

SONY®

HD MULTI PURPOSE CAMERA

HDC-X300/X300K
HDC-X310/X310K

FILTER SERVO UNIT
HKC-SV1

Power HAD HD

MAINTENANCE MANUAL

1st Edition (Revised 1)

Serial No. 10001 and Higher: HDC-X300/X300K

Serial No. 10001 and Higher: HDC-X310/X310K

警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

WARNING

This manual is intended for qualified service personnel only.

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

WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

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

AVERTISSEMENT

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

警告

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

WARNING

This unit has no power switch.
When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power cord to a socket-outlet which must be provided near the unit and easily accessible, so that the user can turn off the power in case a fault should occur.

WARNUNG

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

Laser Diode Properties

Wave length : 1310 nm
Emission duration : Continuous
Laser output power : 0.51 mW (max.)

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION

The use of optical instruments with this product will increase eye hazard.

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

This HD Camera Interface Unit is classified as a CLASS 1 LASER PRODUCT.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual for HD Multi Purpose Camera HDC-X300/X300K.

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

Relative manuals

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

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

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

Part number: 3-854-613-XX

- **CD-ROM Manual (Supplied with this unit)**

This manual contains the Japanese, English, French, German, Italian, and Spanish operation manuals (PDF) of HDC-X300/X300K.

Part number: 3-854-760-XX

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

This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in B&P Company equipment.

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

Part number: 9-968-546-XX

- **Installation Manual HKC-SV1 (Available on request)**

This manual describes the information items that are required to install the HKC-SV1.

Contents

The following are summaries of the each section for understanding the manual.

Section 1 Installation Overview

Describes information about power supply and external connectors.

Section 2 Service Overview

Describes information about location of boards, circuit description, removing/reinstalling the exterior parts, description of switch settings on the boards, fixtures and equipment, software and firmware, diagnostics, inspection/maintenance and notes on service.

Section 3 Menu and File

Describes menu and file.

Section 4 Electrical Alignment

Describes electrical adjustment necessary for maintenance of the unit.

Section 5 Spare Parts

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

Section 6 Semiconductor Pin Assignments

Contains information on semiconductors used for the unit.

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

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

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

Section 7 Block Diagrams

Contains the block diagrams of overall and each circuit board.

Section 8 Schematic Diagrams

Contains schematic diagrams for every circuit board and frame wiring.

Section 9 Board Layouts

Contains board layouts for every circuit board.

Section 1

Installation Overview

1-1. Power Supply and Power Cord

1-1-1. Power Supply

The supplied AC adaptor is used for the power supply of this unit.

AC Adaptor (Supplied with HDC-X300/X300K)

Power requirements: AV 100 to 240 V, 50/60 Hz

HDC-X300/X300K

Power requirements: DC 12 V

Power consumption: 22 W (with the VCL-719BXS Zoom Lens and the RM-B750 Remote Control Unit connected)
17 W (camera head only)

1-1-2. Recommended Power Cord

This unit does not come with a power cord.

To get a power cord, please contact your local Sony Sales Office/Service Center.

WARNING

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

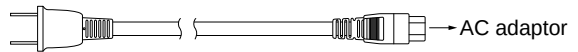
If you have questions on the use of the above Power Cord/Appliance Connector/Plug, please contact your local Sony Sales Office/Service Center.

WARNING

- Never use an injured power cord.

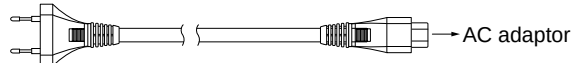
For customers in the U.S.A. and Canada:

Power cord 125 V 7 A (2.0 m): △1-757-562-61



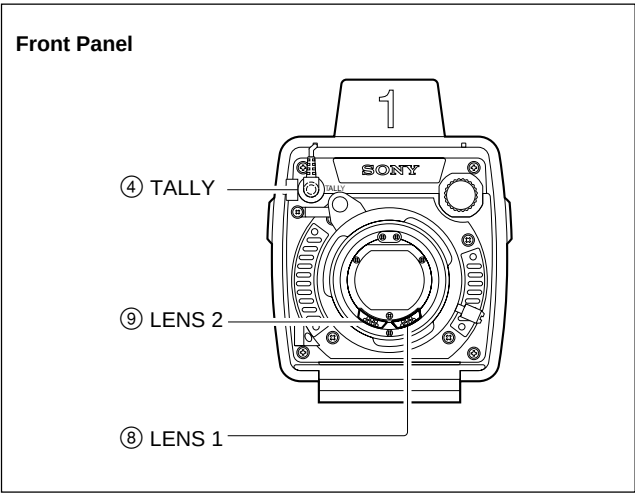
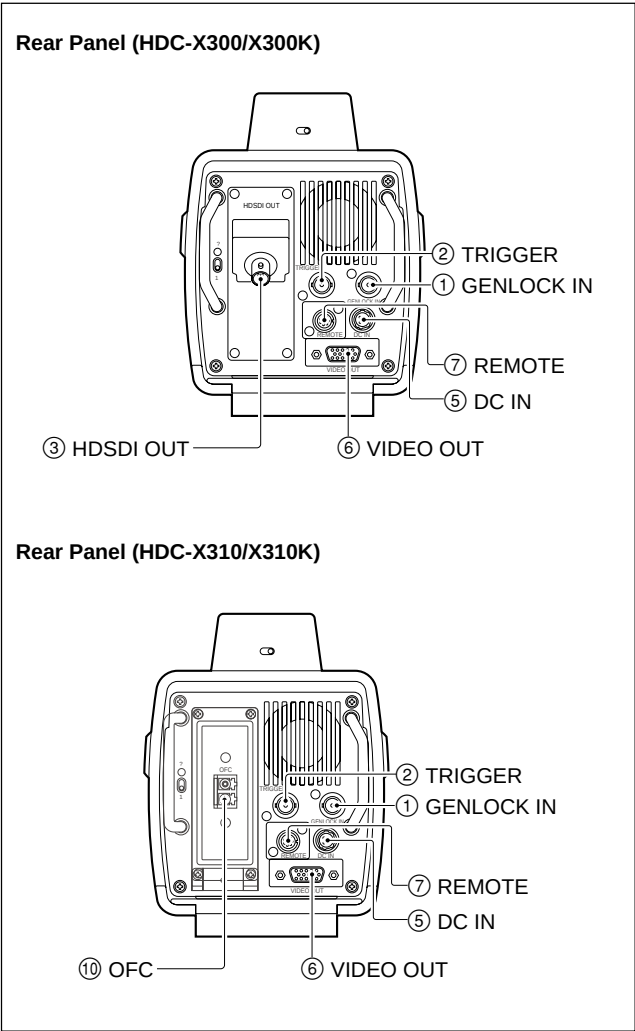
For customers in European countries:

Power cord 250 V 2.5 A (2.0 m): △1-575-131-91

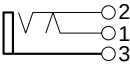


1-2. External Connectors

1-2-1. Connector Input/Output Signals

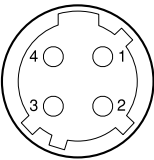


- ① **GENLOCK IN:** BNC type
Analog HD (3-level sync) or SD (2-level sync) sync signal input
- ② **TRIGGER IN/OUT:** BNC type
When the camera is in Still mode:
This connector functions as the still-picture trigger input (While this connector is on the ground level, the camera output still pictures.)
When the camera is in 24P (2-3 pulldown) mode:
The connector functions as the 2-3 pull-down sequence signal connector.
The input and output is TTL level.
- ③ **HDSDI OUT:** BNC type
HDSDI signal output
- ④ **TALLY OUT**
Stereo minijack



No.	Signal	Specifications
1	R TALLY OUT	70 mA (When R TALLY ON LED is connected)
2	G TALLY OUT	70 mA (When G TALLY ON LED is connected)
3	GND	

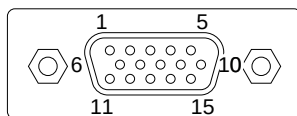
⑤ **DC IN (4P MALE)**



(External view)

No.	Signal	Specifications
1	UNREG GND	GND for UNREG
2	UNREG GND	GND for UNREG
3	UNREG IN	+10.5 to 17 V dc
4	UNREG IN	+10.5 to 17 V dc

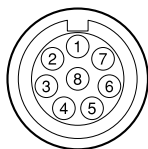
⑥ VIDEO OUT (HD D-SUB 15P, FEMALE)



(External view)

No.	Signal	Specifications
1	Pr/R (X)	700 mV p-p, 75 Ω
2	Y/G (X)	1 V p-p/700 mV p-p, 75 Ω
3	Pb/B (X)	700 mV p-p, 75 Ω
4	NC	
5	GND	
6	Pr/R (G)	GND for Pr/R
7	Y/G (G)	GND for Y/G
8	Pb/B (G)	GND for Pb/B
9	NC	
10	HD/VD/SYNC (G)	GND for HD/VD/SYNC
11	NC	
12	NC	
13	HD	TLL level (3 V p-p)
14	VD/SYNC	VD: TLL level (3 V p-p) SYNC: 0.6 V p-p, 75 Ω
15	NC	

⑦ REMOTE (8P FEMALE)

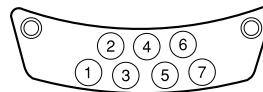


(External view)

No.	Signal	Specifications
1	TX RCP DATA (X)	SERIAL DATA OUT
2	TX RCP DATA (Y)	
3	RX RCP DATA (X)	SERIAL DATA IN
4	RX RCP DATA (Y)	
5	VIDEO OUT (G)	GND for VIDEO OUT
6	UNREG OUT	+12 V
7	UNREG GND	GND for UNREG
8	VIDEO OUT (X)	1.0 V p-p, 75 Ω
Shield	CHASSIS GND	CHASSIS GND

⑧ LENS 1 (Hot shoe connector 7P)

⑨ LENS 2 (Hot shoe connector 7P)



(External view)

LENS 1

No.	Signal	Specifications
1	FOCUS CONT	
2	ZOOM CONT	
3	REMOTE/LOCAL	REMOTE: 5 V
4	EXTENDER ON/OFF	EX 2 ON: GND EX 0.8 ON: 1.8 V OFF: 4.8 V
5	FOCUS POSI/SPEED	SPEED: 5 V
6	LENS RX	5 V p-p
7	LENS TX	5 V p-p

LENS 2

No.	Signal	Specifications
1	LENS RET SW (not used)	ON: GND
2	VTR S/S SW (not used)	TRIG: GND
3	UNREG GND	
4	COMP IRIS CONT	AUTO: 5 V
5	IRIS CONT	F16: 3.4 V dc to F2.8: 6.2 V dc
6	UNREG	
7	IRIS POSI	F16: 3.4 V dc to F2.8: 6.2 V dc

⑩ OFC (Optical Fiber Cable connectors)

LC connectors (Single mode) send/receive
(For HDC-X310/X310K)



(External view)

1-2-2. Connection Connector/Cable

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

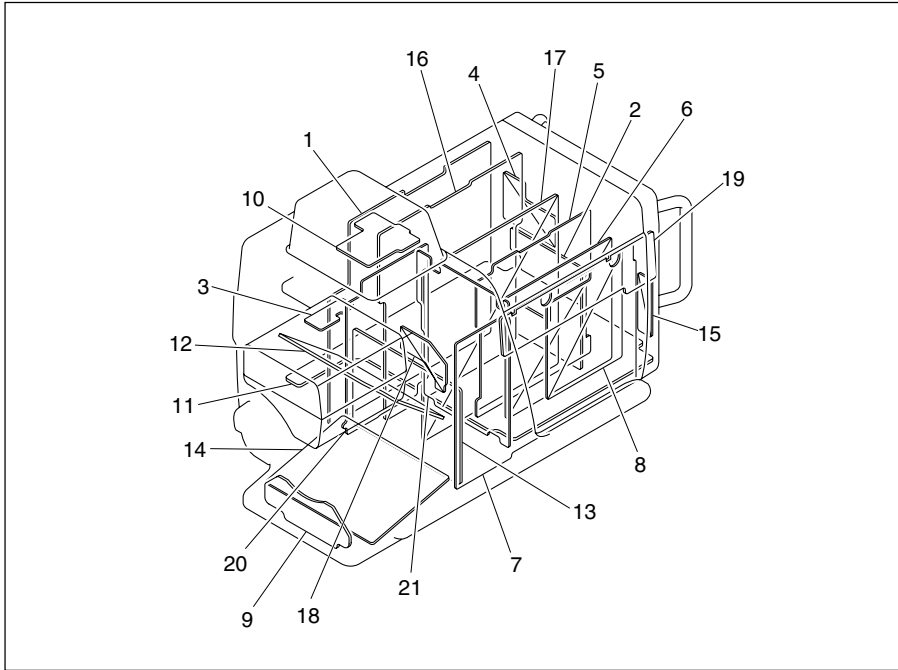
Connector Name	Connection Connector/Cable
DC-IN	1-468-626-91 ADAPTOR, AC (Supplied with this unit)
GENLOCK IN TRIGGER IN/OUT	1-564-742-11 PLUG, BNC or Coaxial cable BELDEN 8281 or equivalent
REMOTE (8P, FEMALE)	1-766-848-11 plug, 8P Male, or CCA cable assembly (optional) CCA-5-30 (30 m) CCA-5-10 (10 m) CCA-5-3 (3 m)
HDSOI OUT (HDC-X300/X300K)	1-569-370-12 PLUG, BNC or Coaxial cable BELDEN 1694A or equivalent
VIDEO OUT	Monitor cable (D SUB-BNC) (commercial cable)
TALLY OUT	Stereo miniplug (commercial cable)
OFC (HDC-X310/X310K)	Optical fiber cables (Single mode, LC connectors at both ends)

Section 2

Service Overview

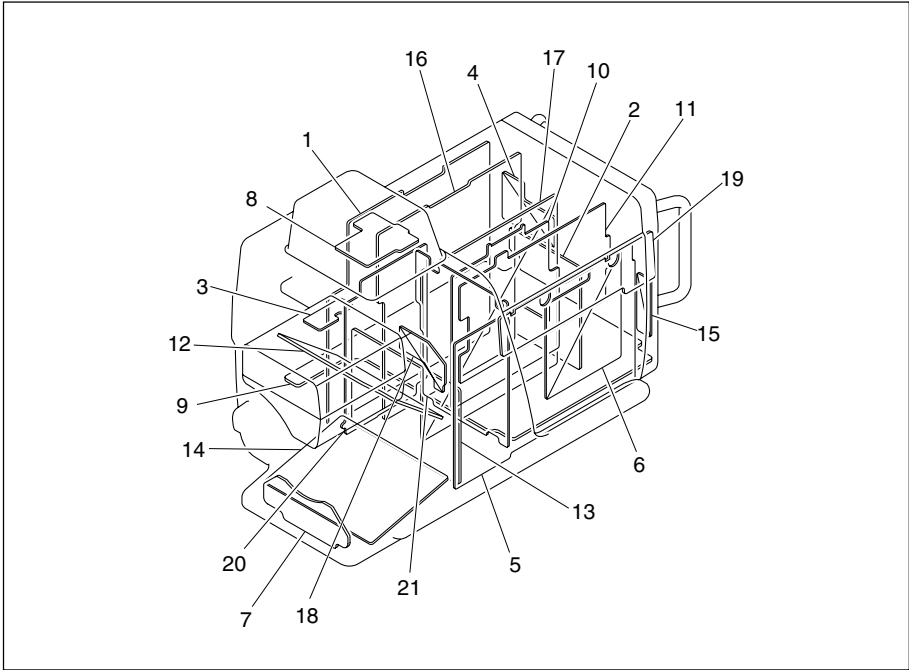
2-1. Location and Function of Boards

2-1-1. HDC-X300/X300K



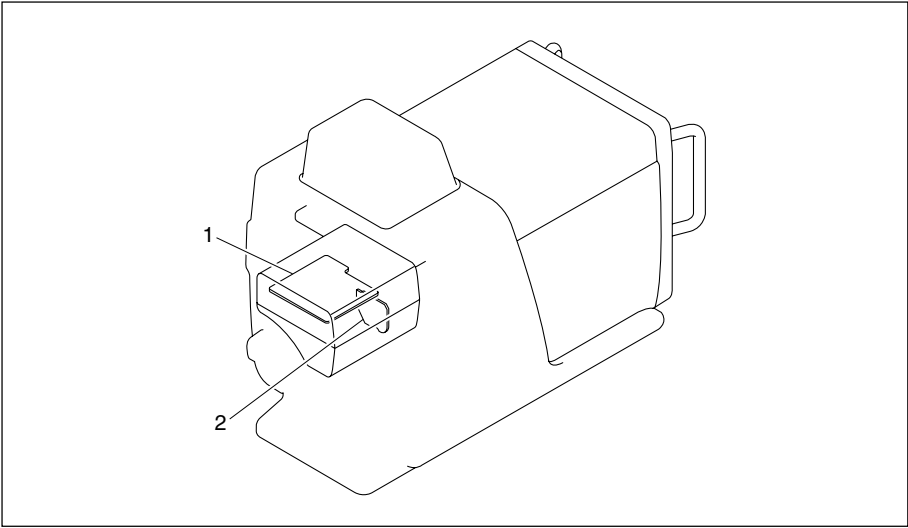
No.	Name	Circuit Function
1	AT-159	CPU Board
2	CN-2550	Connectors Board (REMOTE, VIDEO OUT)
3	CN-2566	TALLY Connector Board
4	CN-2691	DC IN Connector Board
5	DIF-154	Digital Interface
6	DIF-155	Digital Interface
7	DPR-253	Digital Process
8	SS-99	GENLOCK (sub board of DPR-253)
9	IR-37	Lens Connector Board
10	LED-421	TALLY LED
11	MB-1042	Mother Board
12	PA-304	Pre AMP (B ch)
13	PA-305	Pre AMP (G ch)
14	PA-306	Pre AMP (R ch)
15	PSW-83	Power Switch Board
16	RE-218	Regulator
17	RE-219	Regulator
18	SE-760	Filter Select Sensor Board
19	SW-1212	MENU Control Switch
20	TG-240	Timing Generator Board
21	VA-221	Video AMP

2-1-2. HDC-X310/X310K



No.	Name	Circuit Function
1	AT-159	CPU Board
2	CN-2550	Connectors Board (REMOTE, VIDEO OUT)
3	CN-2566	TALLY Connector Board
4	CN-2691	DC IN Connector Board
5	DPR-253	Digital Process
6	SS-99	GENLOCK (sub board of DPR-253)
7	IR-37	Lens Connector Board
8	LED-421	TALLY LED
9	MB-1042	Mother Board
10	OPM-48	Optical Digital Interface
11	OPM-49	Optical Digital Interface
12	PA-304	Pre AMP (B ch)
13	PA-305	Pre AMP (G ch)
14	PA-306	Pre AMP (R ch)
15	PSW-83	Power Switch Board
16	RE-218	Regulator
17	RE-219	Regulator
18	SE-760	Filter Select Sensor Board
19	SW-1212	MENU Control Switch
20	TG-240	Timing Generator Board
21	VA-221	Video AMP

2-1-3. HKC-SV1



No.	Name	Circuit Function
1	DR-567	Motor Driver Board
2	SE-804	Filter Position Sensor Board

2-2. Circuit Description

1. CCD Block

TG-240 Board

The TG-240 board is a timing generator board to generate pulses to sample-and-hold the CCD drive and output.

The master clock (55.6875 MHz or 55.63186 MHz) is selected according to the frame rate, and is input to the timing generator (IC16). Also the sample-and-hold pulses (SHD, SHP) are generated with this master clock, and are sent to each PA board.

The master clock is also converted into the LVDS level, and it is sent to the VA-221 and DPR-253 boards.

The timing generator (IC16) generates CCD vertical drive pulses, and sends them to the vertical drivers (IC204, 205, 206). The vertical drivers generate vertical drive signals, and send them to each PA board.

This board also generates signals by mixing the CCD Vsub voltage with the SHUTTER pulse, and sends them to each PA board.

PA-304/305/306 Boards

The PA-304/305/306 boards mount CCD, and contain the horizontal driver (IC6, 7 and Q1 to 4) that drives the CCD and the CDS IC (IC15) that sample-and-holds the CCD output.

The vertical drive signal and Vsub signal sent from the TG-240 board are directly input to the CCD.

The PA-304/305/306 boards hold the phase-adjusted master clock sent from the TG-240 board at IC2 during vertical transfer, and then generate horizontal drive signals at IC6, 7, and Q1 to 4. The resultant signals are then sent to the CCD.

Also these boards generate the reset gate signal (RG) and the last H drive signal (LH), and send them to the CCD.

The signal output from the CCD is amplified at the operational amplifier (IC10), and is then input to the CDS IC (IC15). The CDS IC (IC15) performs the correlated double sampling (CDS) using the SHD and SHP pulses sent from the TG-240 board. The resultant signal is amplified and sent to the VA-221 board in differential format.

VA-221 Board

The VA-221 board consists of VA (Video AMP) ICs (IC100, 200, 300) for gain up and white balance, and the LSI (IC403) for generating various compensation signals. Each RGB video signal output differentially from each PA board is input to the VA IC (IC100, 200, 300). The signal is mixed with the black shading compensation signal at the

VA IC, and is sent to the LPF once to remove signals with unneeded bandwidth. The resultant signal is returned to the VA IC again, is sent to the circuits for gain up, white balance, and white shading compensation, and is then sent to the DPR-253 board through the VA IC.

IC403 is an LSI to generate various compensation signals, such as black shading, white shading, and RPN compensation signals. The compensation signals generated at IC403 are used at the CDS IC on each PA board and the VA IC on the VA-221 board.

2. Digital Process

DPR-253 Board

The DPR-253 board consists of the digital process LSI (IC1000), the A/D converter and its peripheral circuits, and the D/A converter and its peripheral circuits.

Each RGB video signal sent from the VA-221 board is inverted and adjusted in level at the operational amplifier (IC1, 2, 3), is converted to the digital signal at the 12-bit A/D converter (IC13, 14, 15), and is then input to the digital process LSI (IC1000). The digital process LSI outputs a pulse with length corresponding to the difference between the black level of the input signal and the reference level. This pulse receives integration and is returned to the operational amplifier (IC1, 2, 3) to keep the black level stable.

The digital process LSI also generates a flare compensation signal according to the video level, and sends it to the operational amplifier (IC1, 2, 3).

The digital process LSI internally performs various video signal processing, such as KNEE/GAMMA compensation, DETAIL mix, and MATRIX compensation. This digital process LSI also detects various video levels, and sends the information to the CPU. The digital process LSI and its three SDRAMs (IC780, 781, 782) perform processing such as interlace/progressive conversion, 2-3 pulldown, and slow shutter.

After receiving all the digital signal processing, the video signal is divided into two systems (analog and digital) in the digital process LSI. The analog output is converted to the analog signal at the D/A converter (IC203), is driven at the operational amplifier (IC208, 209, 210), and is then output from the DSUB 15-pin connector with output impedance of 75 Ω . The analog output receives the RGB/YPrPb and SYNC ON G switching in the digital process LSI (IC1000) by the CPU that stores DIP switch information. The digital output consisting of sync signals (such as Y10bit, PrPb10bit, HD, VD, and FLD) is directly sent to the DIF-154 board.

SS-99 Board

The SS-99 board performs separation and phase comparison for GENLOCK signals. Both the HD and SD signals are supported. Each signal is sent to each sync signal separator, and is input to the PLD (IC8) used as a divider. When the GENLOCK signal is HD, the PLD (IC8) performs no operations, and the control signal generated from the sync signal of the GENLOCK signal and the internal horizontal sync signal at the phase comparator (IC12), is sent to the VCO on the TG-240 board. When the GENLOCK signal is SD, the processing depends on 50i or 60i.

For 60i, the sync signal of the GENLOCK signal is divided by 7 and the internal horizontal sync signal by 15, and they are input to the phase comparator (IC12).

For 50i, the sync signal of the GENLOCK signal is divided by 5 and the internal horizontal sync signal by 9, and they are input to the phase comparator (IC12).

3. Digital Interface

DIF-154/155 Boards

The digital output from the DPR-253 board is sent to the DIF-154 board, and is input to the FPGA (IC80) on the DIF-155 board. The signal is up-converted by 4/3, and receives the SAV and the EAV at IC80 to be the SMPTE274M-compliant parallel digital signal. The resultant signal then receives parallel signal conversion at IC5, and is driven as an HDS DI signal at IC8 to be output.

4. CPU

AT-154 Board

The AT-154 board mounts the CPU for camera control. The CPU (IC3) is SH2 (HD64F7145), and the memory consists of the flash memories (IC8, 9), SRAMs (IC10, 11), and FRAMs (IC14, 15).

The built-in A/D converter detects the iris positioning of the analog communication lens, PA temperature sensor value, drive voltage of the FAN, and lens expander.

The CPU communicates with the internal devices using the digital process LSI on the DPR-253 board, and with the IO expander using the bus line. The bus line is also used for initial settings for the timing generator on the TG-240 board. Serial communication is used for other operations. The CPU communicates with external devices using serial communication and with the lens using two-line communication. Communication with the remote controller connected to the REMOTE connector is through the serial communication IC (IC211).

The AT-154 board also performs the speed control and detection of FAN rotation, analog communication, lens iris control, ND filter position detection, and TALLY lighting control.

5. Optical Digital Interface

OPM-48/49 Boards

The 20-bit main line video signals (Y: 10 bit, Cb/Cr: 10 bit) that are output from the DPR-253 board is sent to the OPM-48 board, and then to the FPGA (IC1) on the OPM-49 board where these signals are multiplexed into 10-bit signals by the 111 MHz clock.

During serial communication at IC50, the COMMAND (2 lines) signal, F/V/H sync signals are also multiplexed and are transmitted.

The serial signal transmission rate will finally become 2.2275 Gbps.

This signal is optically transmitted to the Interface Unit HFU-X310.

Regarding the serial signal (2.2275 Gbps data rate) received by the optical module, COMMAND (2 lines) signal and F/V/H sync signals are demultiplexed into 10-bit signals by IC50 in the same way as the transmitter. The COMMAND signal and F/V/H sync signals are also demultiplexed from the 10-bit signals by IC1.

The OPM-49 board always monitors the optical transmission path, and exchanges status data with the IC and the CPU (IC3) on the AT-159 board. The status data includes optical module light-emitting (LD) level error, light-receiving (Pin-PD) level error, receiver sync signal error (transmission path status monitoring).

Since the OPM-48 and OPM-49 boards must be produced with floating structure, the OPM-48 board is secured on the motherboard, and the OPM-49 board is secured on the rear panel.

6. HKC-SV1 (option)

DR-567 Board

This board includes a motor drive circuit to rotate the filter disk, and the control CPU.

HD64F3694FYV is used as the CPU (IC7). It communicates with the CPU in the camera unit using the IIC interface, and receives current filter position data, filter turn instruction, etc. from the camera CPU. The filter position data is displayed with the LEDs D1 to D4.

The CPU rotates the motor to change the filter position upon receiving the filter rotation instruction from the camera unit or when the control switch S1 or S2 on the DR-567 board is pressed. The filter disk angle is acquired from the potentiometer on the SE-803 board. Stop the filter disk at an appropriate angle.

The drive circuit, comprising the operational amplifiers IC3/IC4 and transistors Q1 to Q4, drives the motor. The 7-bit control signal output from the CPU is converted to a DC value, and is then supplied to the motor to control its rotation direction and speed. When the filter disk comes to the best position, the photo MOS relay IC9 is disconnected to stop the motor.

SE-803 Board

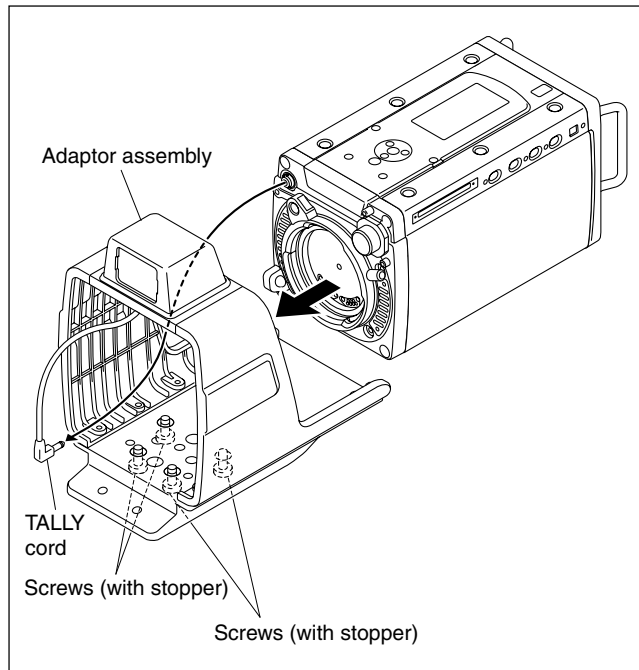
This board includes a potentiometer to detect filter disk angle.

The filter disk angle is transmitted to the potentiometer RV1 through the gear, and is then transmitted to the CPU on the DR-567 board as a DC value. A 1:4 gear ratio is provided to generate four turns of the potentiometer from one turn of the filter disk.

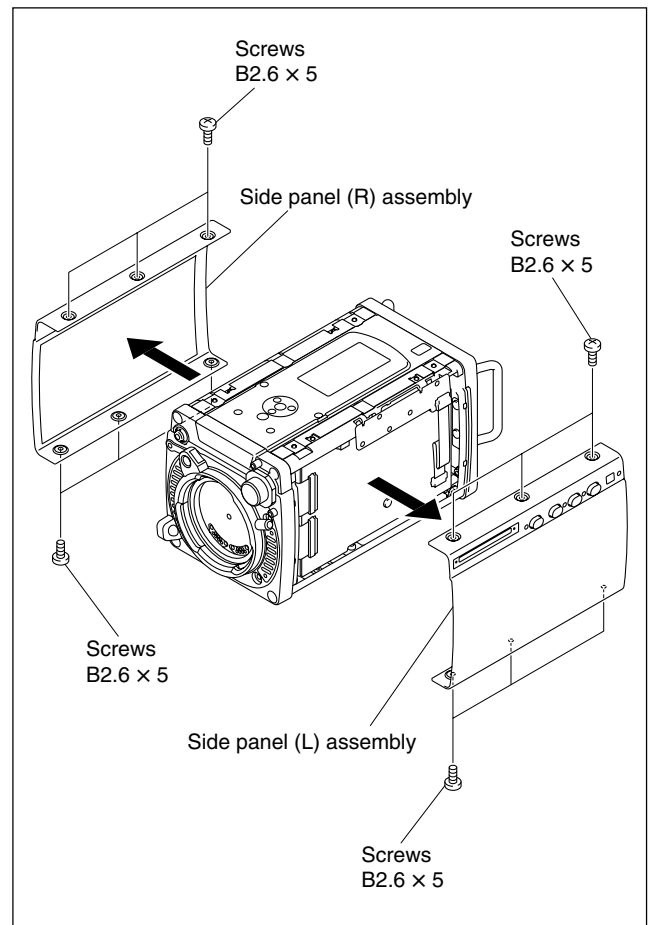
The 3-pin regulator IC1 supplies +5 V power supply to the tool for writing programs to the CPU on the DR-567 board.

