052-19	s	TRANSISTOR FDS6680A
Q1202	8-729-052-19	s	TRANSISTOR FDS6680A
Q1203	8-729-052-19	s	TRANSISTOR FDS6680A
Q1204	8-729-052-19	s	TRANSISTOR FDS6680A
Q1205	8-729-052-19	s	TRANSISTOR FDS6680A
Q1301	8-729-929-08	s	TRANSISTOR DTC123JE
Q1302	8-729-929-08	s	TRANSISTOR DTC123JE
R102	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R103	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R104	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R105	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R106	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R107	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R111	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R201	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R202	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R203	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R204	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R205	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R206	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R207	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R208	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R209	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R210	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R211	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R212	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R213	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R215	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R216	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R217	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R219	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R220	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R221	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R222	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R223	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R224	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R225	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R226	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R227	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R228	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R229	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R230	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R231	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R232	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R233	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R235	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R236	1-218-911-11	s	RESISTOR,CHIP 470K 1/10W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R237	1-218-911-11	s	RESISTOR,CHIP 470K 1/10W(1608)
R238	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R240	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R242	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R243	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R244	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R245	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R246	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R247	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R250	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R252	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R253	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R255	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R258	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R259	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R301	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R302	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R303	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R304	1-218-666-11	s	RESISTOR,CHIP 82 1/16W (1608)
R305	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R306	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R307	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R308	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R309	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R310	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R311	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R312	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R313	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R314	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R315	1-218-670-11	s	RESISTOR,CHIP 120 1/16W (1608)
R316	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R318	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R319	1-218-665-11	s	RESISTOR,CHIP 75 1/16W (1608)
R320	1-218-665-11	s	RESISTOR,CHIP 75 1/16W (1608)
R401	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R402	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R403	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R404	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R501	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R502	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R503	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R504	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R505	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R703	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R705	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R706	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R707	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R708	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R709	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R710	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R712	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R713	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R714	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R715	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R716	1-218-722-11	s	RESISTOR, CHIP 18K 1/16W 1608
R717	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R718	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R719	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R720	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R721	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R722	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R723	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R724	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R725	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R726	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R727	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R728	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R729	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R730	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R731	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R732	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R733	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R734	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R801	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R802	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R808	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R809	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R810	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R811	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R816	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R817	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R818	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R819	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R822	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R824	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R825	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R826	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R828	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R829	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R830	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R833	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R834	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R835	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R836	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R901	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R902	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1001	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1004	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1007	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1008	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1009	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1012	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1013	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1015	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1016	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1017	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1020	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1021	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1022	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1023	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1024	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1025	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1026	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1027	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1028	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1029	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1030	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1031	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1032	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1033	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1034	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1035	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1036	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1037	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1038	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1039	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1041	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1042	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1043	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1044	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1045	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1046	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1047	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1048	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1049	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R1050	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R1051	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1052	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1101	1-218-737-11	s	RESISTOR,CHIP 75K 1/16W
R1102	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1103	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1104	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1105	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1106	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1107	1-218-737-11	s	RESISTOR,CHIP 75K 1/16W
R1108	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1109	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1110	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1111	1-218-727-11	s	RESISTOR,CHIP 30K 1/16W(1608)
R1112	1-218-727-11	s	RESISTOR,CHIP 30K 1/16W(1608)
R1113	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1114	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1115	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1116	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1117	1-218-915-11	s	RESISTOR,CHIP 680K 1/10W(1608)
R1118	1-218-915-11	s	RESISTOR,CHIP 680K 1/10W(1608)
R1119	1-218-915-11	s	RESISTOR,CHIP 680K 1/10W(1608)
R1201	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1202	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1203	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1204	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1205	1-219-684-11	s	RESISTOR, CHIP 0.01 1W
R1206	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1207	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1208	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1209	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1210	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1211	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1212	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R1213	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R1214	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1215	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R1217	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1218	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R1220	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1221	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1222	1-218-644-11	s	RESISTOR,CHIP 10 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R1223	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1224	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R1225	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1226	1-218-614-11	s	RESISTOR CHIP 10/1W (5331)
R1227	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1228	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1229	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1230	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1231	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1232	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1233	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1234	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1235	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1236	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1238	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1240	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1241	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1242	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1301	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1302	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1303	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1304	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R1305	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1307	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R1308	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1314	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1315	1-218-728-11	s	RESISTOR,CHIP 33K 1/16W
R1316	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1317	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1318	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1319	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1321	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R1322	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
RB101	1-233-575-11	s	RES, CHIP NETWORK 22
RB102	1-233-575-11	s	RES, CHIP NETWORK 22
RB103	1-233-575-11	s	RES, CHIP NETWORK 22
RB104	1-233-575-11	s	RES, CHIP NETWORK 22
RB105	1-233-575-11	s	RES, CHIP NETWORK 22
RB106	1-233-575-11	s	RES, CHIP NETWORK 22
RB107	1-233-575-11	s	RES, CHIP NETWORK 22
RB108	1-233-575-11	s	RES, CHIP NETWORK 22
RB109	1-233-575-11	s	RES, CHIP NETWORK 22
RB110	1-233-575-11	s	RES, CHIP NETWORK 22
RB111	1-233-575-11	s	RES, CHIP NETWORK 22
RB112	1-233-575-11	s	RES, CHIP NETWORK 22
RB201	1-233-412-11	s	RESISTOR,CHIP NETWORK 1K
RB202	1-233-412-11	s	RESISTOR,CHIP NETWORK 1K
RB203	1-233-575-11	s	RES, CHIP NETWORK 22
RB204	1-233-575-11	s	RES, CHIP NETWORK 22
RB205	1-233-575-11	s	RES, CHIP NETWORK 22
RB206	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB207	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB208	1-233-575-11	s	RES, CHIP NETWORK 22
RB209	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB210	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB211	1-233-575-11	s	RES, CHIP NETWORK 22
RB212	1-233-575-11	s	RES, CHIP NETWORK 22
RB213	1-233-575-11	s	RES, CHIP NETWORK 22

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Ref. No. or Q'ty	Part No.	SP	Description
RB214	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB215	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB216	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB217	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB218	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB219	1-233-575-11	s	RES, CHIP NETWORK 22
RB220	1-233-575-11	s	RES, CHIP NETWORK 22
RB221	1-233-575-11	s	RES, CHIP NETWORK 22
RB222	1-233-575-11	s	RES, CHIP NETWORK 22
RB401	1-233-575-11	s	RES, CHIP NETWORK 22
RB402	1-233-575-11	s	RES, CHIP NETWORK 22
RB403	1-233-575-11	s	RES, CHIP NETWORK 22
RB404	1-233-575-11	s	RES, CHIP NETWORK 22
RB405	1-233-575-11	s	RES, CHIP NETWORK 22
RB406	1-233-575-11	s	RES, CHIP NETWORK 22
RB407	1-233-575-11	s	RES, CHIP NETWORK 22
RB408	1-233-575-11	s	RES, CHIP NETWORK 22
RB409	1-233-575-11	s	RES, CHIP NETWORK 22
RB410	1-233-575-11	s	RES, CHIP NETWORK 22
RB411	1-233-575-11	s	RES, CHIP NETWORK 22
RB412	1-233-575-11	s	RES, CHIP NETWORK 22
RB413	1-233-575-11	s	RES, CHIP NETWORK 22
RB414	1-233-575-11	s	RES, CHIP NETWORK 22
RB415	1-233-575-11	s	RES, CHIP NETWORK 22
RB416	1-233-575-11	s	RES, CHIP NETWORK 22
RB417	1-233-575-11	s	RES, CHIP NETWORK 22
RB418	1-233-575-11	s	RES, CHIP NETWORK 22
RB419	1-233-575-11	s	RES, CHIP NETWORK 22
RB420	1-233-575-11	s	RES, CHIP NETWORK 22
RB421	1-233-575-11	s	RES, CHIP NETWORK 22
RB422	1-233-575-11	s	RES, CHIP NETWORK 22
RB423	1-233-575-11	s	RES, CHIP NETWORK 22
RB424	1-233-575-11	s	RES, CHIP NETWORK 22
RB425	1-233-575-11	s	RES, CHIP NETWORK 22
RB426	1-233-575-11	s	RES, CHIP NETWORK 22
RB427	1-233-575-11	s	RES, CHIP NETWORK 22
RB428	1-233-575-11	s	RES, CHIP NETWORK 22
RB429	1-233-575-11	s	RES, CHIP NETWORK 22
RB430	1-233-575-11	s	RES, CHIP NETWORK 22
RB701	1-233-576-11	s	RESISTOR,CHIP NETWORK 100
RB702	1-233-576-11	s	RESISTOR,CHIP NETWORK 100
RB703	1-233-576-11	s	RESISTOR,CHIP NETWORK 100
RB704	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB801	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB802	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB803	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB804	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB805	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB806	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB807	1-233-576-11	s	RESISTOR,CHIP NETWORK 100
RB808	1-233-576-11	s	RESISTOR,CHIP NETWORK 100
RB809	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB901	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB902	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB903	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB904	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB905	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB906	1-233-412-11	s	RESISTOR,CHIP NETWORK 1K
RB907	1-233-576-11	s	RESISTOR,CHIP NETWORK 100

(CPU-355 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB908	1-233-576-11	s	RESISTOR,CHIP NETWORK 100
RB909	1-233-576-11	s	RESISTOR,CHIP NETWORK 100
RB910	1-233-576-11	s	RESISTOR,CHIP NETWORK 100
RB1001	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB1002	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB1003	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB1004	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB1005	1-233-578-11	s	RESISTOR,CHIP NETWORK 47K
RB1101	1-233-576-11	s	RESISTOR,CHIP NETWORK 100
S101	1-762-400-11	s	SWITCH
S801	1-692-271-31	s	SWITCH, SLIDE
S802	1-692-271-31	s	SWITCH, SLIDE
S803	1-692-271-31	s	SWITCH, SLIDE
S804	1-554-963-21	s	SWITCH, ROTARY (S-1011A)
S1201	1-762-400-11	s	SWITCH
T301	1-437-494-11	s	TRANSFORMER, PULSE
TP1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP201	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP203	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP204	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP205	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP206	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP207	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP208	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP301	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP501	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP502	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP503	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP504	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP505	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP601	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP602	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP603	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP701	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP702	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP901	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP902	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP903	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP904	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP905	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1001	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1101	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1102	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1103	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1104	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1105	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1106	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1107	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1201	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1202	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1203	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1204	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1205	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1206	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1207	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1208	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1209	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)

(CPU-355 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
TP1210	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1301	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1302	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1303	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
X501	1-760-622-21	s	VIBRATOR, CRYSTAL
X1301	1-781-997-11	s	OSCILLATOR, CRYSTAL
X1302	1-781-368-11	s	OSCILLATOR, CRYSTAL
X1303	1-781-471-11	s	OSCILLATOR, CRYSTAL

IF-844 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
C1	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C2	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C3	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C4	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C5	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C6	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C8	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C9	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C10	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C11	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C12	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C13	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C14	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C15	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C16	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C17	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C18	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C19	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C20	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C21	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C22	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN1	1-793-093-11	o	CONNECTOR, BOARD TO BOARD 60P
D1	8-719-064-52	s	DIODE CL-191YG-CD-T
E1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
IC1	8-759-458-38	s	IC KL5C80A20CFP
IC2	6-801-129-01	o	IC 29EE512-90-SBUS-V2.06
IC3	6-702-025-01	s	IC CY7C109B-15VCT
IC4	8-759-469-77	s	IC CY7C136-55NC
IC5	8-759-524-08	s	IC TC74VHC139FT(EL)
IC6	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC7	8-759-447-77	s	IC TC7WH74FU (TE12R)
IC8	8-759-196-96	s	IC TC7SH08FU (TE85R)
IS2	1-540-151-21	s	SOCKET, IC
PS1	⚠ 1-576-398-21	s	RINK, IC (CCP2E63)
R1	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R2	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R3	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R4	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R5	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R6	1-216-857-11	s	RESISTOR,CHIP 1M 1/10W(1608)
R7	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R8	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R9	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R10	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R11	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R12	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R14	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R15	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R16	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R17	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)

(IF-844 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB1	1-239-389-11	s	RESISTOR,NETWORK 47K (1608)
RB2	1-239-389-11	s	RESISTOR,NETWORK 47K (1608)
RB3	1-239-389-11	s	RESISTOR,NETWORK 47K (1608)
RB4	1-239-389-11	s	RESISTOR,NETWORK 47K (1608)
RB5	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB6	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB7	1-239-389-11	s	RESISTOR,NETWORK 47K (1608)
RB8	1-239-389-11	s	RESISTOR,NETWORK 47K (1608)
RB9	1-239-389-11	s	RESISTOR,NETWORK 47K (1608)
RB10	1-239-389-11	s	RESISTOR,NETWORK 47K (1608)
S1	1-572-438-11	s	SWITCH, TACTIL
TP1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP2	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
X1	1-760-273-11	s	VIBRATOR, CRYSTAL

IF-1160 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1802-656-A	s	MOUNTED CIRCUIT BOARD, IF-1160
C101	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C102	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C103	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C104	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C105	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C106	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C107	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C108	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C109	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C110	1-127-710-21	s	CAP, CHIP ELECT 47MF (7343)
C111	1-112-717-91	s	CAP, CERAMIC 1UF B (1005)
C112	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C113	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C116	1-100-670-91	s	CAP, CERAMIC 4.7MF C (2012)
C117	1-100-670-91	s	CAP, CERAMIC 4.7MF C (2012)
C118	1-100-415-91	s	CAP, CHIP CERAMIC 0.47MF(1005)
C119	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C120	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C121	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C122	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C201	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C202	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C203	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C204	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C206	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C207	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C208	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C209	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C210	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C211	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C212	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C213	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C214	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C215	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C216	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C217	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C218	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C219	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C220	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C221	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C222	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C223	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C224	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C225	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C226	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C227	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C228	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C229	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C230	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C231	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C232	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C233	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C234	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C235	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C236	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C237	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C238	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C239	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C240	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C241	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C242	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C243	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C244	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C245	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C246	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C247	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C248	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C249	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C250	1-165-989-91	s	CAP, CERAMIC 10MF (2012)
C251	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C252	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C253	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
C254	1-114-582-91	s	CAP, CERAMIC 0.1MF B 1005
CN201	1-770-627-21	s	PIN, CONNECTOR 10P
D201	6-502-197-01	s	DI SML-D12M8WT86SM
D202	6-502-197-01	s	DI SML-D12M8WT86SM
D203	6-502-197-01	s	DI SML-D12M8WT86SM
D204	6-502-197-01	s	DI SML-D12M8WT86SM
D205	6-502-197-01	s	DI SML-D12M8WT86SM
E101	1-535-757-21	s	CHIP, CHECKER
FB201	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB202	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
FB203	1-469-094-21	s	FERRITE, EMI (SMD) (1608)
IC103	6-709-538-01	s	IC TC74LVXC3245FS(E,F)
IC106	6-707-890-01	s	IC TC74VHCT244AFT(EKJ)
IC107	6-708-464-01	o	IC R1114Q251D-TR-FA
IC108	6-708-889-01	s	IC MP2105DJ-LF-Z
IC109	6-708-889-01	s	IC MP2105DJ-LF-Z
IC202	6-708-324-01	s	IC R3112N301A-TR-FA
IC203	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC205	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC207	8-759-592-47	s	IC TC7SZ08FU(TE85R)
L101	1-419-630-21	s	COIL, CHOKE 4.7UH
L102	1-419-630-21	s	COIL, CHOKE 4.7UH
PS101	1-533-282-21	s	LINK, IC (2A/72V)
Q101	8-729-929-09	s	TRANSISTOR DTC123JE-TL
Q102	8-729-929-09	s	TRANSISTOR DTC123JE-TL
R101	1-208-927-81	s	RES, CHIP 47K (1005)
R102	1-208-927-81	s	RES, CHIP 47K (1005)
R103	1-208-927-81	s	RES, CHIP 47K (1005)
R104	1-208-927-81	s	RES, CHIP 47K (1005)
R105	1-208-927-81	s	RES, CHIP 47K (1005)
R106	1-208-935-81	s	RES, CHIP 100K (1005)
R107	1-208-935-81	s	RES, CHIP 100K (1005)
R108	1-208-959-81	s	RES, CHIP 1M (1005)
R109	1-208-943-81	s	RES, CHIP 220K (1005)
R110	1-208-895-81	s	RES, CHIP 2.2K (1005)
R111	1-208-959-81	s	RES, CHIP 1M (1005)
R112	1-208-959-81	s	RES, CHIP 1M (1005)
R113	1-208-959-81	s	RES, CHIP 1M (1005)
R114	1-208-943-81	s	RES, CHIP 220K (1005)
R115	1-208-895-81	s	RES, CHIP 2.2K (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R116	1-208-959-81	s	RES, CHIP 1M (1005)
R117	1-208-959-81	s	RES, CHIP 1M (1005)
R201	1-208-911-81	s	RES, CHIP 10K (1005)
R202	1-208-863-81	s	RES, CHIP 100 (1005)
R204	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R205	1-220-878-81	s	RES, CHIP 22 (1005)
R207	1-208-887-81	s	RES, CHIP 1.0K (1005)
R208	1-208-887-81	s	RES, CHIP 1.0K (1005)
R209	1-208-911-81	s	RES, CHIP 10K (1005)
R211	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R213	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R214	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R217	1-218-990-81	s	CONDUCTOR, CHIP (1005)
R218	1-220-878-81	s	RES, CHIP 22 (1005)
R219	1-208-911-81	s	RES, CHIP 10K (1005)
R220	1-208-911-81	s	RES, CHIP 10K (1005)
R221	1-208-911-81	s	RES, CHIP 10K (1005)
R222	1-208-887-81	s	RES, CHIP 1.0K (1005)
R223	1-208-911-81	s	RES, CHIP 10K (1005)
R224	1-208-911-81	s	RES, CHIP 10K (1005)
R225	1-208-911-81	s	RES, CHIP 10K (1005)
R226	1-208-863-81	s	RES, CHIP 100 (1005)
R227	1-208-911-81	s	RES, CHIP 10K (1005)
R228	1-220-878-81	s	RES, CHIP 22 (1005)
R229	1-208-911-81	s	RES, CHIP 10K (1005)
R230	1-208-911-81	s	RES, CHIP 10K (1005)
R231	1-208-911-81	s	RES, CHIP 10K (1005)
R232	1-220-878-81	s	RES, CHIP 22 (1005)
R233	1-220-878-81	s	RES, CHIP 22 (1005)
R234	1-220-878-81	s	RES, CHIP 22 (1005)
R235	1-208-911-81	s	RES, CHIP 10K (1005)
R236	1-208-911-81	s	RES, CHIP 10K (1005)
R237	1-220-878-81	s	RES, CHIP 22 (1005)
R238	1-220-878-81	s	RES, CHIP 22 (1005)
R239	1-220-878-81	s	RES, CHIP 22 (1005)
R240	1-220-878-81	s	RES, CHIP 22 (1005)
R241	1-220-878-81	s	RES, CHIP 22 (1005)
R242	1-220-878-81	s	RES, CHIP 22 (1005)
R243	1-220-878-81	s	RES, CHIP 22 (1005)
R244	1-208-911-81	s	RES, CHIP 10K (1005)
RB101	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB102	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB103	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB104	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB105	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB106	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB107	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB108	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB109	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB110	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB111	1-234-380-21	s	RES, NETWORK 47K (1005X4)
RB112	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB113	1-234-370-21	s	RES, NETWORK 22 (1005X4)
RB114	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB115	1-234-371-21	s	RES, NETWORK 47 (1005X4)
RB201	1-234-375-21	s	RES, NETWORK 1K (1005X4)
RB202	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB203	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB204	1-234-375-21	s	RES, NETWORK 1K (1005X4)

(IF-1160 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB205	1-234-378-21	s	RES, NETWORK 10K (1005X4)
RB206	1-234-378-21	s	RES, NETWORK 10K (1005X4)
S201	1-771-721-21	s	SWITCH, TACTILE
S202	1-771-721-21	s	SWITCH, TACTILE
TP201	1-535-757-21	s	CHIP, CHECKER

LE-264 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
C1	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C2	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN1	1-766-295-21	s	CONNECTOR, BOARD TO BOARD 24P
D1	8-719-073-33	s	DIODE CL-165HR/YG-D-T
D2	8-719-073-33	s	DIODE CL-165HR/YG-D-T
D3	8-719-073-33	s	DIODE CL-165HR/YG-D-T
ND1	8-719-062-50	s	LED SLG2016

SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8345-623-A	s	CD-ROM ASSY
2pcs	1-695-542-11	o	RESISTOR,CONNECTOR TERMINATION
1pc	1-764-805-11	o	CONNECTOR, BNC TYPE

Section 3
Semiconductor Pin Assignments

The following describes the semiconductor types used in this unit.
For semiconductors marked with page numbers in the index, refer to the corresponding pages in this section. However, in some cases incompatible types are also listed, therefore, when a part is to be replaced, also refer to the Spare Parts section.
In addition, for semiconductors with ID Nos., refer to the separate CD-ROM titled “Semiconductor Pin Assignments” (Sony Part No. 9-968-546-xx) that allows searching for parts by semiconductor type or ID No.
The semiconductors in the manual or on the CD-ROM are listed by equivalent types. Thus the external view or the index mark indication may differ from the actual type.
Pin assignments and block diagrams are based on the IC manufacturer’s data book.

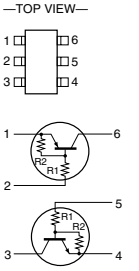
本機に使用されている半導体型名の一覧を下記に示します。
索引中，ページが記載されている半導体は，本章の該当ページを参照してください。ただし，互換性のない型名を併記している場合がありますので，部品を交換するときは，Spare Partsの章を参照してください。
また，ID番号が記載されている半導体は，別途発行の “Semiconductor Pin Assignments” CD−ROM版 (ソニー部品番号：9−968−546−xx)を参照してください。
半導体型名またはID番号から検索ができます。
マニュアルまたはCD−ROMに掲載されている半導体は，それぞれの機能を等価的に表わしたものです。
外観やインデックスマークの表示方法が実物と異なる場合があります。
ピン配置およびブロック図はICメーカーのデータブックに従いました。

Index, TRANSISTOR

IC	Page or ID No.
HM62V8512CLTT-5SLZ	HM628512LP-7
KL5C80A20CFP	KL5C80A20CFP
LM393PS	UA393DC
LM393PS-E20	UA393DC
LMH6642MFX	AD8055ART-REEL7
LMH6642MFX/NOPB	AD8055ART-REEL7
MAX1626ESA-TE2	MAX1626ESA-TE2
MAX1715EEI-TG068	MAX1715EEI-TG068
MAX3222ECAP-TG068	MAX3222CAP
MAX3241CAI-TE2	MAX3241CAI-TE2
MAX3491CSD-TG068	MAX3491CSD-TG068
MAX4271ESA.TG068	MAX4271ESA_TG068
MB3771PF-ER	MB3771DIP
MBM29LV160BE-90TN	MBM29LV160B-90PTFN
MBM29LV160BE90TN	MBM29LV160B-90PTFN
NJM2233BM	NJM2233AM
NJM2233BM(TE2)	NJM2233AM
NJM78M05DL1A-TE1	NJM78M12DLA_TE1
RV5C387A-E2	RV5C387A-EZ
RV5C387A-EZ	RV5C387A-EZ
SN74CBTS3306PWR-12	SN74CBT3306PWR
SN74LV245APWR	TC74HC245P
SN74LVCC4245APWR	74LVX4245QSCX
SST29EE512-90-4C-NH	SST29EE512-120-4C-NH
TC74LCX16245AFT(EL)	IDT74FCT16245ATPV-TR
TC74VHC00FT(EL)	TC74HC00P
TC74VHC04FT(EL)	TC74HC04P
TC74VHC08FT(EL)	TC74HC08P
TC74VHC123AFT(EL)	TC74HC123P
TC74VHC138FT(EL)	TC74HC138P
TC74VHC139FT(EL)	TC74HC139P
TC74VHCT541AFT(EL)	MC74HC541N
TC7SH04FU	TC7S04F
TC7SH04FU-TE85R	TC7S04F
TC7SH08FU(TE85R)	TC7S08F
TC7SH08FU-TE85R	TC7S08F
TC7WH04FU(TE12R)	TC7W04F
TC7WH14FK(TE85R)	TC7W14FU
TC7WH74FU(TE12R)	TC7W74FU
TD62083F	TD62083AP
TD62083F(S,EL)	TD62083AP
TL062CPWR-12	RC4558
TL16C752BPT	3-3
TL712CPS	TL712CP
TL712CPSR	TL712CP

TRANSISTOR

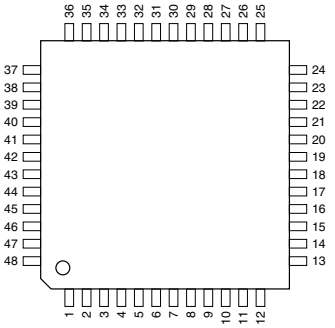
RN4905(TE85R) R1=2.2K,R2=4.7K



IC

TL16C752BPT (TI)

DUAL UNIVERSAL ASYNCHRONOUS RECEIVER/TRANSMITTER
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I/O	D5	13	I	XTAL1	25	—	NC	37	—	NC
2	I/O	D6	14	O	XATL2	26	I	A2	38	I	$\overline{CTSA}$
3	I/O	D7	15	I	$\overline{IOW}$	27	I	A1	39	I	$\overline{DSRA}$
4	I	RXB	16	I	$\overline{CDB}$	28	I	A0	40	I	$\overline{CDA}$
5	I	RXA	17	—	GND	29	O	INTB	41	I	$\overline{RIA}$
6	O	$\overline{TXRDYB}$	18	O	$\overline{RXRDYB}$	30	O	INTA	42	—	Vcc
7	O	TXA	19	I	$\overline{IOR}$	31	O	$\overline{RXRDYA}$	43	O	$\overline{TXRDYA}$
8	O	TXB	20	I	$\overline{DSRB}$	32	O	$\overline{OPA}$	44	I/O	D0
9	O	$\overline{OPB}$	21	I	$\overline{RIB}$	33	O	$\overline{RTSA}$	45	I/O	D1
10	I	$\overline{CSA}$	22	O	$\overline{RTSB}$	34	O	$\overline{DTRA}$	46	I/O	D2
11	I	$\overline{CSB}$	23	I	$\overline{CTSB}$	35	O	$\overline{DTRB}$	47	I/O	D3
12	—	NC	24	—	NC	36	I	RESET	48	I/O	D4

INPUTS

A0 - A2	: ADDRESS
$\overline{CDA}$, $\overline{CDB}$	: CARRIER DETECT
$\overline{CSA}$, $\overline{CSB}$	: CHIP SELECT (UART CHANNEL SELECT)
$\overline{CTSA}$, $\overline{CTSB}$	: CLEAR TO SEND
$\overline{DSRA}$, $\overline{DSRB}$	: DATA SET READY
$\overline{IOR}$	: READ
$\overline{IOW}$	: WRITE
RESET	: RESET
$\overline{RIA}$, $\overline{RIB}$	: RING INDICATOR
RXA, RXB	: RECEIVE DATA
XTAL1	: CRYSTAL OR EXTERNAL CLOCK