2-3. Removing/Reinstalling the Exterior Parts

1. Disconnect the TALLY cord, and then loosen the four screws (with stopper) fully to remove the adaptor assembly.



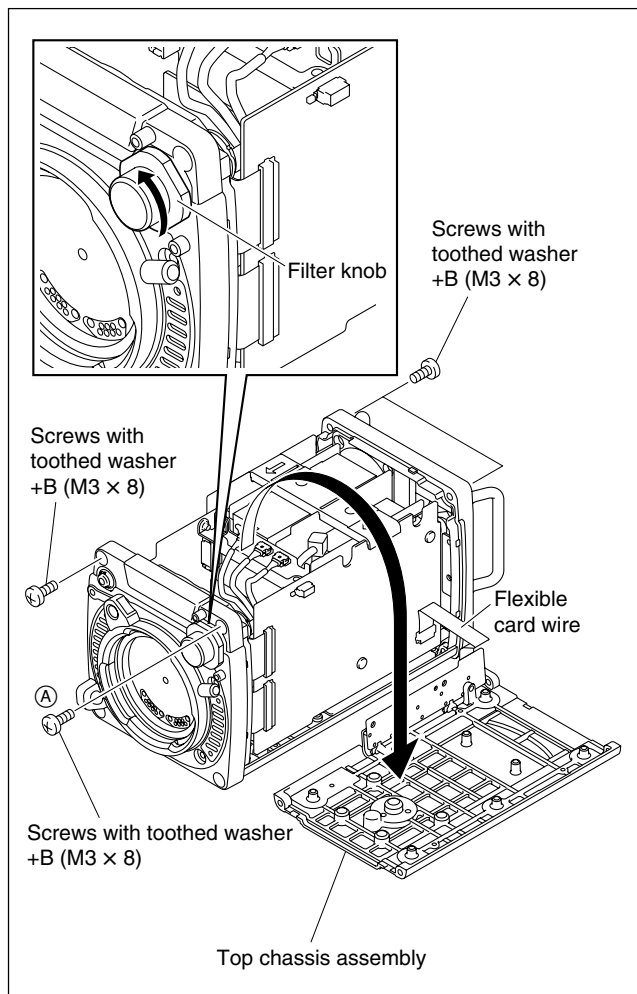
2. Unscrew the 12 screws (6 on each side), and remove the side panel (L) assembly and side panel (R) assembly in the arrow directions.



- Unscrew the four screws to remove the top chassis assembly. Place the assembly with the flexible card wire connected as shown in the figure.

Notes

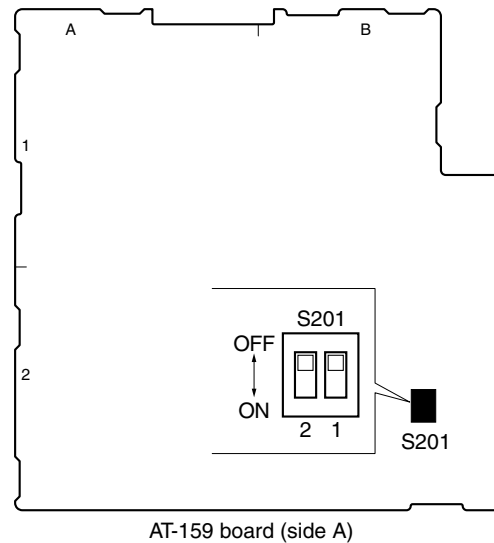
- To make it easy to unscrew screw A, turn the filter knob to a proper position.
- Be very careful not to fold the flexible card wire. Its life will be significantly shortened if it is folded.



- Reinstall the disassembled parts in the reverse order of steps 1 to 3.

2-4. Description of Switch Settings on AT-159 and DIF-154 Boards

AT-159 board

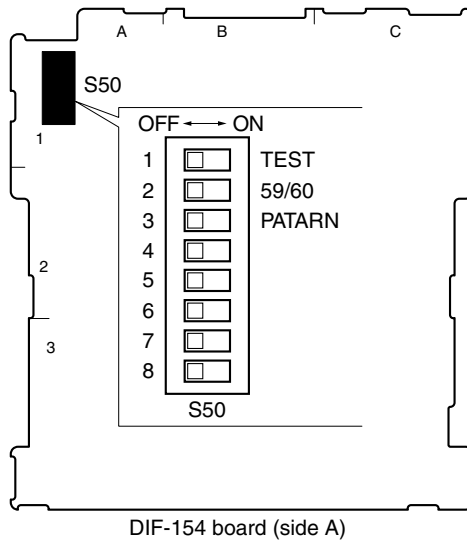


Note

“(B-2)” below shows the S201 address (location) on the board.

- S201-1 (B-2): Not used
Factory setting: OFF
- S201-2 (B-2): FRAM reset switch
When the power is turned on with this switch ON, the FRAM data is entirely reset to the default data.
Factory setting: OFF

DIF-154 board

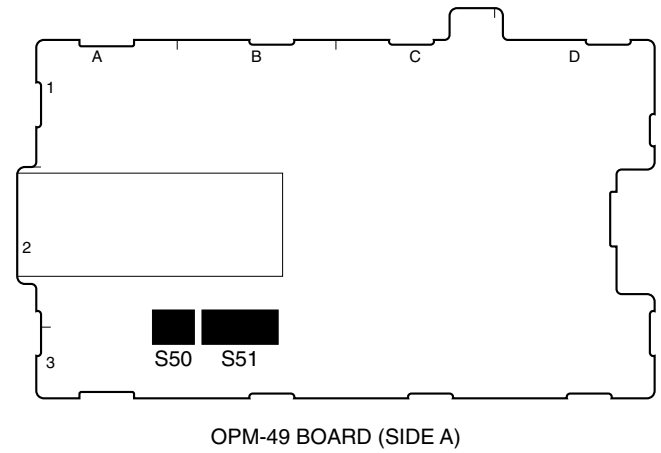


Notes

- Never change the setting of the factory use switches.
- “(A-1)” below shows the S50 address (location) on the board.

S50-1 to 8 (A-1): Factory use
Factory setting: OFF

OPM-49 board



Notes

- Never change the setting of the factory use switches.
- “(A-3, B-3)” below shows the S50 address (location) on the board.

S50-1 to 4 (A-3): Factory use
Factory setting: OFF
S51-1 to 8 (B-3): Factory use
Factory setting: OFF

2-5. Fixtures and Equipment

2-5-1. Fixtures

Part No.	Name	Usage/Note
A-8347-484-A	MS-69 board	AT-159 board ROM version upgrading
Commercially available on market	Grayscale chart	reflective type, Video system adjustment
J-6026-130-B	Grayscale chart	transparent type (4 : 3), Video system adjustment
J-6394-080-A	Grayscale chart	transparent type (16 : 9), Video system adjustment
J-6029-140-B	Pattern box PTB-500	Video system adjustment
J-7120-140-A	PLD data download cable	Download the PLD data
Commercially available on market	Memory Stick	Saving data (Up to 128 MB)
Commercially available on market	Air brush	Cleaning the Vent Portion of the Fan

2-5-2. Equipment

Equipment	Model name	Usage/Note
Remote control unit	Sony RM-B750	AT-159 board ROM version upgrading
Camera remote control cable	Sony CCA-5-10 CCA-5-3	AT-159 board ROM version upgrading

2-5-3. Measures

Use the calibrated equipment or equivalent as listed below for the adjustments.

Measuring equipment	Model name
Oscilloscope	Tektronix TDS3054B or equivalent (150 MHz or more)
HD analog Waveform monitor	Tektronix 1735HD or equivalent
Frequency counter	Advantest TR5821AK or equivalent
HD Color monitor	Sony HDM-D20F1 or equivalent
Luminance meter	Minolta LS-110 or equivalent

2-6. Software/Firmware

2-6-1. List of EEPROM/FRAM

Board Name	Ref. No.	Type	Saved Data Description	Actions at Replacement
AT-159	IC8 IC9	FRASH MEMORY	Software	This software must be written using the software downloading tool. Refer to Sections 2-6-3 and 2-6-4 for details.
	IC14 IC15	FRAM	Menu settings	Menu settings are reset to the default values. Perform menu setting again if necessary.
VA-221	IC7	EEPROM	Adjustment value of preset white	Readjustment of preset white Refer to Section 4-2 for details.
DPR-253	IC408	EEPROM	Adjustment value of analog video output level	Readjustment of analog video output level Refer to Section 4-2 for details.
PA-306	IC16	EEPROM	CCD block specific data	This EEPROM cannot be replaced because the data cannot be re-set. If you want to replace EEPROM with a new IC due to a defective part, contact your local Sony Sales Office/Service Center.

2-6-2. Writing and Rewriting the PLD/FPGA Internal Data

HDC-X300/X300K/X310/X310K uses the PLD (Programmable Logic Device) and FPGA that supports the e-Production (EPR) system to write and rewrite the internal data.

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

Note

The part number of PLD and configuration memory for FPGA in which data is not written yet, is shown in “Section 5 Spare Parts”.

Therefore, if part replacement is required, write the data by the following procedure.

As the PLD and FPGA cannot be replaced, replace entire board when the PLD or FPGA is defective.

Corresponding PLD/FPGA

PLD (FPGA)/ROM	EPR connector	Project file No.
IC80 (FPGA)/DIF-155 IC57/DIF-154 *1 IC58/DIF-154 *1	CN50/DIF-154	E_000_001_85_xx
IC1 (FPGA)/OPM-49 IC4 (ROM)/OPM-48 *2	CN2/OPM-48	E_000_002_44_xx
IC8 (PLD)/SS-99	CN2/SS-99	E_000_001_77_xx

*1: IC57/DIF-154, IC58/DIF-154 is the configuration memories for IC80/DIF-155.

*2: IC4/OPM-48 is the configuration memories for IC1/OPM-49.

Equipment required

- PLD download fixture (Sony part number: J-7120-140-A) :
The cable connected PC to this unit.

Note

When connecting the fixture to the board, remove the fixture cable from the fixture itself.

Connect the opposite side to the fixture main unit before starting to use the fixture.

- PC : A PC having parallel port.

A PC in which the PLD Download Tool software is already installed.

For the applicable OS and the operating environment, refer to “Download Tool Operating Instruction for Device Programming”.

Data write procedure

Data write procedure in the PLD or FPGA configuration memory is outlined below.

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

1. Prepare the Project file.

Note

Download the Project file from the Sony Database Server.

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

2-6-3. Upgrading BOOT Program and MAIN Program Using MS-69 Board

This section describes the upgrading procedure of the AT-159 board ROM programs (BOOT and MAIN) using the MS-69 board.

Tools required

- MS-69 board
- Memory Stick (commercially available)

Notes

- The volume of data to be written in a Memory Stick is approximately 2 MB.
- HDC-X300/X300K/X310/X310K accepts a standard Memory Stick only. A MagicGate Memory Stick (equipped with MagicGate copyright protection technology) or a Memory Stick PRO is not acceptable.

Preparation

Notes

- When you need the BOOT program, MAIN program or HDC-X300 MS jig program, contact your local Sony Sales Office/Service Center.
- Menu settings or other user settings cannot be retained depending on the program version. For more information, refer to the information released.

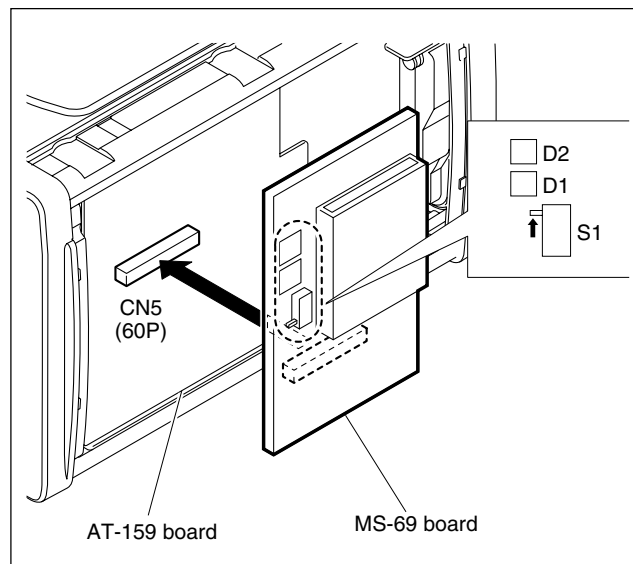
1. Write the latest HDC-X300 MS jig program in the two ROMs on the MS-69 board.
2. Write the latest BOOT program and MAIN program in the Memory Stick.

Notes

- Memory Stick writing folder:
\\MSSONY\\PRO\\CAMERA\\HDCX300
- Program file names:
BOOT.ROM (BOOT program),
X300AT.ROM (MAIN program)
Both program names must be specified for the upgrade operation to start.

Procedure

1. Turn off the power of the unit.
2. Insert the Memory Stick containing the latest programs into the Memory Stick compartment on the MS-69 board.
3. Open the side panel (R) assembly.
(Refer to Section 2-3.)
4. Connect the MS-69 board to CN5 on the AT-159 board.
5. Set switch S1 on the MS-69 board to "0" (upper side).



6. Turn on the power of the unit.
7. The ROMs on the AT-159 board start writing the latest programs.

Note

The green indicator lights and the red indicator blinks on the MS-69 board while the upgrade operation is in progress for approximately 30 seconds to one minute. The indicators turn off when the upgrading finishes. There is no indication for video output status, etc.

8. Turn off the power of the unit.
9. Disconnect the MS-69 board from the AT-159 board.
10. Attach the side panel (R) assembly.

2-6-4. Upgrading MAIN Program Using RM-B750

This section describes the upgrading procedure of the AT-159 board ROM program (MAIN) using RM-B750.

Equipment/tools required

- RM-B750 with the camera upgrade software installed
- Camera remote control cable (50 m or shorter)
- Memory Stick (commercially available)

Notes

- The volume of data to be written in a Memory Stick is approximately 2 MB.
- HDC-X300/X300K/X310/X310K accepts a standard Memory Stick only. A MagicGate Memory Stick (equipped with MagicGate copyright protection technology) or a Memory Stick PRO is not acceptable.

Preparation

Notes

- When you need the MAIN program or the camera upgrade software for RM-B750, contact your local Sony Sales Office/Service Center.
- The BOOT program cannot be upgraded by this method though it can be upgraded by using the MS-69 board.
- Menu settings or other user settings cannot be retained depending on the program version. For more information, refer to the information released.
- After the upgrading finishes, uninstall the camera upgrade software from RM-B750, and then reinstall the latest release software.

1. Install the camera upgrade software in RM-B750 referring to “Updating the Software” in the RM-B750 Service Manual.
2. Write the latest MAIN program in the Memory Stick.

Notes

- Memory Stick writing folder:
\\MSSONY\\PRO\\CAMERA\\HDCX300
- Program file name: X300AT.ROM

Procedure

1. Turn off the power of the unit.
2. Connect RM-B750 to HDC-X300/X300K with the remote control cable.
3. Insert the Memory Stick containing the latest program into the Memory Stick compartment on RM-B750.
4. Turn on the power of the unit.
5. Operate RM-B750 to display the program upgrade menu referring to “Updating the Software” in the RM-B750 Service Manual. The menu is the one that is used for upgrading RM-B750.
6. Select “CHU Update” on the “Firmware Update” page in the RM-B750 menu. Perform operations following the instructions in the menu.

Note

The upgrade operation status is shown on the RM-B750 menu screen.

The upgrade operation requires approximately four minutes.

7. After the upgrading finishes, uninstall the camera upgrade software from RM-B750, and then reinstall the latest release software.

2-7. Diagnostics

2-7-1. Device Check

The HDC-X300/X300K has the self-diagnostics function to check the communication function of the respective devices.

Result of the self-diagnostics is displayed on the DEV STATUS page of the DIAGNOSIS menu.

Description of DEV STATUS page (DIAGNOSIS menu)

If “NG” is displayed, the corresponding device itself or its connection may be defective.

02ODEV STATUS		TOP
FRAM	EEPROM	LSI
AT : OK	VA : OK	HT : OK
	DPR : OK	BCS : OK
	PA : OK	

Item	Setting	Function
FRAM AT	Display only	Displays the status of the FRAM (IC14, 15) on the AT-159 board
EEPROM VA	Display only	Displays the status of the EEPROM (IC7) on the VZ-221 board
EEPROM DPR	Display only	Displays the status of the EEPROM (IC408) on the DPR-253 board
EEPROM PA	Display only	Displays the status of the EEPROM (IC16) on the PA-306 board
LSI HT	Display only	Displays the status of the LSI (IC1000) on the DPR-253 board
LSI BCS	Display only	Displays the status of the LSI (IC403) on the VA-221 board
FILTER SERVO	Display only	Displays the communication status when connecting the HKC-SV1
OPTICAL MODULE	Display only	Displays the communication status when connecting the HFU-X310
Tx LD	Display only	Displays the communication status of laser diode for sending
Rx LEVEL	Display only	Displays the communication status of photo receiving level
Rx ERROR	Display only	Displays the communication status of photo receiving data error

Display method

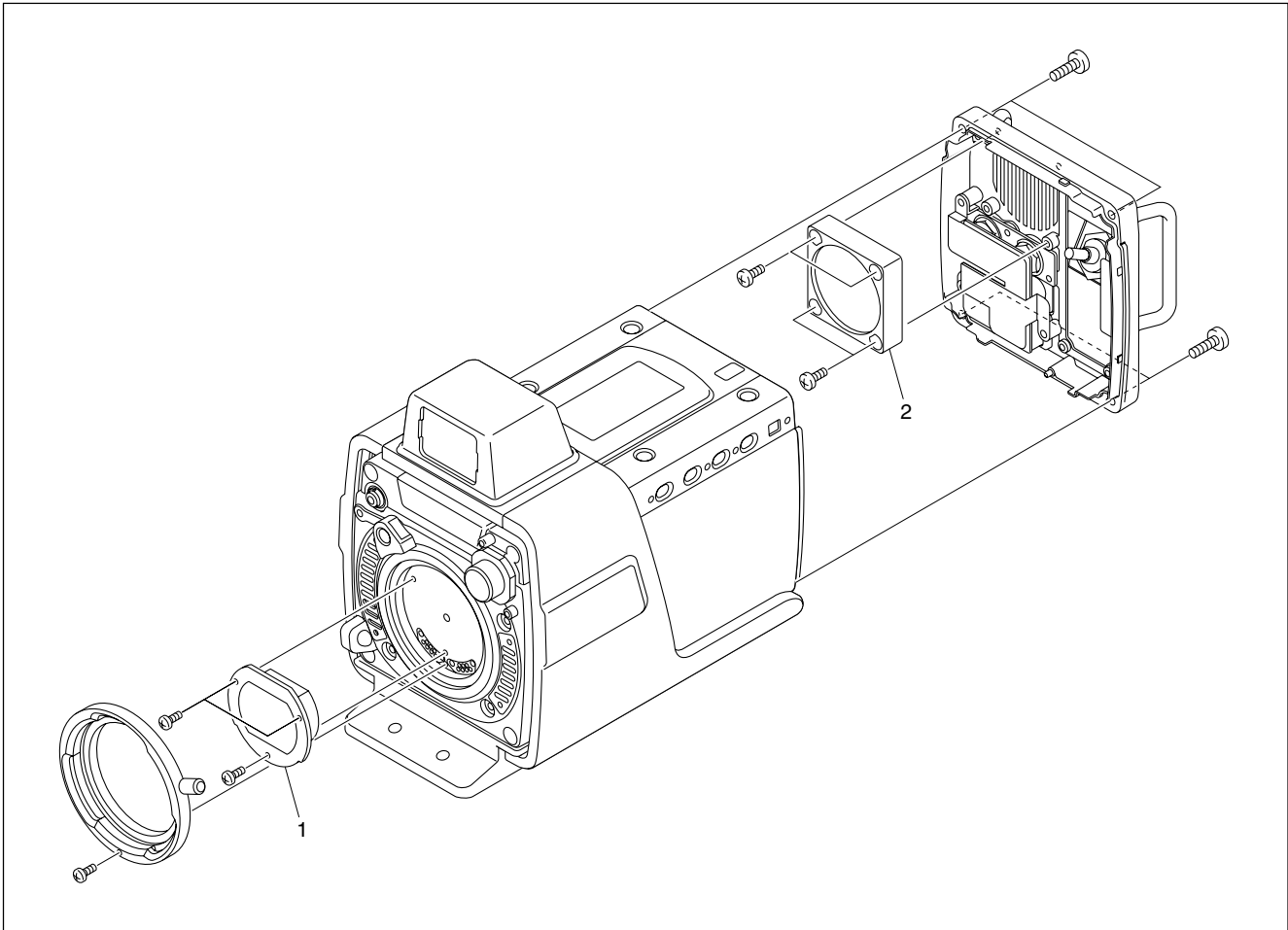
Refer to “Basic Operations on Menu” for the details on the menu operation.

1. Open the rubber cap on the side panel, and set the DIP switch 1(MENU) to the lower position (OFF). Press the MENU button.
A menu appears on the HD video monitor connected to the VIDEO OUT or HDSDI OUT connector.
2. Press the UP/WHITE or DOWN/BLACK button to move the arrow to the DIAGNOSIS menu, then press the ENTER button.
3. Press the UP/WHITE button to move the arrow to the page number at the upper left corner of the screen then press the ENTER button.
The arrow changes to a flashing question mark.
4. Press the UP/WHITE or DOWN/BLACK button until the DEV STATUS page appears.
5. Press the ENTER button.

2-8. Inspection and Maintenance

2-8-1. Recommended Replacement Parts

The recommended replacement parts and their recommended replacement timings are.



No.	Part name	Sony part No.	Recommended replacement timing
1	Filter unit, optical	1-788-111-11	It can become nebulous (intransparent and whitened) with elapse of time. Then it will not satisfy the required characteristics. Replace it as needed.
2	DC fan	1-698-741-31	The life of the DC fan is about 30,000 hours. Replace it when accumulated operating time reaches 30,000 hours on the HOURS METER page of the DIAGNOSIS menu.*1

*1: For details of the menu, refer to Section 3 “Menu and File”, for removal and reinstallation procedures, refer to Section 2-12.

2-8-2. Customer-reset of the Hours Meter

The hours meter can be reset by costumers using the SERVICE menu.

Refer to Section 3-2-2 “Basic Operation on Menus” for the details of the menu operation.

Customer-reset procedure

1. Display the SERVICE menu on the video monitor.
(Refer to Section 3-2-3 “Displaying the SERVICE menu (Service Mode)”.
2. Press the UP/WHITE button to move the arrow to the page number at the upper left corner of the screen, then press the ENTER button.
The arrow changes to a flashing question mark.
3. Press the UP/WHITE or DOWN/BLACK button until the HOURS METER page appears.
4. Press the ENTER button.
5. Press the UP/WHITE or DOWN/BLACK button to move the arrow to an hours meter to be reset, and Press the ENTER button.
A question mark flashes at the selected item.
6. Press the ENTER button. The accumulated time of the selected hours meter is reset.

To quit Menu mode

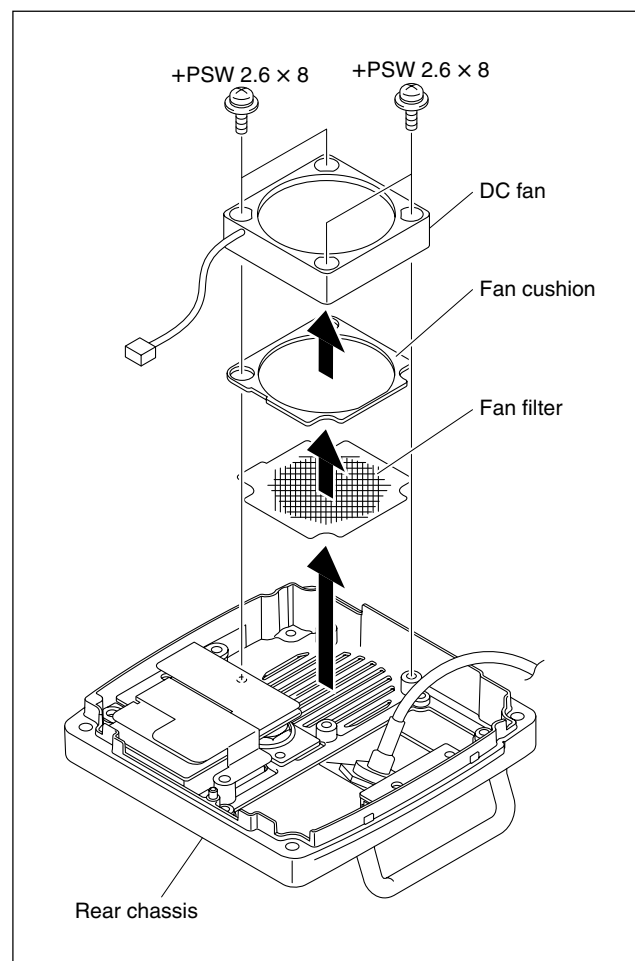
1. Press the MENU button.

2-8-3. Cleaning the Vent Portion of the Fan

Fan filter for preventing from dust is attached in the vent portion of the fan. Clean this component every two or three months. Clogging may cause the temperature increases inside the camera and result in a trouble.

Fan Filter

1. Remove the DC fan. (Refer to Section 2-12. “Removing/Reinstalling the Fan”)
2. Take out the fan filter and blow away dust on the fan filter with an air brush.



2-9. Note on Service

2-9-1. Adjustment/Settings after Replacement of Board

This section describes the actions required when replacing board or when replacing ROM, FRAM or PLD on the board. No action is required for boards other than the following.

AT-159 board

1. Upgrade the FLASH MEMORY (IC8, IC9)
Refer to Section 2-6-3 and 2-6-4 for details.
2. Reset the FRAM (IC4, IC15) to the customer settings using the SERVICE menu (as required).
Refer to Section 3-2-3 for details.

DIF-154/155 board (DIF assembly)

1. Write the data to the FPGA configuration memory (IC14, IC15 on the AT-154 board).
Refer to Section 2-6-2 for details.

DPR-253 board

1. Re-write the adjustment value data in the EEPROM (IC408).
Readjust the analog video output level to rewrite the adjustment value data.
Refer to Section 4-2 for details.

SS-99 board

1. Write the data in the PLD (IC8).
Refer to Section 2-6-2 for details.

VA-221 board

1. Re-write the adjustment value data in the EEPROM (IC7)
Readjust the preset white to rewrite the adjustment value data.
Refer to Section 4-2 for details.

2-9-2. Note on Replacement of Parts on the Boards

The PA-304/PA-305/PA-306 and IR-37 boards cannot be replaced as the mounted board and part levels. If there is any defective part, replace the whole CCD unit.

2-9-3. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

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

2. Standardization of Parts

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

3. Stock of Parts

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

4. Harness

Harnesses with no part number are not registered as spare parts.
In need of repair, get components shown in the list and repair using them.

2-9-4. Unleaded Solder

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



: LEAD FREE MARK

Notes

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

2-9-5. Description of CCD Block Number

All of the CCD units have their unique ID numbers. This number is called CCD block number indicating the type of CCD block and serial number. The label indicating the CCD block number is attached inside of each CCD unit.

Example) ABC xxxxx
 └── Serial number of the CCD unit
 └── Type of the CCD block

Aplicable Model	Type of CCD Block
HDC-X300	AV
HDC-X300K	AV

2-10. Removing/Reinstalling the Flexible Card Wire

Note

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

The two types of different shape connectors are used in this unit.

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

Disconnecting

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

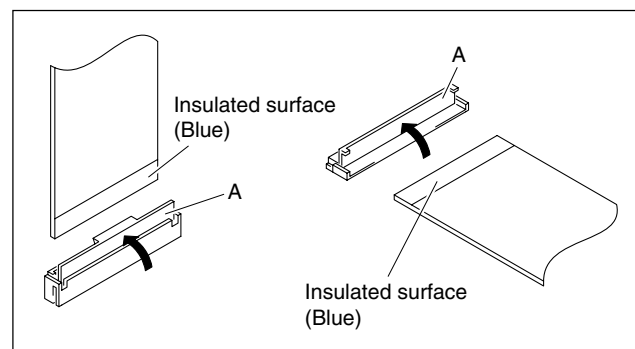
Connecting

Notes

- Do not insert the flexible card wire sideways.
 - Confirm that there is no stain or dust on the contact surface of the flexible card wire.
1. Slide or lift the portion A in the arrow direction and securely insert the flexible card wire into the deep end of the connector.
 2. Return the portion A to its original position and lock the connector.

Note

When connecting the flexible card wire, check the connector shape, and great care should be taken for the orientation of the contact surface or isolation surface (blue).

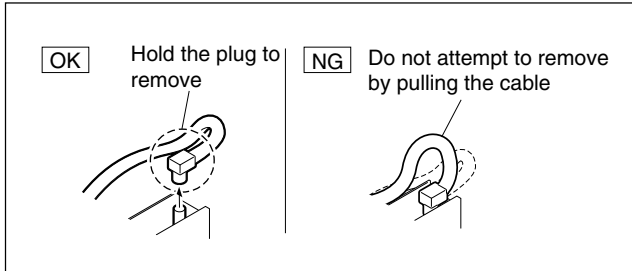


2-11. Notes on Disconnecting/Connecting the Coaxial Cable

Coaxial cables are used in HDC-X300/X300K.
The following notes are required for disconnecting/connecting the coaxial cables.

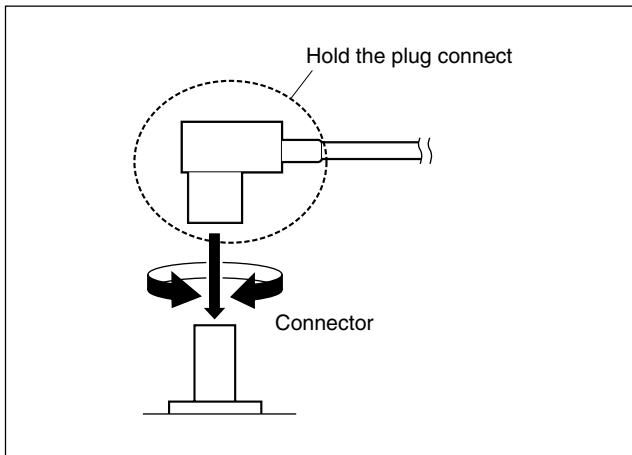
Notes on Disconnecting

Do not attempt to remove by pulling the cable. Be sure to hold the plug to remove.



Notes on Connecting

- Hold the plug, and connect the coaxial cable to the connector vertically.
- Press the plug into the connector by small turning to the left and right.



2-12. Removing/Reinstalling the Fan

- Replace the DC fan on the basis of “30,000 hours” reading of the hours meter (FAN).
- After the DC fan is replaced, reset the hours meter (FAN) using the SERVICE menu “HOURS METER” page 2.

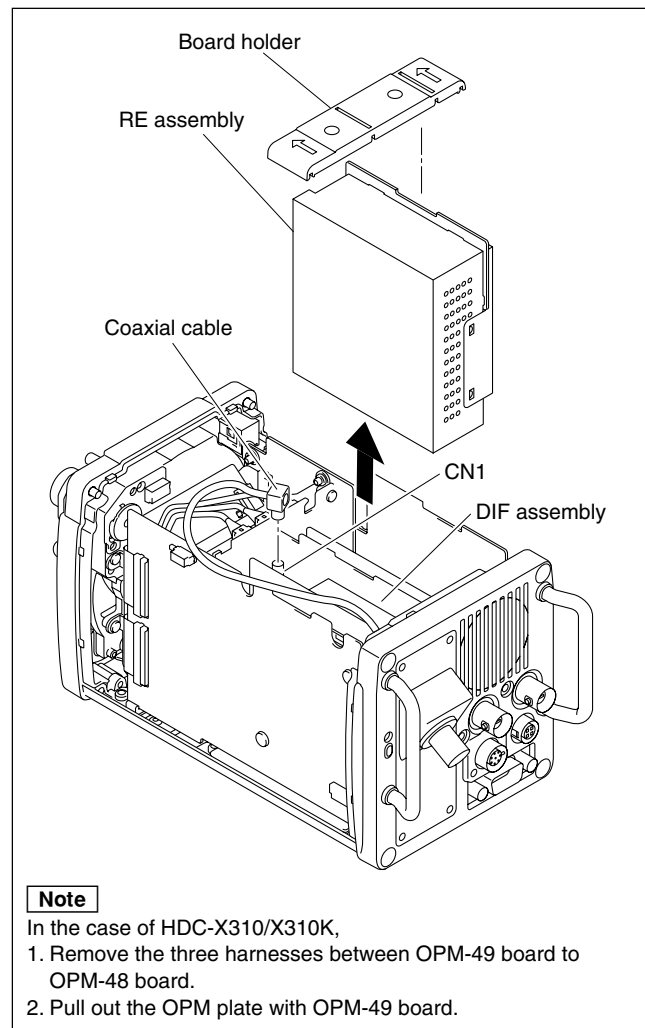
Removal

1. Remove the side panel (L) assembly, side panel (R) assembly and top chassis assembly. (Refer to steps 1 to 4 in Section 2-3.)
2. Remove the board holder and disconnect the coaxial cable from connector CN1 on the DIF-155 board.