OUTPUTS

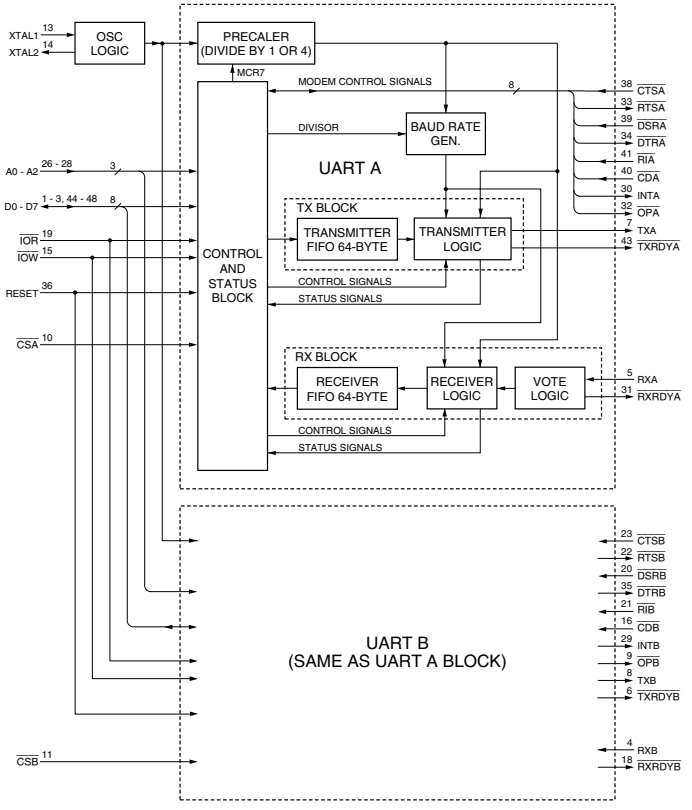
$\overline{DTRA}$, $\overline{DTRB}$	: DATA TERMINAL READY
INTA, INTB	: INTERRUPT
$\overline{OPA}$, $\overline{OPB}$	: USER DEFINED
$\overline{RTSA}$, $\overline{RTSB}$	: REQUEST TO SEND
$\overline{RXRDYA}$, $\overline{RXRDYB}$	: RECEIVE READY
TXA, TXB	: TRANSMIT DATA
$\overline{TXRDYA}$, $\overline{TXRDYB}$	: TRANSMIT READY
XATL2	: CRYSTAL OSCILLATOR OR BUFFERED CLOCK

INPUTS/OUTPUTS

D0 - D7	: DATA BUS

OTHER

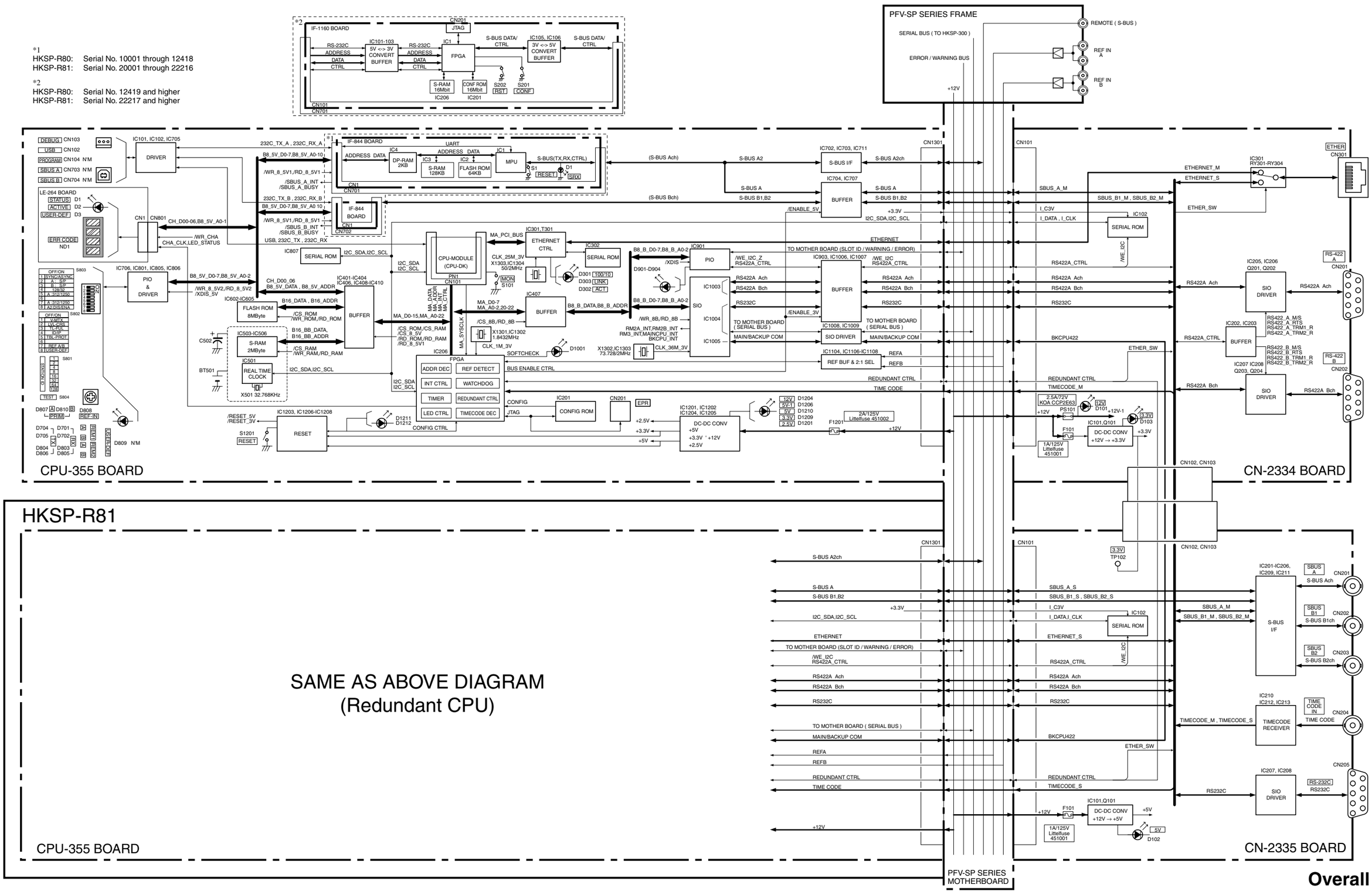
NC	: NO CONNECTION



Section 4
Overall Block Diagram

*1
HKSP-R80: Serial No. 10001 through 12418
HKSP-R81: Serial No. 20001 through 22216

*2
HKSP-R80: Serial No. 12419 and higher
HKSP-R81: Serial No. 22217 and higher



Section 5
Schematic Diagrams

Index

5-1

CN-2334 (1/3) **SUFFIX: -11**

CN101

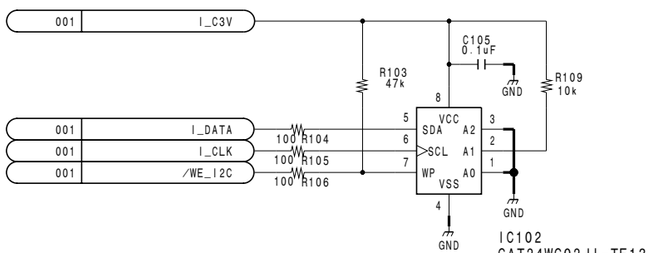
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2	+12V	+12V	+12V	+12V	+12V	GND
3	GND (SLOTA/B)	DTEN	BKCPU422RXP	BKCPU422RXN	BKCPU_CTS	GND
4	ACTEN	AE_IN	BKCPU422TXP	BKCPU422TXN	BKCPU_RTS	GND
5	RS422_BRX	RS422_B_TRM1	RS422_B_TRM2	BKCPU_DSR	BKCPU_DTR	GND
6	RS422_BTX	RS422_B_RTS	RS422_B_M/S	DSR	DTR	GND
7	RS422_ARX	RS422_A_TRM1	RS422_A_TRM2	RS232C_TX	CTS	GND
8	RS422_ATX	RS422_A_RTS	RS422_A_M/S	RS232C_RX	RTS	GND
9	SBUS_TX_B	SBUS_TRMSENS_B2	SBUS_TRM_B2	SBUS_IE_B2	SBUS_RX_B	GND
10	SBUS_IE_B1	SBUS_TRMSENS_B1	SBUS_TRM_B1	GND (CN_DET)	I_C3V	GND
11	(NC)	(NC)	P_CK	I_DATA	I_CLK	GND
12						GND
13						GND
14						GND
15	(NC)	(NC)	(NC)	(NC)	(NC)	GND
16	(NC)	(NC)	(NC)	(NC)	(NC)	GND
17	(NC)	(NC)	(NC)	(NC)	(NC)	GND
18	(NC)	(NC)	GND	(NC)	(NC)	GND
19	SBUS_TX_A	SBUS_TRM_A1	SBUS_TRMSENS_A1	SBUS_IE_A1	SBUS_RX_A	GND
20	TIME_CODE	(NC)	(NC)	/WE_I2C	ETHER_SW	GND
21	GND-S	GND-S	GND-S	GND-T	GND-T	GND
22	GND-S	ETHER_RXN_M	ETHER_RXP_M	GND-T	GND-T	GND
23	GND-S	ETHER_TXN_M	ETHER_TXP_M	GND-T	GND-T	GND
24	GND-S	GND-S	GND-S	GND	GND	GND
25	GND	GND	GND	(NC)	(NC)	GND

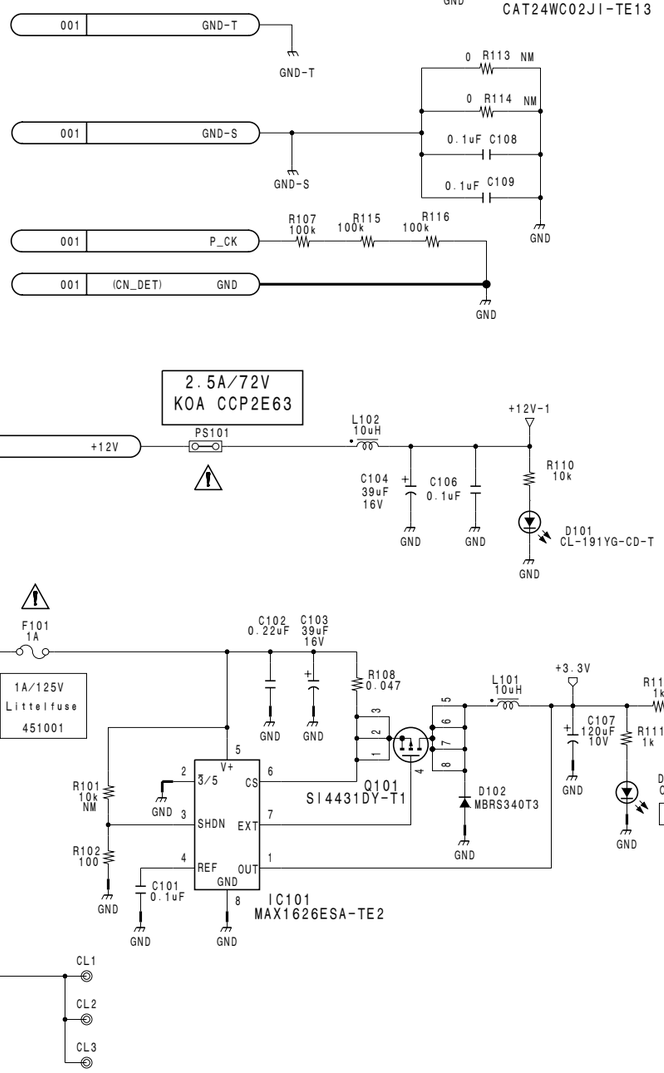
CN102

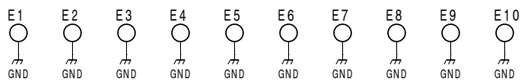
	A	B	C	D	E
1	GND-S	GND-S	GND-S	GND-T	GND-T
2	GND-S	ETHER_TXN_S	ETHER_TXP_S	GND-T	GND-T
3	GND-S	ETHER_RXN_S	ETHER_RXP_S	GND-T	GND-T
4	GND-S	GND-S	GND-S	GND-T	GND-T
5	TIME_CODE	(NC)	(NC)	(NC)	ETHER_SW
6	GND	GND	GND	GND	GND
7	SBUS_TX_A	SBUS_TRM_A1	SBUS_TRMSENS_A1	SBUS_IE_A1	SBUS_RX_A
8	SBUS_TX_B	SBUS_TRMSENS_B2	SBUS_TRM_B2	SBUS_IE_B2	SBUS_RX_B
9	SBUS_IE_B1	SBUS_TRMSENS_B1	SBUS_TRM_B1	GND	GND
10	GND	GND	GND	GND	GND
11	GND	GND	GND	GND	GND

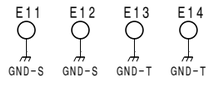
CN103

	A	B	C	D	E
1	RS232C_TX	GND	GND	GND	GND
2	RTS	DSR	DTR	CTS	RS232C_RX
3	(NC)	(NC)	(NC)	(NC)	(NC)
4	(NC)	(NC)	(NC)	BKCPU422TXP	BKCPU422TXN
5	RS422_ATX	RS422_A_RTS	RS422_A_M/S	BKCPU422RXP	BKCPU422RXN
6	RS422_ARX	RS422_A_TRM1	RS422_A_TRM2	BKCPU_RTS	BKCPU_CTS
7	RS422_BTX	RS422_B_RTS	RS422_B_M/S	BKCPU_DTR	BKCPU_DSR
8	RS422_BRX	RS422_B_TRM1	RS422_B_TRM2	DTEN	AE_IN
9	(NC)	(NC)	(NC)	(NC)	ACTEN
10	GND	GND	GND	GND	GND
11	+3.3V	+3.3V	GND	+5V	+5V





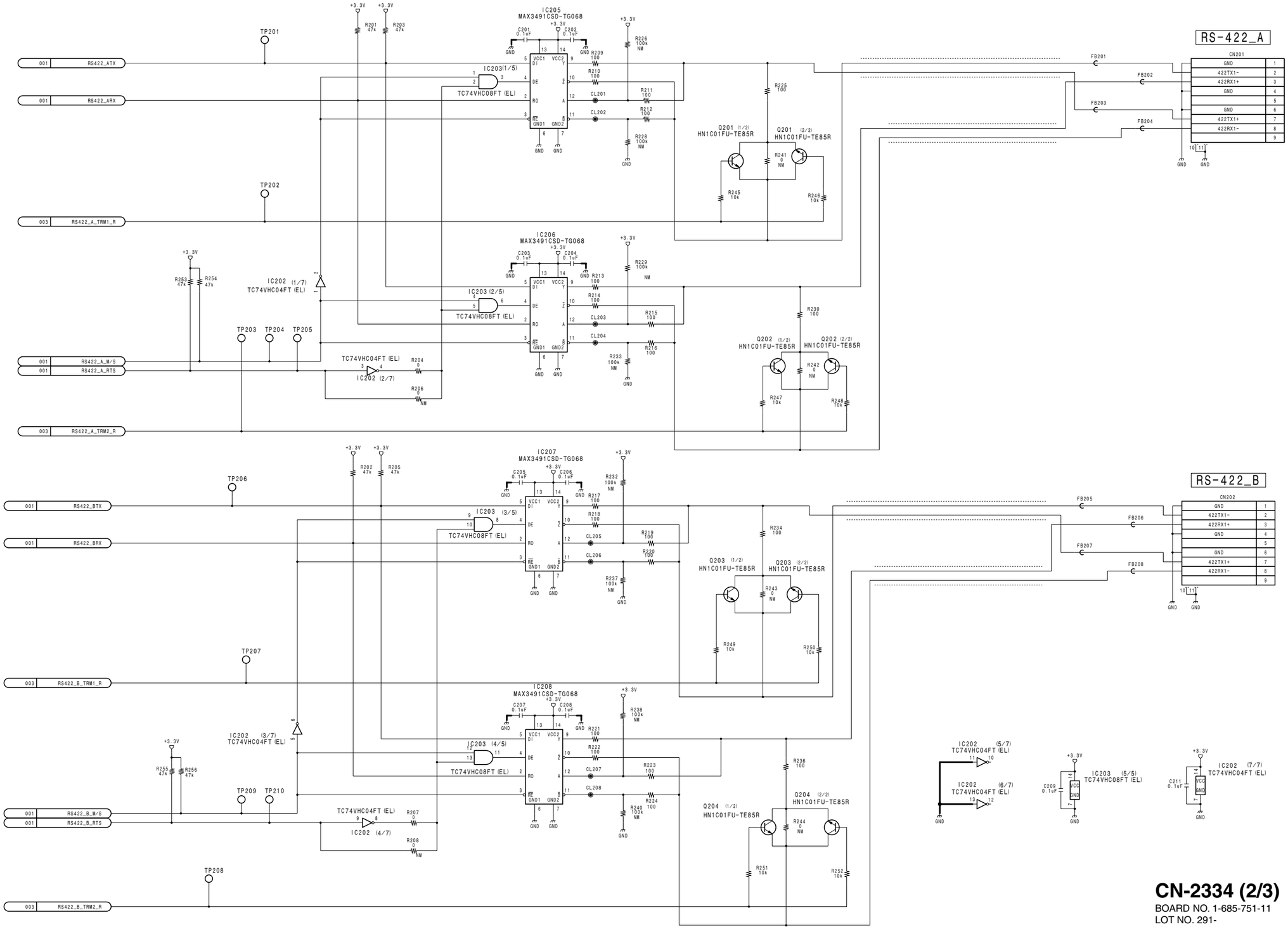




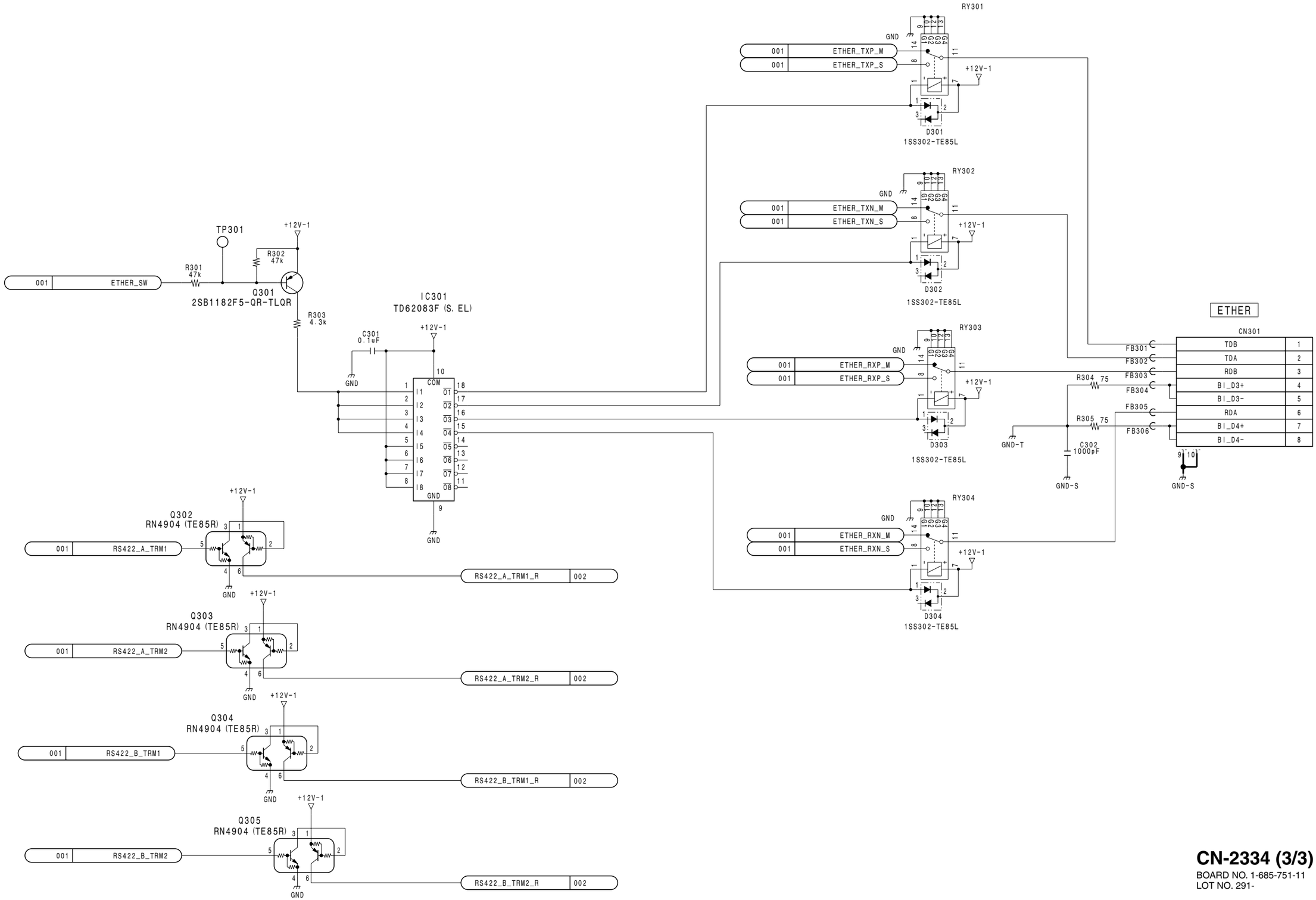
CN-2334 (1/3)
BOARD NO. 1-685-751-11
LOT NO. 291-

CN-2334 (2/3)
SUFFIX: -11

CN-2334 (2/3)
SUFFIX: -11



CN-2334 (2/3)
BOARD NO. 1-685-751-11
LOT NO. 291-



CN-2334 (3/3)
BOARD NO. 1-685-751-11
LOT NO. 291-

CN-2334 (1/4)
SUFFIX: -12

CN101

	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2	+12V	+12V	+12V	+12V	+12V	GND
3	GND (SLOTA/B)	DTEN	BKCPU422RXP	BKCPU422RXN	BKCPU_CTS	GND
4	ACTEN	AE_IN	BKCPU422TXP	BKCPU422TXN	BKCPU_RTS	GND
5	RS422_BRX	RS422_B_TRM1	RS422_B_TRM2	BKCPU_DSR	BKCPU_DTR	GND
6	RS422_BTX	RS422_B_RTS	RS422_B_M/S	DSR	DTR	GND
7	RS422_ARX	RS422_A_TRM1	RS422_A_TRM2	RS232C_TX	CTS	GND
8	RS422_ATX	RS422_A_RTS	RS422_A_M/S	RS232C_RX	RTS	GND
9	SBUS_TX_B	SBUS_TRMSENS_B2	SBUS_TRM_B2	SBUS_IE_B2	SBUS_RX_B	GND
10	SBUS_IE_B1	SBUS_TRMSENS_B1	SBUS_TRM_B1	CN_DET	I_C3V	GND
11	(NC)	(NC)	P_CK	I_DATA	I_CLK	GND
12						GND
13						GND
14						GND
15	(NC)	(NC)	(NC)	(NC)	(NC)	GND
16	(NC)	(NC)	(NC)	(NC)	(NC)	GND
17	(NC)	(NC)	(NC)	(NC)	(NC)	GND
18	(NC)	(NC)	GND	(NC)	(NC)	GND
19	SBUS_TX_A	SBUS_TRM_A1	SBUS_TRMSENS_A1	SBUS_IE_A1	SBUS_RX_A	GND
20	TIME_CODE	(NC)	(NC)	/WE_I2C	ETHER_SW	GND
21	GND-S	GND-S	GND-S	GND-T	GND-T	GND
22	GND-S	ETHER_RXN_M	ETHER_RXP_M	GND-T	GND-T	GND
23	GND-S	ETHER_TXN_M	ETHER_TXP_M	GND-T	GND-T	GND
24	GND-S	GND-S	GND-S	GND	GND	GND
25	GND	GND	GND	(NC)	(NC)	GND

CN102

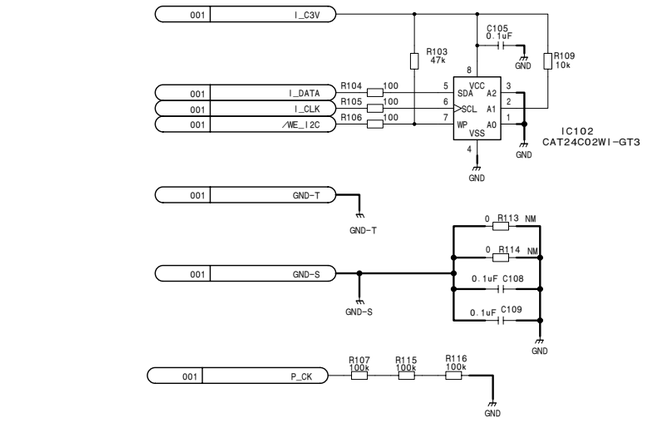
	A	B	C	D	E
1	GND-S	GND-S	GND-S	GND-T	GND-T
2	GND-S	ETHER_TXN_S	ETHER_TXP_S	GND-T	GND-T
3	GND-S	ETHER_RXN_S	ETHER_RXP_S	GND-T	GND-T
4	GND-S	GND-S	GND-S	GND-T	GND-T
5	TIME_CODE	(NC)	(NC)	(NC)	ETHER_SW
6	GND	GND	GND	GND	GND
7	SBUS_TX_A	SBUS_TRM_A1	SBUS_TRMSENS_A1	SBUS_IE_A1	SBUS_RX_A
8	SBUS_TX_B	SBUS_TRMSENS_B2	SBUS_TRM_B2	SBUS_IE_B2	SBUS_RX_B
9	SBUS_IE_B1	SBUS_TRMSENS_B1	SBUS_TRM_B1	GND	GND
10	GND	GND	GND	GND	GND
11	GND	GND	GND	GND	GND

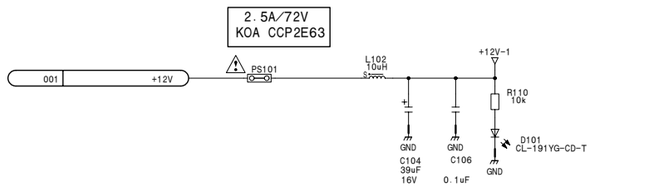
CN103

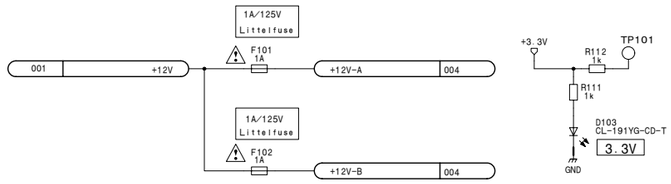
	A	B	C	D	E
1	RS232C_TX	GND	GND	GND	GND
2	RTS	DSR	DTR	CTS	RS232C_RX
3	(NC)	(NC)	(NC)	(NC)	(NC)
4	(NC)	(NC)	(NC)	BKCPU422TXP	BKCPU422TXN
5	RS422_ATX	RS422_A_RTS	RS422_A_M/S	BKCPU422RXP	BKCPU422RXN
6	RS422_ARX	RS422_A_TRM1	RS422_A_TRM2	BKCPU_RTS	BKCPU_CTS
7	RS422_BTX	RS422_B_RTS	RS422_B_M/S	BKCPU_DTR	BKCPU_DSR
8	RS422_BRX	RS422_B_TRM1	RS422_B_TRM2	DTEN	AE_IN
9	(NC)	(NC)	(NC)	(NC)	ACTEN
10	(CN_CHK @2335) (NC)	GND	GND	CN_CHK	GND
11	+3.3V-A	+3.3V-B	GND	+5V-A	+5V-B