Note

When disconnecting the coaxial cable, hold its plug. Do not pull the cable. (Refer to Section 2-11.)

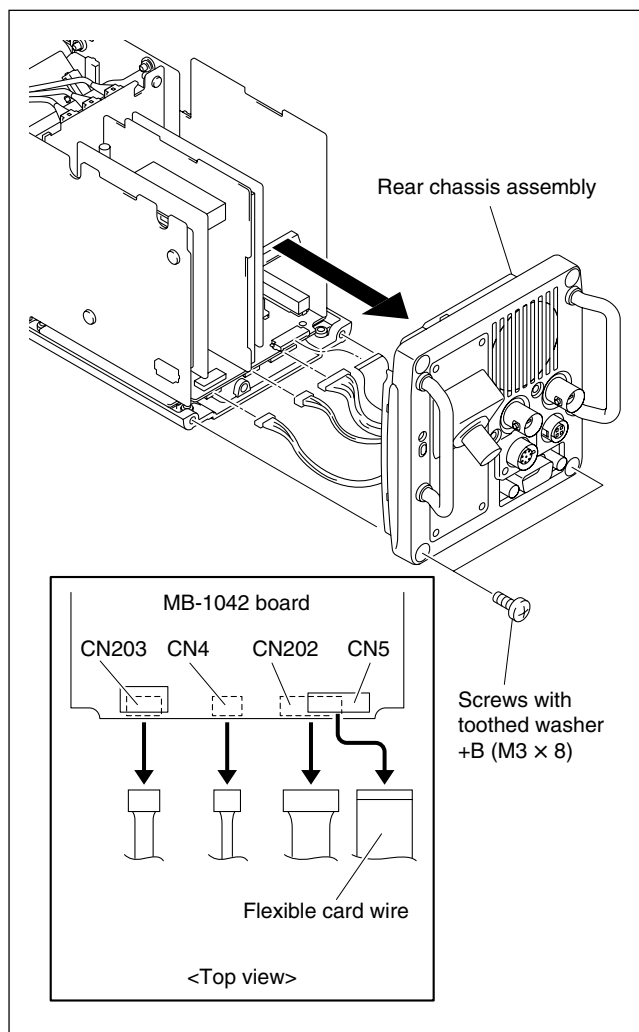
3. Remove the RE assembly in the arrow direction.



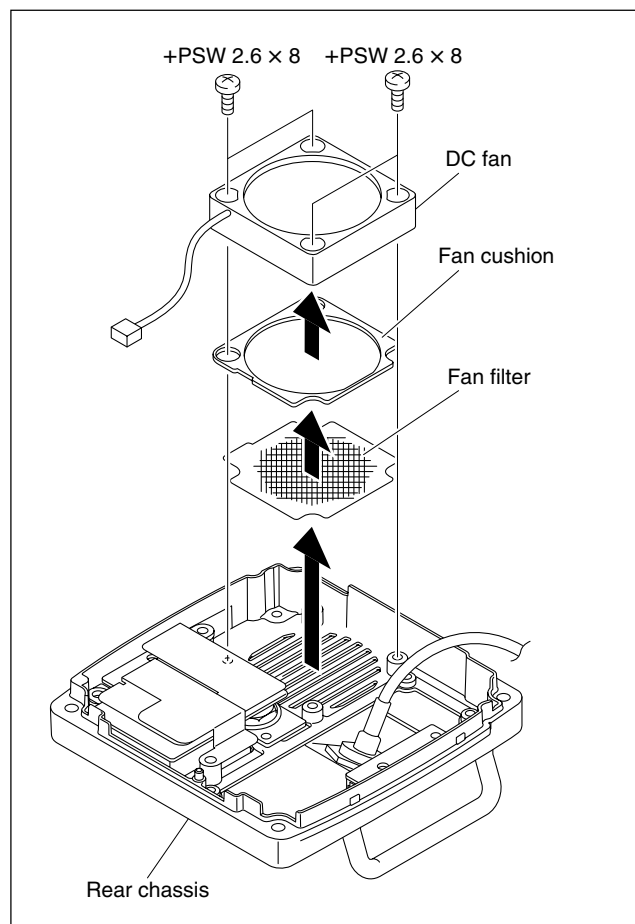
4. Unscrew the two screws, disconnect the three harnesses and the flexible card wire from connectors CN4, CN5, CN202 and CN203 on the MB-1042 board, and then remove the rear chassis assembly.

Note

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



5. Unscrew the four screws to remove the DC fan, fan cushion and fan filter.

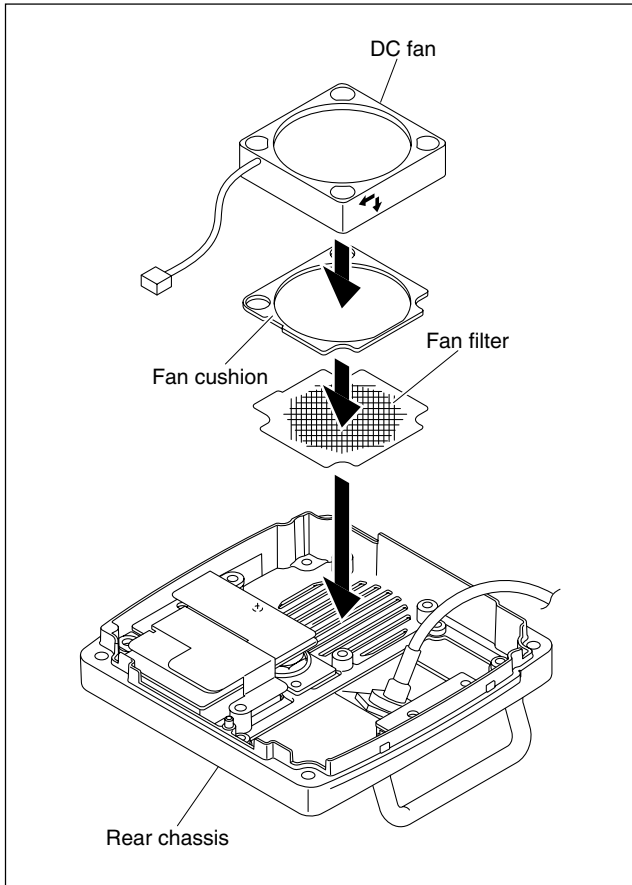


Reinstallation

6. Place the fan filter and fan cushion at their original positions on the rear chassis.
7. Secure the DC fan together with the fan filter and cushion with the four screws.

Note

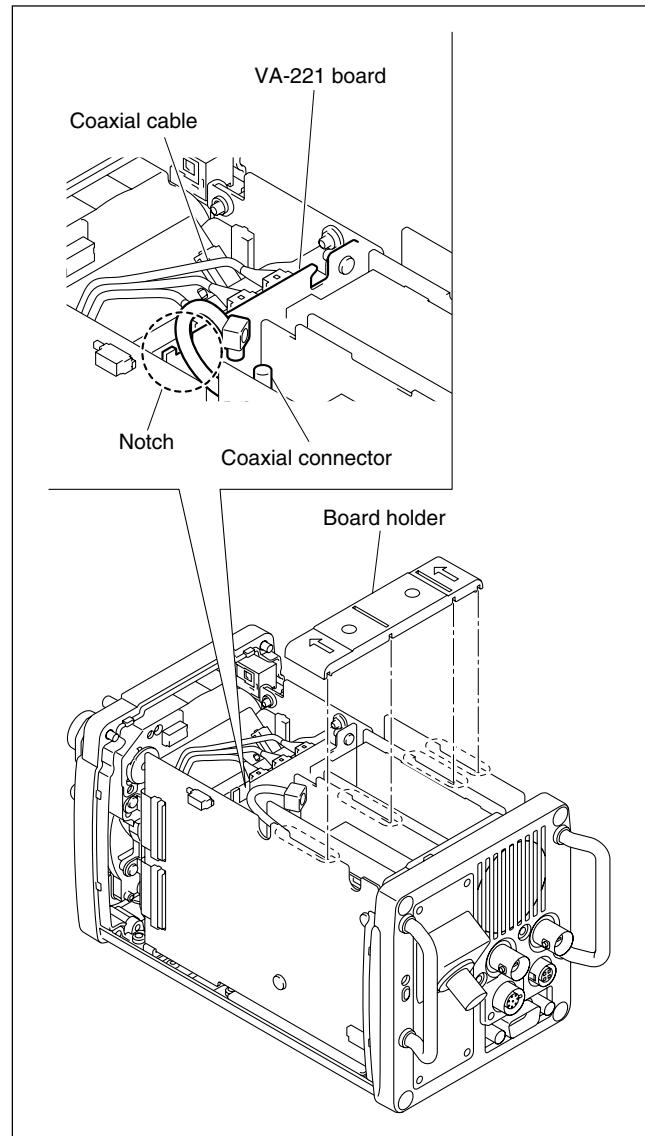
Install the DC fan in the correct orientation as shown below.



8. Reinstall the disassembled parts in the reverse order of steps 1 to 4.

Notes

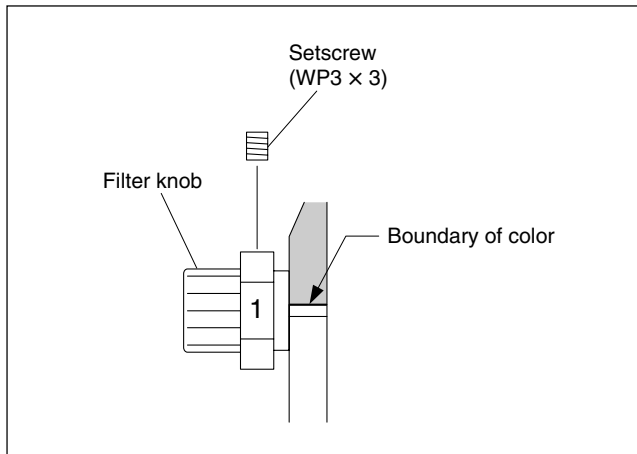
- Install the board holder taking care of its orientation and position.
- Connect the coaxial cable to the coaxial connector through the notch on the VA-221 board.
- When connecting the coaxial cable, hold its plug and plug it vertically into the connector while pressing the plug by small turning to the left and right. (Refer to Section 2-11.)



9. Reset the hours meter (FAN) using the SERVICE menu "HOURS METER" page 2 only when the DC fan is replaced.

2-13. Positioning Adjustment for Filter Knob

1. Rotate the knob shaft until the clear filter can be seen from the lens mount.
2. Align the filter knob number 1 with the boundary of color on the front panel, and tighten the setscrew.
Tightening torque: $45-60 \times 10^{-2} \text{ N}\cdot\text{m}$ (4.5-6.0 kgf·cm)
3. Rotate the filter knob, and check that it rotates smoothly.

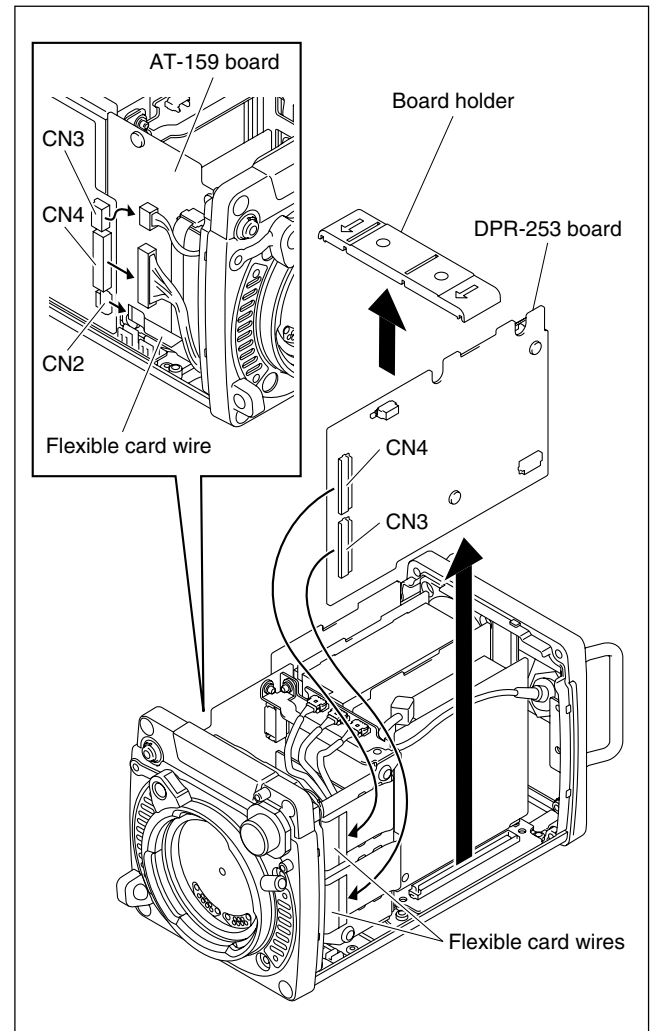


2-14. Replacing the CCD Block Assembly

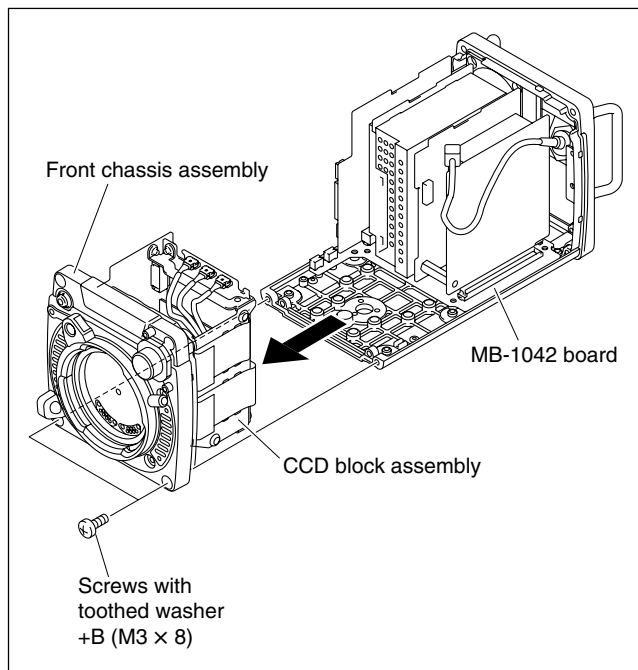
1. Remove the side panel (L) assembly, side panel (R) assembly and top chassis assembly.
(Refer to steps 1 to 3 in Section 2-3.)
2. Disconnect the two harnesses and the three flexible card wires from connectors CN3, CN4 (DPR-253 board), CN2, CN3 and CN4 (AT-159 board), and then remove the board holder and DPR-253 board.

Note

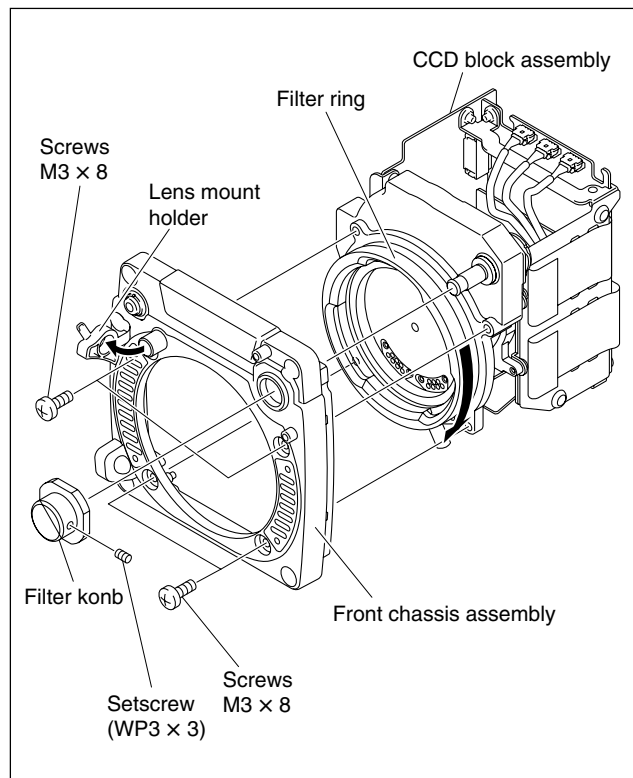
Be very careful not to fold the flexible card wires. Its life will be significantly shortened if it is folded.



3. Unscrew the two screws and shift the front chassis and CCD block assemblies slightly forward while lifting the coaxial cable.
4. Remove the front chassis assembly and CCD block assembly.



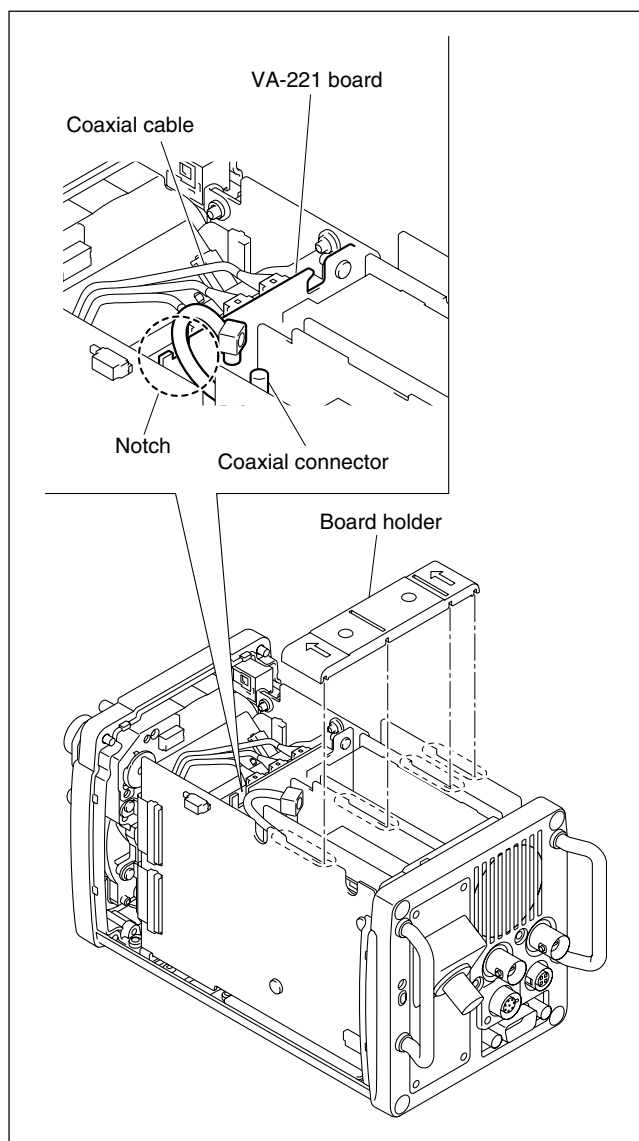
5. Unscrew the setscrew to remove the filter knob.
6. Remove the lens mount holder and turn the filter ring clockwise to the full.
7. Unscrew the four screws and detach the CCD block assembly from the front chassis assembly.



8. Detach the transport case from the CCD block assembly obtained for repair.
9. Install the new CCD unit in the reverse order of steps 1 to 7.
10. After replacing the CCD block assembly, Execute the SERVICE RESET and the FACTORY PRESET with SERVICE MENU.

Notes

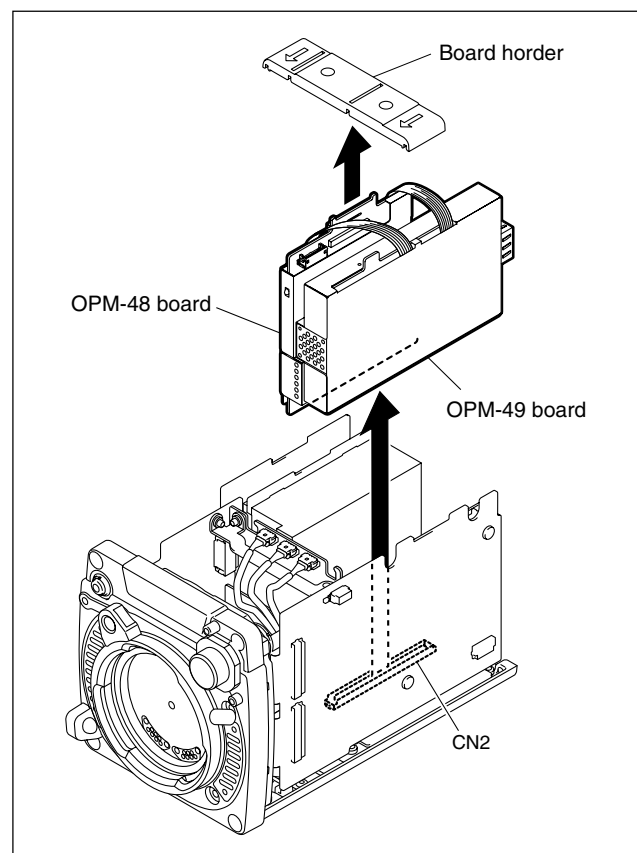
- When installing the filter knob removed in step 5, adjust its position. (Refer to Section 2-13.)
- Install the board holder taking care of its orientation and position.



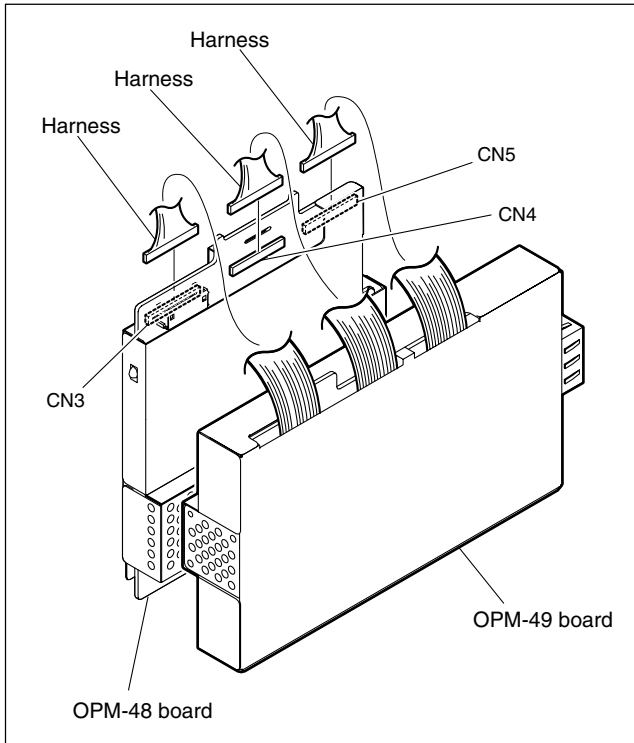
2-15. Replacing OPM-49 (HDC-X310/310K)

Removal

1. Remove the side panel (L) assembly, side panel (R) assembly, and top chassis assembly. (Refer to Section 2-3 steps 1 to 3.)
2. Remove the rear chassis assembly. (Refer to Section 2-12 step 4.)
3. Disconnect the connector CN2 on the DPR-253 board, and remove the board holder, OPM-48 board, and OPM-49 board.



4. Disconnect the connectors (CN3, CN4, CN5) on the OPM-48 board, and remove the OPM-49 board.



Installation

Install the removed parts by reversing steps 1 to 4 above.

2-16. Replacing Optical Module (HDC-X310/X310K)

Note

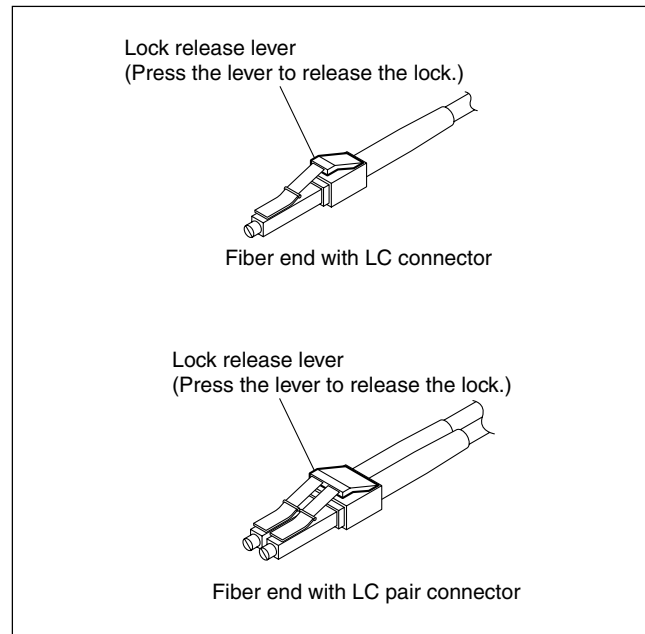
Confirm that the unit is powered off before replacing the optical module.

Removal

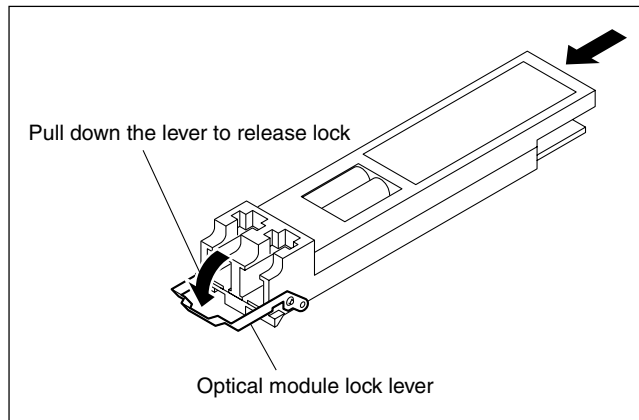
1. Pull the optical fiber off the optical module while pressing the lock release lever on the LC connector at the optical module/fiber coupling section.

Note

After removal of the fiber, keep it carefully so that its end surface is free from dust or dirt.



2. Pull down the lock lever on the optical module to the front side.



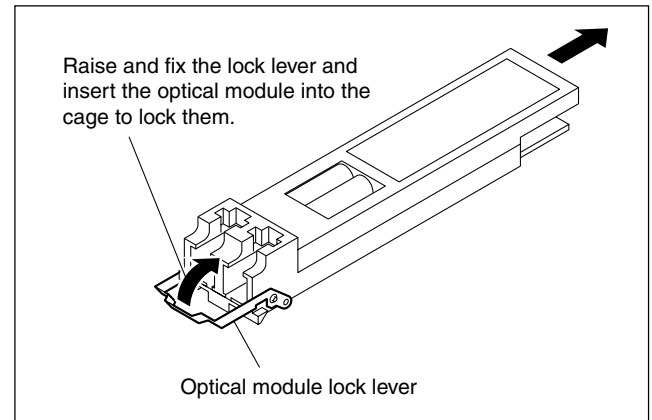
3. Pull out the optical module.

Note

If the optical module still cannot be removed, pull down the lock lever again to the front side, and then pull out the optical module. To keep the removed optical module, cover the connector coupling section with a rubber cap to prevent dust from entering.

Installation

4. Raise the lock lever on the optical module.



5. Hold the optical module and insert it into the cage until it clicks. Ensure that the optical module and the cage are locked.

Note

The locking is ensured when the optical module is not pulled off easily.

6. Clean the end surface of the removed fiber. (Refer to Section 2-7.) Then insert the LC connector of the optical fiber cable until the LC connector locks with a clicking sound.

Note

Check that the OFC connector marked with ## is connected to the connector with the same mark on the optical module.

Section 3

SERVICE Menu

3-1. Menu List

This section shows the items of the SERVICE menu. The following list shows the respective factory default settings. For details on the menus except the SERVICE menu, see OPERATION MANUAL.

F-SET: Indicates the factory default setting.
 ○: Indicates the item that returns to the factory default setting at power-on.

SERVICE menu

Page	Setup Item	F-SET	Power ON
MENU SET	DIRECT VALUE	OFF	—
	ABSOLUTE VALUE	OFF	—
	SERVICE RESET	—	—
	FACTORY PRESET	—	—
SP FUNC	ABB LEVEL ADJ.	OFF	—
	ABB TARGET LEVEL	3.0	—
	232C MODE SEL	CCnt	—
	RM CN FUNCTION	NORM	—
	USE IRIS F VAL	ON	—
WHT	SHADING CH SEL	R	○
SHADING	R/G/B WHITE H SAW	0	—
	R/G/B WHITE H PARA	0	—
	R/G/B WHITE V SAW	0	—
	R/G/B WHITE V PARA	0	—
	WHITE SAW/PARA	ON	○
BLACK	SHADING CH SEL	R	○
SHADING	R/G/B BLACK H SAW	0	—
	R/G/B BLACK H PARA	0	—
	R/G/B BLACK V SAW	0	—
	R/G/B BLACK V PARA	0	—
	BLACK SAW/PARA	ON	○
	MASTER BLACK	0	—
	MASTER GAIN	0 dB	—
ANALOG OUT ADJ	D/A REF	0	—
	R/Pr LEVEL	0	—
	B/Pb LEVEL	0	—
	CHARACTER MIX	BOTH	— *
VCO ADJUST	SCAN MODE	60I	—
	VCO FREQ. 60I	0	—
	VCO FREQ. 50I	0	—
	60I VCO SELECT	NORM	—

* : When the software of version 1.80 or before is installed: ○

HDC-X300

Page	Setup Item	F-SET	Power ON
CCD ADJUST	R VSUB	Factory adjusted value	—
	G VSUB	Factory adjusted value	—
	B VSUB	Factory adjusted value	—
	R GAIN	0	—
	G GAIN	0	—
	B GAIN	0	—
	R S/H DC	0	—
	G S/H DC	0	—
	B S/H DC	0	—
FLARE	R FLARE	0	—
	G FLARE	0	—
	B FLARE	0	—
	FLARE	ON	—
MEASURE	MEASUREMENT MODE	OFF	○
	MASTER BLACK	0	—
	MASTER GAIN	0 dB	—
FILTER CTEMP	FILTER CTEMP 1	3200	—
	FILTER CTEMP 2	3200	—
	FILTER CTEMP 3	3200	—
	FILTER CTEMP 4	3200	—
SHADING	AUTO WHT SHADING	—	—
	RESET WHT SHD	—	—
MANUAL RPN	RPN CH SELECT	R	—
	RPN CURSOR	OFF	○
	CURSOR H POS.	0	—
	CURSOR V POS.	0	—
	RECORD RPN	—	—
	DELETE RPN	—	—
	FIELD/FRAME	FIELD	○
MANUAL RPN (SLS)	RPN CH SELECT	R	—
	RPN CURSOR	OFF	○
	CURSOR H POS.	0	—
	CURSOR V POS.	0	—
	RECORD RPN	—	—
	DELETE RPN	—	—
HOURS METER	OPERATION (H)	—	—
	FAN (H)	—	—
	RESET OPR	—	—
	RESET FAN	—	—

Page	Setup Item	F-SET	Power ON
FILTER SERVO	MANUAL ADJUST	—	—
	ZERO SET	—	—
	AUTO ADJUST	—	—
	ZERO EDIT	0	—
	UNIT CONNECTION	—	—
	ANGLE (X10DEG)	—	—
	FILTER POS P/L	—	—
	(HKC-SV1 VERSION)	—	—
HIF INFO	OPTICAL MODULE	—	—
	OPM VERSION	—	—
	OVP VERSION	—	—
	SLOT1 BOARD	—	—
	VERSION	—	—
	SLOT2 BOARD	—	—
	VERSION	—	—

3-2. Menu Description

3-2-1. Menu Configuration

The menus of this camera are composed of the following items:

OPERATION menu

This menu contains items for changing settings according to conditions related to the subject when the camera is being operated. The reference value for white balance adjustment, the shutter mode, etc. are included.

PAINT menu

This menu contains items for making detailed image adjustments while using a waveform monitor to monitor the waveforms output from the camera. Support of a video engineer is usually required to use this menu. Although you can also use an external remote control panel or master setup unit to set the items on this menu, use of this menu is most effective when using the camera by itself outdoors.

MAINTENANCE menu

This menu contains basic items usually not changed after being set once.

FILE menu

This menu permits you to access several types of files for storing/retrieving the various setting data of the camera.

DIAGNOSIS menu

This menu enables you to confirm the camera's status or identify a failed circuit board.

SERVICE menu

Normally this menu is not displayed. To display this menu, refer to Section 3-2-3 "Displaying the SERVICE menu (Service Mode)".

3-2-2. Basic Operations on Menus

Displaying Menus

The menus can be displayed on a monitor connected with VIDEO OUT or HDS/SDI OUT connector.

Note

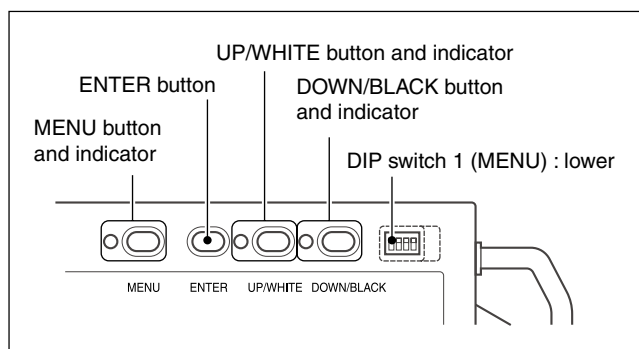
The menu display is sent to all video output lines.

Basic Operations on Menus

Menu operations are available only when DIP switch 1 (MENU) is set to its lower position.

By pressing the MENU button, the camera enters the Menu mode. The indicator at the left of the button lights up, and the menu is displayed on the monitor.

By pressing the MENU button again, the camera quits the Menu mode. The camera returns to the normal shooting mode.

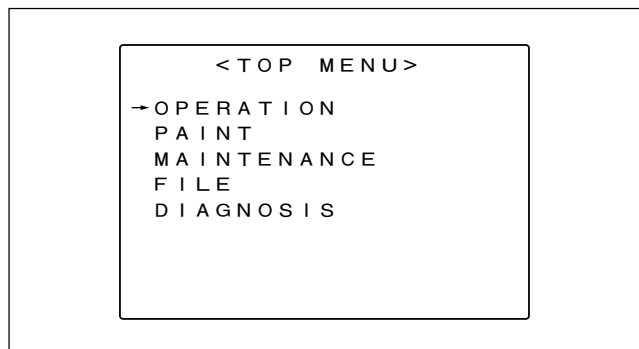


1. Press the MENU button.

The camera enters the Menu mode, and the indicator at the left of the button lights up.

Pressing the MENU button for the first time after power-on displays the TOP menu.

To display the SERVICE menu on the monitor, refer to Section 3-2-3.



Pressing the MENU button for the second or subsequent time, the previously displayed menu page appears.

2. Press the UP/WHITE button to point the arrow to the page number at the upper left corner of the screen, and press the ENTER button.

The arrow changes to a flashing question mark.

3. Press the UP/WHITE or DOWN/BLACK button until the desired page is displayed.

4. Press the ENTER button.

The question mark disappears, and the displayed page enters the Setting mode.

To quit Menu mode

Press the MENU button again.

The camera quits the Menu mode, and returns to the normal shooting mode.

Making a Setting on the Menu

Display the menu page on which you wish to make settings, then follow the procedure below:

1. Press the UP/WHITE or DOWN/BLACK button to move the arrow to the item to be set.
2. Press the ENTER button.
The arrow changes to a flashing question mark.
3. Press the UP/WHITE or DOWN/BLACK button to change the setting.
4. Press the ENTER button.
The question mark disappears, and your selection is registered.

Repeat steps 1 through 4 as required.

To specify a character string

When you press the ENTER button with the arrow pointing an item for which a character string, such as the camera ID or a file ID, is to be specified, a cursor and the list of selectable characters are displayed.

The displayed cursor can be moved using the UP/WHITE or DOWN/BLACK button.

1. Set the cursor to the position where you wish to enter a character, then press the ENTER button.
Another cursor appears on the character list.
2. Set the cursor to the character to be entered and press the ENTER button.
Repeat steps 1 and 2.
Selecting INS under the character list enters a space at the cursor position.
Selecting DEL deletes the character at the cursor position.
Selecting RET returns to step 1 without changing the character.
If you enter the permitted maximum number of characters (up to the stop mark at the right end of the line), the cursor moves to ESC on the line below the character list.
To register the new string you have set, select END and press the ENTER button.
To restore the previous string, select ESC and press the ENTER button.

3-2-3. Displaying the SERVICE Menu (Service Mode)

To display the SERVICE mode, set DIP switch 1 (MENU) from its upper position to the lower position while pressing the MENU button.

Then the camera enters the SERVICE mode to display the SERVICE menu.

3-2-4. Description of SERVICE Menu

MENU SET Page

S01 MENU SET	TOP
DIRECT VALUE	: OFF
ABSOLUTE VALUE	: OFF
SERVICE RESET	: EXEC
FACTORY PRESET	: EXEC

Item	Setting	Description
DIRECT VALUE	OFF/ON	ON: The set value is displayed as it is. OFF: The set value is displayed after conversion (in the range of –99 to +99.)
ABSOLUTE VALUE	OFF/ON	Turns ON/OFF the Absolute value mode. ON: The set value is displayed as it is. OFF: The set value is displayed after conversion (in the range of –99 to +99.)
SERVICE RESET	Press the MENU knob to execute this menu item.	Resets the data in the SERVICE hierarchy. Refer to “Data Structure” for details of the hierarchical structure.
FACTORY PRESET	Press the MENU knob to execute this menu item.	Returns all the settings to the factory default settings. (Excluding the black balance automatic adjustment value.)

SP FUNC Page

S02 SP FUNC	TOP
ABB LEVEL ADJ.	: OFF
ABB TARGET LEVEL	: 3.0
232C MODE SEL	: CCnt
RM CN FUNCTION	: NORM
USE IRIS F VAL	: ON

Item	Setting	Description
ABB LEVEL ADJ.	OFF/ON	Turns ON/OFF the function to automatically adjust the black level that is set by ABB TARGET LEVEL.
ABB TARGET LEVEL	0.0 to 10.0 (at 0.1 step)	Sets the target level of the black level that is obtained during automatic adjustment.
232C MODE SEL	NORM/LSI/BCS/ EVL/CCnt	Setting for use of the REMOTE connector in the RS232C mode NORM: For manufacturing/adjustment LSI: For manufacturing/adjustment BCS: For manufacturing/adjustment EVL: For manufacturing/adjustment CCnt: Normal setting
RM CN FUNCTION	NORM/TRUNC	Setting for use of the REMOTE connector in the RS232C mode NORM: Normal setting (A device connected to the REMOTE connector communicates with the camera microcomputer through the RS232C interface.) TRUNK: Setting for RS232C communication between a device connected to the REMOTE connector and a device connected to the multi-connector on HFU-X310 when HFU-X310 is connected
USE IRIS F VAL	ON/OFF	Auto-iris mode setting ON: Normal setting when using a lens OFF: Setting for use of a lens with no iris data return (Even if a lens with no iris data return is used, iris overshoot or hunting must not be generated.)

WHT SHADING Page

```

S03 WHT SHADING      TOP
SHADING CH SEL      :      R
R WHT H SAW         :      0
R WHT H PARA        :      0
R WHT V SAW         :      0
R WHT V PARA        :      0
WHITE SAW/PARA      :      ON
  
```

Note

When the range of setting is surrounded by parenthesis () in the setting column, the setup value is the relative value. The range of setting in parenthesis () can be different from what shown in the manual depending on the setting in the layer lower than this menu.

Item	Setting	Description
SHADING CH SEL	R/G/B	Selects the channel of shading correction.
R/G/B WHT H SAW	(-99 to +99)	Adjusts the H.SAW correction. The R, G and B displays are switched in accordance with the channel selection implemented by the above SHADING CH SEL.
R/G/B WHT H PARA	(-99 to +99)	Adjusts the H.PARA correction. The R, G and B displays are switched in accordance with the channel selection implemented by the above SHADING CH SEL.
R/G/B WHT V SAW	(-99 to +99)	Adjusts the V.SAW correction. The R, G and B displays are switched in accordance with the channel selection implemented by the above SHADING CH SEL.
R/G/B WHT V PARA	(-99 to +99)	Adjusts the V.PARA correction. The R, G and B displays are switched in accordance with the channel selection implemented by the above SHADING CH SEL.
WHITE SAW/PARA	OFF/ON	Turns ON/OFF all the white shading menu items of R/G/B, H/V and SAW/PARA corrections.

BLACK SHADING Page

```

S04 BLACK SHADING TOP
SHADING CH SEL : R
R BLACK H SAW : 0
R BLACK H PARA : 0
R BLACK V SAW : 0
R BLACK V PARA : 0

BLACK SAW/PARA : ON
MASTER BLACK : 0
MASTER GAIN (TMP) : 0 dB

```

Note

When the range of setting is surrounded by parenthesis () in the setting column, the setup value is the relative value. The range of setting in parenthesis () can be different from what shown in the manual depending on the setting in the layer lower than this menu.

Item	Setting	Description
SHADING CH SEL	R/G/B	Selects the channel of shading correction.
R/G/B BLACK H SAW	(-99 to +99)	Adjusts the H. SAW correction. The R, G, and B displays are switched in accordance with the channel selection implemented by the above SHADING CH SEL.
R/G/B BLACK H PARA	(-99 to +99)	Adjusts the H. PARA correction. The R, G, and B displays are switched in accordance with the channel selection implemented by the above SHADING CH SEL.
R/G/B BLACK V SAW	(-99 to +99)	Adjusts the V. SAW correction. The R, G, and B displays are switched in accordance with the channel selection implemented by the above SHADING CH SEL.
R/G/B BLACK V PARA	(-99 to +99)	Adjusts the V. PARA correction. The R, G, and B displays are switched in accordance with the channel selection implemented by the above SHADING CH SEL.
BLACK SAW/PARA	OFF/ON	Turns ON/OFF all the black shading menu items of R/G/B, H/V and SAW/PARA corrections.
MASTER BLACK	(-99 to +99)	Adjusts the master black level (All of the R, G and B master black levels are adjusted.)
MASTER GAIN (TMP)	-3/0/3/6/9/12/18/ 24/30/36/42/48 dB	Temporarily adjusts the master gain value.

ANALOG OUT ADJ Page

S05	ANALOG OUT ADJ	TOP
D/A REF	:	0
R/Pr LEVEL	:	0
B/Pb LEVEL	:	0
CHARACTER MIX	:	BOTH

Note

When the range of setting is surrounded by parenthesis () in the setting column, the setup value is the relative value. The range of setting in parenthesis () can be different from what shown in the manual depending on the setting in the layer lower than this menu.

Item	Setting	Description
D/A REF	(-99 to +99)	Adjusts the D/A converter reference level.
R/Pr LEVEL	(-99 to +99)	Adjusts the R/Pr output level.
B/Pr LEVEL	(-99 to +99)	Adjusts the B/Pb output level.
CHARACTER MIX	BOTH/ANA/DIG	Select a character mixing. Both: Characters (such as menus) are mixed to both the analog and digital outputs. (For normal adjustment) ANA: Characters (such as menus) are mixed to the analog output only. DIG: Characters (such as menus) are mixed to the digital output only. Note Be careful when changing a setting. If the character mix for the current output is set to OFF, the menu operations will be disabled.

VCO ADJUST Page

```

S06 VCO ADJUST      TOP
SCAN MODE           : 60I

VCO FREQ. 60I      :
VCO FREQ. 50I      :
60I VCO SELECT      : NORM
  
```

Note

When the range of setting is surrounded by parenthesis () in the setting column, the setup value is the relative value. The range of setting in parenthesis () can be different from what shown in the manual depending on the setting in the layer lower than this menu.

Item	Setting	Description
SCAN MODE	60I/50I/30PsF/ 25PsF/24PsF	Selects a CCD scan mode. I: Interlaced scan mode PsF: Progressive scan mode
VCO FREQ. 60I	(-99 to +99)	Adjusts the VCO frequency for 60I (59.94I)/30PsF (29.97PsF)/ 24PsF (23.98PsF). Note Set the above SCAN MODE to 60I (or 30PsF).
VCO FREQ. 50I	(-99 to +99)	Adjusts the VCO frequency for 50I/25PsF. Note Set the above SCAN MODE to 50I (or 25PsF).
60I VCO SELECT	NORM/60.00	Normally select "NORM". Select "60.00" only when 60.00I/ 30.00PsF/24.00PsF is selected for 60I/30PsF/24PsF instead of 59.94I/29.97PsF/23.98PsF.

CCD ADJUST Page

S07 CCD ADJUST			TOP
R	VSUB	:	16
G	VSUB	:	16
B	VSUB	:	16
R	GAIN	:	0
G	GAIN	:	0
B	GAIN	:	0
R	S/H DC	:	0
G	S/H DC	:	0
B	S/H DC	:	0

Note

When the range of setting is surrounded by parenthesis () in the setting column, the setup value is the relative value. The range of setting in parenthesis () can be different from what shown in the manual depending on the setting in the layer lower than this menu.

Item	Setting	Description
R VSUB	9.0 V to 18.0 V	Sets the V. substrate voltage of the R-channel.
G VSUB	9.0 V to 18.0 V	Sets the V. substrate voltage of the G-channel.
B VSUB	9.0 V to 18.0 V	Sets the V. substrate voltage of the B-channel.
R GAIN	(-99 to +99)	Sets the gain of the R-channel.
G GAIN	(-99 to +99)	Sets the gain of the G-channel.
B GAIN	(-99 to +99)	Sets the gain of the B-channel.
R S/H DC	(-99 to +99)	Adjusts the compensation point level of the R-channel. Adjusts to the peripheral black level.
G S/H DC	(-99 to +99)	Adjusts the compensation point level of the G-channel. Adjusts to the peripheral black level.
B S/H DC	(-99 to +99)	Adjusts the compensation point level of the B-channel. Adjusts to the peripheral black level.

FLARE Page

```
S08 FLARE TOP
R FLARE : 0
G FLARE : 0
B FLARE : 0
FLARE : ON
```

Note

When the range of setting is surrounded by parenthesis () in the setting column, the setup value is the relative value. The range of setting in parenthesis () can be different from what shown in the manual depending on the setting in the layer lower than this menu.

Item	Setting	Description
R FLARE	(-99 to +99)	Adjusts the R flare compensation level.
G FLARE	(-99 to +99)	Adjusts the G flare compensation level.
B FLARE	(-99 to +99)	Adjusts the B flare compensation level.
FLARE	OFF/ON	Turns ON/OFF the flare compensation function.

MEASURE Page

```
S09 MEASURE TOP
MEASUREMENT MODE : OFF
MASTER BLACK : 0
MASTER GAIN (TMP) : 0
```

Note

When the range of setting is surrounded by parenthesis () in the setting column, the setup value is the relative value. The range of setting in parenthesis () can be different from what shown in the manual depending on the setting in the layer lower than this menu.

Item	Setting	Description
MEASUREMENT MODE	OFF/S/N/MODU/ RESO/SENS/REGI	Selects the measurement mode. S/N: S/N ratio measurement mode MODU: Modulation degree measurement mode RESO: Resolution power measurement mode SENS: Sensitivity measurement mode REGI: Registration measurement mode
MASTER BLACK	(-99 to +99)	Adjusts the master black level. (All of the R, G and B signal black levels are adjusted.)
MASTER GAIN (TMP)	-3/0/3/6/9/12/18/24/ 30/36/42/48	Sets the tentative gain value.

FILTER CTEMP Page

S10	FILTER CTEMP	TOP
FILTER CTEMP 1	:	3200
FILTER CTEMP 2	:	3200
FILTER CTEMP 3	:	3200
FILTER CTEMP 4	:	3200

Item	Setting	Description
FILTER CTEMP 1	2000 to 10000 (100/1STEP)	Sets the color temperature of filter 1.
FILTER CTEMP 2	2000 to 10000 (100/1STEP)	Sets the color temperature of filter 2.
FILTER CTEMP 3	2000 to 10000 (100/1STEP)	Sets the color temperature of filter 3.
FILTER CTEMP 4	2000 to 10000 (100/1STEP)	Sets the color temperature of filter 4.

SHADING Page

S11	SHADING	TOP
AUTO WHT SHADING :		EXEC
RESET WHT SHD :		EXEC

Item	Setting	Description
AUTO WHT SHADING	Press the MENU knob to execute this menu item.	Starts to the auto white shading adjustment.
RESET WHT SHD	Press the MENU knob to execute this menu item.	Returns the white shading value to the factory default value. (SAW/PARA or 3D)

MANUAL RPN Page

For RPN adjustment procedure using this page, refer to Section 4-2-7.

(Manual RPN adjustment)

S12	MANUAL RPN	TOP
RPN CH SELECT	:	R
RPN CURSOR	:	OFF
TEST OUT MENU	:	OFF
CURSOR H POS.	:	0
CURSOR V POS.	:	0
RECORD RPN	:	EXEC
DELETE RPN	:	EXEC
FIELD/FRAME	:	FIELD

(Manual RPN adjustment in SLS mode)

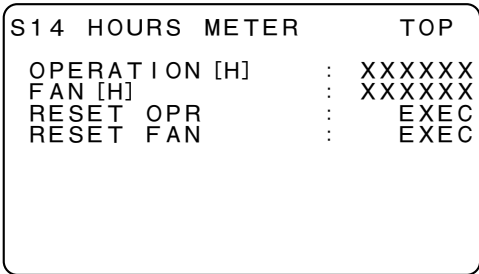
S13	MANUAL RPN (SLS)	TOP
RPN CH SELECT	:	R
RPN CURSOR	:	OFF
TEST OUT MENU	:	OFF
CURSOR H POS.	:	0
CURSOR V POS.	:	0
RECORD RPN	:	EXEC
DELETE RPN	:	EXEC

Item	Setting	Description
RPN CH SELECT	R/G/B	Selects a channel for RPN adjustment.
RPN CURSOR	OFF/ON	Controls ON/OFF of the RPN cursor.
CURSOR H POS.	0 to 980	Sets position of the RPN cursor (horizontal).
CURSOR V POS.	0 to 576	Sets position of the RPN cursor (vertical).
RECORD RPN	Press the MENU knob to execute this menu item	Registers the RPN data of the present cursor position.
DELETE RPN	Press the MENU knob to execute this menu item	Deletes the RPN data of the present cursor position.
FIELD/FRAME	FIELD/FRAME	Setting the CCD readout mode. (Only for the S12 MANUAL RPN page) FIELD: Field readout (normal readout) FRAME: Frame readout (Use when you want to get higher vertical scan frequency.) Note When the Super EVS mode is ON, the FIELD is selected forcibly.

HOURS METER Page

Note

The information can also be displayed on the HOURS METER page in the DIAGNOSIS menu. (Not resettable)



Item	Setting	Description
OPERATION [H]	Display only	OPERATION (power-on time display) mode. Displays accumulated power-on time in hours.
FAN [H]	Display only	FAN (fan operating time display) mode. Displays accumulated fan operating time in hours.
RESET OPR	Press the MENU knob to display this item.	Resets the OPERATION (power-on time display) mode. For resetting, refer to Section 2-8-2.
RESET FAN	Press the MENU knob to display this item.	Resets the FAN (fan operating time display) mode. For resetting, refer to Section 2-8-2.

FILTER SERVO Page

Note

For the FILTER SERVO UNIT adjustment procedure using this page, refer to the HKC-SV1 Installation Manual.

```
S15 FILTER SERVO      TOP
MANUAL ADJUST  :    u p / d w
ZERO SET      :    EXEC
AUTO ADJUST   :    EXEC
ZERO EDIT     :    0

UNIT CONNECTION : XXXXXX
ANGLE (X10DEG  : XXXXXX
FILTER POS P/L : XXXXXX
(HKC-SV1 VERSION) : XXXXXX
```

Item	Setting	Description
MANUAL ADJUST	(up/dw)	When this is selected and the UP/WHITE or DOWN/BLACK button is pressed, the filter disk rotates slowly (only when HKC-SV1 is connected).
ZERO SET	Press ENTER button to execute	Registers filter disk stop position (only when HKC-SV1 is connected).
AUTO ADJUST	Press ENTER button to execute	Starts automatic adjustment of filter disk stop position (only when HKC-SV1 is connected).
ZERO EDIT	0 to 1023	Fine-adjusts registered filter disk stop position (only when HKC-SV1 is connected).
UNIT CONNECTION	Display only	Indicates status of communication with the FILTER SERVO UNIT (only when HKC-SV1 is connected).
ANGLE (X10DEG)	Display only	Indicates current filter disk angle (only when HKC-SV1 is connected).
FILTER POS P/L	Display only	Indicates filter position. P: Current position L: Position specified by the remote controller
(HKC-SV1 Software version)	Display only	Indicates FILTER SERVO UNIT software version (only when HKC-SV1 is connected).

HIF INFO Page

```
S16 HIF INFO      TOP
OPTICAL MODULE   : XXXXXX
OPM VERSION      : XXXXXX
OVP VERSION      : XXXXXX
SLOT1 BOARD      : XXXXXX
VERSION          : XXXXXX
SLOT2 BOARD      : XXXXXX
VERSION          : XXXXXX
```

Item	Setting	Description
OPTICAL MODULE	Display only	Indicates optical module status of HDC-X310/X310K.
OPM VERSION	Display only	Indicates version of the FPGA on the OPM board of HDC-X310/X310K.
OVP VERSION	Display only	Indicates version of the FPGA on the OVP board of HFU-X310 when HFU-X310 is connected.
SLOT1 BOARD VERSION	Display only	Indicates type and version of the option board inserted in HFU-X310 when HFU-X310 is connected.
SLOT2 BOARD VERSION	Display only	Indicates type and version of the option board inserted in HFU-X310 when HFU-X310 is connected.

Section 4

Electrical Alignment

4-1. General Information for Electrical Alignment

For the adjustment items after replacement of each board, refer to Section 2-9-1.

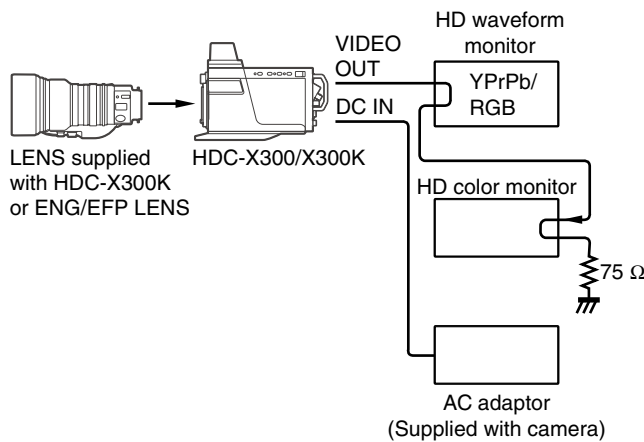
The Service mode is used for electrical alignment. For details, refer to Section 3-2 “Menu Description”.

To display the SERVICE menu, refer to Section 3-2-3 “Displaying the SERVICE Menu (Service Mode)”.

Notes

- Be sure to turn off the power before extending the plug-in board using the extension board.
- Before starting adjustment, set the main POWER switch to ON and then warm up the Camcorder for about 10 minutes.

4-1-1. Connection



4-1-2. Required Equipment/Fixtures

- HD analog waveform monitor:
Tektronix 1735HD or equivalent
- HD color monitor: Sony HDM-20E1U/14E1U/14E5U or equivalent
- Frequency counter: Advantest TR6845 or equivalent
- Gray scale chart (16:9)
Transparent type: J-6394-080-A
Reflective type: Commercially available (Refer to Section 4-1-4)

4-1-3. Initial Setting

Before performing adjustment, set switches and menus as follows.

Side panel

DIP switch:

- Switch 1 (MENU) → OFF (lower)
- Switch 2 (VD/SYNC) → OFF (lower)
- Switch 3 (SYNC ON G) → OFF (lower)
- Switch 4 (RGB/YPrPb) → OFF (lower)

Front panel

ND Filter knob → 1

Lens (HDC-X300K only)

LENS → MANU

IRIS → C (CLOSE)

MENU: OPERATION
PAGE: Page 1 FUNCTION 1
ITEM: OUTPUT → CAM
ITEM: MASTER GAIN → 0 dB

MENU: OPERATION
PAGE: Page 2 FUNCTION 2
ITEM: SCAN MODE → 60I

MENU: PAINT
PAGE: Page 1 SW STATUS
ITEM: GAMMA → ON
ITEM: MATRIX → ON
ITEM: KNEE → ON
ITEM: WHITE CUP → ON
ITEM: DETAIL → ON
ITEM: APERTURE → ON
ITEM: FLARE → ON
ITEM: TEST SAW → OFF

MENU: MAINTENANCE
PAGE: Page 7 GENLOCK
ITEM: SOURCE → HD

4-1-4. Maintaining the Grayscale Chart

For the preset white adjustment, using an 89.9 %-reflective grayscale chart is preferable.

If a reflective chart is not available, use a well-maintained pattern box and a transparent grayscale chart for adjustment.

Before beginning adjustment, set the illumination of the light source (or the luminous intensity on the chart surface) properly proceeding as follows and set the color temperature to 3200 K exactly by adjusting light.

Information on the reflective grayscale chart

Recommended chart

The reflective grayscale chart is commercially available.

Recommended chart: Reflective grayscale chart 4 : 3
MURAKAMI COLOR RESEARCH LABORATORY GS-3
or equivalent
Reflective grayscale chart 16 : 9
MURAKAMI COLOR RESEARCH LABORATORY GS-HD M
or equivalent

Supplier: MURAKAMI COLOR RESEARCH LABORATORY
Address: 3-11-3, Kachidoki, Chuo-ku, Tokyo, JAPAN
Postcode 104-0054
Phone: 81-3-3532-3011
Fax: 81-3-3532-2056

Handling precautions

- Do not touch the chart's surface.
- Do not subject the surface to dirt, scratches or prolonged exposure to sunlight.
- Protect the chart from excess moisture and harmful gas.
- Avoid resting articles against the case.
- Open the case and dry the chart more an hour for a month in no use long period.

Replacement period when the chart is used as the reference

The reflective grayscale chart should be replaced every two years if it used as the reference. Because the chart deteriorates with time and proper adjustment cannot be achieved.

Replacement period varies according to storage conditions of the chart.

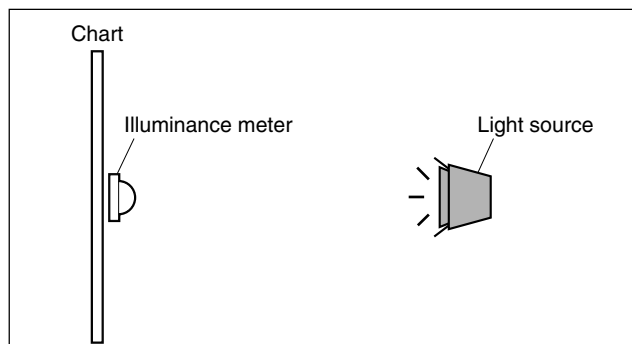
Setting illumination (when the reflective chart is used)

Equipment: Illuminance meter (Calibrated)

1. Turn on the light source and warm up for about 30 minutes.
2. Place the illuminance meter on the chart surface.
Adjust the position and angle of the light source so that the whole surface of the chart is evenly 2000 lx.

Note

Light the chart from almost the same direction and height as the camera to shoot the chart.



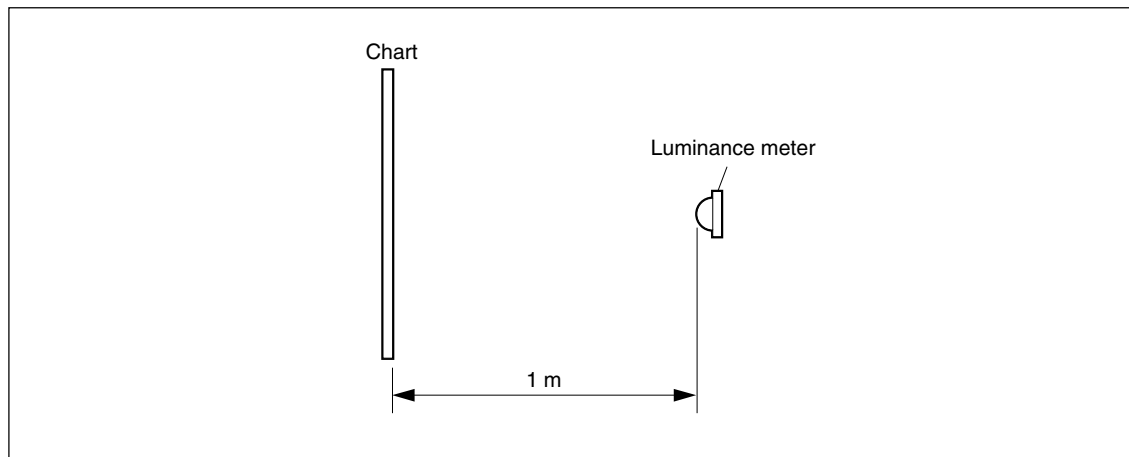
Setting luminous intensity (when the transparent chart is used)

Equipment: Luminance meter (Minolta LS-110 or equivalent. Calibrated.)

1. Light the pattern box and warm up for about 30 minutes.
2. Place the pattern box where the chart is not exposed to light, such as a darkroom.
(Or cover the pattern box with a cover whose inside is painted in black.)
3. Place the luminance meter facing straight to the chart at a distance of 1 m from it.
4. Adjust the luminance control of the pattern box so that the white portion in the center of the chart is $573 \pm 6 \text{ cd/m}^2$.

Note

This corresponds to the luminous intensity on the 89.9 %-reflective chart at 2000 lx.



4-2. Video System Adjustment

4-2-1. VCO Frequency Adjustment

Before starting adjustment, be sure to take necessary steps referring to “General Information for Electrical Alignment”.

Notes

- Conduct this check only when the CCD block or TG-240 board is replaced.
- Before adjustment, turn the power ON and warm up the Camcorder for about 10 minutes.

Fixtures and Equipment

- Frequency counter

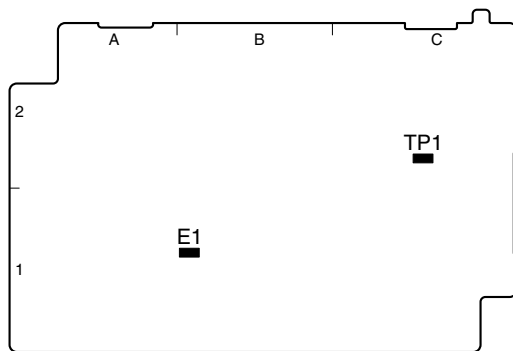
Preparation

On the menu, set as follows.

MENU: SERVICE
PAGE: Page 6 VCO ADJUST
ITEM: VCO FREQ

Adjustment Procedure

1. On page 2 FUNCTION 2 of the OPERATION menu, check that SCAN MODE is set to 60I.
Then adjust the frequency to Spec A using VCO FREQ. 60I.
Measuring point: TP1 (GND E1)
Spec: $A = 55.631868 \text{ MHz} \pm 100 \text{ Hz}$
2. Change the SCAN MODE setting to 50I.
Then adjust the frequency to Spec B using VCO FREQ. 50I.
Measuring point: TP1 (GND E1)
Spec: $B = 55.68750 \text{ MHz} \pm 100 \text{ Hz}$
3. Return the SCAN MODE setting to 60I.