E1 E2 E3 E4 E5 E6 E7 E8 E9 E10 — GND

E11 E12 E13 E14 — GND-S GND-S GND-T GND-T





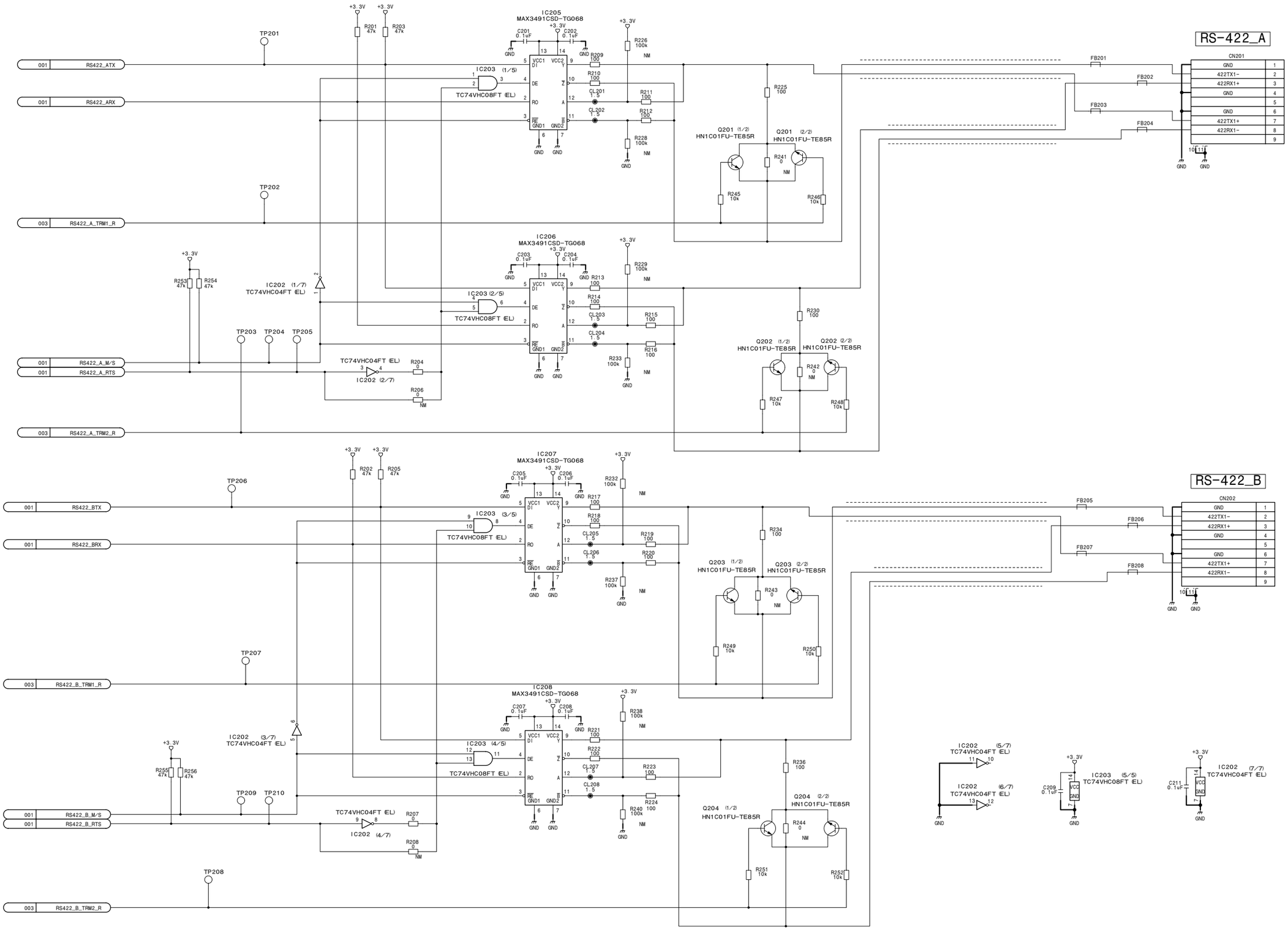


CN-2334 (1/4)
BOARD NO. 1-685-751-12
HKSP-R80_CN-2334_004_1

5-2 (a)

CN-2334 (2/4)
SUFFIX: -12

CN-2334 (2/4)
SUFFIX: -12



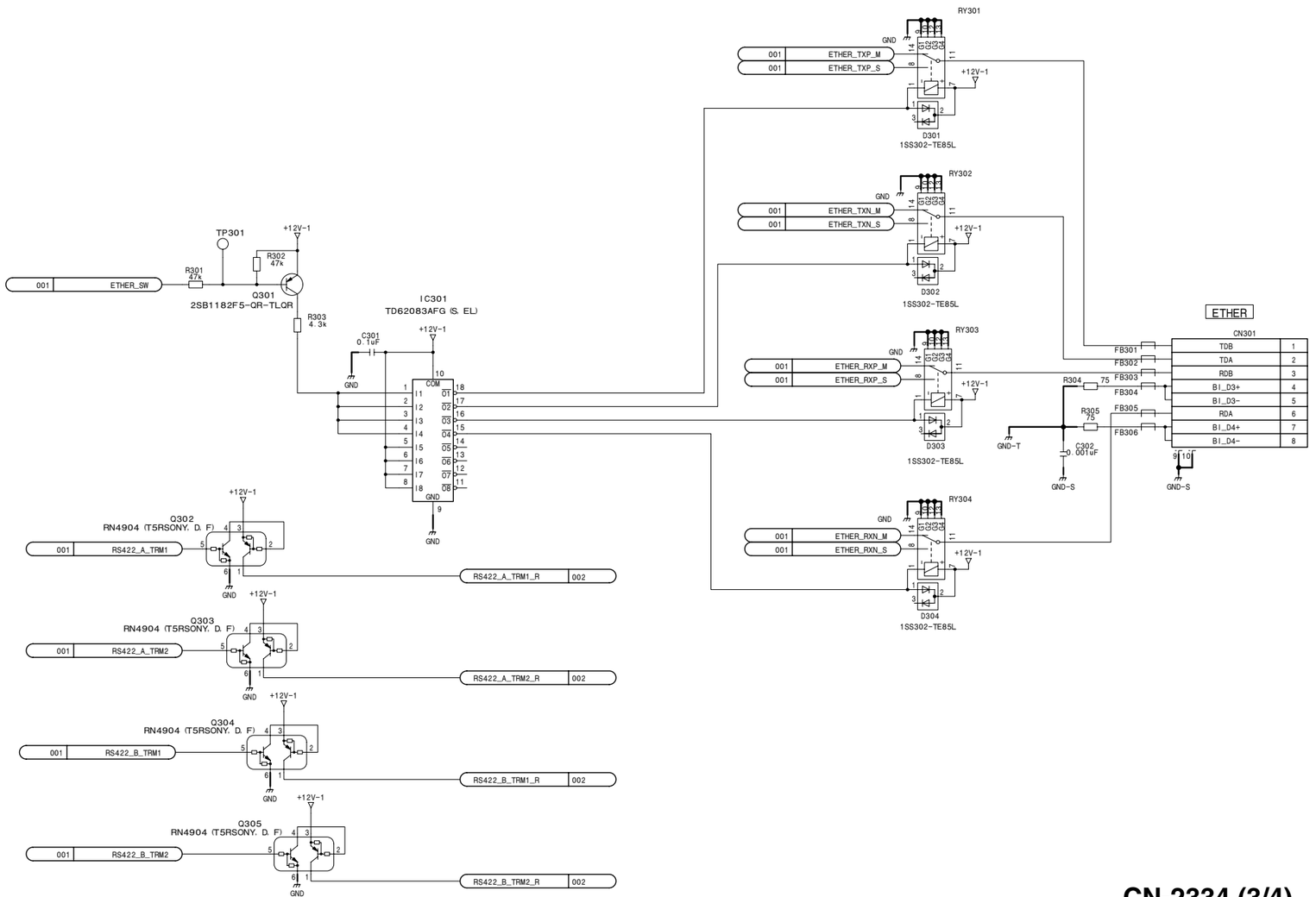
CN-2334 (2/4)
BOARD NO. 1-685-751-12
HKSP-R80_CN-2334_004_2

HKSP-R80

5-3 (a)

5-3 (a)

CN-2334 (3/4)
SUFFIX: -12

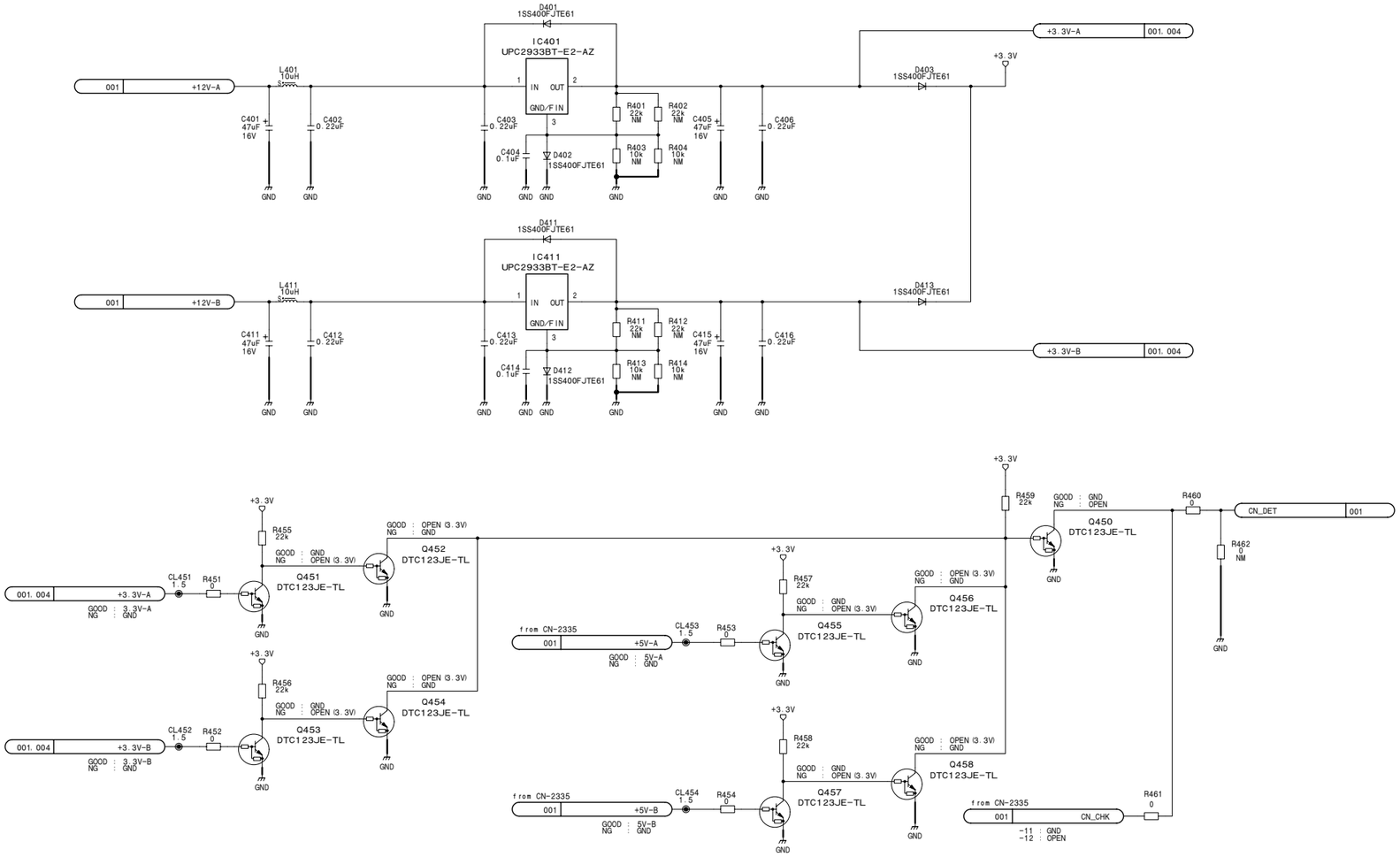


CN-2334 (3/4)

BOARD NO. 1-685-751-12
HKSP-R80_CN-2334_004_2

5-4 (a)

CN-2334 (4/4) **SUFFIX: -12**



CN-2334 (4/4)

BOARD NO. 1-685-751-12
HKSP-R80_CN-2334_004_2

CN-2335 (1/2)
SUFFIX: -11

CN-2335 (1/2)
SUFFIX: -11

CN101

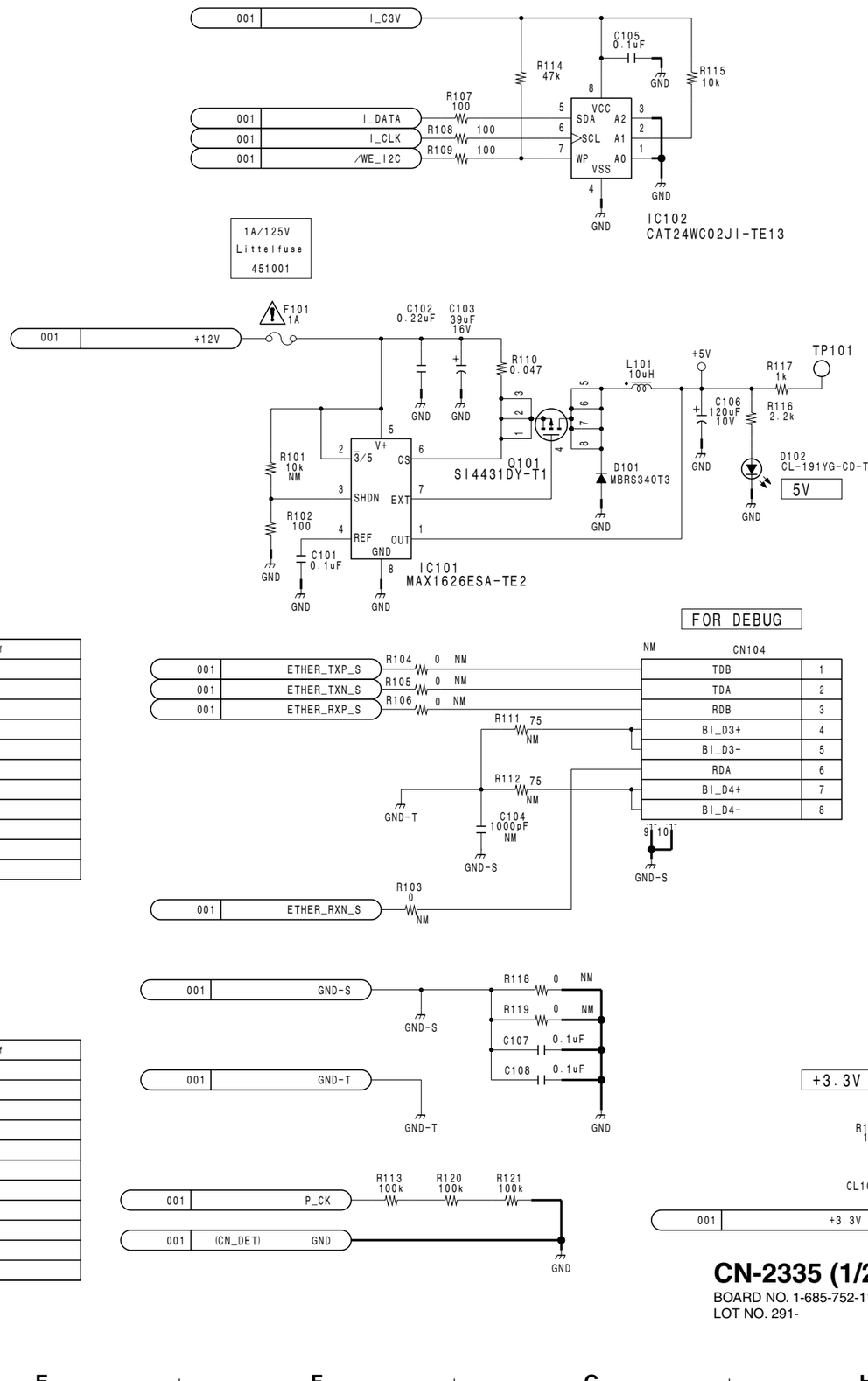
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2	+12V	+12V	+12V	+12V	+12V	GND
3	(NC) (SLOTA/B)	DTEN	BKCPU422RXP	BKCPU422RXN	BKCPU_CTS	GND
4	ACTEN	AE_IN	BKCPU422TXP	BKCPU422TXN	BKCPU_RTS	GND
5	RS422_BRX	RS422_B_TRM1	RS422_B_TRM2	BKCPU_DSR	BKCPU_DTR	GND
6	RS422_BTX	RS422_B_RTS	RS422_B_M/S	DSR	DTR	GND
7	RS422_ARX	RS422_A_TRM1	RS422_A_TRM2	RS232C_TX	CTS	GND
8	RS422_ATX	RS422_A_RTS	RS422_A_M/S	RS232C_RX	RTS	GND
9	SBUS_TX_B_S	SBUS_TRMSENS_B2	SBUS_TRM_B2	SBUS_IE_B2	SBUS_RX_B_S	GND
10	SBUS_IE_B1	SBUS_TRMSENS_B1	SBUS_TRM_B1	GND (CN_DET)	I_C3V	GND
11	(NC)	(NC)	P_CK	I_DATA	I_CLK	GND
12						GND
13						GND
14						GND
15	(NC)	(NC)	(NC)	(NC)	(NC)	GND
16	(NC)	(NC)	(NC)	(NC)	(NC)	GND
17	(NC)	(NC)	(NC)	(NC)	(NC)	GND
18	(NC)	(NC)	GND	(NC)	(NC)	GND
19	SBUS_TX_A_S	SBUS_TRM_A1	SBUS_TRMSENS_A1	SBUS_IE_A1	SBUS_RX_A_S	GND
20	TIME_CODE_S	(NC)	(NC)	/WE_I2C	ETHER_SW	GND
21	GND-S	GND-S	GND-S	GND-T	GND-T	GND
22	GND-S	ETHER_RXN_S	ETHER_RXP_S	GND-T	GND-T	GND
23	GND-S	ETHER_TXN_S	ETHER_TXP_S	GND-T	GND-T	GND
24	GND-S	GND-S	GND-S	GND	GND	GND
25	GND	GND	GND	(NC)	(NC)	GND

CN102

	z	a	b	c	d	e	f
1	GND	GND-S	GND-S	GND-S	GND-T	GND-T	GND
2	GND	GND-S	ETHER_TXN_S	ETHER_TXP_S	GND-T	GND-T	GND
3	GND	GND-S	ETHER_RXN_S	ETHER_RXP_S	GND-T	GND-T	GND
4	GND	GND-S	GND-S	GND-S	GND-T	GND-T	GND
5	GND	TIME_CODE_M	(NC)	(NC)	(NC)	ETHER_SW	GND
6	GND	GND	GND	GND	GND	GND	GND
7	GND	SBUS_TX_A_M	SBUS_TRM_A1	SBUS_TRMSENS_A1	SBUS_IE_A1	SBUS_RX_A_M	GND
8	GND	SBUS_TX_B_M	SBUS_TRMSENS_B2	SBUS_TRM_B2	SBUS_IE_B2	SBUS_RX_B_M	GND
9	GND	SBUS_IE_B1	SBUS_TRMSENS_B1	SBUS_TRM_B1	GND	GND	GND
10	GND	GND	GND	GND	GND	GND	GND
11	GND	GND	GND	GND	GND	GND	GND

CN103

	z	a	b	c	d	e	f
1	GND	RS232C_TX	GND	GND	GND	GND	GND
2	GND	RTS	DSR	DTR	CTS	RS232C_RX	GND
3	GND	(NC)	(NC)	(NC)	(NC)	(NC)	GND
4	GND	(NC)	(NC)	(NC)	BKCPU422RXP	BKCPU422RXN	GND
5	GND	RS422_ATX	RS422_A_RTS	RS422_A_M/S	BKCPU422TXP	BKCPU422TXN	GND
6	GND	RS422_ARX	RS422_A_TRM1	RS422_A_TRM2	BKCPU_CTS	BKCPU_RTS	GND
7	GND	RS422_BTX	RS422_B_RTS	RS422_B_M/S	BKCPU_DSR	BKCPU_DTR	GND
8	GND	RS422_BRX	RS422_B_TRM1	RS422_B_TRM2	DTEN	ACTEN	GND
9	GND	(NC)	(NC)	(NC)	(NC)	AE_IN	GND
10	GND	GND	GND	GND	GND	GND	GND
11	GND	+3.3V	+3.3V	GND	+5V	+5V	GND



CN-2335 (1/2)
BOARD NO. 1-685-752-11
LOT NO. 291-

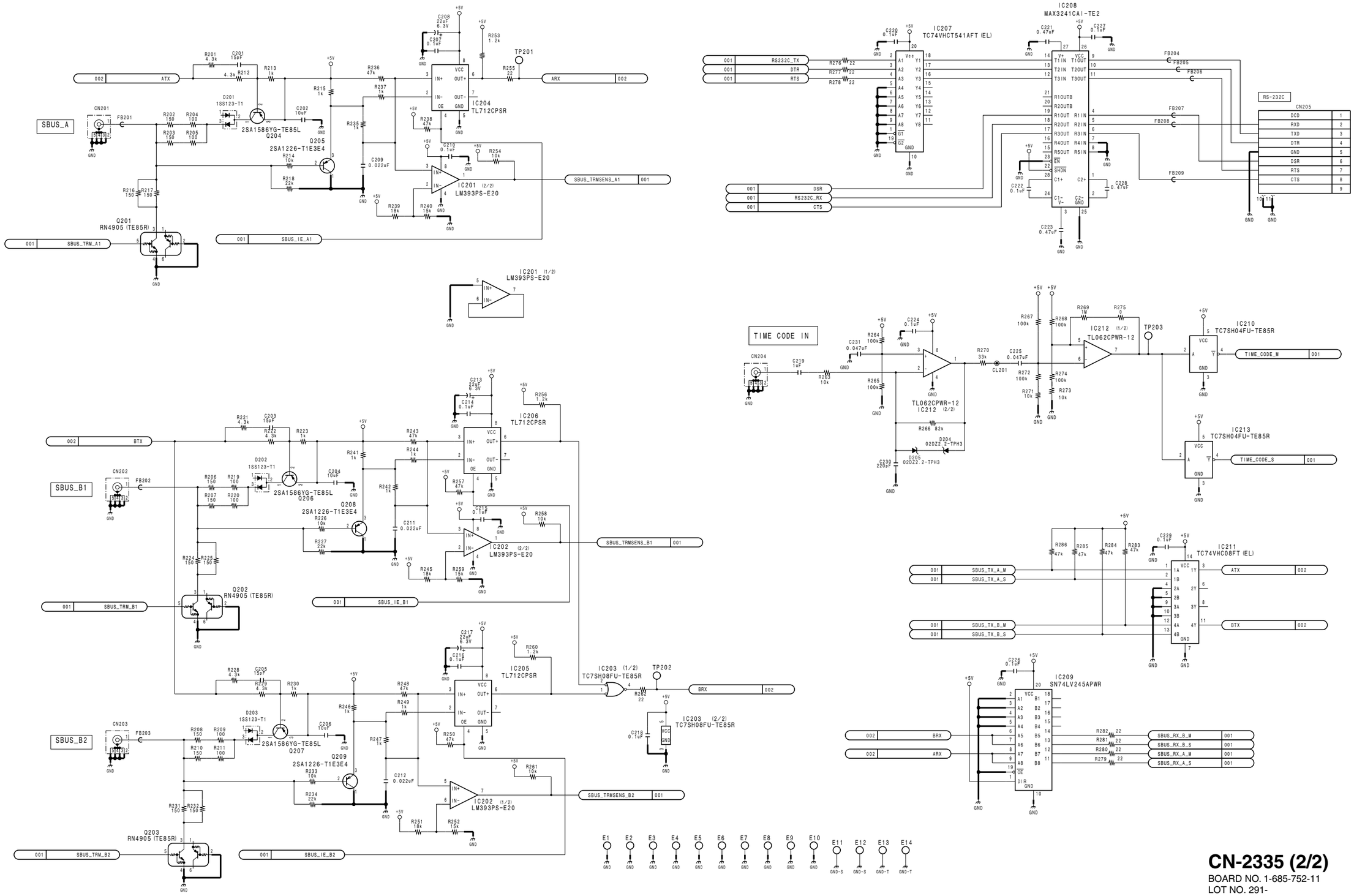
HKSP-R80

5-6

5-6

CN-2335 (2/2)
SUFFIX: -11

CN-2335 (2/2)
SUFFIX: -11



CN-2335 (2/2)
BOARD NO. 1-685-752-11
LOT NO. 291-

CN-2335 (1/3)
SUFFIX: -12

CN101

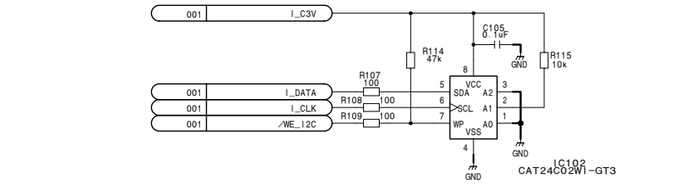
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2	+12V	+12V	+12V	+12V	+12V	GND
3	(NC) (SLOTA/B)	DTEN	BKCPU422RXP	BKCPU422RXN	BKCPU_CTS	GND
4	ACTEN	AE_IN	BKCPU422TXP	BKCPU422TXN	BKCPU_RTS	GND
5	RS422_BRX	RS422_B_TRM1	RS422_B_TRM2	BKCPU_DSR	BKCPU_DTR	GND
6	RS422_BTX	RS422_B_RTS	RS422_B_M/S	DSR	DTR	GND
7	RS422_ARX	RS422_A_TRM1	RS422_A_TRM2	RS232C_TX	CTS	GND
8	RS422_ATX	RS422_A_RTS	RS422_A_M/S	RS232C_RX	RTS	GND
9	SBUS_TX_B_S	SBUS_TRMSENS_B2	SBUS_TRM_B2	SBUS_IE_B2	SBUS_RX_B_S	GND
10	SBUS_IE_B1	SBUS_TRMSENS_B1	SBUS_TRM_B1	CN_DET	I_C3V	GND
11	(NC)	(NC)	P_CK	I_DATA	I_CLK	GND
12						GND
13						GND
14						GND
15	(NC)	(NC)	(NC)	(NC)	(NC)	GND
16	(NC)	(NC)	(NC)	(NC)	(NC)	GND
17	(NC)	(NC)	(NC)	(NC)	(NC)	GND
18	(NC)	(NC)	GND	(NC)	(NC)	GND
19	SBUS_TX_A_S	SBUS_TRM_A1	SBUS_TRMSENS_A1	SBUS_IE_A1	SBUS_RX_A_S	GND
20	TIME_CODE_S	(NC)	(NC)	/WE_I2C	ETHER_SW	GND
21	GND-S	GND-S	GND-S	GND-T	GND-T	GND
22	GND-S	ETHER_RXN_S	ETHER_RXP_S	GND-T	GND-T	GND
23	GND-S	ETHER_TXN_S	ETHER_TXP_S	GND-T	GND-T	GND
24	GND-S	GND-S	GND-S	GND	GND	GND
25	GND	GND	GND	(NC)	(NC)	GND

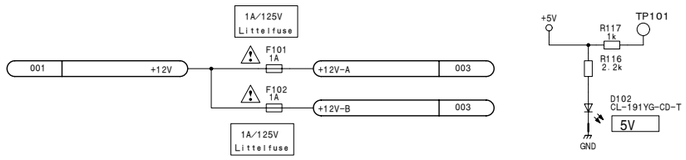
CN102

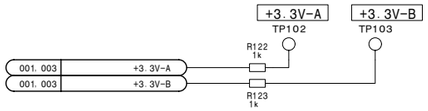
	z	a	b	c	d	e	f
1	GND	GND-S	GND-S	GND-S	GND-T	GND-T	GND
2	GND	GND-S	ETHER_TXN_S	ETHER_TXP_S	GND-T	GND-T	GND
3	GND	GND-S	ETHER_RXN_S	ETHER_RXP_S	GND-T	GND-T	GND
4	GND	GND-S	GND-S	GND-S	GND-T	GND-T	GND
5	GND	TIME_CODE_M	(NC)	(NC)	(NC)	ETHER_SW	GND
6	GND	GND	GND	GND	GND	GND	GND
7	GND	SBUS_TX_A_M	SBUS_TRM_A1	SBUS_TRMSENS_A1	SBUS_IE_A1	SBUS_RX_A_M	GND
8	GND	SBUS_TX_B_M	SBUS_TRMSENS_B2	SBUS_TRM_B2	SBUS_IE_B2	SBUS_RX_B_M	GND
9	GND	SBUS_IE_B1	SBUS_TRMSENS_B1	SBUS_TRM_B1	GND	GND	GND
10	GND	GND	GND	GND	GND	GND	GND
11	GND	GND	GND	GND	GND	GND	GND