TG-240 board (B side)

4-2-2. Analog Output Level Adjustment

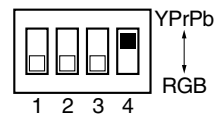
Before starting adjustment, be sure to take necessary steps referring to “General Information for Electrical Alignment”.

Fixtures and Equipment

- HD analog waveform monitor

Preparation

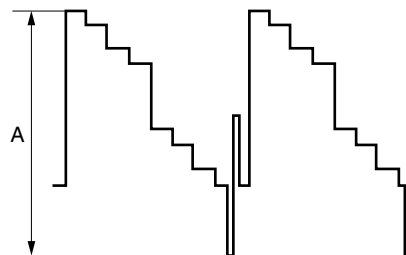
- Connect the HD analog waveform monitor to the VIDEO OUT connector.
- Waveform monitor setting
YPrPb mode
VOLT FULL SCALE range $\rightarrow 0.5$
- Set DIP switch 4 on the side panel as shown in the figure.
RGB/YPrPb switch: ON (upper)



- On the menu, set as follows.
MENU: OPERATION
PAGE: Page 1 FUNCTION 1
ITEM: OUTPUT $\rightarrow$ BARS

Adjustment Procedure

1. D/A REF Adjustment
(1) On the menu, set as follows.
MENU: SERVICE
PAGE: Page 5 ANALOG OUT ADJ
ITEM: D/A REF $\rightarrow 1 \text{ V p-p}$
Spec: $A = 1.0 \pm 10 \text{ mV p-p}$



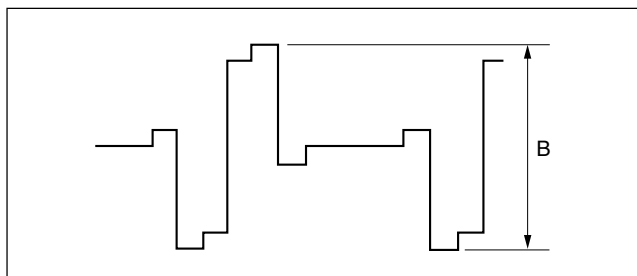
2. R/Pr LEVEL Adjustment

Note

Perform “1. D/A REF Adjustment” before this adjustment.

- (1) On the menu, set as follows.

MENU: SERVICE
PAGE: Page 5 ANALOG OUT ADJ
ITEM: P/Pr LEVEL → 700 mV p-p
Spec: $B = 700 \pm 10$ mV p-p



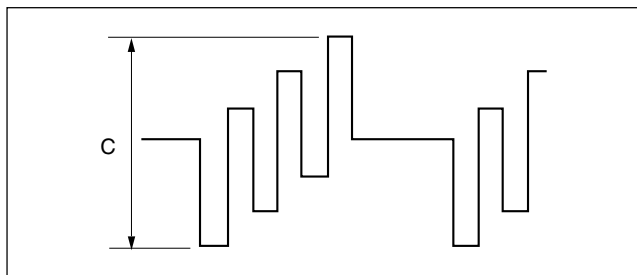
3. B/Pb LEVEL Adjustment

Note

Perform “1. D/A REF Adjustment” before this adjustment.

- (1) On the menu, set as follows.

MENU: SERVICE
PAGE: Page 5 ANALOG OUT ADJ
ITEM: B/Pb LEVEL → 700 mV p-p
Spec: $C = 700 \pm 10$ mV p-p



4-2-3. Preset White Adjustment

Before starting adjustment, be sure to take necessary steps referring to “General Information for Electrical Alignment”.

Notes

- Use an 89.9%-reflective chart in this adjustment as much as possible. For details, refer to Section 4-1 “General Information for Electrical Alignment”.
- If the “16 : 9” chart is unavailable, shoot a “4 : 3” chart so that the chart width is aligned with the underscanned monitor frame.

Fixtures and Equipment

- HD analog waveform monitor
- Grayscale chart

Preparation

- Connect the HD analog waveform monitor to the VIDEO OUT connector.
- Waveform monitor setting
RGB mode
VOLT FULL SCALE range → 0.5
- On the menu, set as follows.
MENU: OPERATION
PAGE: Page 1 FUNCTION 1
ITEM: WHITE BAL → PRE
- Shoot a fully occupied grayscale chart in the under-scanned monitor frame.

Adjustment Procedure

1. COLOR TEMP Fine Adjustment

- (1) On the menu, set as follows.

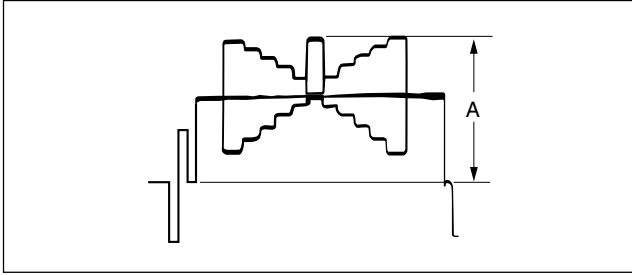
MENU: PAINT
PAGE: Page 1 SW STATUS
ITEM: GAMMA → OFF
ITEM: MATRIX → OFF
ITEM: KNEE → OFF
ITEM: WHITE CLIP → OFF
PAGE: Page 2 WHITE
ITEM: COLOR TEMP <A> → 3200
ITEM: COLOR FINE <A> → 0
ITEM: R GAIN <A> → 0
ITEM: B GAIN <A> → 0

2. Adjust auto-black balance

(Set the menu to OFF using the MENU button on the side panel, and press the DOWN/BLACK button.)

3. Adjust G-level A to the specification using the lens iris.

Spec: $A = 700 \pm 10 \text{ mV}$



4. R and B Gain Adjustments

(1) On the menu, set as follows.

MENU: SERVICE

PAGE: Page 7

ITEM: R GAIN $\rightarrow 700 \text{ mV}$

ITEM: B GAIN $\rightarrow 700 \text{ mV}$

Spec: $A = 700 \pm 10 \text{ mV}$

5. Return the PAINT menu to the following settings.

MENU: PAINT

PAGE: Page 1 SW STATUS

ITEM: GAMMA $\rightarrow \text{ON}$

ITEM: MATRIX $\rightarrow \text{ON}$

ITEM: KNEE $\rightarrow \text{ON}$

ITEM: WHITE CLIP $\rightarrow \text{ON}$

4-2-4. Black Shading Adjustment

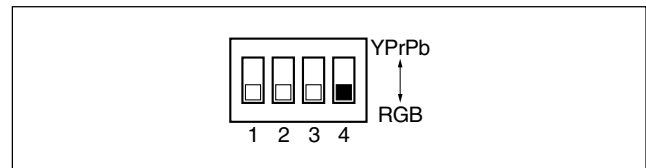
Before starting adjustment, be sure to take necessary steps referring to “General Information for Electrical Alignment”.

Fixtures and Equipment

- HD analog waveform monitor

Preparation (Manual black shading adjustment)

- Connect the HD analog waveform monitor to the VIDEO OUT connector.
- HD waveform monitor setting
RGB mode
VOLT FULL SCALE range $\rightarrow 0.5$
- Lens IRIS $\rightarrow \text{CLOSE}$
- Set DIP switch 4 on the side panel as follows.
RGB/YPrPb switch: OFF (lower)



Adjustment Procedure

1. Auto black shading adjustment

(1) On the menu, set as follows.

MENU: MAINTENANCE

PAGE: Page 8 AUTO SHADING

ITEM: AUTO BLK SHADING $\rightarrow \text{EXEC}$

(2) When adjustment ends successfully, the message “COMPLETE” appears.

Note

The auto adjustment takes about 30 seconds.

2. Manual black shading adjustment

When finer adjustment or manual adjustment is required, proceed as follows.

(1) On the menu, set as follows.

MENU: SERVICE

PAGE: Page 4 BLACK SHADING

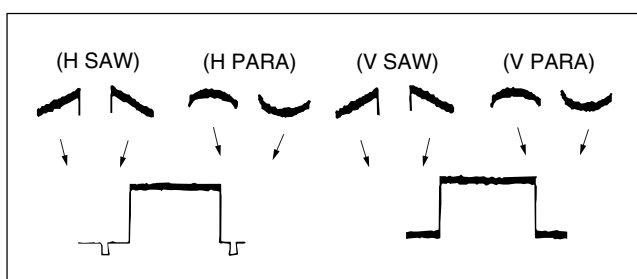
ITEM: BLK SHAD CH SEL $\rightarrow \text{G}$ (Adjustment channel)

- (2) On the menu, perform the G-channel adjustment as follows.

MENU: SERVICE
 PAGE: Page 4 BLACK SHADING
 ITEM: G BLK H SAW
 ITEM: G BLK V SAW
 ITEM: G BLK H PARA
 ITEM: G BLK V PARA
 Spec: Make the waveform flat.

Note

Before the adjustment, set MASTER BLACK and MASTER GAIN so that their waveforms can be observed easily.



- (3) On the menu, set as follows.
 MENU: SERVICE
 PAGE: Page 4 BLACK SHADING
 ITEM: SHADING CH SEL → R (Adjustment channel)
- (4) Adjust the R-channel in the same procedure as the G-channel adjustment.
- (5) On the menu, set as follows.
 MENU: SERVICE
 PAGE: Page 4 BLACK SHADING
 ITEM: SHADING CH SEL → B (Adjustment channel)
- (6) Adjust the B-channel in the same procedure as the G-channel adjustment.

4-2-5. White Shading Adjustment

Before starting adjustment, be sure to take necessary steps referring to “General Information for Electrical Alignment”.

Notes

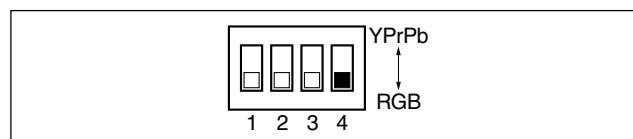
- Perform the adjustment manually.
 Do not perform Page 11 AUTO WHT SHADING of the SERVICE menu.
- This adjustment could not be correctly performed if the uneven white pattern is used, luminance is not correct, or lens iris and lens zoom are not in good conditions.
 Use a full white pattern with a uniform luminous intensity for the adjustment.
 If such pattern cannot be prepared, adjust R and B so that their waveforms match the waveform of G, instead of adjusting G.

Fixtures and Equipment

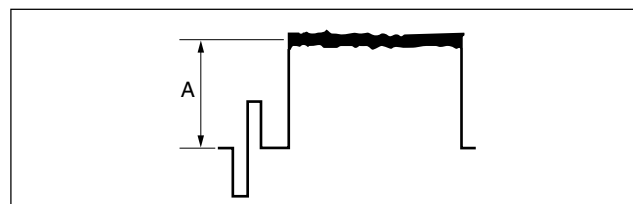
- HD analog waveform monitor
- Full white pattern

Preparation

- Connect the HD analog waveform monitor to the VIDEO OUT connector.
- HD waveform monitor setting
 RGB mode
 VOLT FULL SCALE range → 0.5
- Set DIP switch 4 on the side panel as follows.
 RGB/YPrPb switch: OFF (lower)



- Shoot a fully occupied full white pattern in the under-scanned monitor frame.
- Iris of the lens: $A = 600 \pm 20 \text{ mV}$ (at F4 to F5.6)
 (If a lens aperture is greater than F5.6, adjust the light amounts with shutter.)



- Lens Focus: ∞
- Lens Extender/Shrinker: $\times 2, \times 0.8 \rightarrow \text{OFF}$

Adjustment Procedure

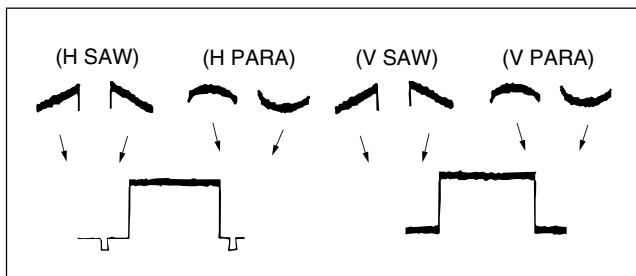
1. Manual white shading adjustment

- (1) On the menu, set as follows.

MENU: SERVICE
PAGE: Page 3 WHT SHADING
ITEM: WHT SHAD CH SEL → G (Adjustment channel)

- (2) On the menu, perform the G-channel adjustment as follows.

MENU: SERVICE
PAGE: Page 3 WHT SHADING
ITEM: G WHT H SAW
ITEM: G WHT V SAW
ITEM: G WHT H PARA
ITEM: G WHT V PARA
Spec: Make the waveform flat.



- (3) On the menu, set as follows.

MENU: SERVICE
PAGE: Page 3 WHT SHADING
ITEM: WHT SHAD CH SEL → R (Adjustment channel)

- (4) Adjust the R-channel in the same procedure as the G-channel adjustment.

- (5) On the menu, set as follows.

MENU: SERVICE
PAGE: Page 3 WHT SHADING
ITEM: WHT SHAD CH SEL → B (Adjustment channel)

- (6) Adjust the B-channel in the same procedure as the G-channel adjustment.

4-2-6. Flare Adjustment

Before starting adjustment, be sure to take necessary steps referring to “General Information for Electrical Alignment”.

Fixtures and Equipment

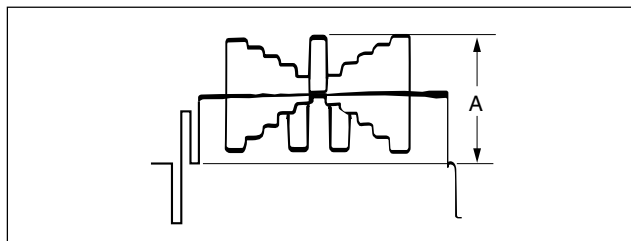
- HD analog waveform monitor
- Grayscale chart (16 : 9)

Preparation

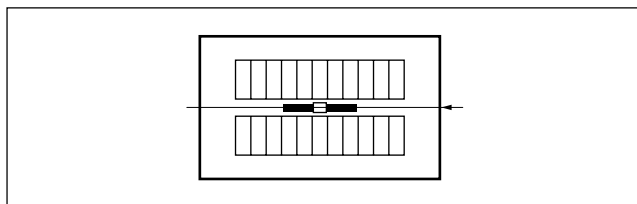
- Connect an HD analog waveform monitor to the VIDEO OUT connector.
Set the monitor to the RGB mode.
- Set the DIP switch on the side panel as follows.
RGB/YPrPb switch: OFF (lower)
- Shoot a grayscale chart (16 : 9) in the full underscanned monitor frame.

Adjustment Procedure

1. Perform the Auto Black Balance Adjustment.
(Set the menu to OFF using the MENU button on the side panel, and press the DOWN/BLACK button.)
2. On the menu, set as follows.
MENU: PAINT
PAGE: Page 1 SW STATUS
ITEM: KNEE → OFF
3. Perform the Auto White Balance Adjustment.
(Set the menu to OFF using the MENU button on the side panel, and press the UP/WHITE button.)
4. Lens IRIS: Open the lens iris by two steps from the reference setting A.
 $A = 700 \pm 20 \text{ mV}$



5. Select center portion by using the waveform monitor.
Check the black levels at both sides of the white part at the center.



6. On the menu, operate/check as follows.

MENU: SERVICE

PAGE: Page 8 FLARE

ITEM: R FLARE

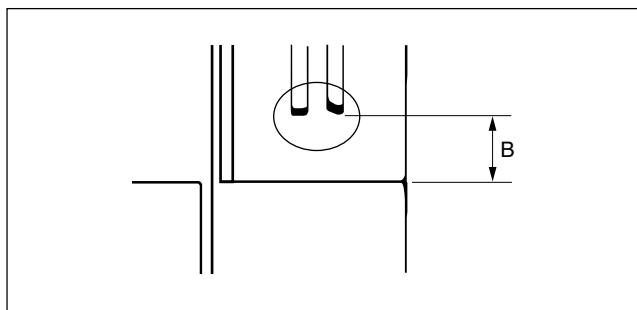
ITEM: G FLARE

ITEM: B FLARE

Adjust channels so that their black levels become equal to the channel with the lowest B level.

Note

Do not change FLARE of the channel with the lowest level.



4-2-7. RPN Adjustment

Before starting adjustment, be sure to take necessary steps referring to “General Information for Electrical Alignment”.

Notes

- RPN (Residual Point Noise) of CCD is usually corrected automatically (APR) during Auto Black Balance Adjustment (ABB). When there exists RPN that is not corrected by APR, perform this adjustment.
- This adjustment is performed on the MANUAL RPN screen or the MANUAL RPN (SLS) page in the SERVICE menu.
Adjustment is performed using the MANUAL RPN page usually, but perform the RPN adjustment using the MANUAL RPN (SLS) page for the RPN that appears only in slow shutter mode. Procedure is the same as that when using the MANUAL RPN page.

Fixtures and Equipment

- HD color monitor

Preparation

- Connect an HD color monitor to the VIDEO OUT connector.
- This is the setting for the RPN adjustment that appears only in slow shutter mode.
SHUTTER switch (Front panel) → SLS: 2 FRAME or more
- On the menu, set as follows.
MENU: SERVICE

PAGE: MANUAL RPN (Standard adjustment)
or
PAGE: MANUAL RPN (SLS) (For the RPN adjustment that appears only in slow shutter mode.)

Adjustment Procedure

Note

The points that are adjacent to the already RPN-corrected point in the horizontal, vertical and oblique directions cannot be corrected.

1. Perform the Auto Black Balance Adjustment.
(Set the menu to OFF using the MENU button on the side panel, and press the DOWN/BLACK button.)
2. Choose the channel (R, G or B) to be corrected.
ITEM: RPN CH SELECT → R, G, B
3. Adjust the values of H and V. Then move the center of the cross cursor to RPN.
ITEM: RPN CURSOR → ON
ITEM: CURSOR H POS.
ITEM: CURSOR V POS.
4. Perform RECORD RPN and save the RPN data (corrected value).
ITEM: RECORD RPN → EXEC

Note

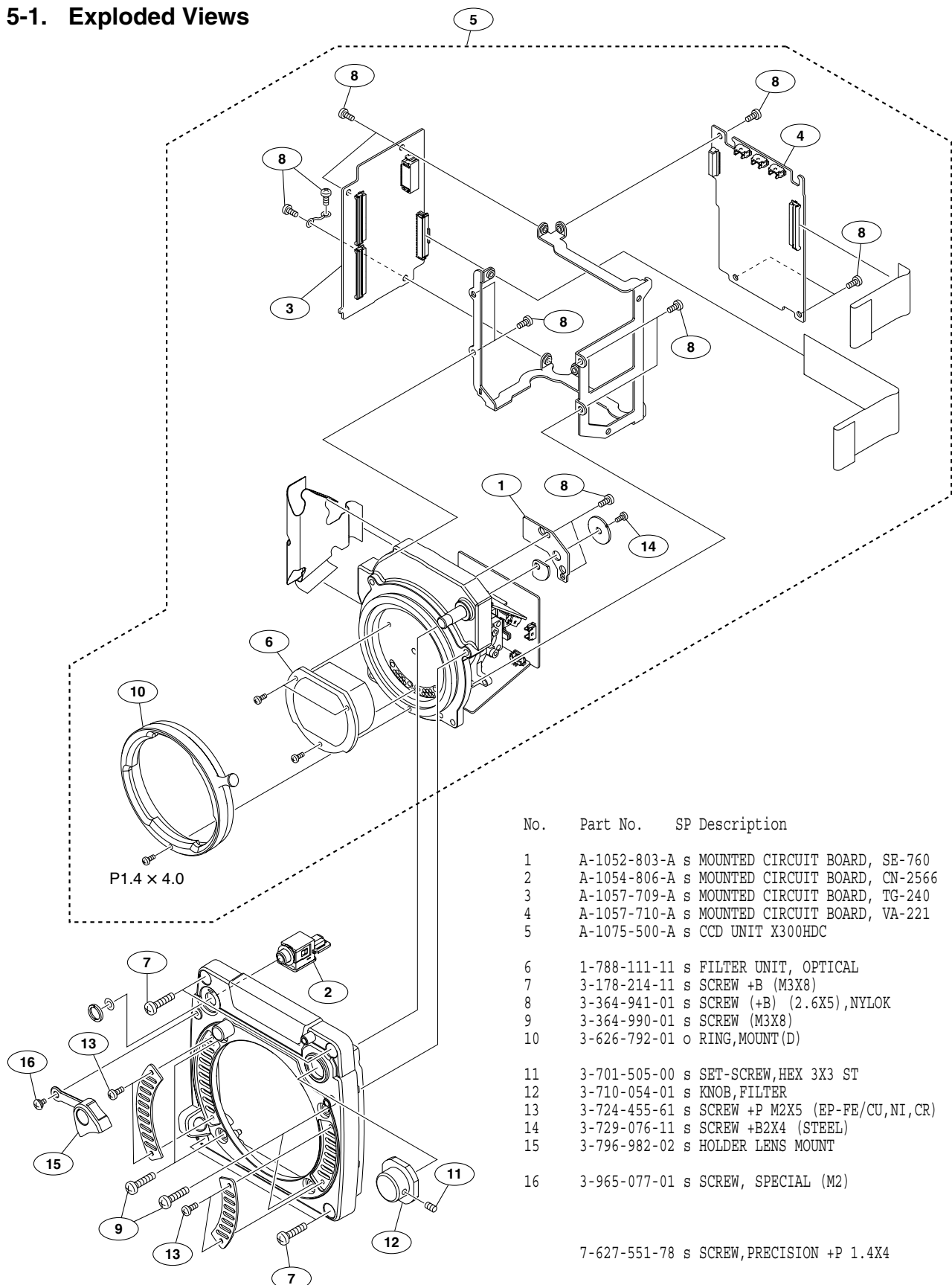
To cancel the RPN correction after the correction is completed, perform the Cancel without moving the position of the cross cursor.

ITEM: DELETE RPN → EXEC

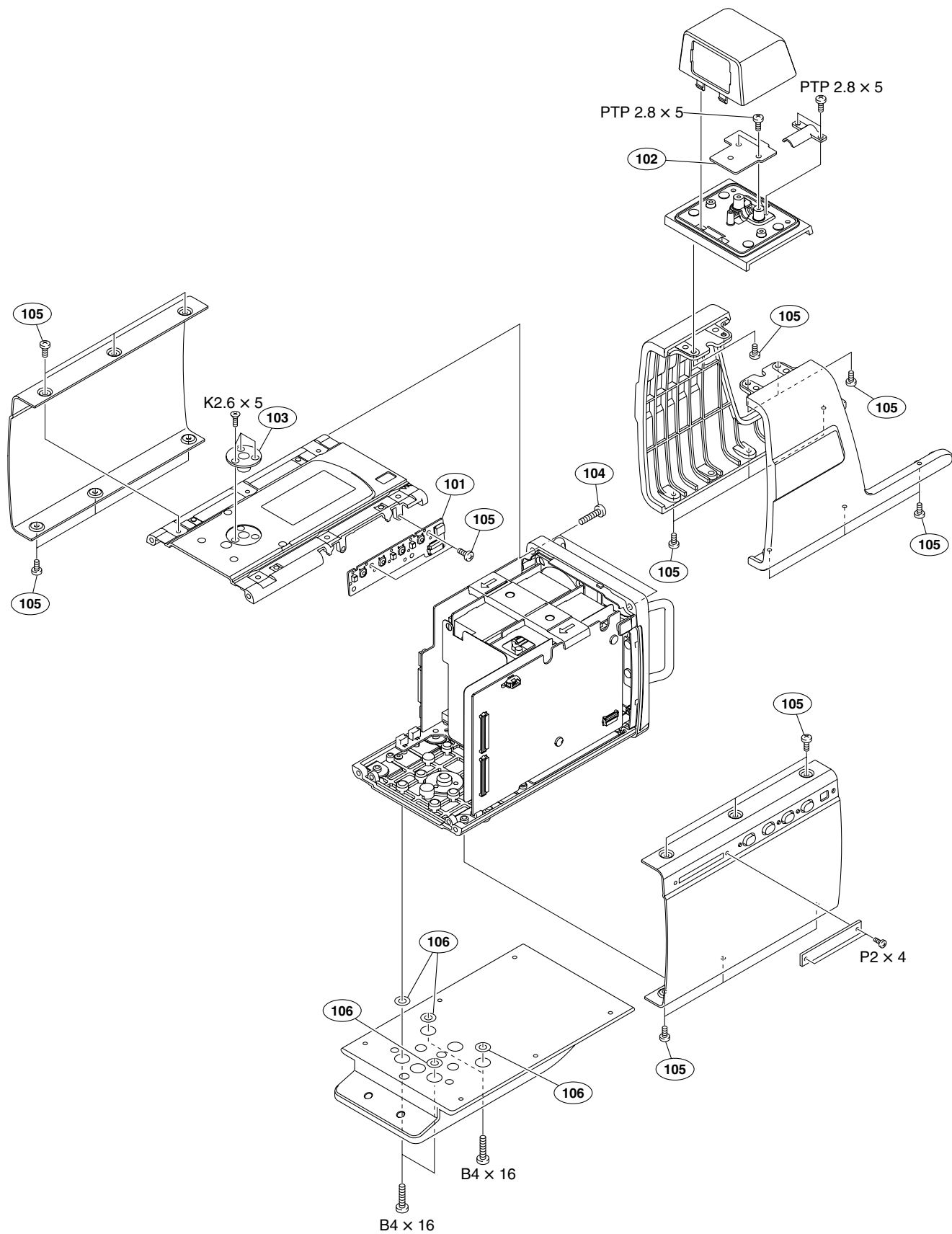
5. To correction another RPN, repeat steps 2 to 4.

Section 5 Spare Parts

5-1. Exploded Views

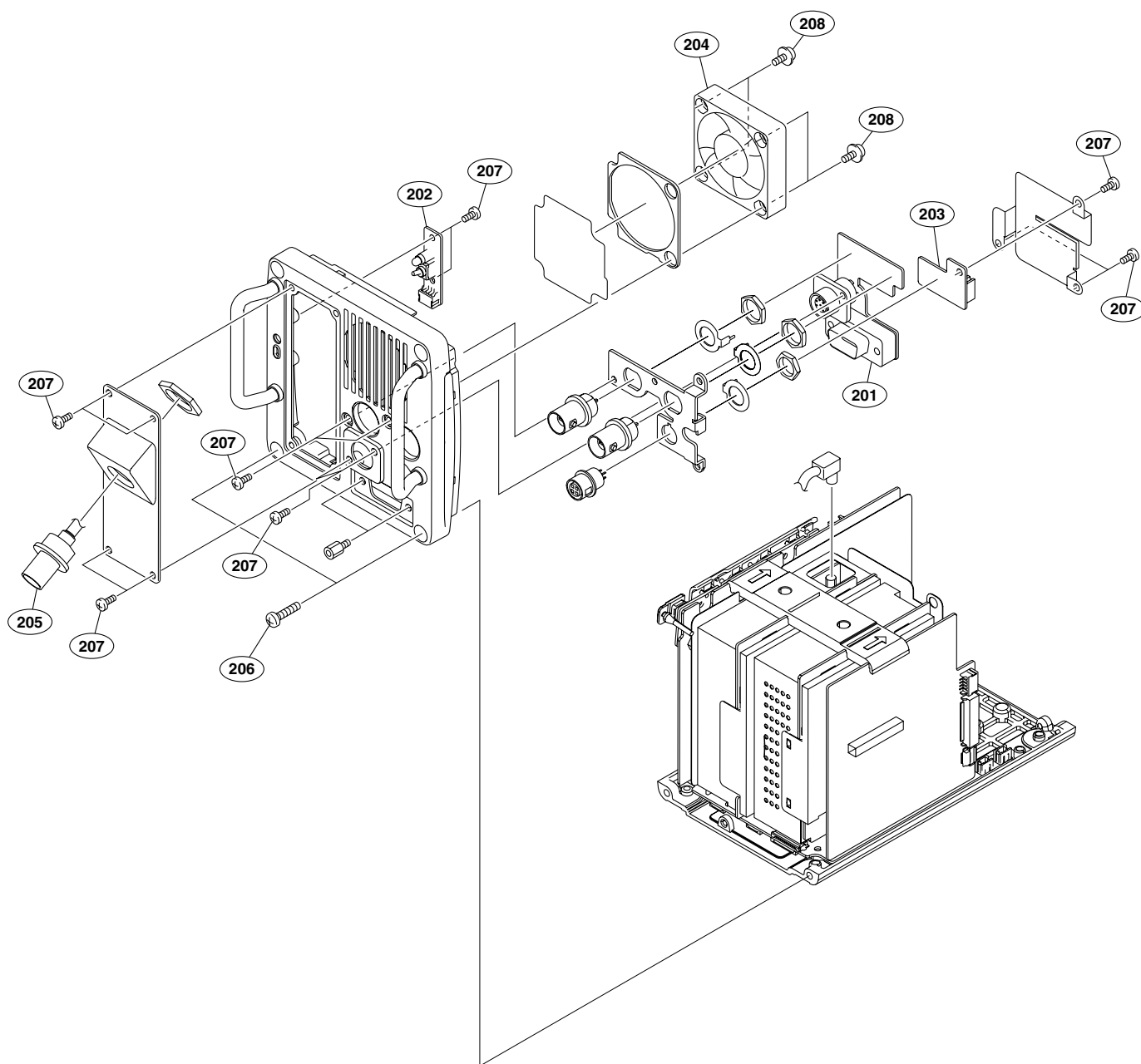


Main Chassis Block



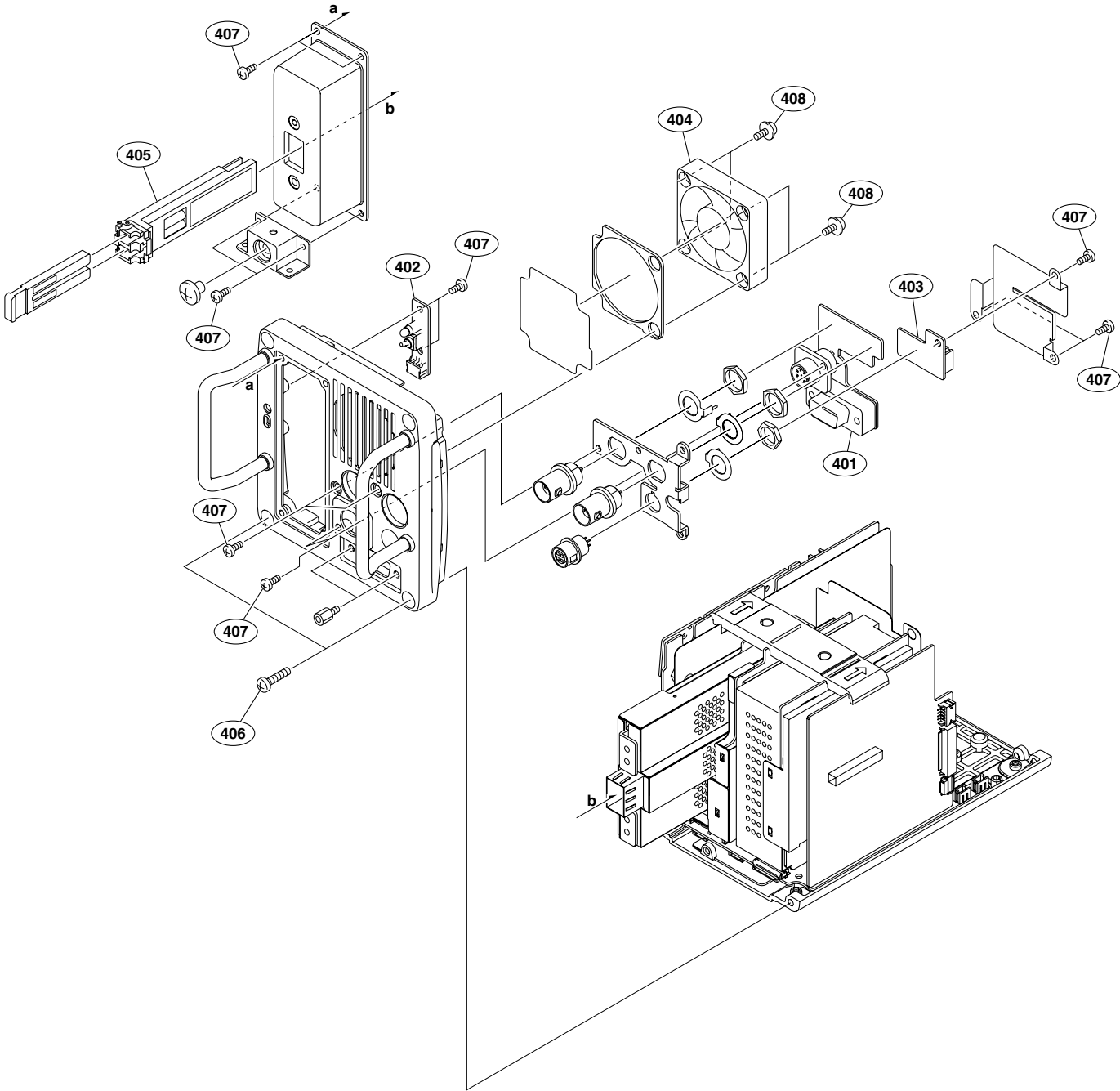
No.	Part No.	SP Description
101	A-1052-799-A	s MOUNTED CIRCUIT BOARD, SW-1212
102	A-1052-804-A	s MOUNTED CIRCUIT BOARD, LED-421
103	3-174-664-02	s SCREW, TRIPOD
104	3-178-214-11	s SCREW +B (M3X8)
105	3-364-941-01	s SCREW (+B) (2.6X5), NYLOK