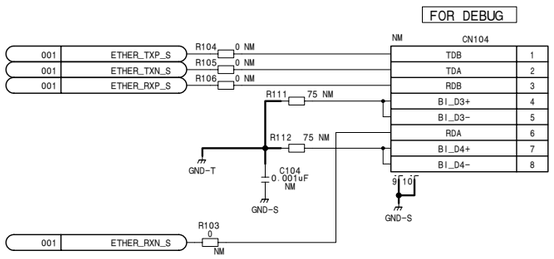
CN103

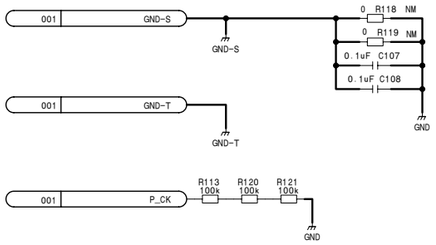
	z	a	b	c	d	e	f
1	GND	RS232C_TX	GND	GND	GND	GND	GND
2	GND	RTS	DSR	DTR	CTS	RS232C_RX	GND
3	GND	(NC)	(NC)	(NC)	(NC)	(NC)	GND
4	GND	(NC)	(NC)	(NC)	BKCPU422RXP	BKCPU422RXN	GND
5	GND	RS422_ATX	RS422_A_RTS	RS422_A_M/S	BKCPU422TXP	BKCPU422TXN	GND
6	GND	RS422_ARX	RS422_A_TRM1	RS422_A_TRM2	BKCPU_CTS	BKCPU_RTS	GND
7	GND	RS422_BTX	RS422_B_RTS	RS422_B_M/S	BKCPU_DSR	BKCPU_DTR	GND
8	GND	RS422_BRX	RS422_B_TRM1	RS422_B_TRM2	DTEN	ACTEN	GND
9	GND	(NC)	(NC)	(NC)	(NC)	AE_IN	GND
10	GND	CN_CHK	GND	GND	(NC) (CN_CHK @2334)	GND	GND
11	GND	+3.3V-A	+3.3V-B	GND	+5V-A	+5V-B	GND







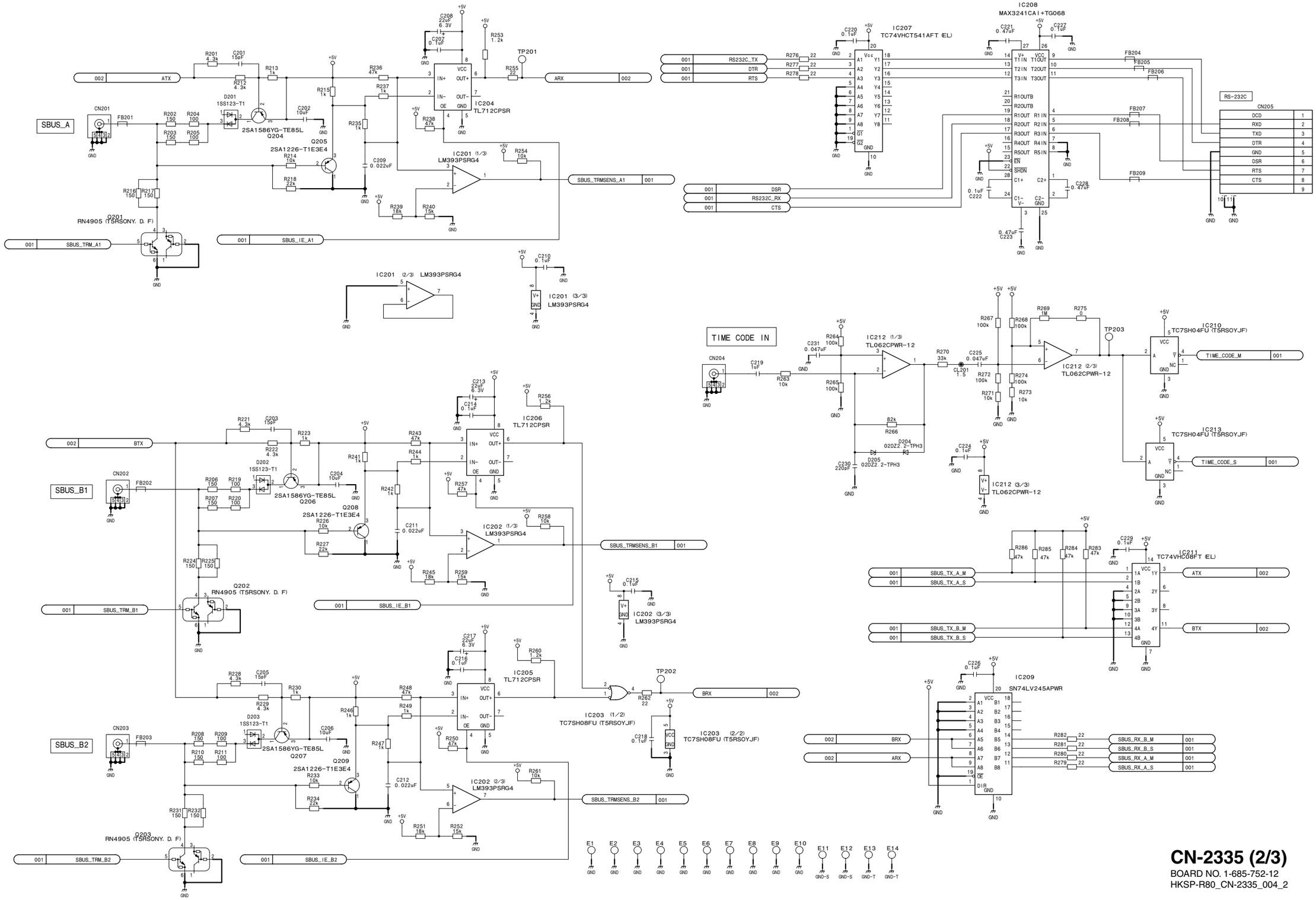




CN-2335 (1/3)
BOARD NO. 1-685-752-12
HKSP-R80_CN-2335_004_1

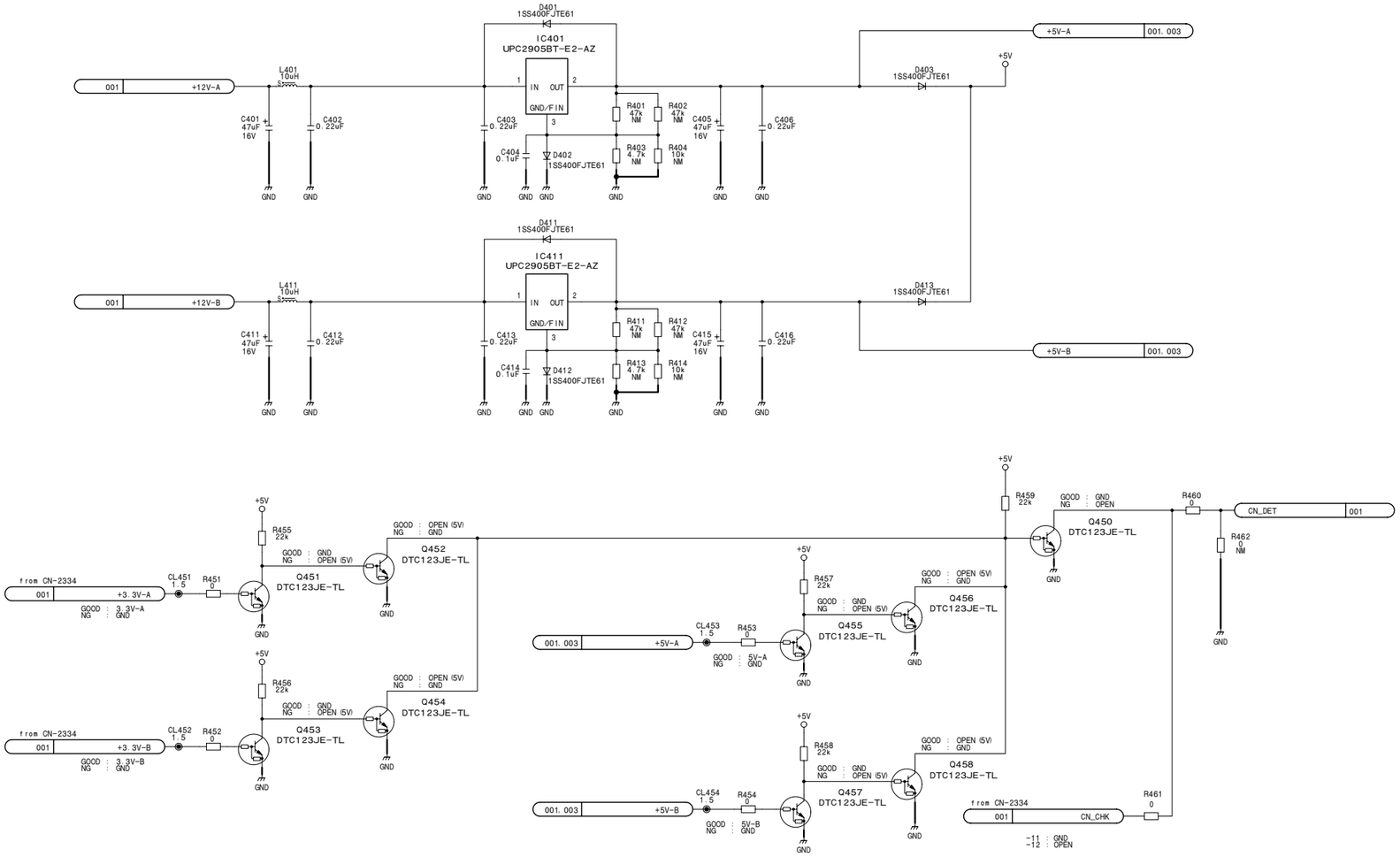
CN-2335 (2/3)
SUFFIX: -12

CN-2335 (2/3)
SUFFIX: -12



CN-2335 (2/3)
BOARD NO. 1-685-752-12
HKSP-R80_CN-2335_004_2

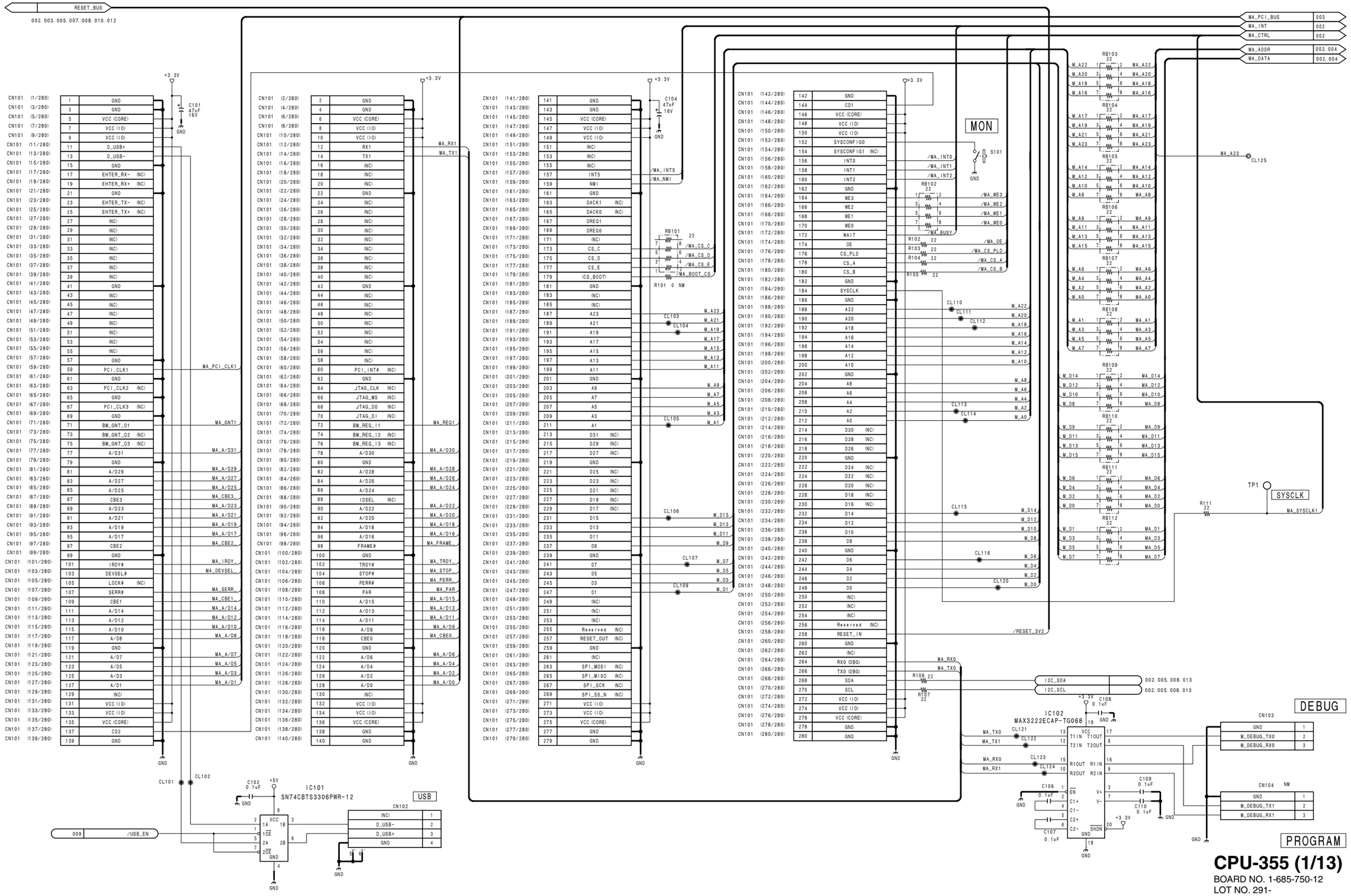
CN-2335 (3/3)
SUFFIX: -12



CN-2335 (3/3)

BOARD NO. 1-685-752-12
HKSP-R80_CN-2335_004_3

CPU-355 (1/13)



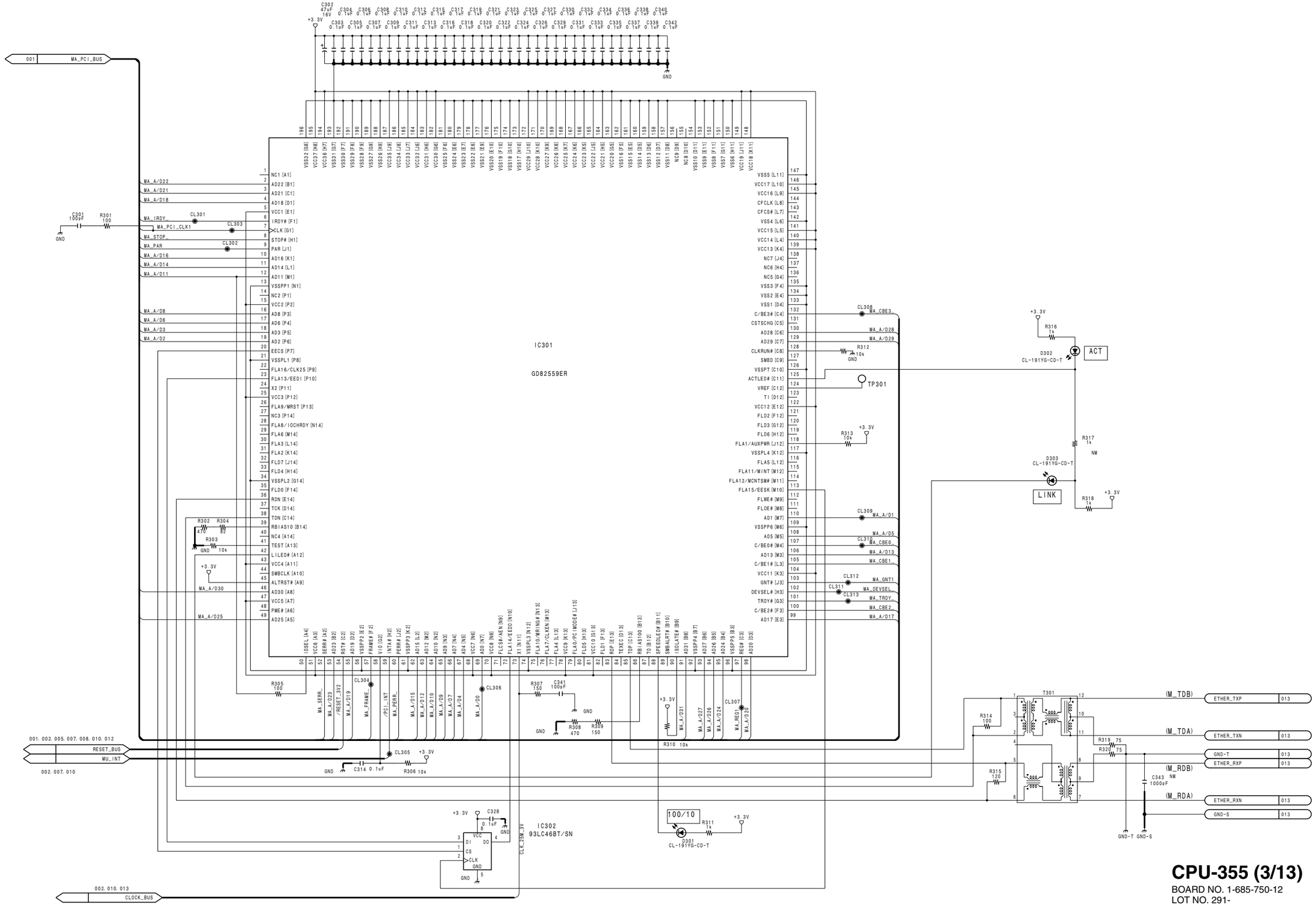
CPU-355 (1/13)

BOARD NO. 1-685-750-12
LOT NO. 291-

CPU-355 (2/13)

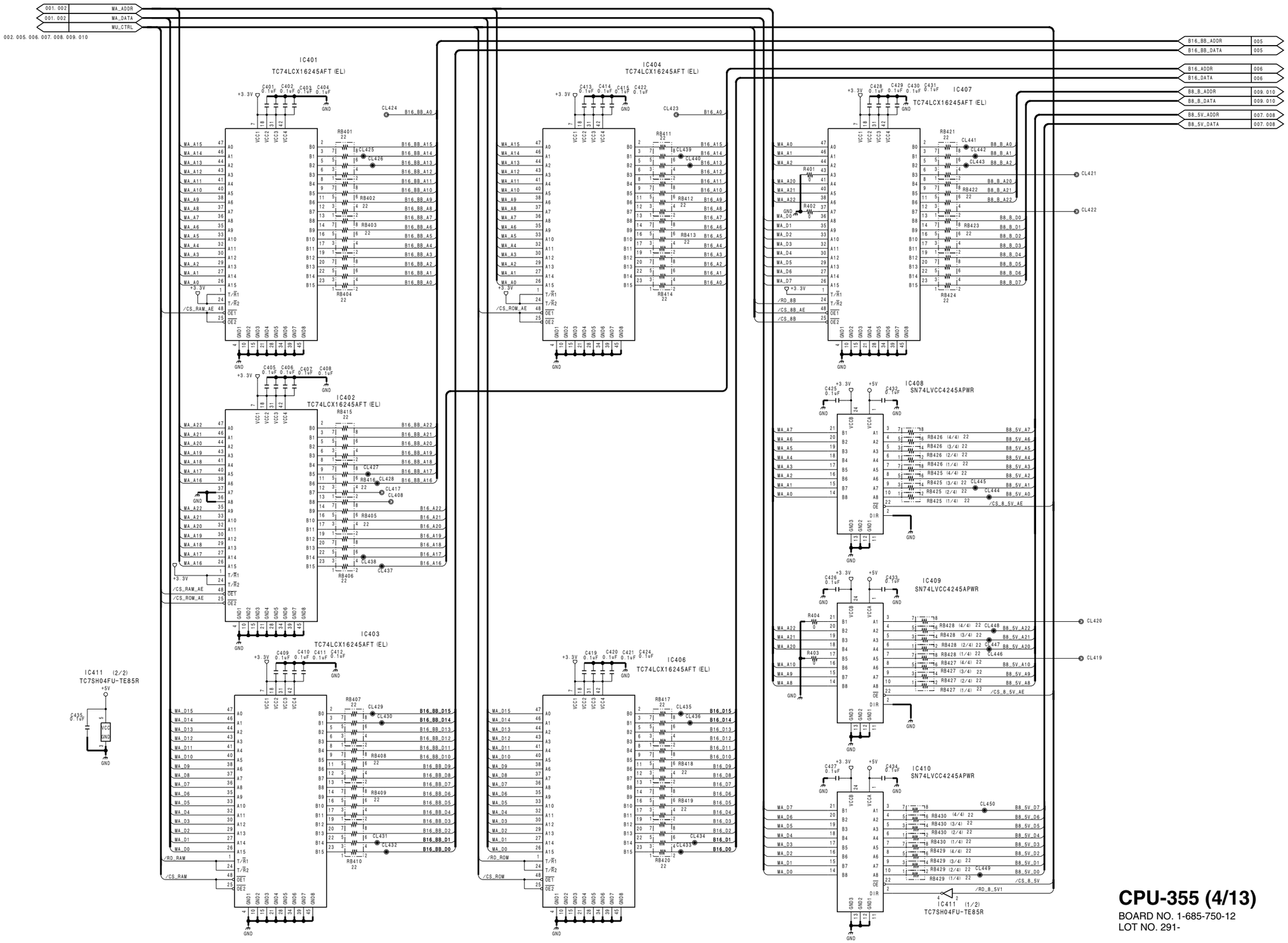
BOARD NO. 1-685-750-12
LOT NO. 291-

CPU-355 (3/13)



CPU-355 (3/13)
BOARD NO. 1-685-750-12
LOT NO. 291-

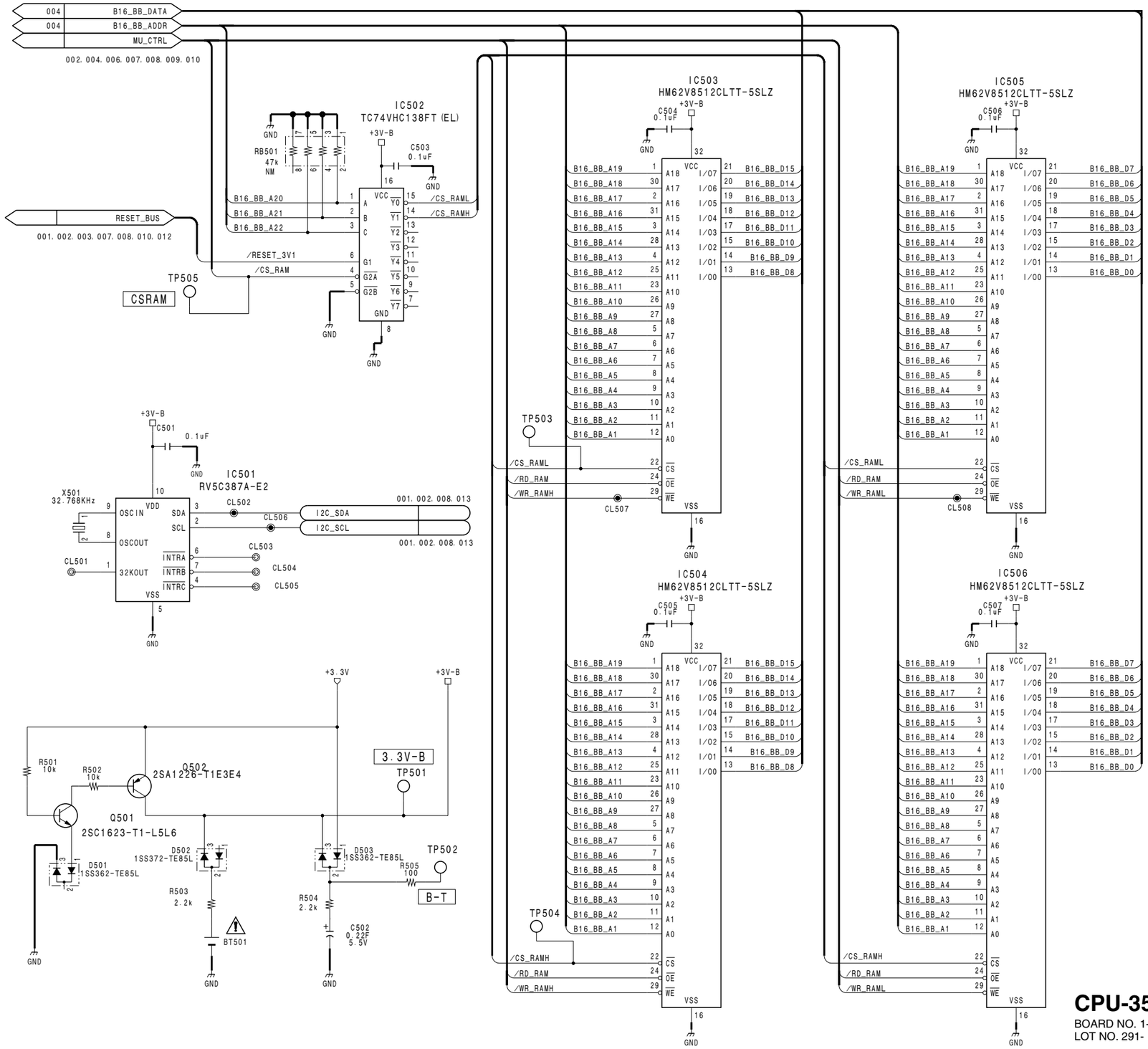
CPU-355 (4/13)



CPU-355 (4/13)