No.	Part No.	SP Description
106	3-687-116-01	o WASHER (4), STOPPER (PLA)
	7-627-454-37	s SCREW, PRECISION +K2.6X5
	7-627-553-47	s SCREW, PRECISION +P2X4
	7-682-565-04	s SCREW +B4X16 (EP-FE/CU, NI, CR)
	7-685-132-19	s SCREW +PTP2.6X5

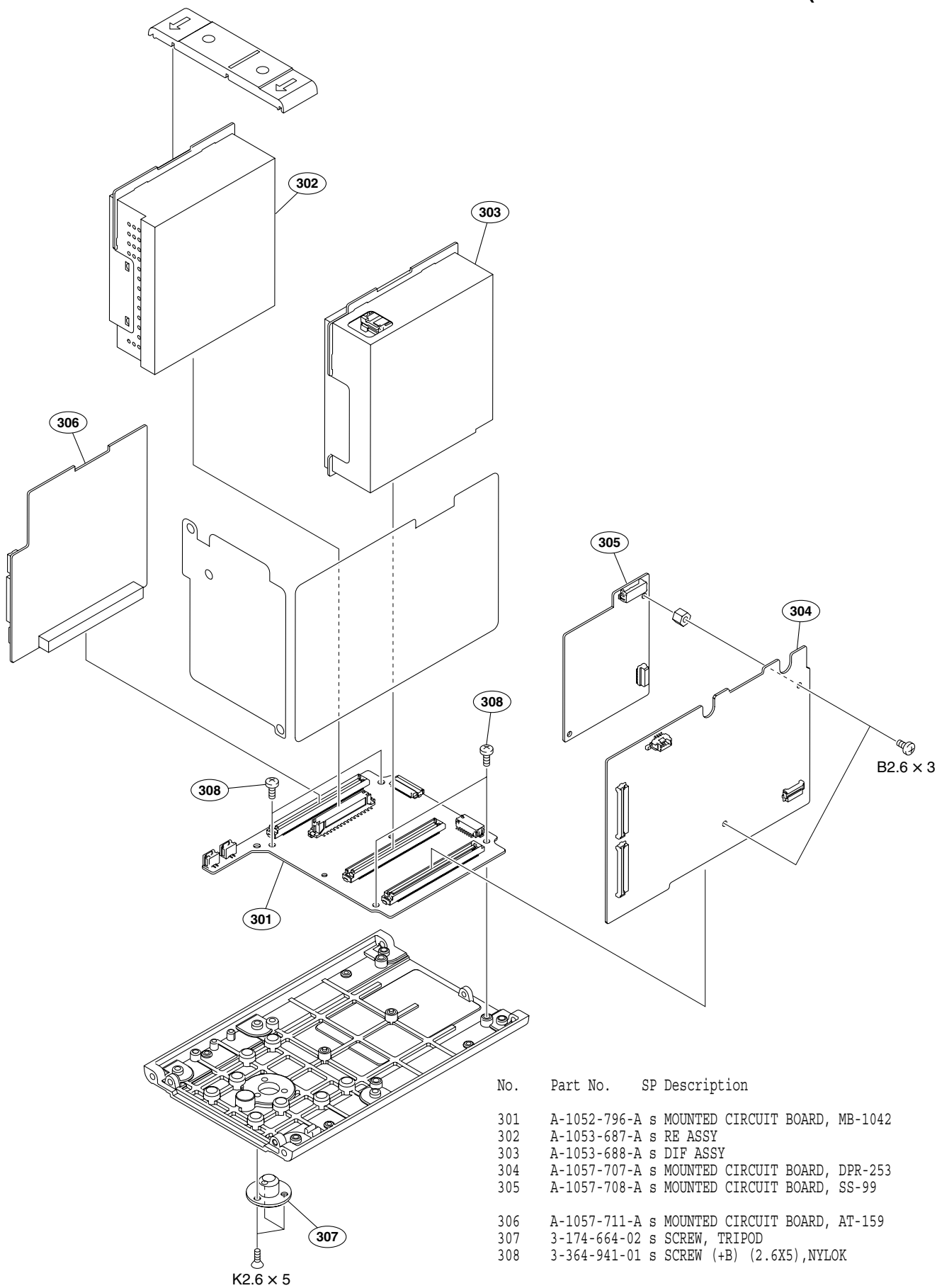


No.	Part No.	SP Description
201	A-1052-800-A	s MOUNTED CIRCUIT BOARD, CN-2550
202	A-1052-805-A	s MOUNTED CIRCUIT BOARD, PSW-83
203	A-1073-964-A	s MOUNTED CIRCUIT BOARD, CN-2691
204	△ 1-698-741-31	s FAN, DC (WITH 40 MM ALARM)
205	1-829-884-11	s CABLE ASSY, COAXIAL
206	3-178-214-11	s SCREW +B (M3X8)
207	3-364-941-01	s SCREW (+B) (2.6X5), NYLOK
208	3-669-607-22	s +PSW 2.6

Rear Block (HDC-X310/X310K)



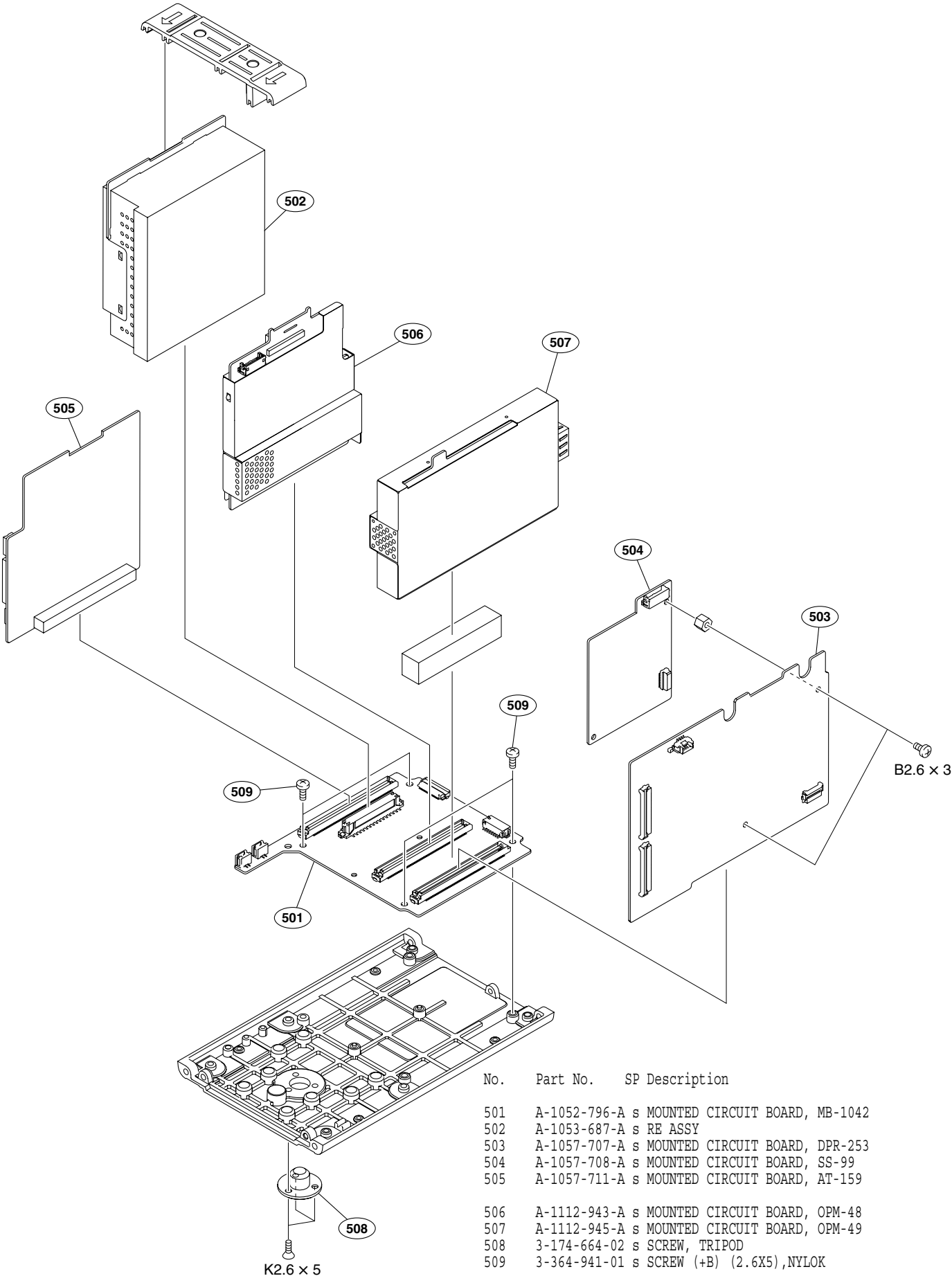
No.	Part No.	SP Description
401	A-1052-800-A	s MOUNTED CIRCUIT BOARD, CN-2550
402	A-1052-805-A	s MOUNTED CIRCUIT BOARD, PSW-83
403	A-1073-964-A	s MOUNTED CIRCUIT BOARD, CN-2691
404	△ 1-698-741-31	s FAN, DC (WITH 40 MM ALARM)
405	△ 1-797-238-11	s MODULE, OPTICAL (SFP)
406	3-178-214-11	s SCREW +B (M3X8)
407	3-364-941-01	s SCREW (+B) (2.6X5), NYLOK
408	3-669-607-22	s +PSW 2.6



No.	Part No.	SP Description
301	A-1052-796-A	s MOUNTED CIRCUIT BOARD, MB-1042
302	A-1053-687-A	s RE ASSY
303	A-1053-688-A	s DIF ASSY
304	A-1057-707-A	s MOUNTED CIRCUIT BOARD, DPR-253
305	A-1057-708-A	s MOUNTED CIRCUIT BOARD, SS-99
306	A-1057-711-A	s MOUNTED CIRCUIT BOARD, AT-159
307	3-174-664-02	s SCREW, TRIPOD
308	3-364-941-01	s SCREW (+B) (2.6X5), NYLOK

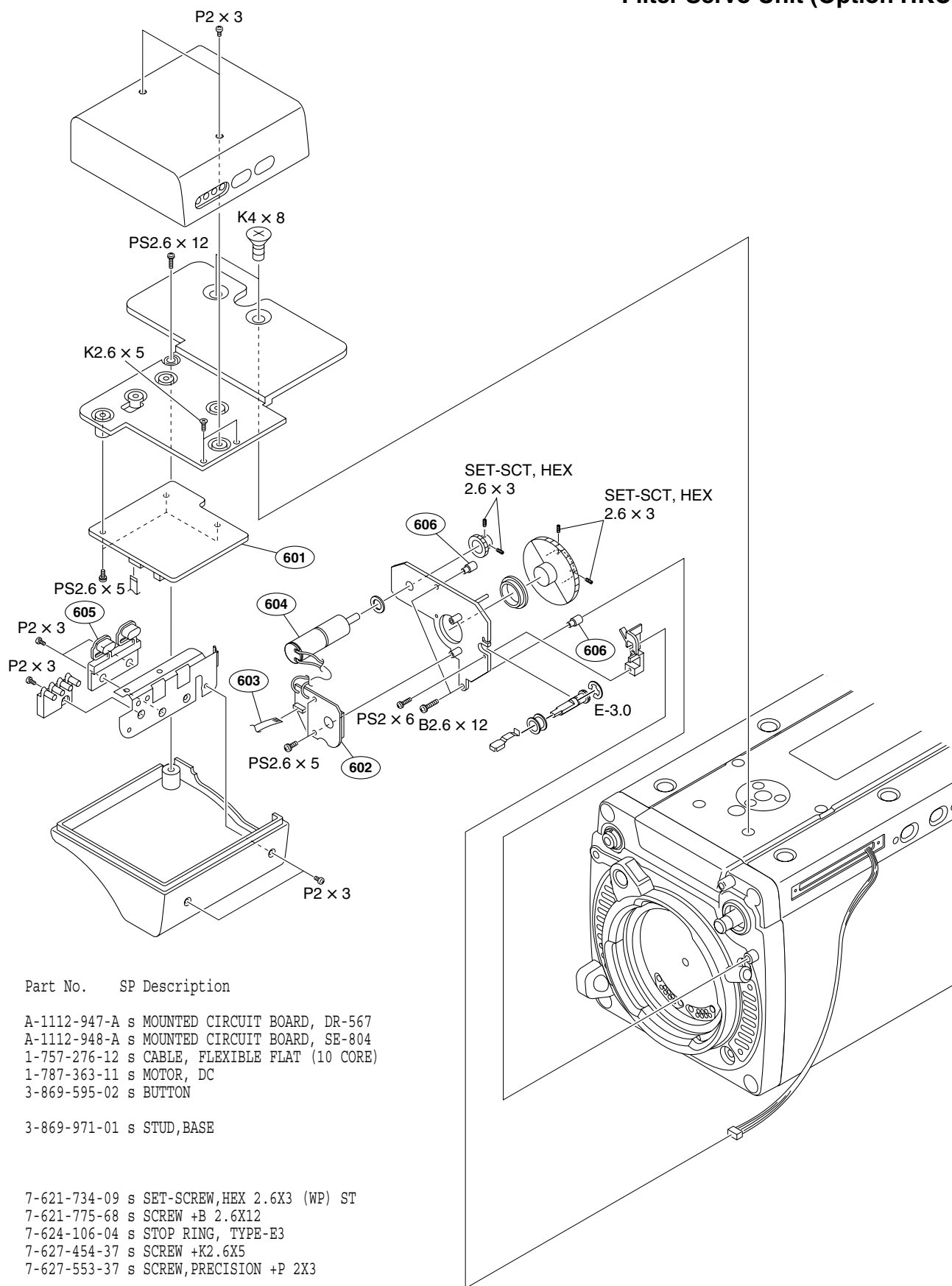
7-621-775-08 s SCREW +B2.6X3
7-627-454-37 s SCREW, PRECISION +K2.6X5

OPM/RE Block (HDC-X310/X310K)



No.	Part No.	SP Description
501	A-1052-796-A	s MOUNTED CIRCUIT BOARD, MB-1042
502	A-1053-687-A	s RE ASSY
503	A-1057-707-A	s MOUNTED CIRCUIT BOARD, DPR-253
504	A-1057-708-A	s MOUNTED CIRCUIT BOARD, SS-99
505	A-1057-711-A	s MOUNTED CIRCUIT BOARD, AT-159
506	A-1112-943-A	s MOUNTED CIRCUIT BOARD, OPM-48
507	A-1112-945-A	s MOUNTED CIRCUIT BOARD, OPM-49
508	3-174-664-02	s SCREW, TRIPOD
509	3-364-941-01	s SCREW (+B) (2.6X5), NYLOK

7-621-775-08 s SCREW +B2.6X3
7-627-454-37 s SCREW, PRECISION +K2.6X5



No.	Part No.	SP Description
601	A-1112-947-A	s MOUNTED CIRCUIT BOARD, DR-567
602	A-1112-948-A	s MOUNTED CIRCUIT BOARD, SE-804
603	1-757-276-12	s CABLE, FLEXIBLE FLAT (10 CORE)
604	1-787-363-11	s MOTOR, DC
605	3-869-595-02	s BUTTON
606	3-869-971-01	s STUD, BASE
	7-621-734-09	s SET-SCREW, HEX 2.6X3 (WP) ST
	7-621-775-68	s SCREW +B 2.6X12
	7-624-106-04	s STOP RING, TYPE-E3
	7-627-454-37	s SCREW +K2.6X5
	7-627-553-37	s SCREW, PRECISION +P 2X3
	7-628-253-20	s SCREW +PS 2X6
	7-628-254-00	s SCREW +PS 2.6X5
	7-682-261-04	s SCREW +K 4X8

5-2. Electrical Parts List

AT-159 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1057-711-A	s MOUNTED CIRCUIT BOARD, AT-159
C1	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C2	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C3	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C4	1-165-871-11	s CAPACITOR,ELECT 22MF
C5	1-165-871-11	s CAPACITOR,ELECT 22MF
C6	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C7	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C8	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C9	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C10	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C11	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C12	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C13	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C14	1-164-937-11	s CAPACITOR,CHIP CERAMIC 1000PF
C15	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C16	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C17	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C18	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C19	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C20	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C21	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C22	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C23	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C24	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C25	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C26	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C27	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C28	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C29	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C30	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C31	1-164-935-11	s CAPACITOR,CHIP CERAMIC 470PF
C32	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C33	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C34	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C35	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C36	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C37	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C39	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C40	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C41	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C42	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C43	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C44	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C45	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C46	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C47	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C48	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C49	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C50	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C51	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C52	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C53	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C54	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C55	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C56	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C57	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C58	1-127-573-11	s CAPACITOR,CERAMIC 1MFB(2012)

(AT-159 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C201	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C202	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C203	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C204	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C205	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C206	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C207	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C208	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C209	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C210	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C211	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C212	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C213	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C214	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C215	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C216	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C217	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C218	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C219	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C220	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C221	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C222	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C223	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C224	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C225	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C226	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C227	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C228	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C229	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C230	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C231	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C232	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C233	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C234	1-164-858-11	s CAPACITOR,CERAMIC 22PF/50V
C235	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C236	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C237	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C238	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C301	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C302	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C303	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C304	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C305	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C306	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C307	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C308	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C309	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C310	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C311	1-104-760-11	s CAPACITOR CERAMIC 0.047MF/50V
C312	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C313	1-164-874-11	s CAPACITOR,CHIP CERAMIC 100PF
C314	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C315	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C316	1-127-820-11	s CAPACITOR, SQUARE CHIP 4.7MF
C317	1-127-820-11	s CAPACITOR, SQUARE CHIP 4.7MF
C318	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C319	1-107-417-11	s CAPACITOR ERECT 33MF/25V(105C)
C320	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C321	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V

(AT-159 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C322	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
CN2	1-778-645-11	o	CONNECTOR, FFC (ZIF) 10P
CN3	1-580-057-11	s	PIN,CONNECTOR 4P
CN4	1-817-194-21	s	CONNECTOR 13P
CN5	1-815-537-91	s	CONNECTOR, BOARD TO BOARD 60P
D1	8-719-421-71	s	DIODE MA132WA
D201	8-719-421-71	s	DIODE MA132WA
D202	8-719-421-71	s	DIODE MA132WA
D301	8-719-421-71	s	DIODE MA132WA
D302	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D303	8-719-421-71	s	DIODE MA132WA
D304	8-719-421-71	s	DIODE MA132WA
D305	8-719-421-71	s	DIODE MA132WA
E1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
FB1	1-469-094-11	s	FERRITE, EMI (SMD)
FB2	1-469-094-11	s	FERRITE, EMI (SMD)
FB201	1-469-094-11	s	FERRITE, EMI (SMD)
FB202	1-469-094-11	s	FERRITE, EMI (SMD)
FB302	1-469-379-11	s	FERRITE, EMI (SMD)
IC2	8-759-669-42	s	IC SN74LVC138APWR-12
IC3	6-703-421-01	s	IC HD64F7145F50
IC4	8-759-447-77	s	IC TC7WH74FU (TE12R)
IC5	8-759-564-49	s	IC TC7W53FU-TE12R
IC6	8-759-683-24	s	IC MAX821RUS-T
IC7	8-759-564-49	s	IC TC7W53FU-TE12R
IC8	8-759-655-44	s	IC MBM29DL161TD-90PFTN
IC9	8-759-655-44	s	IC MBM29DL161TD-90PFTN
IC10	6-707-242-01	s	IC R1LV0416CSB-5SI
IC11	6-707-242-01	s	IC R1LV0416CSB-5SI
IC12	8-759-540-36	s	IC SN74LVC157APWR
IC13	8-759-669-42	s	IC SN74LVC138APWR-12
IC14	6-704-988-01	s	IC FM18L08-70-STR
IC15	6-704-988-01	s	IC FM18L08-70-STR
IC16	8-759-327-01	s	IC NJM062V-TE2
IC17	8-759-591-61	s	IC TC7WHU04FU
IC18	8-759-656-54	s	IC TC7WH14FK (TE85R)
IC19	6-706-476-01	s	IC TC7SET04FU (T5RSOYJF)
IC20	6-706-484-01	s	IC TC7SH04FU (T5RSOYJF)
IC22	8-759-669-44	s	IC SN74LVC74APWR-12
IC24	8-759-675-53	s	IC TC7WH32FK-TE85R
IC25	8-759-675-53	s	IC TC7WH32FK-TE85R
IC26	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC27	8-759-675-53	s	IC TC7WH32FK-TE85R
IC28	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC29	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC31	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC32	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC33	6-706-484-01	s	IC TC7SH04FU (T5RSOYJF)
IC34	6-704-976-01	s	IC ADR381ART-REEL7
IC35	8-759-327-01	s	IC NJM062V-TE2
IC201	8-759-392-77	s	IC SN74LVC245APW (E20)
IC202	8-759-392-77	s	IC SN74LVC245APW (E20)
IC203	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC204	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC205	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC206	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC207	8-752-392-03	s	IC CXD1095BR

(AT-159 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC208	8-759-546-74	s	IC TC7WH157FU (TE12R)
IC209	8-759-598-43	s	IC TC7WH04FK (TE85R)
IC210	8-759-675-53	s	IC TC7WH32FK-TE85R
IC211	8-759-594-17	o	IC CXD9093R
IC212	8-759-598-44	s	IC TC7WH08FK (TE85R)
IC213	6-701-905-01	s	IC AM26C31CDBR
IC214	8-759-546-74	s	IC TC7WH157FU (TE12R)
IC215	8-759-564-49	s	IC TC7W53FU-TE12R
IC216	8-759-564-49	s	IC TC7W53FU-TE12R
IC217	8-759-442-26	s	IC MAX3222CAP
IC218	8-759-675-53	s	IC TC7WH32FK-TE85R
IC301	6-706-357-01	s	IC LTC1664IGN#TR
IC302	8-759-082-61	s	IC TC4W53FU
IC303	8-759-082-61	s	IC TC4W53FU
IC304	8-759-598-43	s	IC TC7WH04FK (TE85R)
IC305	8-759-327-01	s	IC NJM062V-TE2
IC306	8-759-327-01	s	IC NJM062V-TE2
IC307	6-706-487-01	s	IC TC7SH08FU (T5RSOYJF)
L1	1-416-344-11	s	COIL, CHOKE 10UH
L2	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L3	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L201	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L301	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L302	1-416-760-21	s	COIL, CHOKE 330UH
L303	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L304	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
PH201	8-749-014-35	s	IC HCPL-0630-500
Q201	8-729-928-81	s	TRANSISTOR DTC144EE
Q202	8-729-927-99	s	TRANSISTOR 2SC4617R
Q203	8-729-928-81	s	TRANSISTOR DTC144EE
Q204	8-729-928-27	s	TRANSISTOR DTA144EE
Q205	8-729-928-81	s	TRANSISTOR DTC144EE
Q206	8-729-041-23	s	TRANSISTOR NDS356AP
Q207	8-729-928-81	s	TRANSISTOR DTC144EE
Q208	8-729-928-27	s	TRANSISTOR DTA144EE
Q301	8-729-928-81	s	TRANSISTOR DTC144EE
Q302	8-729-928-81	s	TRANSISTOR DTC144EE
Q303	8-729-928-81	s	TRANSISTOR DTC144EE
Q304	8-729-927-99	s	TRANSISTOR 2SC4617R
Q305	8-729-927-99	s	TRANSISTOR 2SC4617R
Q306	8-729-928-19	s	TRANSISTOR 2SA1774R
Q307	8-729-039-07	s	TRANSISTOR SI6943DQ
Q310	8-729-928-81	s	TRANSISTOR DTC144EE
Q311	8-729-020-94	s	TRANSISTOR 2SA1314C-TE12L
Q312	8-729-928-81	s	TRANSISTOR DTC144EE
Q313	8-729-928-81	s	TRANSISTOR DTC144EE
Q314	8-729-928-81	s	TRANSISTOR DTC144EE
Q315	8-729-928-81	s	TRANSISTOR DTC144EE
Q316	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q317	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
R1	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R2	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R3	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R4	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R5	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R6	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R7	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R8	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R9	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R10	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R11	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R12	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R13	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R14	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R15	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R16	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R17	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R18	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R19	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R20	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R21	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R22	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R23	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R24	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R25	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R26	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R27	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R31	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R32	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R33	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R34	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R35	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R36	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R37	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R38	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R39	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R40	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R41	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R42	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R43	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R44	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R45	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R46	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R47	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R48	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R49	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R50	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R51	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R52	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R53	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R54	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R55	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R56	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R57	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R58	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R59	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R60	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R61	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R62	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R63	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R64	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R65	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R66	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R67	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R68	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R69	1-208-935-11	s RESISTOR, CHIP 100K (1005)

(AT-159 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R70	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R71	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R72	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R73	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R74	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R75	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R76	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R77	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R78	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R79	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R80	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R81	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R83	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R85	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R87	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R88	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R90	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R92	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R93	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R94	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R95	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R96	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R97	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R101	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R102	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R103	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R104	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R105	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R106	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R107	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R108	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R109	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R110	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R111	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R112	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R113	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R114	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R115	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R116	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R117	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R118	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R119	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R120	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R121	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R122	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R123	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R124	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R125	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R126	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R128	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R129	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R201	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R202	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R203	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R204	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R205	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R206	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R207	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R208	1-208-935-11	s RESISTOR, CHIP 100K (1005)

(AT-159 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R210	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R211	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R212	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R213	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R214	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R215	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R216	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R217	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R218	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R219	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R220	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R221	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R222	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R223	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R224	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R225	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R226	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R227	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R228	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R229	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R230	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R231	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R232	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R233	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R234	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R235	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R236	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R237	1-208-943-11	s RESISTOR CHIP 220K
R238	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R239	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R240	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R241	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R242	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R243	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R244	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R245	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R246	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R303	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R304	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R305	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R306	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R307	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R308	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R309	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R310	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R311	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R312	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R313	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R314	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R315	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R316	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R317	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R318	1-208-675-11	s RESISTOR CHIP 470 1/16W (1005)
R319	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R320	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R321	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R322	1-208-675-11	s RESISTOR CHIP 470 1/16W (1005)
R323	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R324	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)

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Ref. No. or Q'ty	Part No.	SP Description
R325	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R326	1-208-675-11	s RESISTOR CHIP 470 1/16W (1005)
R327	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R328	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R329	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R330	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R331	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R332	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R333	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R334	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R335	1-218-989-11	s RESISTOR,CHIP 1M 1/16W (1005)
R336	1-218-989-11	s RESISTOR,CHIP 1M 1/16W (1005)
R337	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R338	1-218-989-11	s RESISTOR,CHIP 1M 1/16W (1005)
R339	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R340	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R341	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R342	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R343	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R344	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R345	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R346	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R347	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R348	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R349	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R350	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R351	1-208-943-11	s RESISTOR CHIP 220K
R352	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R353	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R354	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R355	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R356	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R357	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R358	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R359	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R361	1-208-911-11	s RESISTOR, CHIP 10K 1/16W(1005)
R362	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R363	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R364	1-208-911-11	s RESISTOR, CHIP 10K 1/16W(1005)
R365	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R366	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R367	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R368	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R369	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R370	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R371	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R372	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R373	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R374	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R376	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R377	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R378	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R379	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R390	1-216-295-91	s CONDUCTOR, CHIP (2012)
RB1	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB2	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB3	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB4	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB5	1-234-381-21	s RES, NETWORK 100KX4 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
RB6	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB7	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB8	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB9	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB10	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB11	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB12	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB13	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB14	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB15	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB16	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB201	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB202	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB203	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB204	1-234-371-11	s RES, NETWORK 47X4 (1005)
RB205	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB301	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB303	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB304	1-234-381-21	s RES, NETWORK 100KX4 (1005)
S201	1-692-881-41	s SWITCH, SLIDE
X1	1-781-575-11	s VIBRATOR, CERAMIC
X201	1-795-177-21	s OSCILLATOR, CRYSTAL

CN-2550 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1052-800-A	s MOUNTED CIRCUIT BOARD, CN-2550
C1	1-100-566-91	s CAP, CHIP CERAMIC 0.1MF B 1608
CN1	1-766-696-11	o CONNECTOR, ROUND TYPE 8P
CN5	1-569-577-41	s CONNECTOR, D-SUB 15P
CN6	1-774-261-11	o CONNECTOR, FFC (ZIF) 24P
FB1	1-414-445-11	s FERRITE, EMI (SMD)
FB2	1-414-445-11	s FERRITE, EMI (SMD)
FB3	1-414-445-11	s FERRITE, EMI (SMD)
FB4	1-414-445-11	s FERRITE, EMI (SMD)
FB5	1-469-379-11	s FERRITE, EMI (SMD)
FB6	1-414-445-11	s FERRITE, EMI (SMD)
FB7	1-469-379-11	s FERRITE, EMI (SMD)
FB9	1-469-092-11	s INDUCTOR, MICRO (CHIP TYPE)
FB10	1-469-092-11	s INDUCTOR, MICRO (CHIP TYPE)
FB11	1-469-092-11	s INDUCTOR, MICRO (CHIP TYPE)
FB12	1-469-092-11	s INDUCTOR, MICRO (CHIP TYPE)
R13	1-216-864-11	s CONDUCTOR, CHIP (1608)
R14	1-216-864-11	s CONDUCTOR, CHIP (1608)
R15	1-216-864-11	s CONDUCTOR, CHIP (1608)
R16	1-216-864-11	s CONDUCTOR, CHIP (1608)
R17	1-216-864-11	s CONDUCTOR, CHIP (1608)

CN-2566 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1052-806-A	s MOUNTED CIRCUIT BOARD, CN-2566
C1	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C2	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
CN1	1-507-743-21	s JACK,STEREO MINI
CN2	1-778-645-11	o CONNECTOR, FFC (ZIF) 10P
FB1	1-414-445-11	s FERRITE, EMI (SMD)
FB2	1-414-445-11	s FERRITE, EMI (SMD)