BOARD NO. 1-685-750-12
LOT NO. 291-

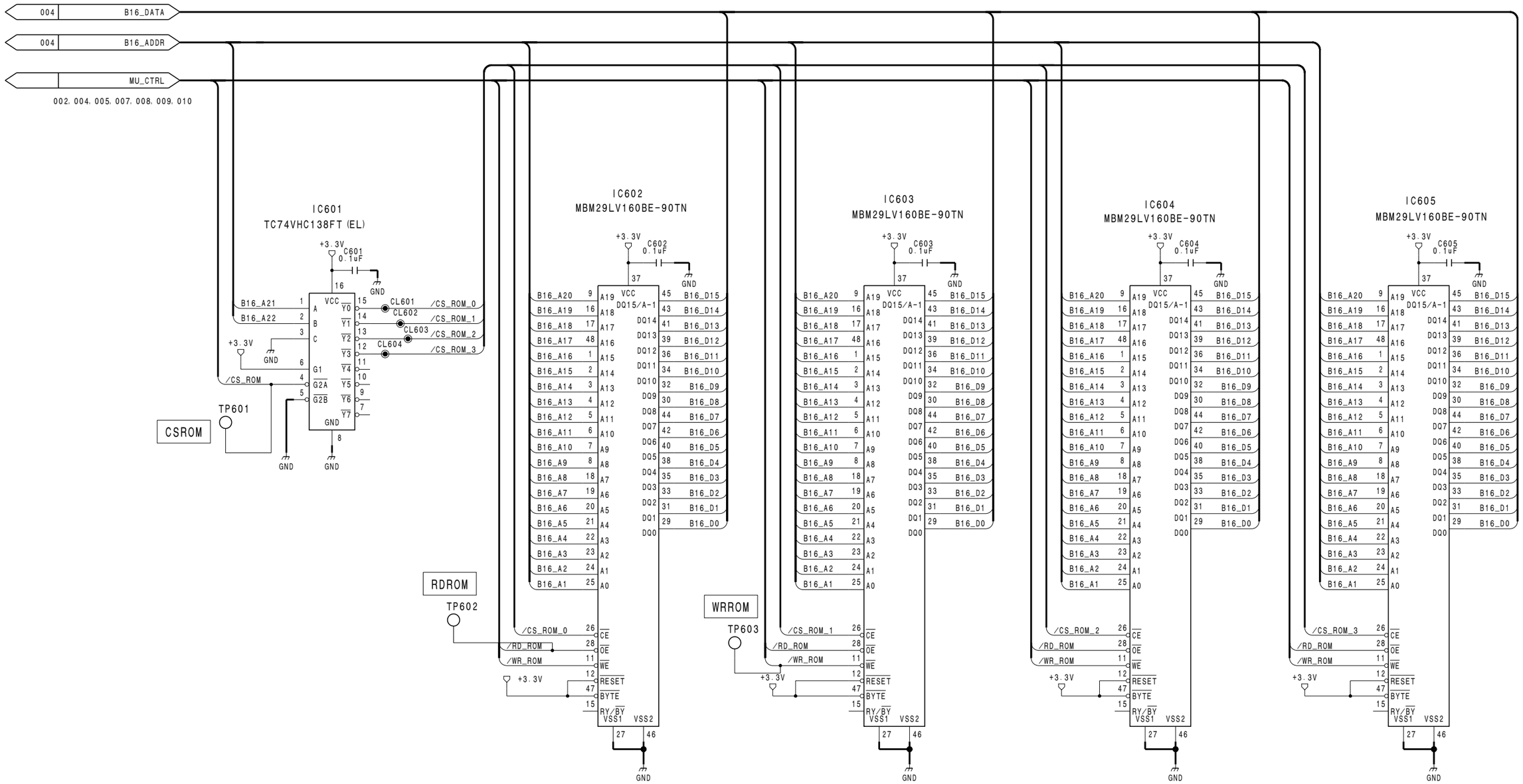
CPU-355 (5/13)



CPU-355 (5/13)

BOARD NO. 1-685-750-12
LOT NO. 291-

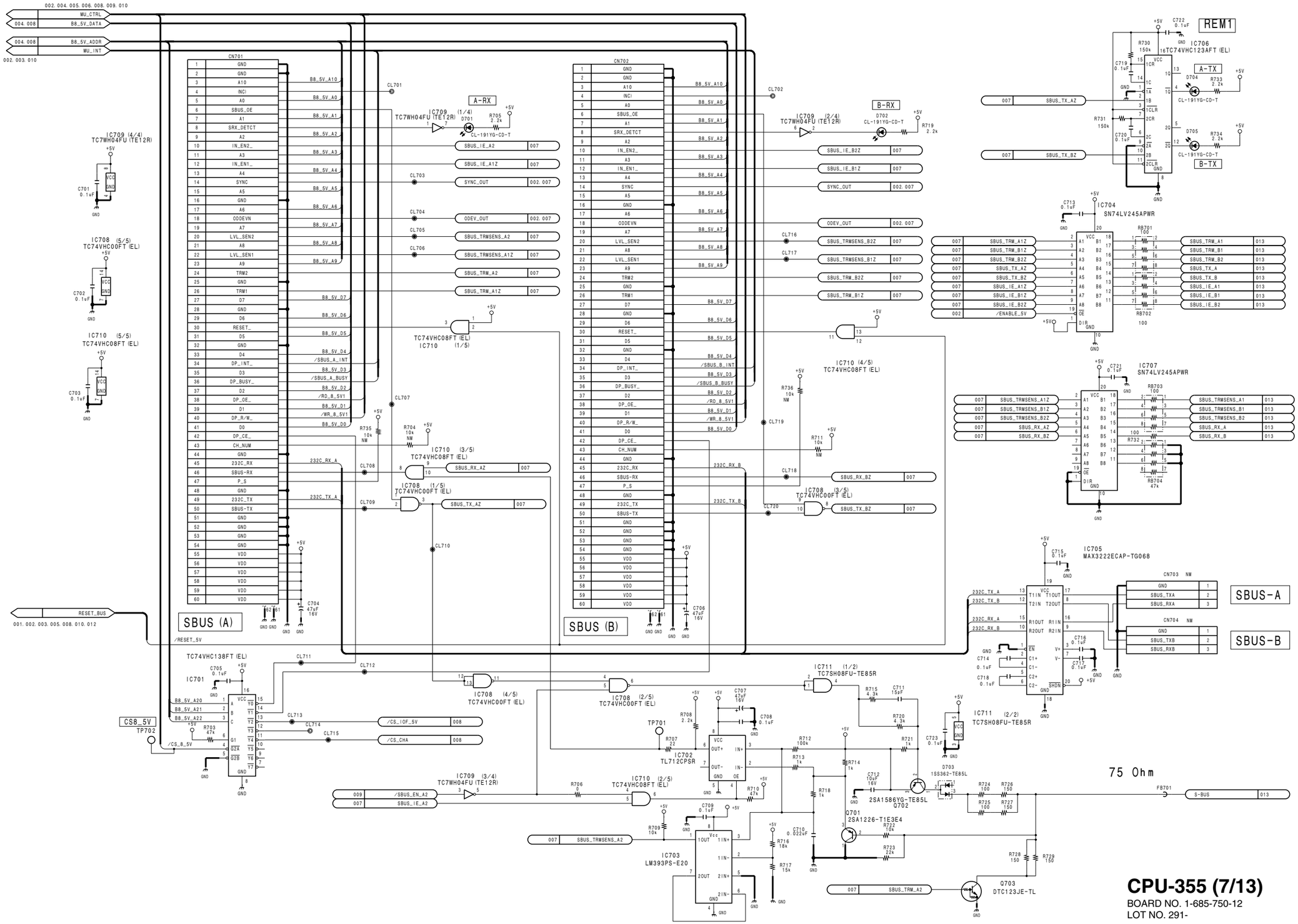
CPU-355 (6/13)



5-14

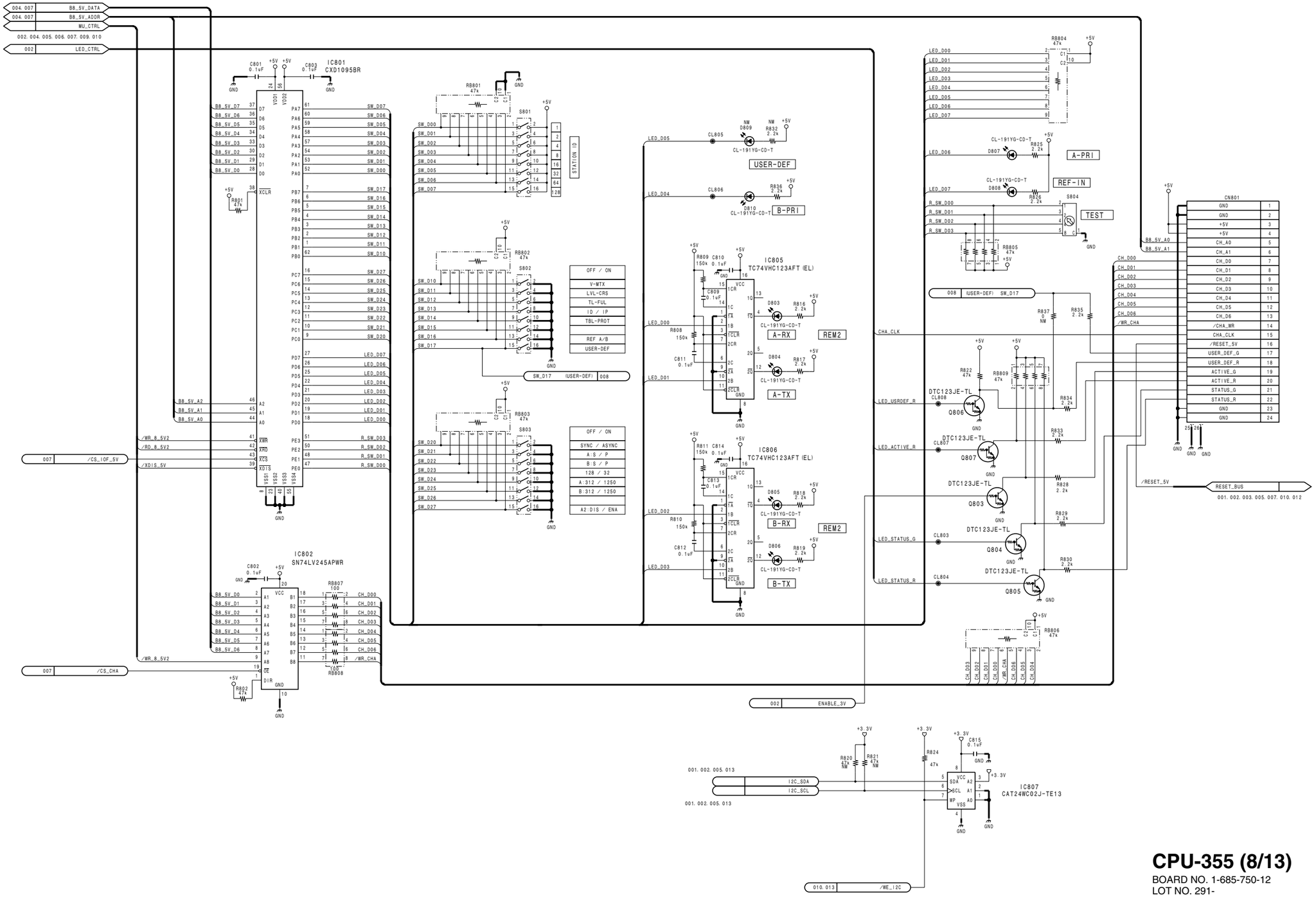
CPU-355 (6/13)
BOARD NO. 1-685-750-12
LOT NO. 291-

CPU-355 (7/13)



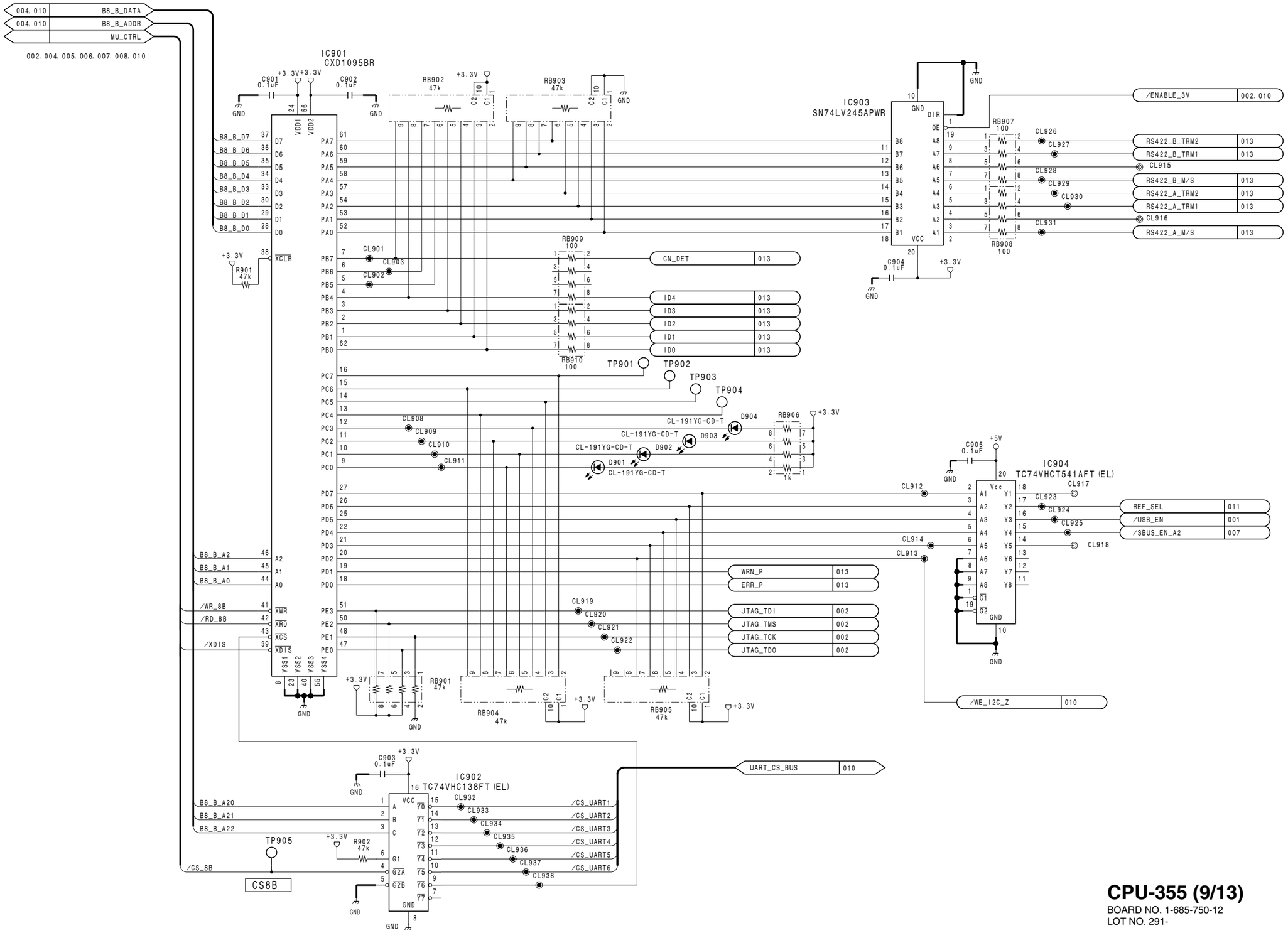
CPU-355 (7/13)
BOARD NO. 1-685-750-12
LOT NO. 291-

CPU-355 (8/13)



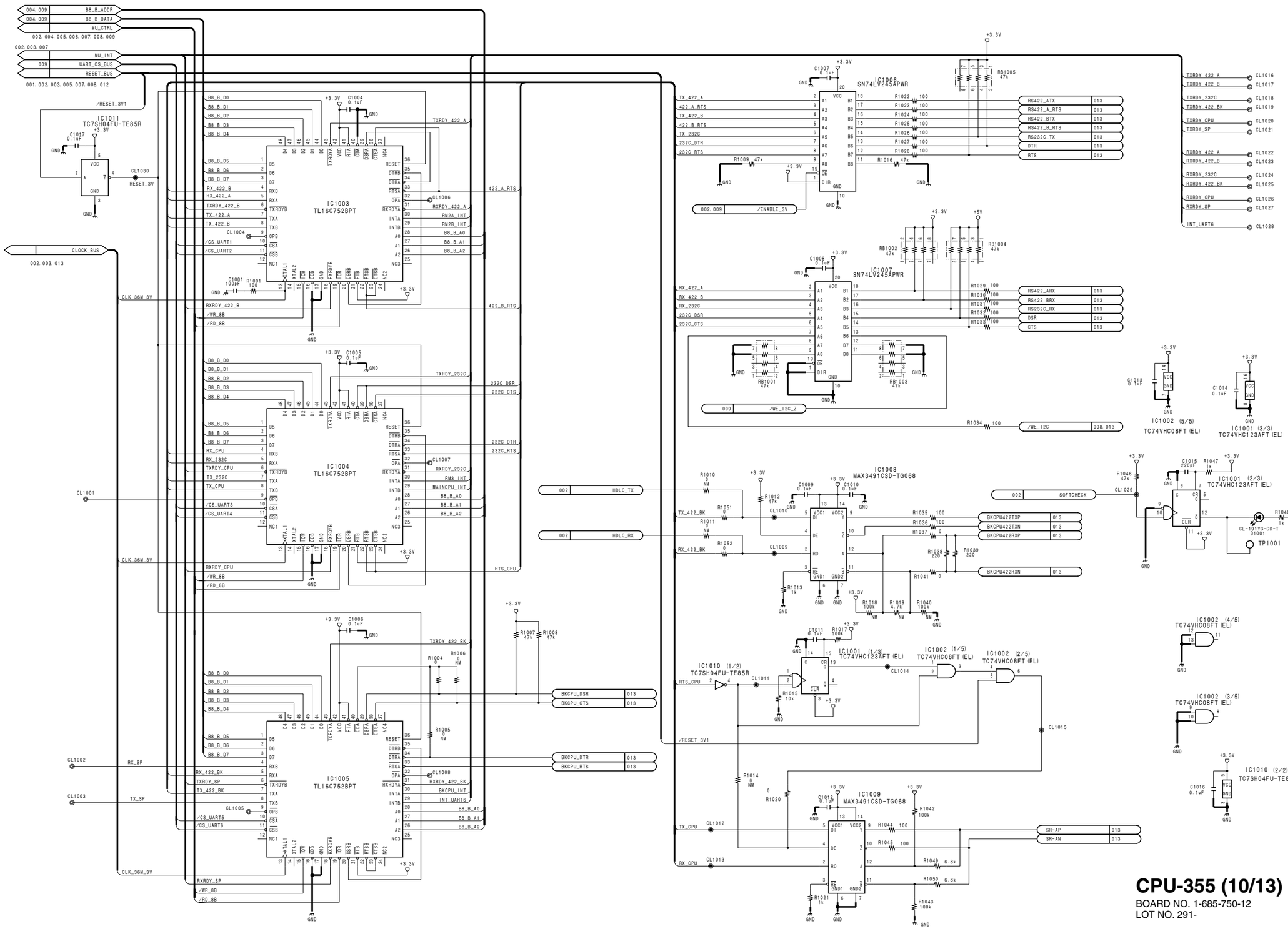
CPU-355 (8/13)

BOARD NO. 1-685-750-12
LOT NO. 291-



CPU-355 (9/13)
BOARD NO. 1-685-750-12
LOT NO. 291-

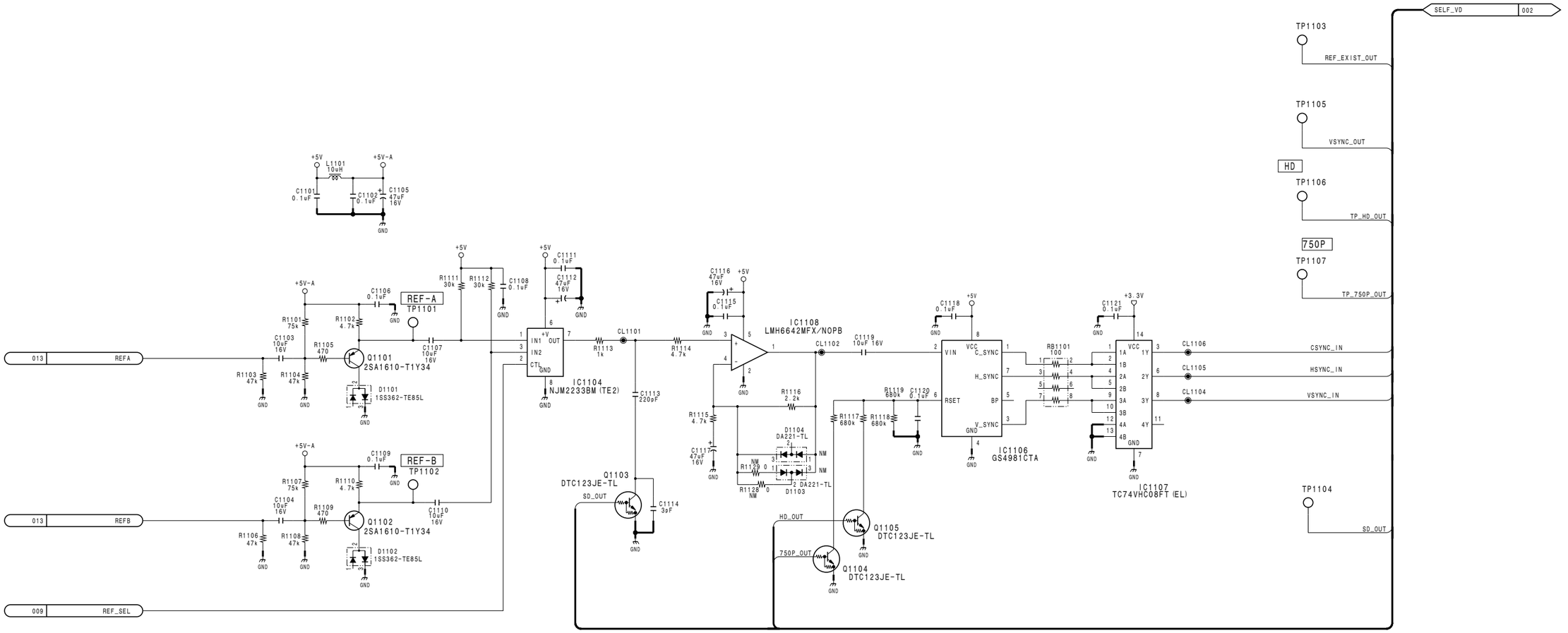
CPU-355 (10/13)



CPU-355 (10/13)

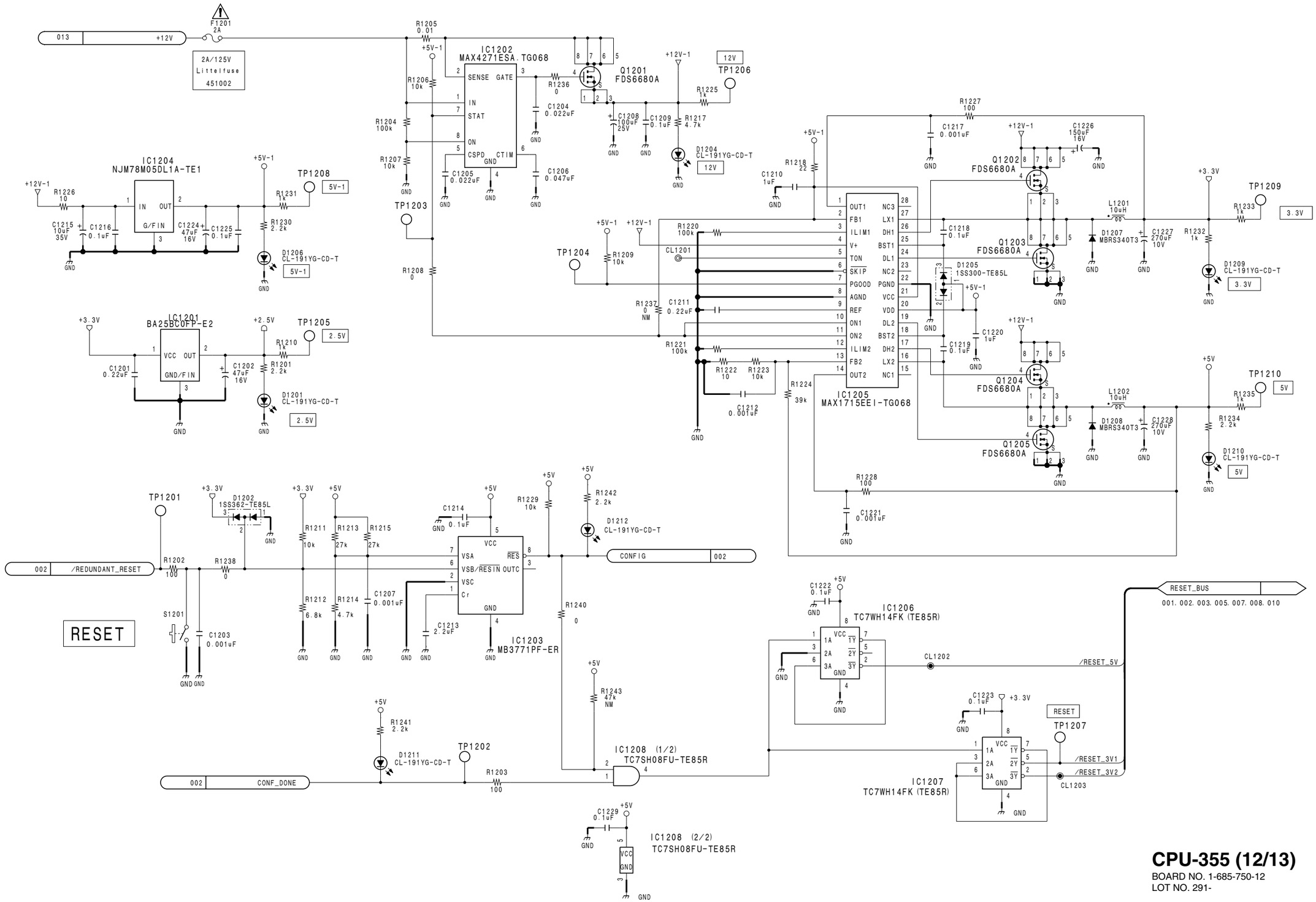
BOARD NO. 1-685-750-12
LOT NO. 291-

CPU-355 (11/13)



CPU-355 (11/13)

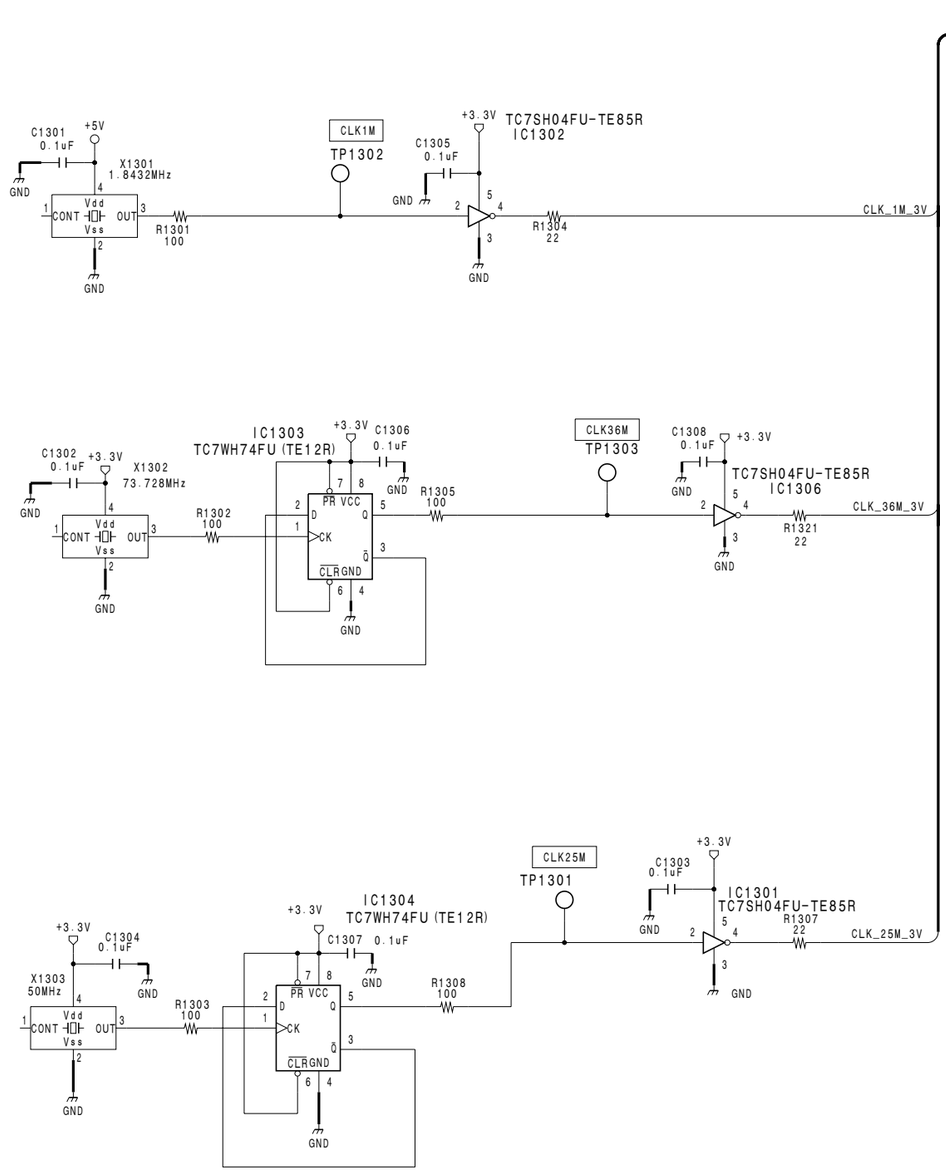
BOARD NO. 1-685-750-12
LOT NO. 291-



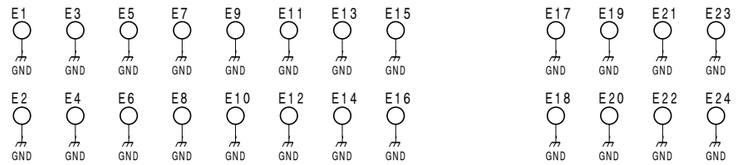
CPU-355 (12/13)

BOARD NO. 1-685-750-12
LOT NO. 291-

CPU-355 (13/13)

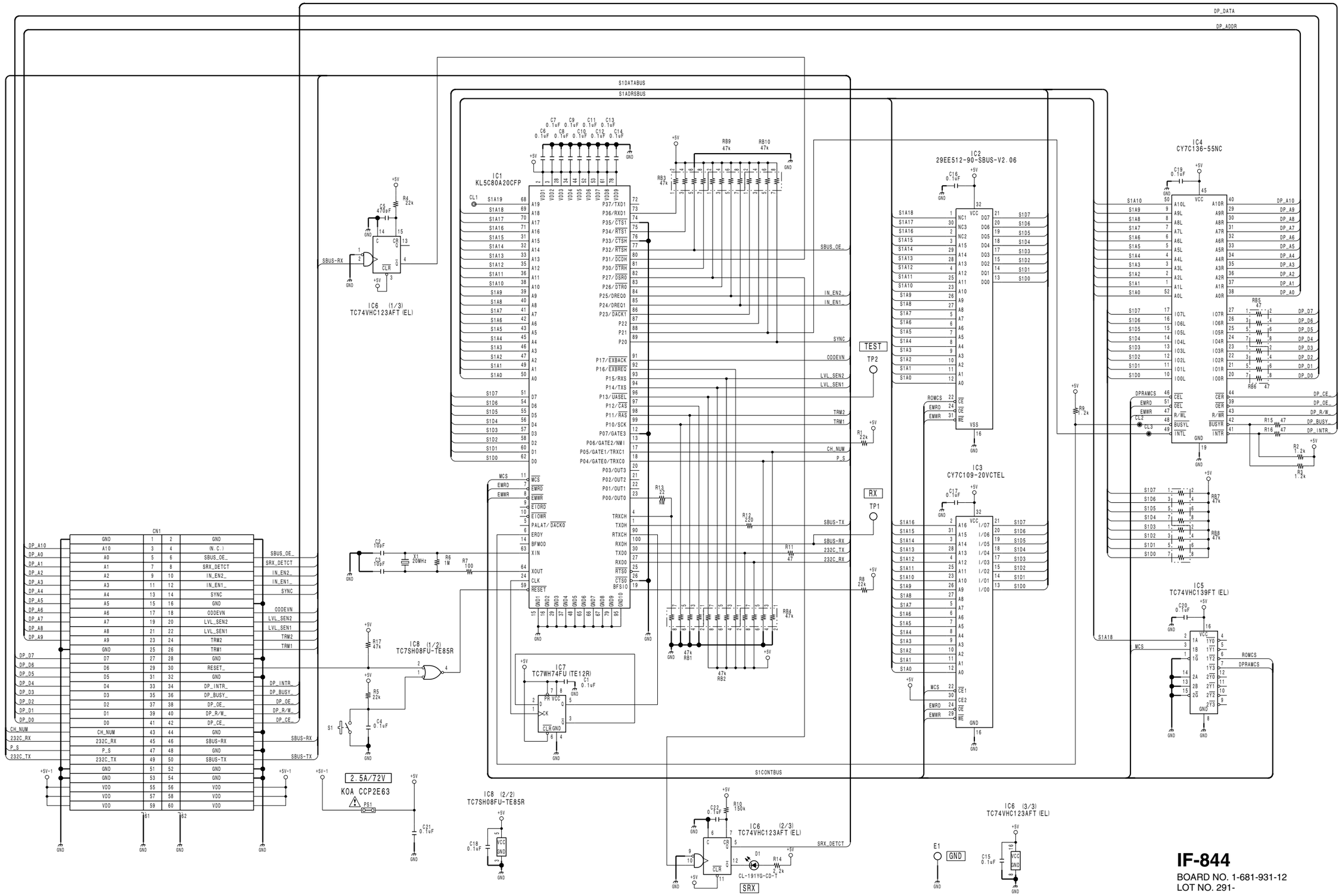


	a	b	c	d	e	FG
1	GND	GND	GND	(NC)	(NC)	GND
2	GND-S	GND-S	GND-S	GND	GND	GND
3	GND-S	ETHER_TXN	ETHER_TXP	GND-T	GND-T	GND
4	GND-S	ETHER_RXN	ETHER_RXP	GND-T	GND-T	GND
5	GND-S	GND-S	GND-S	GND-T	GND-T	GND
6	TIME_CODE	(NC)	(NC)	/WE_I2C	ETHER_SW	GND
7	SBUS_TX_A	SBUS_TRM_A1	SBUS_TRMSENS_A1	SBUS_IE_A1	SBUS_RX_A	GND
8	(NC)	(NC)	GND	(NC)	(NC)	GND
9	(NC)	(NC)	(NC)	SR-AP	SR-AN	GND
10	ID0	ID1	ID2	ID3	ID4	GND
11	REFB	(NC)	S-BUS	GND (DET_N)	REFA	GND
12						GND
13						GND
14						GND
15	ERR	WARN	P_CK	I_DATA	I_CLK	GND
16	SBUS_IE_B1	SBUS_TRMSENS_B1	SBUS_TRM_B1	CN_DET	I_C3V	GND
17	SBUS_TX_B	SBUS_TRMSENS_B2	SBUS_TRM_B2	SBUS_IE_B2	SBUS_RX_B	GND
18	RS422_ATX	RS422_A_RTS	RS422_A_M/S	RS232C_RX	RTS	GND
19	RS422_ARX	RS422_A_TRM1	RS422_A_TRM2	RS232C_TX	CTS	GND
20	RS422_BTX	RS422_B_RTS	RS422_B_M/S	DSR	DTR	GND
21	RS422_BRX	RS422_B_TRM1	RS422_B_TRM2	BKCPU_DSR	BKCPU_DTR	GND
22	ACTEN	AE_IN	BKCPU422TXP	BKCPU422TXN	BKCPU_RTS	GND
23	SLOT_AB	DTEN	BKCPU422RXP	BKCPU422RXN	BKCPU_CTS	GND
24	+12V	+12V	+12V	+12V	+12V	GND
25	GND	GND	GND	GND	GND	GND



CPU-355 (13/13)
BOARD NO. 1-685-750-12
LOT NO. 291-

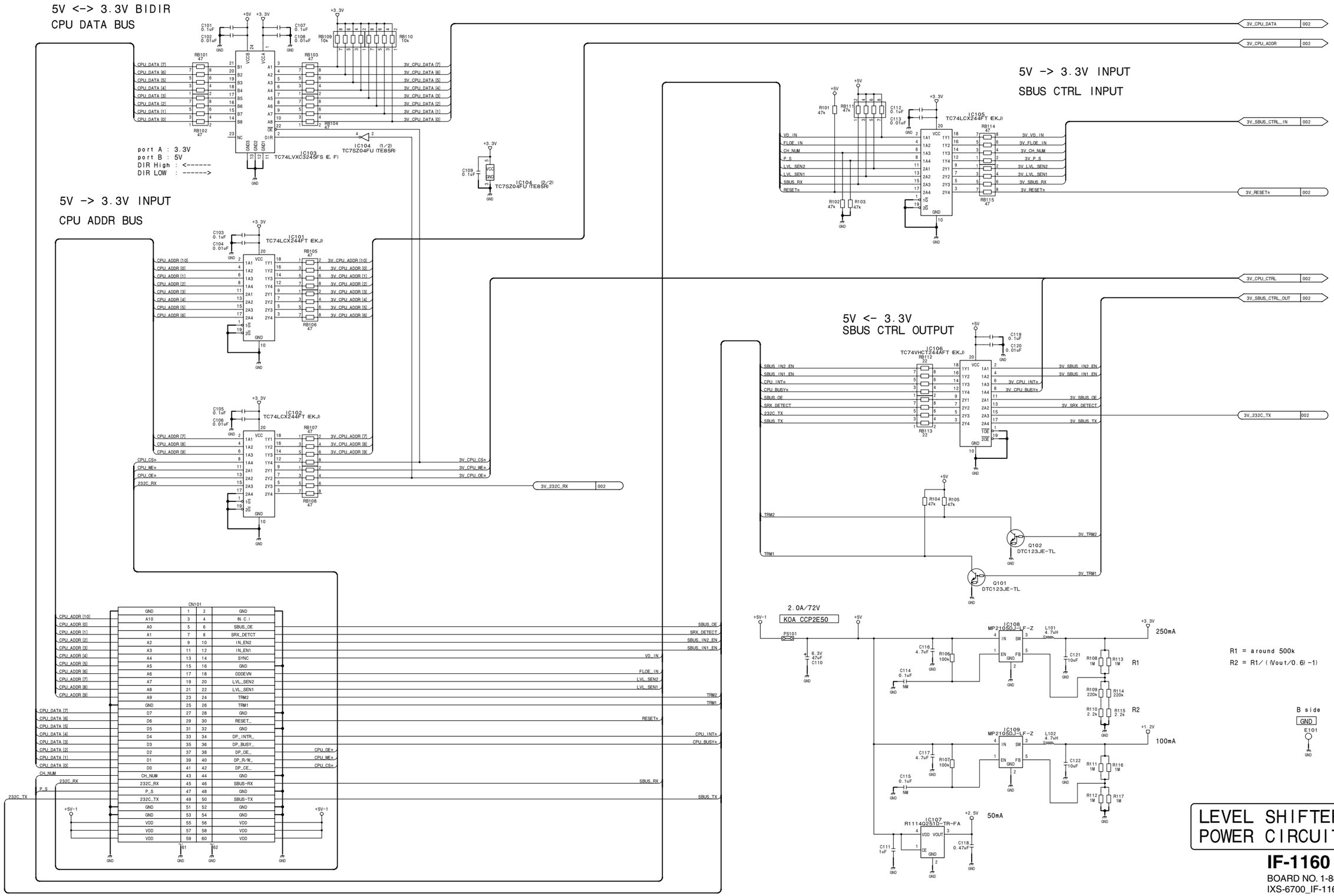
5-21



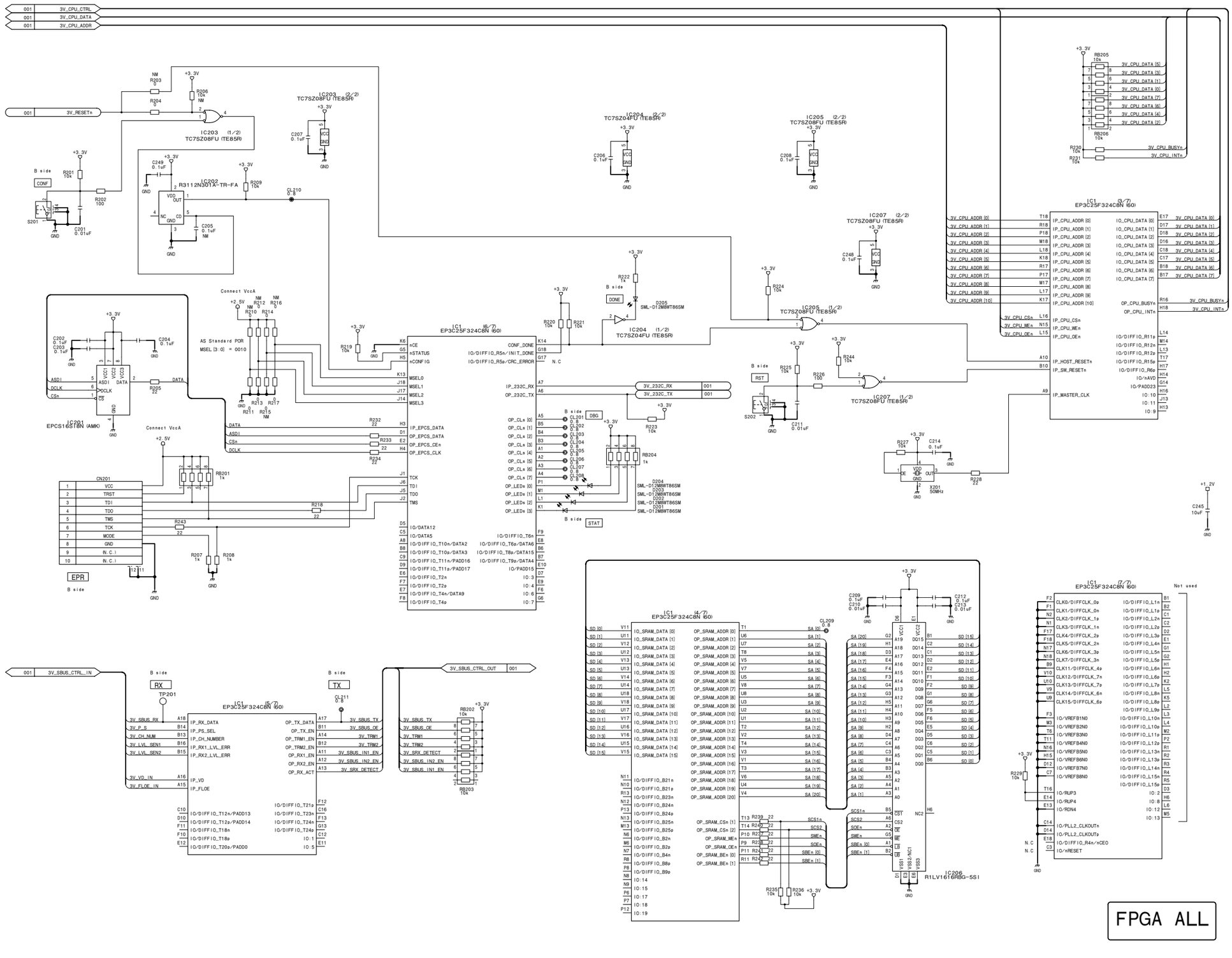
IF-844

BOARD NO. 1-681-931-12
LOT NO. 291-

IF-1160 (1/2)


5V <-> 3.3V BIDIR
CPU DATA BUS
port A : 3.3V
port B : 5V
DIR High : <------
DIR LOW : ------>
IC103 TC74LVXC3245FS (E, F)
IC104 (1/2) TC7SZ04FU (TE85R)
IC104 (2/2) TC7SZ04FU (TE85R)
5V -> 3.3V INPUT
CPU ADDR BUS
IC101 TC74LCX244FT (EKJ)
IC102 TC74LCX244FT (EKJ)
CN101
5V -> 3.3V INPUT
SBUS CTRL INPUT
IC105 TC74LCX244FT (EKJ)
5V <- 3.3V
SBUS CTRL OUTPUT
IC106 TC74VHCT244AFT (EKJ)
Q102 DTC123JE-TL
Q101 DTC123JE-TL
2.0A/72V
KOA CCP2E50
IC108 MP21050J-LF-Z
IC109 MP21050J-LF-Z
IC107 R1114Q251D-TR-FA
250mA
100mA
50mA
R1 = around 500k
R2 = R1/((Vout/0.6)-1)
B side
GND
E101
LEVEL SHIFTER
POWER CIRCUIT
IF-1160 (1/2)
BOARD NO. 1-883-807-11
IXS-6700_IF-1160_001_1

IF-1160 (2/2)

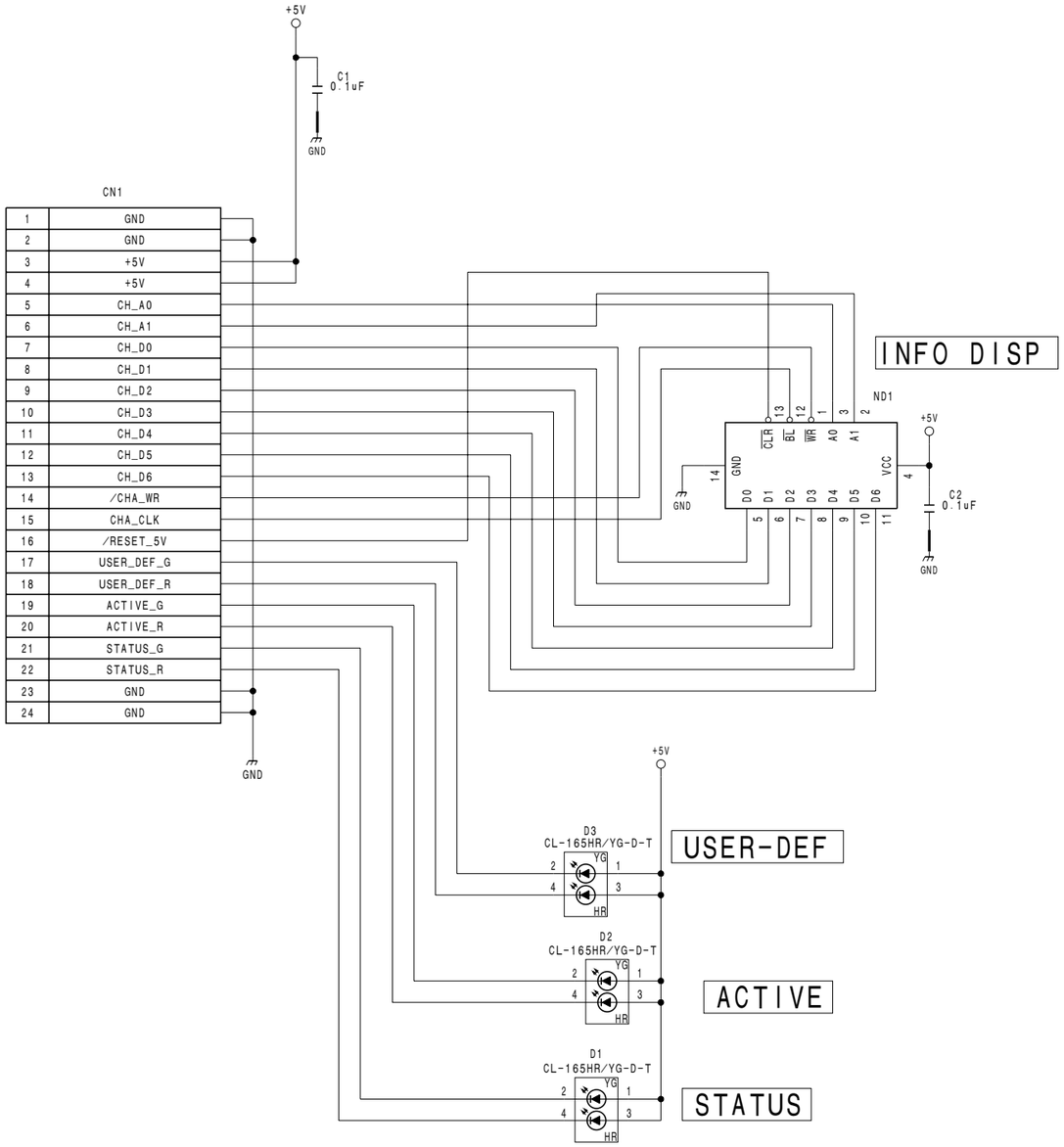


IF-1160 (2/2)

BOARD NO. 1-883-807-11
IXS-6700_IF-1160_001_2

5-24

HKSP-R80



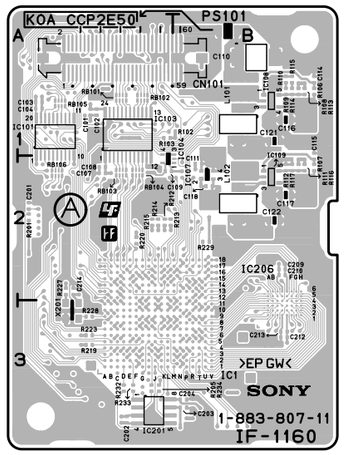
LE-264

BOARD NO. 1-685-753-11
LOT NO. 291-

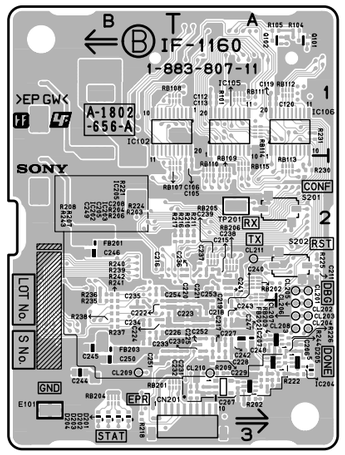
IF-844, IF-1160, LE-264

Section 6
Board Layouts

Index



IF-1160 -A SIDE-
SUFFIX: -11

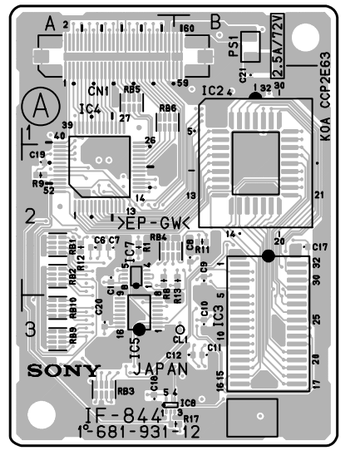


IF-1160 -B SIDE-
SUFFIX: -11

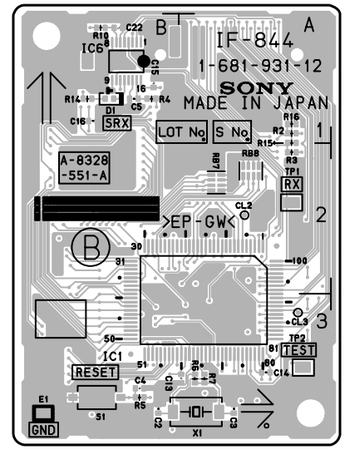
IF-1160 (1-883-807-11)

*: B SIDE

C101	A1	C205	*A3	C231	*A3	CL202	*A3	IC1	A3	R101	*A1	R210	*A2	R236	*B2	RB202	*A2
C102	A1	C206	*A3	C232	*A3	CL203	*A3	IC101	A1	R102	A1	R211	*A2	R237	*B3	RB203	*A2
C103	A1	C207	*A3	C233	*B3	CL204	*A3	IC102	*B1	R103	A1	R212	A2	R238	*B3	RB204	*B3
C104	A1	C208	*A3	C234	*B3	CL205	*A2	IC103	A1	R104	*A1	R213	A2	R239	*B3	RB205	*A2
C105	*A2	C209	B2	C235	*B3	CL206	*A3	IC104	A2	R105	*A1	R214	A2	R240	*B2	RB206	*A2
C106	*A2	C210	B2	C236	*A2	CL207	*A3	IC105	*A1	R106	B1	R215	A2	R241	*B3		
C107	A2	C211	*A2	C237	*A2	CL208	*A3	IC106	*A1	R107	B2	R216	*A2	R242	*B3	S201	*A2
C108	A2	C212	B3	C238	*A2	CL209	*B3	IC107	B2	R108	B1	R217	*A2	R243	*A3	S202	*A2
C109	A2	C213	B3	C239	*A2	CL210	*A3	IC108	B1	R109	B1	R218	*B3	R244	*A3		
C110	B1	C214	A2	C240	*A3	CL211	*A2	IC109	B2	R110	B1	R219	A3			TP201	*A2
C111	B2	C215	*A2	C241	*A2			IC201	A3	R111	B2	R220	A2	RB101	A1		
C112	*A1	C216	*B2	C242	*A3	CN101	A1	IC202	*A3	R112	B2	R221	*A3	RB102	A1	X201	A3
C113	*A1	C217	*A3	C243	*A3	CN201	*A3	IC203	*A3	R113	B1	R222	*A3	RB103	A2		
C114	B1	C218	*A3	C244	*B3			IC204	*A3	R114	B1	R223	A3	RB104	A2		
C115	B2	C219	*A3	C245	*B3	D201	*B3	IC205	*A3	R115	B1	R224	*A3	RB105	A1		
C116	B1	C220	*A3	C246	*B2	D202	*B3	IC206	B3	R116	B2	R225	*A2	RB106	A2		
C117	B2	C221	*A3	C247	*A3	D203	*B3	IC207	*A3	R117	B2	R226	*A3	RB107	*A2		
C118	B2	C222	*B3	C248	*A3	D204	*B3			R201	A2	R227	A2	RB108	*A1		
C119	*A1	C223	*B3	C249	*A3	D205	*A3	L101	B1	R202	*A3	R228	A3	RB109	*A2		
C120	*A1	C224	*B3	C250	*B3			L102	B2	R203	*A3	R229	B2	RB110	*A2		
C121	B1	C225	*A3	C251	*B3	E101	*B3			R204	*A3	R230	*A2	RB111	*A1		
C122	B2	C226	*B3	C252	*A3			PS101	B1	R205	A3	R231	*A1	RB112	*A1		
C201	A2	C227	*A3	C253	*A2	FB201	*B2			R206	*A3	R232	A3	RB113	*A2		
C202	A3	C228	*A3	C254	*B2	FB202	*A3	Q101	*A1	R207	*A3	R233	A3	RB114	*A1		
C203	B3	C229	*A3			FB203	*B3	Q102	*A1	R208	*A3	R234	A3	RB115	*A2		
C204	B3	C230	*A3	CL201	*A2					R209	*A3	R235	*B3	RB201	*A3		



IF-844 -A SIDE-
SUFFIX: -12

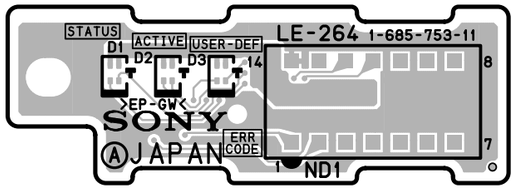


IF-844 -B SIDE-
SUFFIX: -12

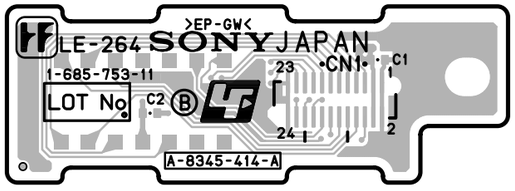
IF-844 (1-681-931-12)

*:B SIDE

C1	A2	C14	*A3	CN1	A1	IC8	A3	R10	*B1	RB5	A1				
C2	*B3	C15	*B1					R11	B2	RB6	A1				
C3	*A3	C16	*B1	D1	*B1	PS1	B1	R12	A2	RB7	*A2				
C4	*B3	C17	B2					R13	B2	RB8	*A2				
C5	*B1	C18	A3	E1	*B3	R1	A2	R14	*B1	RB9	A3				
C6	A2	C19	A2			R2	*A1	R15	*A1	RB10	A3				
C7	A2	C20	A3	IC1	*A3	R3	*A2	R16	*A1						
C8	B2	C21	B1	IC2	B2	R4	*B1	R17	B3	S1	*B3				
C9	B2	C22	*B1	IC3	B2	R5	*B3								
C10	B3			IC4	A2	R6	*A3	RB1	A2	TP1	*A2				
C11	B3	CL1	B3	IC5	A3	R7	*A3	RB2	A2	TP2	*A3				
C12	B3	CL2	*A2	IC6	*B1	R8	A2	RB3	A3						
C13	*A3	CL3	*A3	IC7	A2	R9	A2	RB4	A2	X1	*A3				