CN-2691 BOARD

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

Ref. No. or Q'ty	Part No.	SP Description
pcs	A-1073-964-A	s MOUNTED CIRCUIT BOARD, CN-2691
C1	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C2	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3	*2 1-162-970-11	s CERAMIC CHIP 0.01MF/25V
C4	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C5	*2 1-164-874-11	s CERAMIC CHIP 100PF
C6	*2 1-164-874-11	s CERAMIC CHIP 100PF
C7	*2 1-164-935-11	s CERAMIC CHIP 470P
CN1	1-573-290-21	s PIN,CONNECTOR (4P) (SMD) (1.5MM)
FB1	*1 1-469-379-11	s FERRITE, EMI (SMD)
FB2	*1 1-469-379-11	s FERRITE, EMI (SMD)
FB3	*1 1-469-379-11	s FERRITE, EMI (SMD)
R1	*2 1-216-295-91	s SHORT CHIP 0

DIF-154 BOARD (HDC-X300/X300K)

Ref. No. or Q'ty	Part No.	SP	Description
1pc (This assembly includes the DIF-155 mounted circuit board.)	A-1053-688-A	s	DIF ASSY
C1	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C2	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C3	1-126-390-11	s	CAPACITOR ELECT 22MF/6.3V(105)
C4	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5	1-126-390-11	s	CAPACITOR ELECT 22MF/6.3V(105)
C6	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C7	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C8	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C9	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C50	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C51	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C52	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C53	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C54	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C55	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C56	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C57	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C58	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C59	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C60	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C61	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C62	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C63	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C64	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C65	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C66	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C67	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C68	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C69	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C70	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C71	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C72	1-164-874-11	s	CAPACITOR,CHIP CERAMIC 100PF
C73	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C76	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C77	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C78	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C79	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C80	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C81	1-164-874-11	s	CAPACITOR,CHIP CERAMIC 100PF
C82	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C84	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C85	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C100	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C101	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
CN2	1-815-895-11	s	CONNECTOR, BOARD TO BOARD 120P
CN50	1-764-093-21	o	PIN, CONNECTOR (PC BOARD) 8P
IC1	8-759-598-13	s	IC CDC2510CPWR
IC2	6-700-804-01	s	IC SN74LVC574APWR
IC3	6-700-804-01	s	IC SN74LVC574APWR
IC4	6-700-804-01	s	IC SN74LVC574APWR
IC5	6-700-804-01	s	IC SN74LVC574APWR
IC50	6-700-655-01	s	IC LT1963ES8#TR
IC51	6-700-655-01	s	IC LT1963ES8#TR
IC52	6-700-655-01	s	IC LT1963ES8#TR
IC53	8-759-592-47	s	IC TC7SZ08FU(TE85R)

(DIF-154 BOARD (HDC-X300/X300K))

Ref. No. or Q'ty	Part No.	SP	Description
IC54	8-759-472-43	s	IC 74VHC245MTCX
IC55	6-700-655-01	s	IC LT1963ES8#TR
IC56	8-759-918-65	s	IC TL7700CPS
IC57	6-700-387-01	s	IC EPC2LC20-TP
IC58	6-700-387-01	s	IC EPC2LC20-TP
IC59	8-759-918-65	s	IC TL7700CPS
IC60	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC61	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC62	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC100	8-759-392-77	s	IC SN74LVC245APW (E20)
IC101	8-759-392-77	s	IC SN74LVC245APW (E20)
L1	1-414-398-11	s	INDUCTOR (SMD) 10UH
L2	1-414-398-11	s	INDUCTOR (SMD) 10UH
L50	1-412-056-11	s	INDUCTOR 4.7UH (3225)
L51	1-412-056-11	s	INDUCTOR 4.7UH (3225)
L52	1-412-056-11	s	INDUCTOR 4.7UH (3225)
L53	1-412-056-11	s	INDUCTOR 4.7UH (3225)
L54	1-412-056-11	s	INDUCTOR 4.7UH (3225)
R1	1-208-661-11	s	RESISTOR CHIP 120 1/16W (1005)
R2	1-208-671-11	s	RESISTOR CHIP 330 1/16W (1005)
R3	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R4	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R5	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R6	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R7	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R8	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R9	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R10	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R11	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R12	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R13	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R14	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R50	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R51	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R52	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R53	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R54	1-208-679-11	s	RESISTOR CHIP 680 1/16W (1005)
R55	1-208-663-11	s	RESISTOR CHIP 150 1/16W (1005)
R56	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R57	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R58	1-208-671-11	s	RESISTOR CHIP 330 1/16W (1005)
R59	1-208-663-11	s	RESISTOR CHIP 150 1/16W (1005)
R60	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R61	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R62	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R63	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R65	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R66	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R67	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R68	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R69	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R70	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R71	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R72	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R73	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R74	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R75	1-208-923-11	s	RESISTOR, CHIP 33K (1005)
R76	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)

(DIF-154 BOARD (HDC-X300/X300K))

Ref. No. or Q'ty	Part No.	SP Description
R77	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R78	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R79	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R80	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R81	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R82	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R83	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R84	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R86	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R87	1-208-931-11	s RESISTOR, CHIP 68K (1005)
R88	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R89	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R90	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R91	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R92	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R93	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R94	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R95	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
RB1	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB2	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB3	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB4	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB5	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB6	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB7	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB8	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB9	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB10	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB11	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB12	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB13	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB14	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB50	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB51	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB52	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB53	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB54	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB100	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB101	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB102	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB103	1-234-381-21	s RES, NETWORK 100KX4 (1005)
S50	1-692-271-31	s SWITCH, SLIDE

DIF-155 BOARD (HDC-X300/X300K)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1053-688-A	s DIF ASSY (This assembly includes the DIF-154 mounted circuit board.)
C1	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C2	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C3	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C4	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C5	1-164-939-11	s CAPACITOR,CHIP CERAMIC 2200PF
C6	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C7	1-165-871-11	s CAPACITOR,ELECT 22MF
C8	1-164-939-11	s CAPACITOR,CHIP CERAMIC 2200PF
C9	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C10	1-165-871-11	s CAPACITOR,ELECT 22MF
C11	1-165-871-11	s CAPACITOR,ELECT 22MF
C12	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C13	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C14	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C15	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C16	1-165-871-11	s CAPACITOR,ELECT 22MF
C17	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C18	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C19	1-165-871-11	s CAPACITOR,ELECT 22MF
C20	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C21	1-165-871-11	s CAPACITOR,ELECT 22MF
C22	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C23	1-165-871-11	s CAPACITOR,ELECT 22MF
C24	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C25	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C26	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C27	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C28	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C29	1-165-871-11	s CAPACITOR,ELECT 22MF
C30	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C31	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C32	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C33	1-165-871-11	s CAPACITOR,ELECT 22MF
C34	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C35	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C36	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C37	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C38	1-165-871-11	s CAPACITOR,ELECT 22MF
C39	1-165-871-11	s CAPACITOR,ELECT 22MF
C40	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C41	1-165-871-11	s CAPACITOR,ELECT 22MF
C42	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C43	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C44	1-100-503-11	s CAPACITOR,CERAMIC 4.7MF B 2012
C45	1-100-503-11	s CAPACITOR,CERAMIC 4.7MF B 2012
C46	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C47	1-165-871-11	s CAPACITOR,ELECT 22MF
C48	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C49	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C50	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C51	1-165-871-11	s CAPACITOR,ELECT 22MF
C52	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C53	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C54	1-100-503-11	s CAPACITOR,CERAMIC 4.7MF B 2012
C55	1-100-503-11	s CAPACITOR,CERAMIC 4.7MF B 2012

(DIF-155 BOARD (HDC-X300/X300K))

Ref. No. or Q'ty	Part No.	SP	Description
C80	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C81	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C82	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C83	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C84	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C85	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C86	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C87	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C88	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C89	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C90	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C91	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C92	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C93	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C94	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C95	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C96	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C97	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C98	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C99	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C100	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C101	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C102	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C103	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C104	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C105	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C106	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C107	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C108	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C109	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C110	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C111	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C112	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C113	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C114	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
D1	8-719-157-94	s	DIODE RD3.3SB
IC1	8-759-557-85	s	IC NC7SZ32P5X
IC2	8-759-557-85	s	IC NC7SZ32P5X
IC3	8-759-669-75	s	IC TLC2932IPWR
IC4	8-759-557-85	s	IC NC7SZ32P5X
IC5	6-703-693-01	s	IC GS1532-CF
IC6	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC7	8-759-557-85	s	IC NC7SZ32P5X
IC8	6-702-621-01	s	IC GS1528-CKA
IC9	8-759-669-66	s	IC TLC272CPWR
L1	1-414-404-11	s	INDUCTOR (SMD) 100UH
L2	1-414-398-11	s	INDUCTOR (SMD) 10UH
L3	1-414-398-11	s	INDUCTOR (SMD) 10UH
L4	1-414-398-11	s	INDUCTOR (SMD) 10UH
L5	1-414-404-11	s	INDUCTOR (SMD) 100UH
L6	1-414-398-11	s	INDUCTOR (SMD) 10UH
L7	1-414-398-11	s	INDUCTOR (SMD) 10UH
L8	1-414-398-11	s	INDUCTOR (SMD) 10UH
L9	1-414-398-11	s	INDUCTOR (SMD) 10UH
L10	1-412-056-11	s	INDUCTOR 4.7UH (3225)
L11	1-414-398-11	s	INDUCTOR (SMD) 10UH
L12	1-414-455-11	s	INDUCTOR, CHIP (S) 2.2NH
L13	1-414-455-11	s	INDUCTOR, CHIP (S) 2.2NH

(DIF-155 BOARD (HDC-X300/X300K))

Ref. No. or Q'ty	Part No.	SP	Description
L80	1-412-056-11	s	INDUCTOR 4.7UH (3225)
L81	1-412-056-11	s	INDUCTOR 4.7UH (3225)
Q1	8-729-928-81	s	TRANSISTOR DTC144EE
Q2	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q3	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
R1	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R2	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R3	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R4	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R5	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R6	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R7	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R8	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R9	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R10	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R12	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R13	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R14	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R15	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R16	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R17	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R19	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R20	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R21	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R22	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R23	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R24	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R25	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R26	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R27	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R28	1-208-873-11	s	RESISTOR,CHIP 270 1/16W (1005)
R29	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R30	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R31	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R32	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R33	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R35	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R36	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R37	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R39	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R40	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R41	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R42	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R43	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R44	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R45	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R46	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R47	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R48	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R49	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R50	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R51	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)
R52	1-208-860-11	s	RESISTOR CHIP 75 1/16W (1005)
R53	1-208-860-11	s	RESISTOR CHIP 75 1/16W (1005)
R54	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R55	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R56	1-208-679-11	s	RESISTOR CHIP 680 1/16W (1005)
R57	1-211-990-11	s	RESISTOR,CHIP 75 1/10W (1608)

(DIF-155 BOARD (HDC-X300/X300K))

Ref. No. or Q'ty	Part No.	SP Description
R58	1-211-990-11	s RESISTOR,CHIP 75 1/10W (1608)
R59	1-208-860-11	s RESISTOR CHIP 75 1/16W (1005)
R60	1-208-860-11	s RESISTOR CHIP 75 1/16W (1005)
R61	1-208-860-11	s RESISTOR CHIP 75 1/16W (1005)
R62	1-208-687-11	s RESISTOR CHIP 1.5K 1/16W (1005)
R63	1-208-679-11	s RESISTOR CHIP 680 1/16W (1005)
R64	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R65	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R66	1-208-687-11	s RESISTOR CHIP 1.5K 1/16W (1005)
R67	1-208-679-11	s RESISTOR CHIP 680 1/16W (1005)
R68	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R69	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R80	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R81	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
RB1	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB2	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB3	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB4	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB5	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB6	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB80	1-234-372-11	s RES, NETWORK 100X4 (1005)
TP1	1-535-757-11	s CHIP, CHECKER (CONNECTOR)
X1	1-795-872-11	s OSCILLATOR
X2	1-795-671-11	s OSCILLATOR, CRYSTAL
X3	1-795-670-11	s OSCILLATOR, CRYSTAL

DPR-253 BOARD

*1: [Board No. suffix 12, 14]
 *2: [Board No. suffix 15 -]

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1057-707-A	s MOUNTED CIRCUIT BOARD, DPR-253
C1	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C2	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C3	*2 1-165-871-11	s CAPACITOR,ELECT 22MF
	*1 1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C4	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C5	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C6	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C7	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C8	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C9	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C10	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C11	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C12	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C13	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C14	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C15	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C16	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C17	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C18	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C19	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C20	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C21	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C22	1-164-866-11	s CAPACITOR,CHIP CERAMIC 47PF/50
C23	1-164-866-11	s CAPACITOR,CHIP CERAMIC 47PF/50
C24	1-164-866-11	s CAPACITOR,CHIP CERAMIC 47PF/50
C25	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C28	1-117-145-11	s CAPACITOR, ELECT 1MF/50V (BP)
C29	1-117-145-11	s CAPACITOR, ELECT 1MF/50V (BP)
C30	1-117-145-11	s CAPACITOR, ELECT 1MF/50V (BP)
C31	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C35	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C36	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C37	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C38	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C39	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C40	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C41	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C42	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C46	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C47	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C48	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C49	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C50	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C51	1-164-874-11	s CAPACITOR,CHIP CERAMIC 100PF
C58	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C59	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C60	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C61	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C62	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C63	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C64	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C65	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C66	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C67	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V

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Ref. No. or Q'ty	Part No.	SP	Description
C803	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C804	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C805	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C806	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C807	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C808	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C809	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C810	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C811	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C812	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C813	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C814	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C815	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C816	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C817	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C818	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C819	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C820	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C821	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C822	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C900	1-137-897-21	s	ELECT CHIP 150UF 20% 4V
C901	1-137-897-21	s	ELECT CHIP 150UF 20% 4V
C902	1-165-872-21	s	CAPACITOR,SOLID ELECT 47MF
C903	1-165-904-21	s	CAPACITOR, ELECT 220MF(6.3X6)
C904	1-137-897-21	s	ELECT CHIP 150UF 20% 4V
C905	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C906	1-165-904-21	s	CAPACITOR, ELECT 220MF(6.3X6)
C907	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C908	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C909	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C910	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C911	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C912	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C913	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C914	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C915	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C916	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C917	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C918	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C919	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C920	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C921	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C922	1-127-956-11	s	CAPACITOR,CHIP FILM 0.1MF
C923	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C924	1-165-872-21	s	CAPACITOR,SOLID ELECT 47MF
C925	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C926	1-127-956-11	s	CAPACITOR,CHIP FILM 0.1MF
C927	1-165-872-21	s	CAPACITOR,SOLID ELECT 47MF
C928	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C929	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C930	1-127-956-11	s	CAPACITOR,CHIP FILM 0.1MF
C931	1-165-872-21	s	CAPACITOR,SOLID ELECT 47MF
C932	1-165-872-21	s	CAPACITOR,SOLID ELECT 47MF
C933	1-127-956-11	s	CAPACITOR,CHIP FILM 0.1MF
C934	1-165-872-21	s	CAPACITOR,SOLID ELECT 47MF
C935	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C936	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C937	1-127-956-11	s	CAPACITOR,CHIP FILM 0.1MF
C938	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)

(DPR-253 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C939	1-100-159-91	s	CAP, CERAMIC 22MF B (SMD) 3216
CN2	1-785-840-21	o	CONNECTOR, FFC (ZIF) 15P
CN3	1-778-535-11	o	CONNECTOR, FFC (ZIF) 45P
CN4	1-778-535-11	o	CONNECTOR, FFC (ZIF) 45P
CN5	1-779-804-21	s	CONNECTOR, BOARD TO BOARD 30P
CN6	1-764-079-21	s	PIN, CONNECTOR (PC BOARD) 4P
E1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
E2	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
FB1	*2 1-469-667-21	s	FERRITE, EMI (SMD)
	*1 1-414-772-11	s	INDUCTOR,MICRO(CHIP TYPE) 2012
FB2	*2 1-469-667-21	s	FERRITE, EMI (SMD)
FB3	*2 1-469-667-21	s	FERRITE, EMI (SMD)
FB4	*2 1-469-667-21	s	FERRITE, EMI (SMD)
FL1	1-234-871-11	s	FILTER, LOW PASS
FL2	1-234-871-11	s	FILTER, LOW PASS
FL3	1-234-871-11	s	FILTER, LOW PASS
FL201	1-234-871-11	s	FILTER, LOW PASS
FL202	1-234-871-11	s	FILTER, LOW PASS
FL203	1-234-871-11	s	FILTER, LOW PASS
IC1	8-759-561-46	s	IC AD8014ART-REEL7
IC2	8-759-561-46	s	IC AD8014ART-REEL7
IC3	6-706-863-01	s	IC LMH6732MFX/NOPB
IC4	8-759-327-01	s	IC NJM062V-TE2
IC5	8-759-327-01	s	IC NJM062V-TE2
IC6	8-759-327-01	s	IC NJM062V-TE2
IC7	8-759-663-35	s	IC 74VHC4053MTCX
IC10	8-759-524-05	s	IC TC74VHC126FT(EL)
IC11	8-759-689-09	s	IC SN65LVD2DBVR
IC12	8-759-386-27	s	IC 74LCX04MTCX
IC13	6-705-666-01	s	IC MAX1420ECM+T
IC14	6-705-666-01	s	IC MAX1420ECM+T
IC15	6-705-666-01	s	IC MAX1420ECM+T
IC158	8-759-598-44	s	IC TC7WH08FK(TE85R)
IC159	8-759-598-44	s	IC TC7WH08FK(TE85R)
IC160	*2 8-759-327-01	s	IC NJM062V-TE2
IC202	8-759-447-77	s	IC TC7WH74FU (TE12R)
IC203	8-752-414-92	s	IC CXD2309AQ-T6
IC204	8-759-564-49	s	IC TC7W53FU-TE12R
IC205	8-759-561-46	s	IC AD8014ART-REEL7
IC206	6-704-911-01	s	IC UPD6467GR-551-E2
IC207	8-759-561-46	s	IC AD8014ART-REEL7
IC208	8-759-561-46	s	IC AD8014ART-REEL7
IC209	8-759-561-46	s	IC AD8014ART-REEL7
IC210	8-759-561-46	s	IC AD8014ART-REEL7
IC301	8-759-472-65	s	IC 74VHC574MTCX
IC302	8-759-472-65	s	IC 74VHC574MTCX
IC303	8-759-472-65	s	IC 74VHC574MTCX
IC304	8-759-598-44	s	IC TC7WH08FK(TE85R)
IC305	8-759-599-93	s	IC NC7SZ08P5
IC306	8-759-564-49	s	IC TC7W53FU-TE12R
IC401	6-706-489-01	s	IC TC7SH32FU(T5RSOYJF)
IC402	6-706-489-01	s	IC TC7SH32FU(T5RSOYJF)
IC403	8-752-392-03	s	IC CXD1095BR
IC404	6-706-489-01	s	IC TC7SH32FU(T5RSOYJF)
IC405	8-759-392-77	s	IC SN74LVC245APW (E20)
IC406	8-759-392-77	s	IC SN74LVC245APW (E20)
IC408	8-759-678-06	s	IC CAT24WC02JI-TE13

(DPR-253 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC501	8-759-392-77	s IC	SN74LVC245APW (E20)
IC502	8-759-685-33	s IC	BU2500FV-E2
IC701	8-759-564-49	s IC	TC7W53FU-TE12R
IC702	8-759-392-77	s IC	SN74LVC245APW (E20)
IC703	8-759-447-77	s IC	TC7WH74FU (TE12R)
IC704	8-759-564-49	s IC	TC7W53FU-TE12R
IC705	8-759-327-01	s IC	NJM062V-TE2
IC706	8-759-564-49	s IC	TC7W53FU-TE12R
IC707	8-759-564-49	s IC	TC7W53FU-TE12R
IC708	6-706-487-01	s IC	TC7SH08FU(T5RSOYJF)
IC709	8-759-598-44	s IC	TC7WH08FK(TE85R)
IC710	8-759-564-49	s IC	TC7W53FU-TE12R
IC711	6-706-487-01	s IC	TC7SH08FU(T5RSOYJF)
IC712	6-706-478-01	s IC	TC7SET08FU(T5RSOJF)
IC713	6-706-487-01	s IC	TC7SH08FU(T5RSOYJF)
IC783	6-706-484-01	s IC	TC7SH04FU(T5RSOYJF)
IC901	8-759-327-01	s IC	NJM062V-TE2
IC902	8-759-327-01	s IC	NJM062V-TE2
IC903	6-704-976-01	s IC	ADR381ART-REEL7
L1	1-414-398-11	s	INDUCTOR (SMD) 10UH
L2	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L3	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L4	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L5	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L201	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L202	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L203	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L204	1-469-549-21	s	INDUCTOR, CHIP 1.0UH (LB2016)
L900	1-414-398-11	s	INDUCTOR (SMD) 10UH
L901	1-414-398-11	s	INDUCTOR (SMD) 10UH
L902	1-414-398-11	s	INDUCTOR (SMD) 10UH
L903	1-419-630-11	s	COIL, CHOKE 4.7UH
L904	1-414-398-11	s	INDUCTOR (SMD) 10UH
L905	1-414-398-11	s	INDUCTOR (SMD) 10UH
L906	1-414-398-11	s	INDUCTOR (SMD) 10UH
Q1	8-729-927-99	s	TRANSISTOR 2SC4617R
Q2	8-729-927-99	s	TRANSISTOR 2SC4617R
Q3	8-729-927-99	s	TRANSISTOR 2SC4617R
Q4	8-729-927-99	s	TRANSISTOR 2SC4617R
Q5	8-729-927-99	s	TRANSISTOR 2SC4617R
Q6	8-729-927-99	s	TRANSISTOR 2SC4617R
Q7	8-729-928-19	s	TRANSISTOR 2SA1774R
Q8	8-729-928-19	s	TRANSISTOR 2SA1774R
Q9	8-729-928-19	s	TRANSISTOR 2SA1774R
Q10	8-729-928-19	s	TRANSISTOR 2SA1774R
Q11	8-729-928-19	s	TRANSISTOR 2SA1774R
Q12	8-729-928-19	s	TRANSISTOR 2SA1774R
Q501	8-729-927-99	s	TRANSISTOR 2SC4617R
Q502	8-729-927-99	s	TRANSISTOR 2SC4617R
Q503	8-729-927-99	s	TRANSISTOR 2SC4617R
Q900	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q901	8-729-927-99	s	TRANSISTOR 2SC4617R
Q902	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q903	8-729-928-19	s	TRANSISTOR 2SA1774R
Q904	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q905	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
R1	1-208-911-11	s	RESISTOR, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R2	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R3	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R4	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R5	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R6	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R7	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R8	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R9	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R10	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R11	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R12	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R13	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R14	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R15	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R19	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R20	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R21	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R22	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R23	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R24	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R25	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R26	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R27	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R28	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R29	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R30	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R31	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R32	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R33	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R34	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R35	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R36	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R37	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R38	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R39	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R40	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R41	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R42	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R43	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R44	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R45	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R46	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R47	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R49	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R50	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R51	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R52	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R53	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R54	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R55	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R56	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R57	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R58	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R59	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R60	1-208-939-11	s	RESISTOR, CHIP 150K (1005)
R85	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R86	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R87	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R88	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R213	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R214	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R215	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R216	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R217	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R218	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R219	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R220	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R221	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R222	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R223	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R224	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R225	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R226	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R227	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R228	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R229	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R230	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R231	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R232	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R233	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R234	1-208-860-11	s	RESISTOR CHIP 75 1/16W (1005)
R235	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R236	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R237	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R238	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R239	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R240	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R241	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R242	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R243	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R244	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R245	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R246	1-208-860-11	s	RESISTOR CHIP 75 1/16W (1005)
R247	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R248	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R249	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R250	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R251	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R252	1-208-860-11	s	RESISTOR CHIP 75 1/16W (1005)
R253	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R254	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R255	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R256	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R257	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R258	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R259	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R260	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R261	1-208-860-11	s	RESISTOR CHIP 75 1/16W (1005)
R262	1-208-860-11	s	RESISTOR CHIP 75 1/16W (1005)
R263	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R264	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R265	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R266	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R267	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R268	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R269	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R270	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R271	1-208-860-11	s	RESISTOR CHIP 75 1/16W (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R272	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R273	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R274	1-208-675-11	s RESISTOR CHIP 470 1/16W (1005)
R341	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R342	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R343	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R344	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R345	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R346	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R347	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R348	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R401	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R402	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R403	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R404	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R405	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R406	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R407	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R408	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R409	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R410	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R411	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R412	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R413	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R414	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R415	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R416	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R417	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R418	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R419	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R501	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R502	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R503	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R504	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R505	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R506	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R507	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R508	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R509	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R510	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R511	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R512	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R701	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R702	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R703	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R704	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R705	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R706	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R707	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R708	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R709	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R710	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R711	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R712	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R713	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R714	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R715	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R716	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R717	1-208-935-11	s RESISTOR, CHIP 100K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R718	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R719	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R720	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R721	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R722	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R723	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R724	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R725	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R726	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R727	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R728	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R729	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R730	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R731	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R732	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R733	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R734	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R735	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R736	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R737	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R738	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R739	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R740	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R741	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R742	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R743	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R781	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R782	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R783	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R901	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R902	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R903	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R904	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R905	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R906	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R907	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R908	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R909	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R910	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R911	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R912	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R913	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R914	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R915	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R916	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R917	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
RB1	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB2	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB3	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB4	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB5	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB6	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB7	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB8	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB9	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB201	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB202	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB203	1-234-372-11	s RES, NETWORK 100X4 (1005)

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Ref. No. or Q'ty	Part No.	SP Description
RB204	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB205	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB206	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB207	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB208	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB209	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB300	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB301	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB302	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB303	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB304	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB305	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB306	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB310	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB311	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB312	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB313	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB314	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB315	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB401	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB402	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB403	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB404	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB405	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB406	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB407	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB408	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB409	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB410	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB411	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB412	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB413	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB414	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB415	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB416	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB417	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB418	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB419	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB420	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB421	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB422	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB423	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB501	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB502	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB503	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB504	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB505	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB506	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB507	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB508	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB509	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB510	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB511	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB512	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB701	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB702	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB703	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB704	1-234-372-11	s RES, NETWORK 100X4 (1005)

(DPR-253 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
TP1	1-535-757-11	s CHIP, CHECKER (CONNECTOR)

DR-567 BOARD (OPTION HKC-SV1)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1112-947-A	s MOUNTED CIRCUIT BOARD, DR-567
C1	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C3	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C4	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C5	1-127-573-11	s CAPACITOR,CERAMIC 1MFB(2012)
C7	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C8	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C9	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C10	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C12	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C13	1-165-989-11	s CAPACITOR, CERAMIC 10MF (2012)
C14	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C15	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C16	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C17	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C18	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C19	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C20	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C21	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C22	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C23	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C24	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C25	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C27	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C28	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C29	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C30	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C32	1-126-399-11	s CAPACITOR ELECT 10MF/35V(CHIP)
C33	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
CN1	1-764-093-21	o PIN, CONNECTOR (PC BOARD) 8P
CN3	1-695-480-21	o PIN, CONNECTOR (PC BOARD) 2P
CN4	1-778-646-11	o CONNECTOR, FFC (ZIF) 10P
CN5	1-764-079-21	s PIN, CONNECTOR (PC BOARD) 4P
CN6	1-580-057-11	s PIN,CONNECTOR 4P
D1	6-501-258-01	s DIODE CL-221PG-C-TS
D2	6-501-258-01	s DIODE CL-221PG-C-TS
D3	6-501-258-01	s DIODE CL-221PG-C-TS
D4	6-501-258-01	s DIODE CL-221PG-C-TS
D5	8-719-421-67	s DIODE MA132WK
FB1	1-469-667-21	s FERRITE, EMI (SMD)
FB2	1-400-834-11	s FERRITE, EMI (SMD) (1005)
FB3	1-400-834-11	s FERRITE, EMI (SMD) (1005)
IC1	6-702-749-01	s IC S-80928CNNB-G8YT2G
IC3	8-759-337-40	s IC NJM2904V(Te2)
IC4	8-759-337-40	s IC NJM2904V(Te2)
IC5	8-759-337-40	s IC NJM2904V(Te2)
IC6	8-759-460-72	s IC BA033FP
IC7	6-705-860-01	o IC HD64F3694FYV
IC8	8-759-337-40	s IC NJM2904V(Te2)
IC9	8-759-395-42	s IC AQV212S
IC10	8-759-592-48	s IC TC7SZ32FU(Te85R)
IC11	6-706-481-01	s IC TC7SET32FU(T5RSQJF)
L1	1-424-700-21	s COIL, CHOKE (SMD) 100UH
L2	1-414-404-11	s INDUCTOR (SMD) 100UH
L3	1-414-404-11	s INDUCTOR (SMD) 100UH
L4	1-414-404-11	s INDUCTOR (SMD) 100UH
Q1	8-729-807-51	s TRANSISTOR 2SD1623-S

(DR-567 BOARD (OPTION HKC-SV1))

Ref. No. or Q'ty	Part No.	SP Description
Q2	8-729-230-27	s TRANSISTOR 2SA1213Y-TE12L
Q3	8-729-807-51	s TRANSISTOR 2SD1623-S
Q4	8-729-230-27	s TRANSISTOR 2SA1213Y-TE12L
Q5	8-729-927-99	s TRANSISTOR 2SC4617R
R1	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R2	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R6	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R7	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R8	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R9	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R10	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R12	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R13	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R14	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R15	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R16	1-218-989-11	s RESISTOR,CHIP 1M 1/16W (1005)
R18	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R19	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R21	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R22	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R23	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R24	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R25	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R26	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R27	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R29	1-218-985-11	s RESISTOR CHIP 470K 1/16W(1005)
R30	1-208-943-11	s RESISTOR CHIP 220K
R32	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R33	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R34	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R36	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R37	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R38	1-220-258-11	s RESISTOR, CHIP 100 1/4W (3225)
R39	1-220-258-11	s RESISTOR, CHIP 100 1/4W (3225)
R40	1-220-258-11	s RESISTOR, CHIP 100 1/4W (3225)
R41	1-220-258-11	s RESISTOR, CHIP 100 1/4W (3225)
R42	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R43	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R44	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R45	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R46	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R47	1-208-943-11	s RESISTOR CHIP 220K
R48	1-218-985-11	s RESISTOR CHIP 470K 1/16W(1005)
R49	1-208-943-11	s RESISTOR CHIP 220K
R50	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R51	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R52	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R53	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R54	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R55	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R56	1-208-943-11	s RESISTOR CHIP 220K
R57	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R58	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R59	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R60	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R61	1-208-943-11	s RESISTOR CHIP 220K
R62	1-208-943-11	s RESISTOR CHIP 220K
R63	1-208-943-11	s RESISTOR CHIP 220K
R64	1-208-911-11	s RESISTOR, CHIP 10K (1005)

(DR-567 BOARD (OPTION HKC-SV1))

Ref. No. or Q'ty	Part No.	SP Description
R65	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R66	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R67	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R68	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R69	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R70	1-208-943-11	s RESISTOR CHIP 220K
R71	1-208-943-11	s RESISTOR CHIP 220K
R72	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R73	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R74	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R75	1-218-236-91	s RESISTOR,CHIP 1 1/4W
R76	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R77	1-218-953-11	s RESISTOR, CHIP 1K 1/16W
R79	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R81	1-218-953-11	s RESISTOR, CHIP 1K 1/16W
R82	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R83	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R85	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R86	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R87	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R88	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R90	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R93	1-208-675-11	s RESISTOR CHIP 470 1/16W (1005)
R94	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R95	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R96	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
RB1	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB2	1-234-375-21	s RES, NETWORK 1KX4 (1005)
S1	1-771-248-11	s SWITCH, TACT
S2	1-771-248-11	s SWITCH, TACT
S3	1-692-881-41	s SWITCH, SLIDE
S4	1-771-709-31	s SWITCH, SLIDE
X1	1-795-244-11	s VIBRATOR, CERAMIC