LE-264 -A SIDE-
SUFFIX: -11

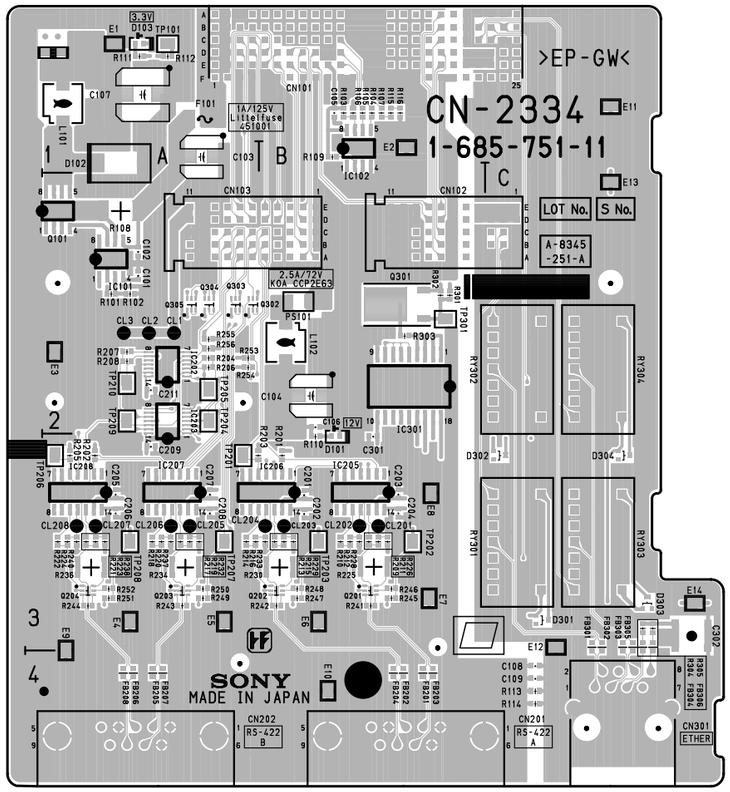


LE-264 -B SIDE-
SUFFIX: -11

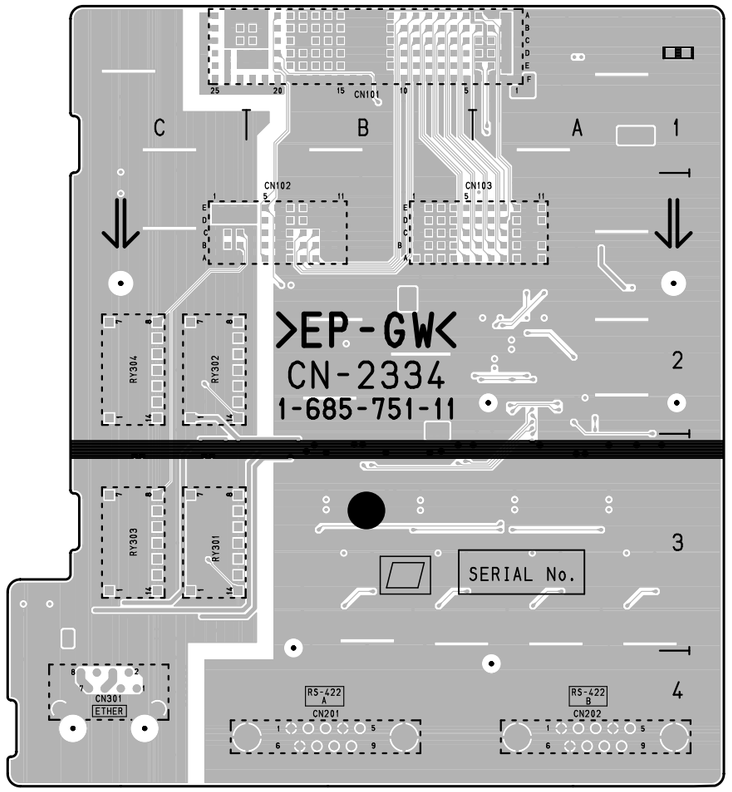
LE-264 (1-685-753-11)

*:B SIDE

C1	*A1
C2	*A1
CN1	*A1
D1	A1
D2	A1
D3	A1
ND1	A1



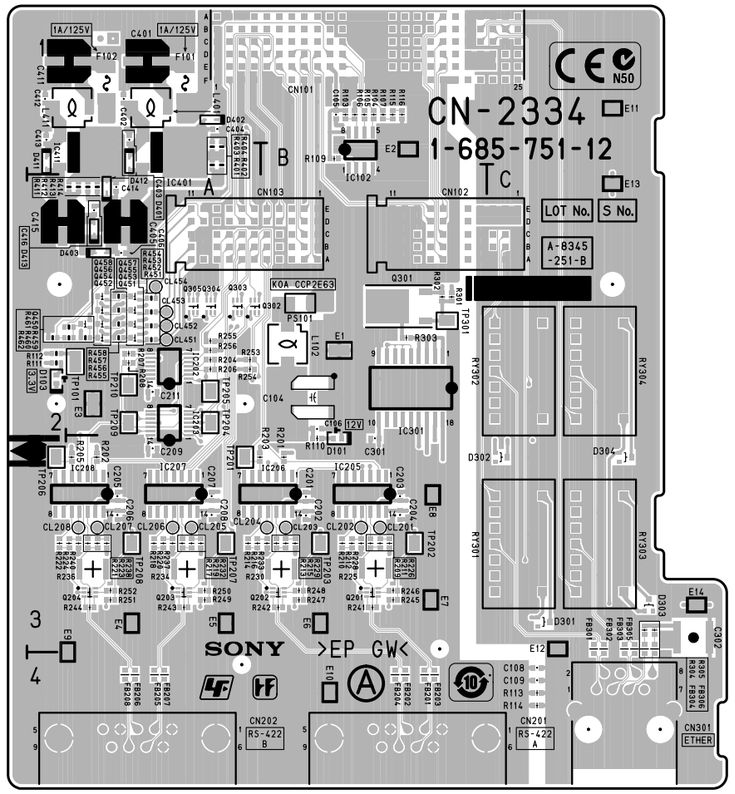
CN-2334 -A SIDE-
SUFFIX: -11



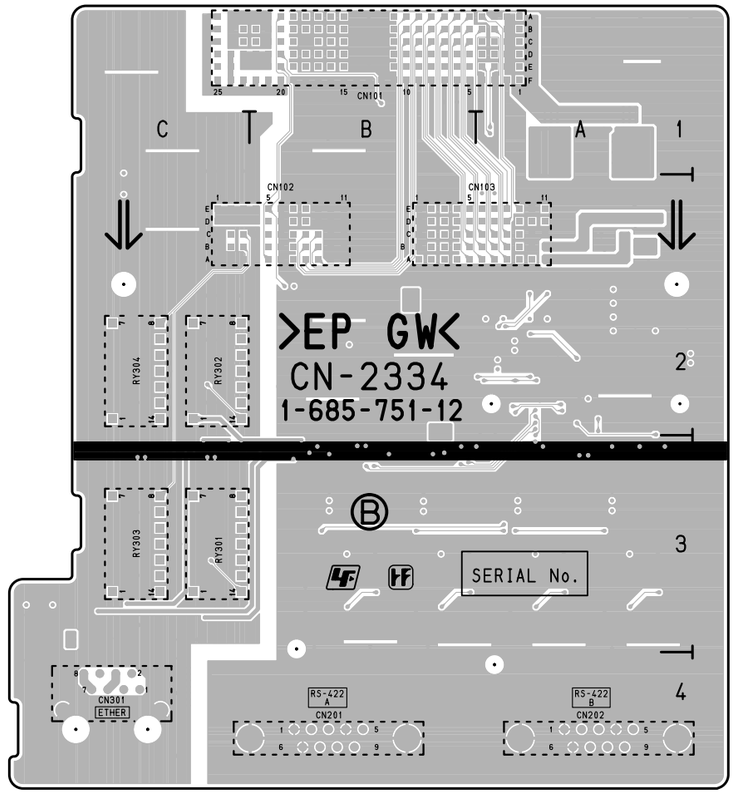
CN-2334 -B SIDE-
SUFFIX: -11

CN-2334 (1-685-751-11)

C101	A2	L102	B2	RY304	C2
C102	A2				
C103	A1	PS101	B2	TP101	A1
C104	B2			TP201	A3
C105	B1	Q101	A2	TP202	B3
C106	B2	Q201	B3	TP203	B3
C107	A1	Q202	B3	TP204	A2
C108	C4	Q203	A3	TP205	A2
C109	C4	Q204	A3	TP206	A3
C201	B3	Q301	B2	TP207	A3
C202	B3	Q302	A2	TP208	A3
C203	B3	Q303	A2	TP209	A2
C204	B3	Q304	A2	TP210	A2
C205	A3	Q305	A2	TP301	B2
C206	A3				
C207	A3	R101	A2		
C208	A3	R102	A2		
C209	A3	R103	B1		
C211	A2	R104	B1		
C301	B3	R105	B1		
C302	C3	R106	B1		
		R107	B1		
CL1	A2	R108	A2		
CL2	A2	R109	B1		
CL3	A2	R110	B3		
CL201	B3	R111	A1		
CL202	B3	R112	A1		
CL203	B3	R113	C4		
CL204	B3	R114	C4		
CL205	A3	R115	B1		
CL206	A3	R116	B1		
CL207	A3	R201	B3		
CL208	A3	R202	A3		
		R203	A3		
CN101	B1	R204	A2		
CN102	B2	R205	A3		
CN103	A2	R206	A2		
CN201	B4	R207	A2		
CN202	A4	R208	A2		
CN301	C4	R209	B3		
		R210	B3		
D101	B3	R211	B3		
D102	A1	R212	B3		
D103	A1	R213	B3		
D301	C3	R214	A3		
D302	C3	R215	B3		
D303	C3	R216	A3		
D304	C3	R217	A3		
		R218	A3		
E1	A1	R219	A3		
E2	B1	R220	A3		
E3	A2	R221	A3		
E4	A3	R222	A3		
E5	A3	R223	A3		
E6	B3	R224	A3		
E7	B3	R225	B3		
E8	B3	R226	B3		
E9	A3	R228	B3		
E10	B4	R229	B3		
E11	C1	R230	B3		
E12	C3	R232	A3		
E13	C2	R233	B3		
E14	C3	R234	A3		
		R236	A3		
F101	A1	R237	A3		
		R238	A3		
FB201	B4	R240	A3		
FB202	B4	R241	B3		
FB203	B4	R242	B3		
FB204	B4	R243	A3		
FB205	A4	R244	A3		
FB206	A4	R245	B3		
FB207	A4	R246	B3		
FB208	A4	R247	B3		
FB301	C3	R248	B3		
FB302	C3	R249	A3		
FB303	C3	R250	A3		
FB304	C3	R251	A3		
FB305	C3	R252	A3		
FB306	C3	R253	A2		
		R254	A2		
IC101	A2	R255	A2		
IC102	B1	R256	A2		
IC202	A2	R301	B2		
IC203	A2	R302	B2		
IC205	B3	R303	B2		
IC206	B3	R304	C3		
IC207	A3	R305	C3		
IC208	A3				
IC301	B2	RY301	C3		
		RY302	C2		
L101	A1	RY303	C3		



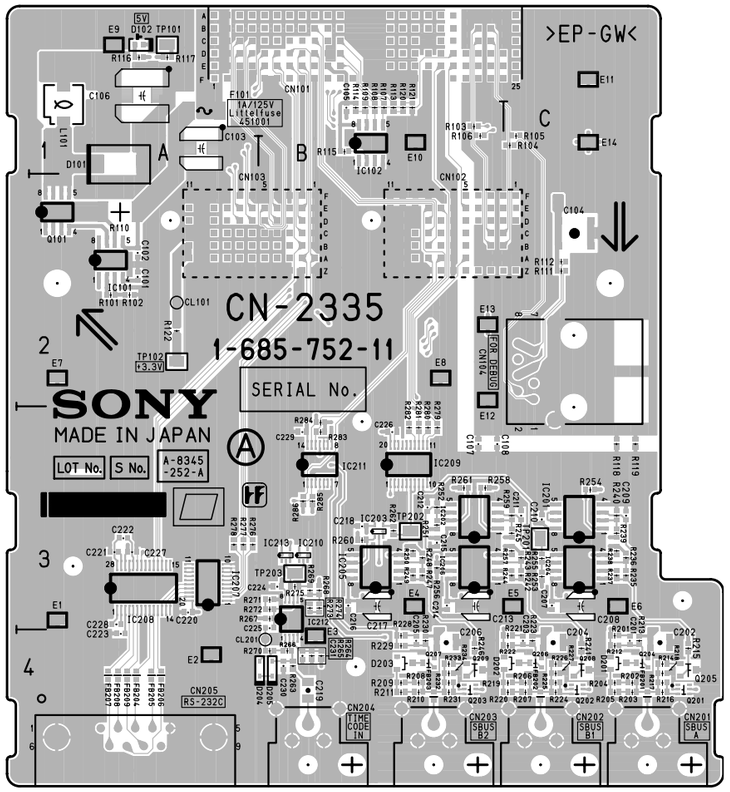
CN-2334 -A SIDE-
SUFFIX: -12



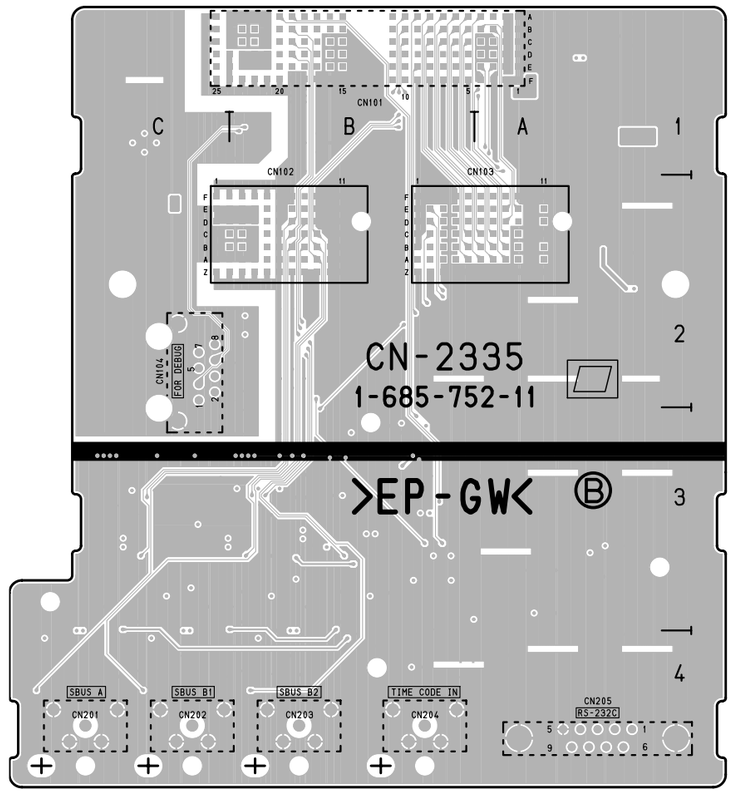
CN-2334 -B SIDE-
SUFFIX: -12

CN-2334 (1-685-751-12)

C104	B2	FB304	C3	R244	A3
C105	B1	FB305	C3	R245	B3
C106	B2	FB306	C3	R246	B3
C108	C4			R247	B3
C109	C4	IC102	B1	R248	B3
C201	B3	IC202	A2	R249	A3
C202	B3	IC203	A3	R250	A3
C203	B3	IC205	B3	R251	A3
C204	B3	IC206	B3	R252	A3
C205	A3	IC207	A3	R253	A2
C206	A3	IC208	A3	R254	A2
C207	A3	IC301	B2	R255	A2
C208	A3	IC401	A1	R256	A2
C209	A3	IC411	A1	R301	B2
C211	A2			R302	B2
C301	B3	L102	B2	R303	B2
C302	C3	L401	A1	R304	C3
C401	A1	L411	A1	R305	C3
C402	A1			R401	A1
C403	A1	PS101	B2	R402	A1
C404	A1			R403	A1
C405	A2	Q201	B3	R404	A1
C406	A2	Q202	B3	R411	A2
C411	A1	Q203	A3	R412	A2
C412	A1	Q204	A3	R413	A2
C413	A1	Q301	B2	R414	A2
C414	A2	Q302	A2	R451	A2
C415	A2	Q303	A2	R452	A2
C416	A2	Q304	A2	R453	A2
		Q305	A2	R454	A2
CL201	B3	Q450	A2	R455	A2
CL202	B3	Q451	A2	R456	A2
CL203	B3	Q452	A2	R457	A2
CL204	B3	Q453	A2	R458	A2
CL205	A3	Q454	A2	R459	A2
CL206	A3	Q455	A2	R460	A2
CL207	A3	Q456	A2	R461	A2
CL208	A3	Q457	A2	R462	A2
CL451	A2	Q458	A2		
CL452	A2			RY301	C3
CL453	A2	R103	B1	RY302	C2
CL454	A2	R104	B1	RY303	C3
		R105	B1	RY304	C2
CN101	B1	R106	B1		
CN102	B2	R107	B1	SORI01	A3
CN103	A2	R109	B1		
CN201	B4	R110	B3	TP101	A2
CN202	A4	R111	A2	TP201	A3
CN301	C4	R112	A2	TP202	B3
		R113	C4	TP203	B3
D101	B3	R114	C4	TP204	A2
D103	A2	R115	B1	TP205	A2
D301	C3	R116	B1	TP206	A3
D302	C3	R201	B3	TP207	A3
D303	C3	R202	A3	TP208	A3
D304	C3	R203	A3	TP209	A2
D401	A1	R204	A2	TP210	A2
D402	A1	R205	A3	TP301	B2
D403	A2	R206	A2		
D411	A1	R207	A2		
D412	A2	R208	A2		
D413	A2	R209	B3		
		R210	B3		
E1	B2	R211	B3		
E2	B1	R212	B3		
E3	A2	R213	B3		
E4	A3	R214	A3		
E5	A3	R215	B3		
E6	B3	R216	A3		
E7	B3	R217	A3		
E8	B3	R218	A3		
E9	A4	R219	A3		
E10	B4	R220	A3		
E11	C1	R221	A3		
E12	C3	R222	A3		
E13	C2	R223	A3		
E14	C3	R224	A3		
		R225	B3		
F101	A1	R226	B3		
F102	A1	R228	B3		
		R229	B3		
FB201	B4	R230	B3		
FB202	B4	R232	A3		
FB203	B4	R233	B3		
FB204	B4	R234	A3		
FB205	A4	R236	A3		
FB206	A4	R237	A3		
FB207	A4	R238	A3		
FB208	A4	R240	A3		
FB301	C3	R241	B3		
FB302	C3	R242	B3		
FB303	C3	R243	A3		



CN-2335 -A SIDE-
SUFFIX: -11

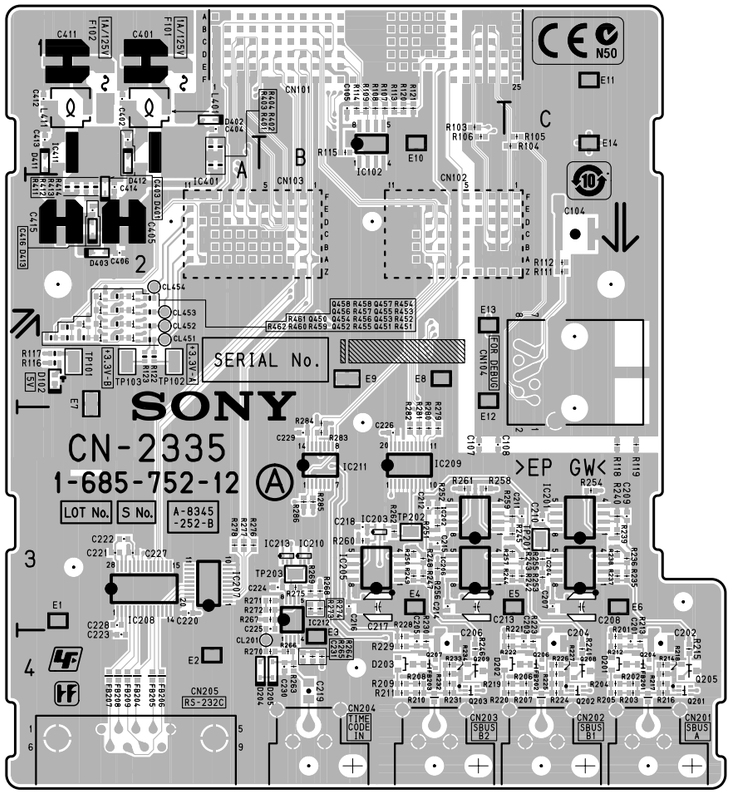


CN-2335 -B SIDE-
SUFFIX: -11

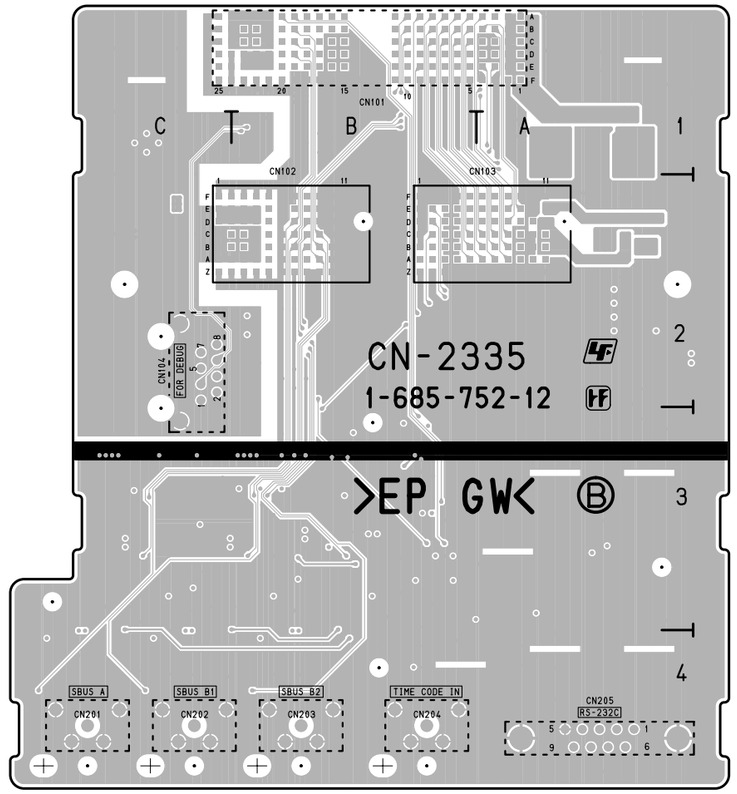
CN-2335 (1-685-752-11)

*:B SIDE

C101	A2	IC203	B3	R246	B4
C102	A2	IC204	C3	R247	B3
C103	A1	IC205	B3	R248	B3
C104	C2	IC206	B3	R249	B3
C105	B1	IC207	A3	R250	B3
C106	A1	IC208	A3	R251	B3
C107	B3	IC209	B3	R252	B3
C108	B3	IC210	B3	R253	C3
C201	C4	IC211	B3	R254	C3
C202	C4	IC212	B4	R255	C3
C203	C4	IC213	B3	R256	B3
C204	C4			R257	C3
C205	B4	L101	A1	R258	B3
C206	B4			R259	C3
C207	C3	Q101	A2	R260	B3
C208	C3	Q201	C4	R261	B3
C209	C3	Q202	C4	R262	B3
C210	C3	Q203	B4	R263	B4
C211	C3	Q204	C4	R264	B4
C212	B3	Q205	C4	R265	B4
C213	B3	Q206	C4	R266	B4
C214	B3	Q207	B4	R267	B3
C215	B3	Q208	C4	R268	B3
C216	B3	Q209	B4	R269	B3
C217	B3			R270	B4
C218	B3	R101	A2	R271	B3
C219	B4	R102	A2	R272	B3
C220	A3	R103	B1	R273	B3
C221	A3	R104	C1	R274	B3
C222	A3	R105	C1	R275	B3
C223	A4	R106	B1	R276	A3
C224	B3	R107	B1	R277	A3
C225	B3	R108	B1	R278	A3
C226	B3	R109	B1	R279	B3
C227	A3	R110	A2	R280	B3
C228	A3	R111	C2	R281	B3
C229	B3	R112	C2	R282	B3
C230	B4	R113	B1	R283	B3
C231	B4	R114	B1	R284	B3
		R115	B1	R285	B3
CL101	A2	R116	A1	R286	B3
CL201	B4	R117	A1		
		R118	C3	TP101	A1
CN101	B1	R119	C3	TP102	A2
CN102	*B2	R120	B1	TP201	C3
CN103	*A2	R121	B1	TP202	B3
CN104	C2	R122	A2	TP203	B3
CN201	C4	R201	C4		
CN202	C4	R202	C4		
CN203	B4	R203	C4		
CN204	B4	R204	C4		
CN205	A4	R205	C4		
		R206	C4		
D101	A1	R207	C4		
D102	A1	R208	B4		
D201	C4	R209	B4		
D202	C4	R210	B4		
D203	B4	R211	B4		
D204	B4	R212	C4		
D205	B4	R213	C4		
		R214	C4		
E1	A3	R215	C4		
E2	A4	R216	C4		
E3	B4	R217	C4		
E4	B3	R218	C4		
E5	C3	R219	C4		
E6	C3	R220	C4		
E7	A2	R221	C4		
E8	B2	R222	C4		
E9	A1	R223	C4		
E10	B1	R224	C4		
E11	C1	R225	C4		
E12	B2	R226	C4		
E13	B2	R227	C4		
E14	C1	R228	B4		
		R229	B4		
F101	A1	R230	B4		
		R231	B4		
FB201	C4	R232	B4		
FB202	C4	R233	B4		
FB203	B4	R234	B4		
FB204	A4	R235	C3		
FB205	A4	R236	C3		
FB206	A4	R237	C3		
FB207	A4	R238	C3		
FB208	A4	R239	C3		
FB209	A4	R240	C3		
		R241	C4		
IC101	A2	R242	C3		
IC102	B1	R243	C3		
IC201	C3	R244	C3		
IC202	B3	R245	C3		



CN-2335 -A SIDE-
SUFFIX: -12



CN-2335 -B SIDE-
SUFFIX: -12

CN-2335 (1-685-752-12)

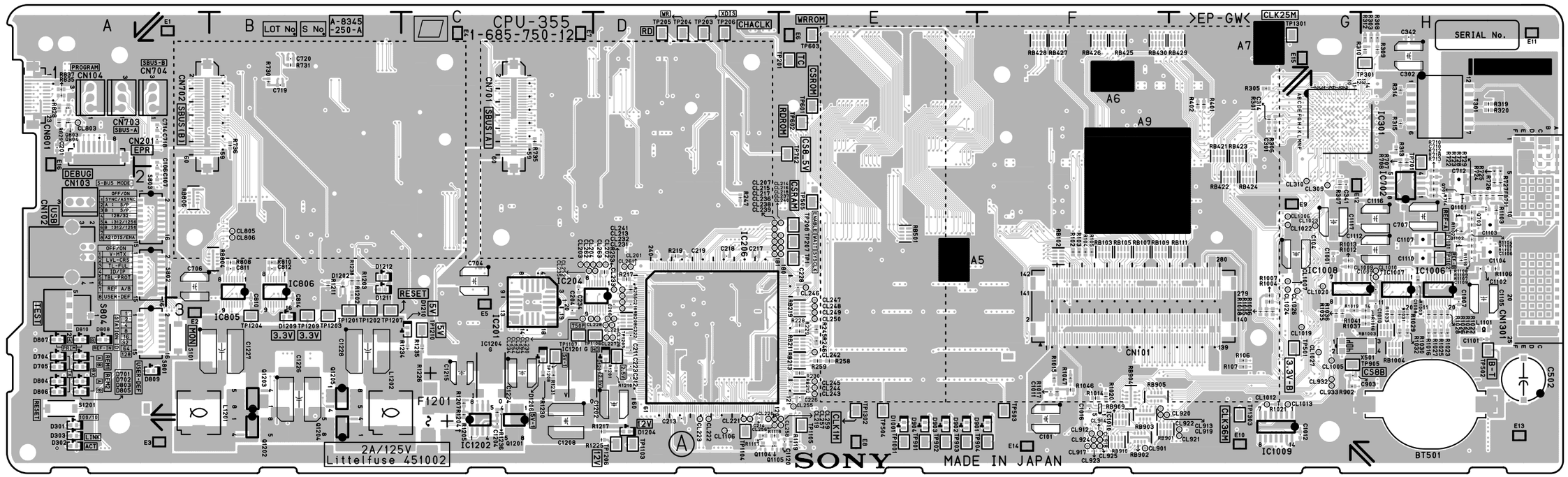
*:B SIDE

C104	C2	E13	B2	R215	C4	R460	A2
C105	B1	E14	C1	R216	C4	R461	A2
C107	B3			R217	C4	R462	A2
C108	B3	F101	A1	R218	C4		
C201	C4	F102	A1	R219	C4	TP101	A2
C202	C4			R220	C4	TP102	A2
C203	C4	FB201	C4	R221	C4	TP103	A2
C204	C4	FB202	C4	R222	C4	TP201	C3
C205	B4	FB203	B4	R223	C4	TP202	B3
C206	B4	FB204	A4	R224	C4	TP203	B3
C207	C3	FB205	A4	R225	C4		
C208	C3	FB206	A4	R226	C4		
C209	C3	FB207	A4	R227	C4		
C210	C3	FB208	A4	R228	B4		
C211	C3	FB209	A4	R229	B4		
C212	B3			R230	B4		
C213	B3	IC102	B1	R231	B4		
C214	B3	IC201	C3	R232	B4		
C215	B3	IC202	B3	R233	B4		
C216	B3	IC203	B3	R234	B4		
C217	B3	IC204	C3	R235	C3		
C218	B3	IC205	B3	R236	C3		
C219	B4	IC206	B3	R237	C3		
C220	A3	IC207	A3	R238	C3		
C221	A3	IC208	A3	R239	C3		
C222	A3	IC209	B3	R240	C3		
C223	A4	IC210	B3	R241	C4		
C224	B3	IC211	B3	R242	C3		
C225	B3	IC212	B4	R243	C3		
C226	B3	IC213	B3	R244	C3		
C227	A3	IC401	A1	R245	C3		
C228	A3	IC411	A1	R246	B4		
C229	B3			R247	B3		
C230	B4	L401	A1	R248	B3		
C231	B4	L411	A1	R249	B3		
C401	A1			R250	B3		
C402	A1	Q201	C4	R251	B3		
C403	A1	Q202	C4	R252	B3		
C404	A1	Q203	B4	R253	C3		
C405	A2	Q204	C4	R254	C3		
C406	A2	Q205	C4	R255	C3		
C411	A1	Q206	C4	R256	B3		
C412	A1	Q207	B4	R257	C3		
C413	A1	Q208	C4	R258	B3		
C414	A2	Q209	B4	R259	C3		
C415	A2	Q450	A2	R260	B3		
C416	A2	Q451	A2	R261	B3		
		Q452	A2	R262	B3		
CL201	B4	Q453	A2	R263	B4		
CL451	A2	Q454	A2	R264	B4		
CL452	A2	Q455	A2	R265	B4		
CL453	A2	Q456	A2	R266	B4		
CL454	A2	Q457	A2	R267	B3		
		Q458	A2	R268	B3		
CN101	B1			R269	B3		
CN102	*B2	R103	B1	R270	B4		
CN103	*A2	R104	C1	R271	B3		
CN104	C2	R105	C1	R272	B3		
CN201	C4	R106	B1	R273	B3		
CN202	C4	R107	B1	R274	B3		
CN203	B4	R108	B1	R275	B3		
CN204	B4	R109	B1	R276	A3		
CN205	A4	R111	C2	R277	A3		
		R112	C2	R278	A3		
D102	A2	R113	B1	R279	B3		
D201	C4	R114	B1	R280	B3		
D202	C4	R115	B1	R281	B3		
D203	B4	R116	A2	R282	B3		
D204	B4	R117	A2	R283	B3		
D205	B4	R118	C3	R284	B3		
D401	A1	R119	C3	R285	B3		
D402	A1	R120	B1	R286	B3		
D403	A2	R121	B1	R401	A1		
D411	A1	R122	A2	R402	A1		
D412	A2	R123	A2	R403	A1		
D413	A2	R201	C4	R404	A1		
		R202	C4	R411	A2		
E1	A3	R203	C4	R412	A2		
E2	A4	R204	C4	R413	A2		
E3	B4	R205	C4	R414	A2		
E4	B3	R206	C4	R451	A2		
E5	C3	R207	C4	R452	A2		
E6	C3	R208	B4	R453	A2		
E7	A2	R209	B4	R454	A2		
E8	B2	R210	B4	R455	A2		
E9	B2	R211	B4	R456	A2		
E10	B1	R212	C4	R457	A2		
E11	C1	R213	C4	R458	A2		
E12	B2	R214	C4	R459	A2		

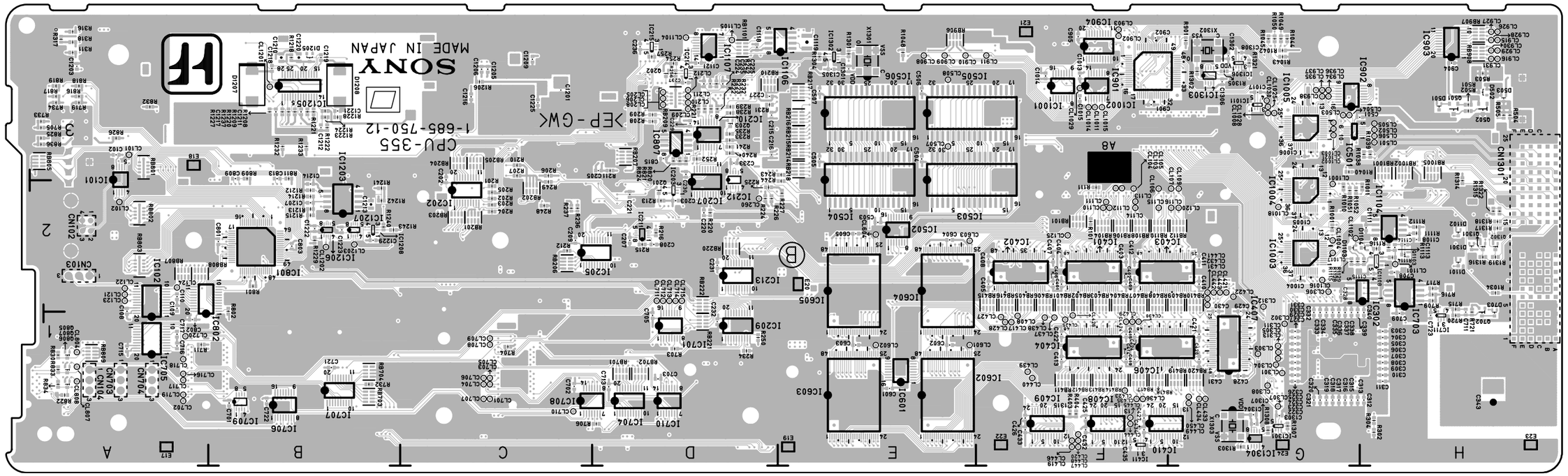
CPU-355 (1-685-750-12)

*: B SIDE

BT501	H3	C402	*F2	C1014	*F3	CL208	*D3	CL441	*G2	CL1011	*F3	E10	G3	IC1106	*E3	R239	*D3	R818	*A3	R1202	B2	RB403	*F2	TP905	G3
		C403	*F2	C1015	*F3	CL209	*D3	CL442	*G2	CL1012	G3	E11	H1	IC1107	*D3	R240	*D3	R819	*A3	R1203	B2	RB404	*F2	TP1001	E3
C101	F3	C404	*F2	C1016	F3	CL210	*D3	CL443	*G2	CL1013	G3	E12	G2	IC1108	*H2	R241	*D3	R820	*D3	R1204	C3	RB405	*F2	TP1101	H2
C102	*A3	C405	*F2	C1017	*G3	CL211	*D3	CL444	*F1	CL1014	*F3	E13	H3	IC1201	C3	R242	*D3	R821	*D3	R1205	C3	RB406	*F2	TP1102	H2
C104	G2	C406	*F2	C1101	H3	CL212	*D3	CL445	*F1	CL1015	*F3	E14	F3	IC1202	C3	R243	*E3	R822	*A1	R1206	*C3	RB407	*F2	TP1103	D3
C106	A1	C407	*F2	C1102	H2	CL213	D2	CL446	*F1	CL1016	*G2	E15	G1	IC1203	*B2	R244	*E2	R824	*D3	R1207	C3	RB408	*F2	TP1104	D3
C107	A2	C408	*F2	C1103	H2	CL214	E2	CL447	*F1	CL1017	*G2	E16	A1	IC1204	C3	R245	E3	R825	*A3	R1208	*B3	RB409	*G2	TP1105	E3
C108	*A2	C409	*F2	C1104	H2	CL215	D2	CL448	*F1	CL1018	*G2	E17	*A1	IC1205	*B3	R246	E3	R826	*A3	R1209	*B3	RB410	*G2	TP1106	D3
C109	*A2	C410	*G2	C1105	H3	CL216	E2	CL449	*G1	CL1019	G3	E18	*A3	IC1206	*B2	R247	D2	R828	A1	R1210	D3	RB411	*F1	TP1107	C3
C110	*A2	C411	*G2	C1106	H2	CL217	D2	CL450	*G1	CL1020	G2	E19	*E1	IC1207	*B2	R248	*C2	R829	A1	R1211	B2	RB412	*F1	TP1201	B3
C201	A1	C412	*F2	C1107	H2	CL218	E2	CL501	*H3	CL1021	*G3	E20	*E2	IC1208	*B2	R249	*C2	R830	*A1	R1212	*B2	RB413	*F1	TP1202	B3
C202	*C3	C413	*F1	C1108	*H2	CL219	D3	CL502	*H3	CL1022	G2	E21	*F3	IC1301	*G1	R250	*D1	R832	*A3	R1213	*B2	RB414	*F1	TP1203	B3
C203	*D2	C414	*F1	C1109	H2	CL220	D3	CL503	*G3	CL1023	G2	E22	*F1	IC1302	*E3	R252	*D3	R833	*A1	R1214	*B2	RB415	*F2	TP1204	B3
C204	C3	C415	*F1	C1110	H2	CL221	D3	CL504	*G3	CL1024	G2	E23	*H1	IC1303	*G3	R253	D2	R834	*A1	R1215	*B2	RB416	*F2	TP1205	D3
C205	*D3	C419	*F1	C1111	*H2	CL222	D3	CL505	*H3	CL1025	*G3	E24	*G1	IC1304	*G1	R254	*D3	R835	A1	R1217	D3	RB417	*F1	TP1206	D3
C206	D3	C420	*G1	C1112	H2	CL223	D3	CL506	*H3	CL1026	G2			IC1306	*G3	R255	D2	R836	*A3	R1218	*B3	RB418	*F1	TP1207	B3
C207	*D2	C421	*G1	C1113	*H2	CL226	D3	CL507	*E3	CL1027	G3	F1201	C3			R256	*D3	R837	A1	R1220	*B3	RB419	*G1	TP1208	C3
C208	*D2	C422	*F1	C1114	*H2	CL227	D3	CL508	*E3	CL1028	*G3			L1101	H3	R257	*D3	R901	*G3	R1221	*B3	RB420	*G1	TP1209	B3
C209	*C2	C424	*F1	C1115	*H2	CL228	D3	CL601	*E1	CL1029	*F3	FB701	H2	L1201	A3	R258	E3	R902	G3	R1222	*B3	RB421	G1	TP1210	C3
C210	D3	C425	*F1	C1116	H2	CL229	D3	CL602	*E1	CL1030	*G3			L1202	B3	R259	E3	R1001	*G2	R1223	*B3	RB422	G2	TP1301	G1
C211	D3	C426	*F1	C1117	G2	CL230	D3	CL603	*E2	CL1101	*H2	IC101	*A2			R301	G1	R1004	G3	R1224	*B3	RB423	G1	TP1302	E3
C212	D3	C427	*F1	C1118	*D3	CL231	D3	CL604	*E2	CL1102	*G2	IC102	*A1	Q201	*D2	R302	*H1	R1005	G3	R1225	D3	RB424	G2	TP1303	G3
C213	D3	C428	*G1	C1119	*E3	CL232	D3	CL701	*C1	CL1104	*D3	IC201	C3	Q202	*D3	R303	H1	R1006	G3	R1226	C3	RB425	F1		
C214	D3	C429	*G2	C1120	E3	CL233	D2	CL702	*A1	CL1105	*D3	IC202	*C2	Q203	*D3	R304	*H1	R1007	G2	R1227	*B3	RB426	F1	X501	G3
C215	*D3	C430	*G2	C1121	*D3	CL234	C3	CL703	*C1	CL1106	D3	IC203	*D2	Q501	*H3	R305	G1	R1008	G3	R1228	*B3	RB427	F1	X1301	*E3
C216	*D3	C431	*G1	C1201	*C3	CL235	C2	CL704	*C1	CL1201	*B3	IC204	D2	Q502	*H3	R306	G1	R1009	H2	R1229	*B2	RB428	F1	X1302	*G3
C217	D2	C432	*F1	C1202	D3	CL236	D2	CL705	*C1	CL1202	*B2	IC205	*C2	Q701	H2	R307	G2	R1010	*G2	R1230	C3	RB429	G1	X1303	*G1
C218	D2	C433	*F1	C1203	*A3	CL237	E2	CL706	*C1	CL1203	*B2	IC206	D3	Q702	*H1	R308	H1	R1011	*H2	R1231	C3	RB430	F1		
C219	D2	C434	*F1	C1204	C3	CL238	D2	CL707	*C1			IC207	*D2	Q703	H2	R309	H1	R1012	G2	R1232	*B3	RB501	E2		
C220	*D2	C435	*F1	C1205	*C3	CL239	D2	CL708	*C1	CN101	F3	IC209	*D1	Q803	A1	R310	H1	R1013	G2	R1233	*B3	RB701	*D1		
C221	*D2	C501	*G3	C1206	*C3	CL240	E2	CL709	*C1	CN102	A2	IC210	*D3	Q804	A1	R311	*A3	R1014	F3	R1234	C3	RB702	*D1		
C222	D3	C502	H3	C1207	*B2	CL241	D2	CL710	*C1	CN103	A2	IC211	*D2	Q805	*A1	R312	H1	R1015	F3	R1235	C3	RB703	*B1		
C223	D3	C503	*E2	C1208	C3	CL242	E3	CL711	*D2	CN104	A1	IC212	*D3	Q806	*A1	R313	H1	R1016	H3	R1236	C3	RB704	*B1		
C224	*D3	C504	*E3	C1209	*C3	CL243	E3	CL712	*D2	CN201	A1	IC213	*D2	Q807	*A1	R314	H1	R1017	F3	R1237	*B3	RB801	*A3		
C225	*D3	C505	*E3	C1210	*B3	CL244	E3	CL713	*D2	CN701	C1	IC214	*D3	Q1101	H2	R315	H1	R1018	H3	R1238	B2	RB802	*A2		
C226	E3	C506	*E3	C1211	*B3	CL245	E3	CL714	*D2	CN702	A1	IC215	*D3	Q1102	H2	R316	*A3	R1019	G3	R1240	*B2	RB803	*A2		
C227	*D3	C507	*E3	C1212	*B3	CL246	E2	CL715	*D2	CN703	A1	IC301	G1	Q1103	*H2	R317	*A3	R1020	F3	R1241	*B2	RB804	B2		
C228	E2	C601	*E1	C1213	*B2	CL247	E3	CL716	*A1	CN704	A1	IC302	*H2	Q1104	D3	R318	*A3	R1021	G3	R1242	*B2	RB805	*A3		
C229	*D3	C602	*E1	C1214	*B2	CL248	E3	CL717	*A1	CN801	A1	IC401	*F2	Q1105	D3	R319	H1	R1022	H3	R1243	*B2	RB806	A2		
C230	*D3	C603	*E1	C1215	C3	CL249	E3	CL718	*A1	CN1301	H2	IC402	*F2	Q1201	C3	R320	H1	R1023	H3	R1301	*E3	RB807	*A2		
C231	*D2	C604	*E2	C1216	*C3	CL250	E3	CL719	*A1			IC403	*F2	Q1202	B3	R401	G1	R1024	H3	R1302	*G3	RB808	*A2		
C232	*D1	C605	*E2	C1217	*B3	CL252	D2	CL720	*A1	D301	A3	IC404	*F1	Q1203	B3	R402	G1	R1025	H3	R1303	*G1	RB809	*A1		
C233	*D3	C701	*B1	C1218	*B3	CL253	D3	CL803	A1	D302	A3	IC406	*F1	Q1204	B3	R403	*F1	R1026	H3	R1304	*E3	RB901	F3		
C234	C2	C702	*C1	C1219	*B3	CL254	C3	CL804	*A1	D303	A3	IC407	*G1	Q1205	B3	R404	*F1	R1027	H3	R1305	*G3	RB902	F3		
C235	*D3	C703	*D1	C1220	*B3	CL255	E3	CL805	B2	D501	*H3	IC408	*F1	Q1301	*H2	R501	*H3	R1028	H3	R1307	*G1	RB903	F3		
C236	*D3	C704	C2	C1221	*B3	CL256	D3	CL806	B2	D502	*H3	IC409	*F1	Q1302	*H2	R502	*H3	R1029	H3	R1308	*G1	RB904	F3		
C237	*D3	C705	*D1	C1222	*B2	CL257	D3	CL807	*A1	D503	*H3	IC410	*F1			R503	*H3	R1030	H3	R1314	*H2	RB905	F3		
C301	G1	C706	A2	C1223	*B2	CL258	E3	CL808	*A1	D701	A3	IC411	*F1	R101	*F2	R504	*H3	R1031	H3	R1315	*H2	RB906	*E3		
C302	H1	C707	H2	C1224	C3	CL259	E3	CL901	F3	D702	A3	IC501	*H3	R102	F2	R505	*H3	R1032	H3	R1316	*H2	RB907	*H3		
C303	*H1	C708	*H2	C1225	*C3	CL260	*D2	CL902	*F3	D703	*H1	IC502	*E2	R103	F2	R703	*D1	R1033	H3	R1317	*H2	RB908	*H3		
C304	*H1	C709	*H1	C1226	B3	CL261	D2	CL903	*F3	D704	A3	IC503	*E2	R104	F2	R704	*C1	R1034	*H2	R1318	*H2	RB909	F3		
C305	*H1	C710	H2	C1227	B3	CL262	C2	CL908	*E3	D705	A3	IC504	*E2	R105	F2	R705	*A3	R1035	G3	R1319	*H2	RB910	F3		
C306	*H1	C711	*H1	C1228	B3	CL263	D2	CL909	*E3	D803	A3	IC505	*E3	R106	G3	R706	*D1	R1036	G3	R1321	*G3	RB1001	*H3		
C307	*H1	C712	H2	C1229	*B2	CL264	D3	CL910	*E3	D804	A3	IC506	*E3	R107	G3	R707	H1	R1037	H3	R1322	*H2	RB1002	*H3		
C308	*H1	C713	*D1	C1301	*E3	CL301	*G1	CL911	*F3	D805	A3	IC601	*E1	R111	*F2	R708	H1	R1038	*H3			RB1003	H3		
C309	*H1	C714	A1	C1302	*G3	CL302	*G1	CL912	F3	D806	A3	IC602	*E1	R201	*C2	R709	*H2	R1039	*H3	RB101	*F2	RB1004	H3		
C310	*H1	C715	*A1	C1303	*G1	CL303	*G1	CL913	F3	D807	A3	IC603	*E1	R202	*C2	R710	H2	R1040	*G3	RB102	F2	RB1005	*H3		
C311	*H1	C716	*A1	C1304	*G1	CL304	*G1	CL914	F3	D808	A3	IC604	*E1	R203	*C2	R711	*A1	R1041	H3	RB103	F2	RB1101	*D3		
C312	*H1	C717	*A1	C1305	*E3	CL305	*G1	CL915	*H3	D809	A3	IC605	*E1	R204	*C2	R712	H2	R1042	*G3	RB104	*F2				
C313	*G1	C718	A1	C1306	*G3	CL306	*G2	CL916	*H3	D810	A3	IC701	*D1	R205	*C2	R713	H2	R1043	*G3	RB105	F2	S101	A3		
C314	G1	C719	B1	C1307	*G1	CL307	*G1	CL917	F3	D901	F3	IC702	H2	R206	*C3	R714	H2	R1044	*G3	RB106	*F2	S801	A3		
C315	*G1	C720	B1	C1308	*G3	CL308	*G1	CL918	F3	D902	E3	IC703	*H2	R207	*C3	R715	*H2	R1045	*G3	RB107	F2	S802	A2		
C316	*G1	C721	*B1			CL309	G2	CL919	F3	D903	E3	IC704	*D1	R208	*D3	R716	*H2	R1046	F3	RB108	*F2	S803	A2		
C317	*G1	C722	*B1	CL101	*A3	CL310	G2	CL920	F3	D904	E3	IC705	*A1	R209	*D3	R717	*H2	R1047	F3	RB109	F2	S804	A3		
C318	*G1	C723	*H1	CL102	*A2	CL311	*G1	CL921	G3	D1001	E3	IC706	*B1	R210	*C3	R718	H2	R1048	*E3	RB110	*F2	S1201	A3		
C319	*G1	C801	*B2	CL103	*F2	CL312	*G2	CL922	G3	D1101	*H2	IC707	*B1	R211	*D3	R719	*A3	R1049	*G3	RB111	G2				
C320	*G1	C802	*A1	CL104	*F2	CL313	*G1	CL923	F3	D1102	*H2	IC708	*C1	R212	*C2	R720	*H1	R1050	*G3	RB112	*G2	T301	H1		
C321	*G1	C803	*B2	CL105	*F2	CL408	*F1	CL924	F3	D1103	*G2	IC709	*B1	R213	*D2	R721	*H1	R1051	*G2	RB201	*C2				
C322	*G1	C809	*B3	CL106	*F2	CL417	*F1	CL925	F3	D1104	*H2	IC710	*D1	R215	*D2	R722	H2	R1052	*G2	RB202	*C2	TP1	E2		
C323	*G1	C810	B3	CL107	*G2	CL419	*F1	CL926	*H3	D1201	D3	IC711	*H1	R216	*D2	R723	H2	R1101	H2	RB203	*C2	TP201	E1		
C324	*G1	C811	B2	CL109	*G2	CL420	*F1	CL927	*H3	D1202	B2	IC801	*B2	R217	D2	R724	H2	R1102	H2	RB204	*C3	TP203	D1		
C325	*G1	C812	B2	CL110	*F2	CL421	*G2	CL928	*H3	D1204	D3	IC802	*B2	R219	D2	R725	H2	R1103	H2	RB205	*C3	TP204	D1		
C326	*G1	C813	*B3	CL111	*F2	CL422	*G2	CL929	*H3	D1205	*B3	IC805	B2	R220	*D2	R726	H2	R1104	H2	RB206	*C2	TP205	D1		
C327	*G1	C814	B3	CL112	*F2	CL423	*F1	CL930	*H3	D1206	C3	IC806	B2	R221	*D3	R727	H2	R1105	H2	RB207	*D3	TP206	D1		
C328	*G2	C815	*D3	CL113	*F2	CL424	*F1	CL931	*H3	D1207	*B3	IC807	*D3	R222	*D3	R728	H2	R1106	H2	RB208	D3	TP207	E2		
C329	*G1	C901	*F3	CL114	*F2	CL425	*F1	CL932	G3	D1208	*B3	IC901	*F3	R223	*D3	R729	H2	R1107	H2	RB209	*D3	TP208	E2		
C330	*G1	C902	*F3	CL115	*F2	CL426	*F1	CL933	G3	D1209	B3	IC902	*H3	R224	*D2	R730	B1	R1108	H2	RB210	*D3	TP301	H1		
C331	*G1	C903	G3	CL116	*G2	CL427	*F1	CL934	*G3	D1210	C3	IC903	*H3	R225	*D2	R731	B1	R1109	H2	RB211	E3	TP501	G3		
C332	*G1	C904	*H3	CL120	*G2	CL428	*F1	CL935	*G3	D1211	B2	IC904	*F3	R226	*D2	R732	*B1	R1110	H2	RB212	E3	TP502	H3		
C333	*G1	C905	*F3	CL121	*A2	CL429	*F1	CL936	*G3	D1212	B2	IC1001	*F3	R227	*E2	R733	*A3	R1111	*H2	RB213	E3	TP503	F3		
C334	*G1	C1001	G2	CL122	*A2	CL430	*F1	CL937	*G3	D1301	*H2	IC1002	*F3	R228	E3	R734	*A3	R1112	*H2	RB214	*E3	TP504	E3		
C335	*G1	C1004	*G2	CL123	*A2	CL431	*G2	CL938	*G3			IC1003	*G2	R229	E3	R735	C1	R1113	*H2	RB215	*E3	TP505	E2		
C336	*G1	C1005	*G2	CL124	*A2	CL432	*G2	CL1002	*G3	E1	A1	IC1004	*G2	R230	E3	R736	B1	R1114	*H2	RB216	*E3	TP601	E1		
C337	*G1	C1006	*G3	CL125	*F2	CL433	*G1	CL1003	*G3	E2	A3	IC1005	*G3	R231	*D3	R801	*B2	R1115	*G2	RB217	*E3	TP602	E1		
C338	*G1	C1007	H3	CL201	D2	CL434	*G1	CL1004	*G2	E3	A3	IC1006	H2	R232	*D3	R802	*B2	R1116	*H2	RB218	*E3	TP603	E1		
C339	*G1	C1008	H2	CL202	D2	CL435	*F1	CL1005	G3	E4	C1	IC1007	H2	R233	*D3	R808	B2	R1117	D3	RB219	E3	TP701	H1		
C340	*H1	C1009	H2	CL203	C2	CL436	*F1	CL1006	G2	E5	C3	IC1008	H2	R234	*D1	R809	*B3	R1118	D3	RB220	*D2	TP702	E1		
C341	G2	C1010	H3	CL204	C2	CL437	*F1	CL1007	G2	E6	E1	IC1009	G3	R235	*D3	R810	B2	R1119	E3	RB221	*D1	TP901	E3		
C342	H1	C1011	F3	CL205	*D3	CL438	*F1	CL1008	*G3	E7	C1	IC1010	F3	R236	*C2	R811	*B3	R1128	*G2	RB222	*D2	TP902	E3		
C343	*H1	C1012	G3	CL206	*D3	CL439	*F1	CL1009	H2	E8	E3	IC1011	*G3	R237	*C2	R816	*A3	R1129	*H2	RB401	*F2	TP903	E3		
C401	*F2	C1013	*F3	CL207	D2	CL440	*F1	CL1010	H2	E9	G2	IC1104	*H2	R238	*D3	R817	*A3	R1201	D3	RB402	*F2	TP904	F3		



CPU-355 -A SIDE-
SUFFIX: -12



CPU-355 -B SIDE-
SUFFIX: -12

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