LED-421 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1052-804-A	s MOUNTED CIRCUIT BOARD, LED-421
C2	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
CN1	1-565-875-11	o PIN,CONNECTOR(PC BOARD)3P
D1	8-719-989-53	s LED CL-200HR-C-TSL
D2	8-719-989-53	s LED CL-200HR-C-TSL
D3	8-719-989-53	s LED CL-200HR-C-TSL
D4	8-719-989-53	s LED CL-200HR-C-TSL
D5	8-719-989-53	s LED CL-200HR-C-TSL
D6	8-719-989-53	s LED CL-200HR-C-TSL
D7	8-719-989-53	s LED CL-200HR-C-TSL
D8	8-719-989-53	s LED CL-200HR-C-TSL
D9	8-719-989-53	s LED CL-200HR-C-TSL
D10	8-719-989-53	s LED CL-200HR-C-TSL
D11	8-719-989-53	s LED CL-200HR-C-TSL
D12	8-719-989-53	s LED CL-200HR-C-TSL
D13	8-719-989-53	s LED CL-200HR-C-TSL
D14	8-719-989-53	s LED CL-200HR-C-TSL
D15	8-719-989-53	s LED CL-200HR-C-TSL
FB1	1-414-445-11	s FERRITE, EMI (SMD)
R1	1-220-238-11	s RESISTOR CHIP 10 1/4W (3225)
S2	1-570-610-11	s SWITCH,TOGGLE

MB-1042 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
pcs	A-1052-796-A	s	MOUNTED CIRCUIT BOARD, MB-1042
C1	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C201	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C202	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C203	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C204	1-165-629-11	s	CAPACITOR,CERAMIC 1MF B
C205	1-165-989-11	s	CAPACITOR, CERAMIC 10MF (2012)
C206	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C207	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C208	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C209	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C210	1-100-566-91	s	CAP, CHIP CERAMIC 0.1MF B 1608
C211	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C212	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C213	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C214	1-135-960-91	s	CAP, CHIP CERAMIC 10MF B(3225)
C215	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
CN4	1-580-056-21	s	PIN,CONNECTOR 3P
CN5	1-774-261-11	o	CONNECTOR, FFC (ZIF) 24P
CN6	1-784-629-11	o	CONNECTOR, BOARD TO BOARD 30P
CN7	1-695-320-11	o	PIN,CONNECTOR (2P) (SMD) (1.5MM)
CN8	1-695-320-11	o	PIN,CONNECTOR (2P) (SMD) (1.5MM)
CN201	1-764-093-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN202	1-580-756-21	s	PIN, CONNECTOR 7P
CN203	1-580-056-21	s	PIN,CONNECTOR 3P
D1	8-719-046-87	s	DIODE F1J6
D201	8-719-421-67	s	DIODE MA132WK
IC1	6-706-487-01	s	IC TC7SH08FU(T5RSOYJF)
IC201	8-759-041-46	s	IC L78M05TLL-SONY-TL
IC202	8-759-588-01	s	IC LTC1473CGN-E2
IC203	6-706-484-01	s	IC TC7SH04FU(T5RSOYJF)
IC204	6-706-487-01	s	IC TC7SH08FU(T5RSOYJF)
IC205	6-706-489-01	s	IC TC7SH32FU(T5RSOYJF)
IC206	6-706-489-01	s	IC TC7SH32FU(T5RSOYJF)
L201	1-414-854-41	s	INDUCTOR (SMD) 1000.0UH
Q201	6-550-697-01	s	TRANSISTOR HAT2164H-EL-E
Q202	6-550-697-01	s	TRANSISTOR HAT2164H-EL-E
Q203	6-550-697-01	s	TRANSISTOR HAT2164H-EL-E
Q204	6-550-697-01	s	TRANSISTOR HAT2164H-EL-E
R1	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R2	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R3	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R4	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R5	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R202	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R203	1-219-611-21	s	RESISTOR, CHIP 0.047 1W
R206	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R207	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R208	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R209	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R210	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R211	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)

OPM-48 BOARD (HDC-X310/X310K)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1112-943-A	s	MOUNTED CIRCUIT BOARD, OPM-48
C1	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C2	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C3	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C4	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C5	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C6	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C7	1-165-871-11	s	CAPACITOR,ELECT 22MF
C8	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C9	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C10	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C11	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C12	1-100-421-21	s	CAP, ELECT 220MF (6.3X5.9)
C13	1-165-871-11	s	CAPACITOR,ELECT 22MF
C14	1-165-871-11	s	CAPACITOR,ELECT 22MF
C15	1-165-871-11	s	CAPACITOR,ELECT 22MF
C16	1-165-871-11	s	CAPACITOR,ELECT 22MF
C17	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C18	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C19	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C20	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C21	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF
C22	1-165-871-11	s	CAPACITOR,ELECT 22MF
C23	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C24	1-165-871-11	s	CAPACITOR,ELECT 22MF
C25	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C26	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C27	1-165-871-11	s	CAPACITOR,ELECT 22MF
C28	1-127-820-11	s	CAPACITOR, SQUARE CHIP 4.7MF
CN2	1-764-093-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN3	1-817-456-21	s	CONNECTOR, COAXIAL
CN4	1-817-456-21	s	CONNECTOR, COAXIAL
CN5	1-817-456-21	s	CONNECTOR, COAXIAL
D303	8-719-421-71	s	DIODE MA132WA
D304	8-719-421-71	s	DIODE MA132WA
IC1	6-700-655-01	s	IC LT1963ES8#TR
IC2	6-700-655-01	s	IC LT1963ES8#TR
IC3	6-700-655-01	s	IC LT1963ES8#TR
IC5	6-703-858-01	s	IC NJU7042F-TE1
L1	1-412-987-31	s	INDUCTOR (SMALL TYPE) 4.70UH
L2	1-412-987-31	s	INDUCTOR (SMALL TYPE) 4.70UH
L3	1-412-987-31	s	INDUCTOR (SMALL TYPE) 4.70UH
L4	1-412-987-31	s	INDUCTOR (SMALL TYPE) 4.70UH
L5	1-412-987-31	s	INDUCTOR (SMALL TYPE) 4.70UH
L6	1-412-987-31	s	INDUCTOR (SMALL TYPE) 4.70UH
L7	1-412-987-31	s	INDUCTOR (SMALL TYPE) 4.70UH
Q314	8-729-928-81	s	TRANSISTOR DTC144EE
Q315	8-729-928-81	s	TRANSISTOR DTC144EE
R1	1-208-923-11	s	RESISTOR, CHIP 33K (1005)
R2	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R3	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R4	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R5	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R7	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R8	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R9	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)

(OPM-48 BOARD (HDC-X310/X310K))

Ref. No. or Q'ty	Part No.	SP Description
R10	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R11	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R12	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R13	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R14	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R16	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R17	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R18	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R19	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R20	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R21	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R24	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R26	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R27	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R28	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R29	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R30	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R31	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
RB1	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB2	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB3	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB4	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB5	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB6	1-234-381-21	s RES, NETWORK 100KX4 (1005)

OPM-49 BOARD (HDC-X310/X310K)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1112-945-A	s MOUNTED CIRCUIT BOARD, OPM-49
1pc	4-669-854-01	s CAGE, TOP
C1	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C2	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C3	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C4	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C5	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C6	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C7	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C8	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C9	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C10	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C11	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C12	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C13	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C14	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C15	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C16	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C17	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C18	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C19	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C20	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C21	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C22	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C23	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C24	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C25	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C26	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C27	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C28	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C50	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C51	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C52	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C53	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C54	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C55	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C56	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C57	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C58	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C59	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C60	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C61	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C62	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C63	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C64	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C65	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C66	1-165-871-11	s CAPACITOR,ELECT 22MF
C67	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C68	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C69	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C70	1-100-421-21	s CAP, ELECT 220MF (6.3X5.9)
C71	1-165-871-11	s CAPACITOR,ELECT 22MF
C72	1-165-871-11	s CAPACITOR,ELECT 22MF
C73	1-100-421-21	s CAP, ELECT 220MF (6.3X5.9)
C74	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C75	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C76	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C77	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF

(OPM-49 BOARD (HDC-X310/X310K))

Ref. No. or Q'ty	Part No.	SP Description
C78	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C79	1-164-943-11	s CAPACITOR,CHIP CERAMIC 0.01MF
C80	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C81	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C82	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C83	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C84	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C85	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C86	1-100-421-21	s CAP, ELECT 220MF (6.3X5.9)
C87	1-100-421-21	s CAP, ELECT 220MF (6.3X5.9)
C88	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C89	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C90	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C91	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C92	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C93	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C94	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C95	1-119-923-11	s CAPACITOR,CHIP CERAMIC 0.047MF
C96	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C97	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C98	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C99	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C100	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C101	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C102	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C103	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C104	1-112-541-21	s CAP, ELECT 10MF (4X5)
C105	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C106	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C107	1-112-541-21	s CAP, ELECT 10MF (4X5)
C108	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C109	1-165-871-11	s CAPACITOR,ELECT 22MF
C110	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C111	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C112	1-165-871-11	s CAPACITOR,ELECT 22MF
C113	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C114	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C115	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C116	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C117	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C118	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C119	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
CN2	1-817-176-11	s CONNECTOR, SFP FIBER CHANNEL
CN3	1-817-456-21	s CONNECTOR, COAXIAL
CN4	1-817-456-21	s CONNECTOR, COAXIAL
CN5	1-817-456-21	s CONNECTOR, COAXIAL
D50	8-719-157-94	s DIODE RD3.3SB
D51	8-719-157-94	s DIODE RD3.3SB
D52	8-719-071-10	s DIODE CL-191HR-CD-T
D53	8-719-071-10	s DIODE CL-191HR-CD-T
D54	8-719-071-10	s DIODE CL-191HR-CD-T
D55	8-719-071-10	s DIODE CL-191HR-CD-T
IC50	6-700-667-01	s IC TLK2501IRCP
IC51	8-759-592-47	s IC TC7SZ08FU(TE85R)
IC52	8-759-592-44	s IC TC7SZ04FU(TE85R)
IC53	8-759-669-69	s IC TLC7733IPWR-12
IC54	8-759-669-75	s IC TLC2932IPWR

(OPM-49 BOARD (HDC-X310/X310K))

Ref. No. or Q'ty	Part No.	SP Description
IC55	6-703-858-01	s IC NJU7042F-TE1
IC56	6-703-858-01	s IC NJU7042F-TE1
IC57	8-759-669-75	s IC TLC2932IPWR
L50	1-412-987-31	s INDUCTOR (SMALL TYPE) 4.70UH
L51	1-412-987-31	s INDUCTOR (SMALL TYPE) 4.70UH
L52	1-412-979-21	s INDUCTOR (SMALL TYPE)
L53	1-412-979-21	s INDUCTOR (SMALL TYPE)
L54	1-414-404-11	s INDUCTOR (SMD) 100UH
L55	1-414-404-11	s INDUCTOR (SMD) 100UH
L56	1-412-979-21	s INDUCTOR (SMALL TYPE)
L57	1-412-979-21	s INDUCTOR (SMALL TYPE)
L58	1-414-404-11	s INDUCTOR (SMD) 100UH
R1	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R2	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R3	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R4	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R5	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R6	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R7	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R8	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R9	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R10	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R11	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R12	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R13	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R14	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R15	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R16	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R17	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R18	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R50	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R51	1-208-652-11	s RESISTOR CHIP 51 1/16W (1005)
R52	1-208-652-11	s RESISTOR CHIP 51 1/16W (1005)
R53	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R54	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R55	1-208-652-11	s RESISTOR,CHIP 51 1/16W (1005)
R56	1-208-652-11	s RESISTOR CHIP 51 1/16W (1005)
R57	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R59	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R60	1-220-174-11	s RESISTOR, CHIP 200 1/16W(1005)
R61	1-208-885-11	s RESISTOR, CHIP 820 1/16W(1005)
R62	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R63	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R64	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R65	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R66	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R67	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R68	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R69	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R70	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R71	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R72	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R73	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R74	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R75	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R76	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R77	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R78	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)

(OPM-49 BOARD (HDC-X310/X310K))

Ref. No. or Q'ty	Part No.	SP Description
R79	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R81	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R83	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R86	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R87	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R88	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R89	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R90	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R91	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R92	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R93	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R95	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R96	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R97	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R98	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R99	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R100	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R101	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R102	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R103	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
RB1	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB2	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB3	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB4	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB5	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB6	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB7	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB8	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB9	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB10	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB11	1-234-370-11	s RES, NETWORK 22X4 (1005)
RB12	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB13	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB14	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB15	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB50	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB51	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB52	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB53	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB54	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB55	1-234-369-21	s RES, NETWORK 10X4 (1005)
RB56	1-234-369-21	s RES, NETWORK 10X4 (1005)
RB57	1-234-369-21	s RES, NETWORK 10X4 (1005)
RB58	1-234-369-21	s RES, NETWORK 10X4 (1005)
RB59	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB60	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB61	1-234-378-11	s RES, NETWORK 10KX4 (1005)
RB62	1-234-372-11	s RES, NETWORK 100X4 (1005)
S50	1-692-270-41	s SWITCH, SLIDE
S51	1-692-271-31	s SWITCH, SLIDE
X50	1-813-559-11	s OSCILLATOR, CRYSTAL (VCXO)
X51	1-813-558-11	s OSCILLATOR, CRYSTAL (VCXO)

PSW-83 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1052-805-A	s MOUNTED CIRCUIT BOARD, PSW-83
C1	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
CN1	1-580-056-21	s PIN,CONNECTOR 3P
D1	8-719-970-07	s LED MPG3371X-150
R1	1-216-813-11	s RESISTOR, CHIP 220 1/10W 1608
S1	1-570-606-11	s SWITCH,TOGGLE

RE-218 BOARD

*1: [Board No. suffix 12, 13]

*2: [Board No. suffix 14 -]

Ref. No. or Q'ty	Part No.	SP	Description
lpc	A-1053-687-A	s	RE ASSY (This assembly includes the RE-219 mounted circuit board.)
C1	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C2	1-100-552-21	s	CAPACITOR, ELECT 10MF
C4	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C5	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C6	1-165-947-91	s	CAP, CHIP CERAMIC 2.2MF (3225)
C8	1-127-760-11	s	CAPACITOR,CERAMIC 4.7MF/6.3V
C10	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C11	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C12	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C13	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C14	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C15	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C16	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C17	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C18	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C19	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C20	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C21	1-100-743-91	s	CAPACITOR,CERAMIC2.2MF B(2012)
C22	1-127-760-11	s	CAPACITOR,CERAMIC 4.7MF/6.3V
C23	1-127-760-11	s	CAPACITOR,CERAMIC 4.7MF/6.3V
C24	1-127-760-11	s	CAPACITOR,CERAMIC 4.7MF/6.3V
C26	1-164-935-11	s	CAPACITOR,CHIP CERAMIC 470PF
C27	1-127-760-11	s	CAPACITOR,CERAMIC 4.7MF/6.3V
C28	1-127-760-11	s	CAPACITOR,CERAMIC 4.7MF/6.3V
C35	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C36	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C37	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C38	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C39	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C40	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C41	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C42	1-107-819-11	s	CAP,CERAMIC 22000PF/16V(1005)
C43	1-100-552-21	s	CAPACITOR, ELECT 10MF
C44	1-100-552-21	s	CAPACITOR, ELECT 10MF
C45	1-100-552-21	s	CAPACITOR, ELECT 10MF
C46	1-100-552-21	s	CAPACITOR, ELECT 10MF
C47	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C48	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C49	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C50	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C51	1-131-998-11	s	CAP, SOLID ELECT 82MF 6.3 V
C52	1-131-998-11	s	CAP, SOLID ELECT 82MF 6.3 V
C53	1-131-998-11	s	CAP, SOLID ELECT 82MF 6.3 V
C54	1-135-342-11	s	CAPACITOR,SOLID ELECT 56MF
C55	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C56	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C57	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C58	1-131-999-11	s	CAPACITOR,SOLID ELECT 150MF
C59	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C60	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C61	1-135-341-11	s	CAPACITOR,SOLID ELECT 330MF
C62	1-131-999-11	s	CAPACITOR,SOLID ELECT 150MF
C63	1-135-343-11	s	CAPACITOR,SOLID ELECT 120MF

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Ref. No. or Q'ty	Part No.	SP	Description
C64	1-135-343-11	s	CAPACITOR,SOLID ELECT 120MF
C66	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C67	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C68	1-164-937-11	s	CAPACITOR,CHIP CERAMIC 1000PF
CN3	*2 1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P
D1	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D2	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D3	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D4	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D5	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D6	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D7	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D8	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D9	8-719-938-75	s	DIODE SB05-05CP (RECTI)
D10	8-719-016-84	s	DIODE 02DZ2.0-TPH3
D11	8-719-991-00	s	DIODE DAP222
D12	8-719-991-00	s	DIODE DAP222
D13	8-719-991-00	s	DIODE DAP222
E1	1-535-877-22	s	CHIP,CHECKER (TEST POINT)
FB1	1-469-379-11	s	FERRITE, EMI (SMD)
FB2	1-469-379-11	s	FERRITE, EMI (SMD)
FB3	*1 1-469-379-11	s	FERRITE, EMI (SMD)
FB4	*1 1-469-379-11	s	FERRITE, EMI (SMD)
IC1	8-759-183-53	s	IC TL431CPK-E2
IC2	8-759-338-95	s	IC NJM2903V (TE2)
IC3	8-759-183-53	s	IC TL431CPK-E2
IC4	8-759-338-95	s	IC NJM2903V (TE2)
IC5	8-759-144-72	s	IC UPC358G2-E2
IC6	8-759-669-64	s	IC TL1451ACPWR-12
IC7	8-759-669-64	s	IC TL1451ACPWR-12
L1	1-410-283-11	s	INDUCTOR
L2	1-424-643-11	s	COIL, CHOKE 10UH
L3	1-424-643-11	s	COIL, CHOKE 10UH
L4	1-424-643-11	s	COIL, CHOKE 10UH
L5	1-424-643-11	s	COIL, CHOKE 10UH
L6	1-409-579-11	s	COIL, CHOKE 8.2UH
L7	1-410-283-11	s	INDUCTOR
L8	1-410-283-11	s	INDUCTOR
L9	1-410-283-11	s	INDUCTOR
L10	1-410-283-11	s	INDUCTOR
L11	1-424-643-11	s	COIL, CHOKE 10UH
L12	1-424-643-11	s	COIL, CHOKE 10UH
L13	1-424-643-11	s	COIL, CHOKE 10UH
L14	1-424-643-11	s	COIL, CHOKE 10UH
L15	1-406-864-21	s	COIL,CHOKE 4.7UH
Q1	8-729-927-99	s	TRANSISTOR 2SC4617R
Q2	8-729-928-27	s	TRANSISTOR DTA144EE
Q3	8-729-928-81	s	TRANSISTOR DTC144EE
Q4	8-729-929-26	s	TRANSISTOR DTC114TE
Q5	8-729-928-19	s	TRANSISTOR 2SA1774R
Q6	8-729-929-26	s	TRANSISTOR DTC114TE
Q7	8-729-929-26	s	TRANSISTOR DTC114TE
Q8	8-729-929-26	s	TRANSISTOR DTC114TE
Q9	8-729-929-26	s	TRANSISTOR DTC114TE
Q10	8-729-929-26	s	TRANSISTOR DTC114TE
Q11	8-729-929-26	s	TRANSISTOR DTC114TE

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Ref. No. or Q'ty	Part No.	SP Description
Q12	8-729-012-35	s TRANSISTOR 2SK711-BL
Q13	8-729-012-35	s TRANSISTOR 2SK711-BL
Q14	8-729-012-35	s TRANSISTOR 2SK711-BL
Q15	8-729-012-35	s TRANSISTOR 2SK711-BL
Q16	8-729-927-99	s TRANSISTOR 2SC4617R
Q17	8-729-928-19	s TRANSISTOR 2SA1774R
Q18	8-729-927-99	s TRANSISTOR 2SC4617R
Q19	8-729-928-19	s TRANSISTOR 2SA1774R
Q20	8-729-927-99	s TRANSISTOR 2SC4617R
Q21	8-729-928-19	s TRANSISTOR 2SA1774R
Q22	8-729-927-99	s TRANSISTOR 2SC4617R
Q23	8-729-928-19	s TRANSISTOR 2SA1774R
Q24	8-729-045-53	s TRANSISTOR SI4431DY-T1
Q25	8-729-045-53	s TRANSISTOR SI4431DY-T1
Q26	8-729-045-53	s TRANSISTOR SI4431DY-T1
Q27	8-729-045-53	s TRANSISTOR SI4431DY-T1
Q28	8-729-047-85	s TRANSISTOR SI4416DY-T1
Q29	8-729-047-85	s TRANSISTOR SI4416DY-T1
Q30	8-729-047-85	s TRANSISTOR SI4416DY-T1
Q31	8-729-047-85	s TRANSISTOR SI4416DY-T1
Q32	8-729-928-90	s TRANSISTOR DTC114EE
Q33	8-729-928-90	s TRANSISTOR DTC114EE
Q34	8-729-928-27	s TRANSISTOR DTA144EE
Q35	8-729-928-27	s TRANSISTOR DTA144EE
R1	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R2	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R3	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R4	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R5	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R6	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R7	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R8	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R9	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R10	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R11	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R12	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R13	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R14	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R15	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R17	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R18	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R19	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R20	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R21	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R22	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R23	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R24	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R25	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R26	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R27	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R28	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R29	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R30	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R31	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R32	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R33	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R34	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R35	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R37	1-208-911-11	s RESISTOR, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R38	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R39	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R40	1-208-931-11	s RESISTOR, CHIP 68K (1005)
R41	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R42	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R43	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R44	1-208-679-11	s RESISTOR CHIP 680 1/16W (1005)
R45	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R46	1-208-687-11	s RESISTOR CHIP 1.5K 1/16W (1005)
R47	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R48	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R49	1-208-663-11	s RESISTOR CHIP 150 1/16W (1005)
R50	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R51	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R52	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R53	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R54	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R55	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R56	1-208-679-11	s RESISTOR CHIP 680 1/16W (1005)
R57	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R58	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R59	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R60	1-208-943-11	s RESISTOR CHIP 220K
R61	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R62	1-208-943-11	s RESISTOR CHIP 220K
R63	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R64	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R65	1-208-943-11	s RESISTOR CHIP 220K
R66	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R67	1-208-943-11	s RESISTOR CHIP 220K
R68	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R69	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R70	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R71	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R72	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R73	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R74	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R75	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R76	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R77	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R78	1-208-939-11	s RESISTOR, CHIP 150K (1005)
R79	1-208-939-11	s RESISTOR, CHIP 150K (1005)
R80	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R81	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R82	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R83	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R84	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R85	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R86	1-218-939-11	s RESISTOR, CHIP 68 1/16W (1005)
R87	1-218-939-11	s RESISTOR, CHIP 68 1/16W (1005)
R88	1-218-939-11	s RESISTOR, CHIP 68 1/16W (1005)
R89	1-218-939-11	s RESISTOR, CHIP 68 1/16W (1005)
R90	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R91	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R92	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R93	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R94	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R95	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R96	1-208-911-11	s RESISTOR, CHIP 10K (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R97	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R98	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R99	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R100	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R101	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R102	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R103	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R104	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R105	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R106	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R107	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R108	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R109	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R110	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R111	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R112	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R113	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R114	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R115	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R116	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R117	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R118	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R119	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R120	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R121	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R122	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R123	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R124	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R125	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R126	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R127	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R128	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R129	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R131	*2 1-216-295-91	s CONDUCTOR, CHIP (2012)
R132	*2 1-216-295-91	s CONDUCTOR, CHIP (2012)

RE-219 BOARD

*1: [Board No. suffix 14 -]

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1053-687-A	s RE ASSY (This assembly includes the RE-218 mounted circuit board.)
C2	1-100-581-81	s CHIP CERAMIC 0.0047MF B1005
C4	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C5	1-107-819-11	s CAP,CERAMIC 22000PF/16V(1005)
C6	1-107-819-11	s CAP,CERAMIC 22000PF/16V(1005)
C7	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C8	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C9	1-164-217-11	s CAPACITOR,CERAMIC 150PF/50V CH
C10	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C11	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C12	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C13	1-100-743-91	s CAPACITOR,CERAMIC2.2MF B(2012)
C14	1-100-743-91	s CAPACITOR,CERAMIC2.2MF B(2012)
C15	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C16	1-127-760-11	s CAPACITOR,CERAMIC 4.7MF/6.3V
C17	1-127-760-11	s CAPACITOR,CERAMIC 4.7MF/6.3V
C20	1-127-760-11	s CAPACITOR,CERAMIC 4.7MF/6.3V
C21	1-100-743-91	s CAPACITOR,CERAMIC2.2MF B(2012)
C23	1-164-935-11	s CAPACITOR,CHIP CERAMIC 470PF
C27	1-107-819-11	s CAP,CERAMIC 22000PF/16V(1005)
C28	1-107-819-11	s CAP,CERAMIC 22000PF/16V(1005)
C29	1-107-819-11	s CAP,CERAMIC 22000PF/16V(1005)
C30	1-107-819-11	s CAP,CERAMIC 22000PF/16V(1005)
C31	1-107-819-11	s CAP,CERAMIC 22000PF/16V(1005)
C32	1-107-819-11	s CAP,CERAMIC 22000PF/16V(1005)
C33	1-100-552-21	s CAPACITOR, ELECT 10MF
C34	1-100-552-21	s CAPACITOR, ELECT 10MF
C35	1-100-552-21	s CAPACITOR, ELECT 10MF
C36	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C37	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C38	1-131-998-11	s CAP, SOLID ELECT 82MF 6.3 V
C39	1-131-998-11	s CAP, SOLID ELECT 82MF 6.3 V
C40	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C41	1-131-998-11	s CAP, SOLID ELECT 82MF 6.3 V
C42	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C43	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C44	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C45	1-131-999-11	s CAPACITOR,SOLID ELECT 150MF
C46	1-131-999-11	s CAPACITOR,SOLID ELECT 150MF
C47	1-131-999-11	s CAPACITOR,SOLID ELECT 150MF
C48	1-125-827-11	s CAPACITOR,CERAMIC 1MF/25V
C49	1-100-552-21	s CAPACITOR, ELECT 10MF
C50	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C51	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C52	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C53	1-135-347-11	s CAP, SOLID ELECT 82MF
C54	1-137-757-21	s CAP, ALUMINIUM SOLID ELECT
C55	1-100-627-21	s CAPACITOR, CHIP ELECT10MF6358
C56	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C57	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C58	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C59	1-135-347-11	s CAP, SOLID ELECT 82MF
C60	1-135-349-11	s CAPACITOR,SOLID ELECT 22MF 20V
C61	1-100-627-21	s CAPACITOR, CHIP ELECT10MF6358

(RE-219 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
CN3	*2 1-764-078-11	s PIN, CONNECTOR (PC BOARD) 3P
D1	8-719-938-75	s DIODE SB05-05CP (RECTI)
D2	8-719-938-75	s DIODE SB05-05CP (RECTI)
D3	8-719-938-75	s DIODE SB05-05CP (RECTI)
D4	8-719-938-75	s DIODE SB05-05CP (RECTI)
D5	8-719-938-75	s DIODE SB05-05CP (RECTI)
D6	8-719-938-75	s DIODE SB05-05CP (RECTI)
D7	8-719-991-00	s DIODE DAP222
D8	8-719-072-43	s DIODE RB050L-40TE25
D9	8-719-037-41	s DIODE RD20SB-T1
D10	8-719-987-21	s DIODE SB02-09CP-TB
D11	8-719-987-21	s DIODE SB02-09CP-TB
D12	8-719-989-93	s DIODE SB01-15CP
D13	8-719-989-93	s DIODE SB01-15CP
D14	8-719-938-75	s DIODE SB05-05CP (RECTI)
D15	8-719-991-00	s DIODE DAP222
E1	1-535-877-22	s CHIP,CHECKER (TEST POINT)
FB1	1-469-379-11	s FERRITE, EMI (SMD)
IC1	8-759-183-53	s IC TL431CPK-E2
IC2	8-759-669-64	s IC TL1451ACPWR-12
IC3	8-759-669-64	s IC TL1451ACPWR-12
L1	1-424-643-11	s COIL, CHOKO 10UH
L2	1-424-643-11	s COIL, CHOKO 10UH
L3	1-424-643-11	s COIL, CHOKO 10UH
L4	1-410-283-11	s INDUCTOR
L5	1-410-283-11	s INDUCTOR
L6	1-410-283-11	s INDUCTOR
L7	1-424-643-11	s COIL, CHOKO 10UH
L8	1-424-643-11	s COIL, CHOKO 10UH
L9	1-424-643-11	s COIL, CHOKO 10UH
L10	1-424-643-11	s COIL, CHOKO 10UH
L11	1-414-398-11	s INDUCTOR (SMD) 10UH
L12	1-414-398-11	s INDUCTOR (SMD) 10UH
L13	1-414-852-31	s INDUCTOR (SMD) 470.0UH
Q1	8-729-929-26	s TRANSISTOR DTC114TE
Q2	8-729-929-26	s TRANSISTOR DTC114TE
Q3	8-729-929-26	s TRANSISTOR DTC114TE
Q4	8-729-929-26	s TRANSISTOR DTC114TE
Q5	8-729-929-26	s TRANSISTOR DTC114TE
Q6	8-729-929-26	s TRANSISTOR DTC114TE
Q7	8-729-012-35	s TRANSISTOR 2SK711-BL
Q8	8-729-012-35	s TRANSISTOR 2SK711-BL
Q9	8-729-012-35	s TRANSISTOR 2SK711-BL
Q10	8-729-927-99	s TRANSISTOR 2SC4617R
Q11	8-729-928-19	s TRANSISTOR 2SA1774R
Q12	8-729-927-99	s TRANSISTOR 2SC4617R
Q13	8-729-928-19	s TRANSISTOR 2SA1774R
Q14	8-729-927-99	s TRANSISTOR 2SC4617R
Q15	8-729-928-19	s TRANSISTOR 2SA1774R
Q16	8-729-045-53	s TRANSISTOR SI4431DY-T1
Q17	8-729-045-53	s TRANSISTOR SI4431DY-T1
Q18	8-729-045-53	s TRANSISTOR SI4431DY-T1
Q19	8-729-047-85	s TRANSISTOR SI4416DY-T1
Q20	8-729-047-85	s TRANSISTOR SI4416DY-T1
Q21	8-729-047-85	s TRANSISTOR SI4416DY-T1
Q22	8-729-927-99	s TRANSISTOR 2SC4617R

(RE-219 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q23	8-729-012-35	s TRANSISTOR 2SK711-BL
Q24	8-729-927-99	s TRANSISTOR 2SC4617R
Q25	8-729-928-19	s TRANSISTOR 2SA1774R
Q26	6-550-022-01	s TRANSISTOR SI9407AEY-T1
Q27	8-729-927-99	s TRANSISTOR 2SC4617R
R1	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R2	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R3	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R4	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R5	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R6	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R7	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R8	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R9	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R10	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R11	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R12	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R13	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R14	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R15	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R16	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R17	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R18	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R19	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R20	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R21	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R22	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R23	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R24	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R25	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R26	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R27	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R28	1-208-943-11	s RESISTOR CHIP 220K
R29	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R30	1-208-943-11	s RESISTOR CHIP 220K
R31	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R32	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R34	1-208-943-11	s RESISTOR CHIP 220K
R35	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R36	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R37	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R38	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R39	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R40	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R41	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R42	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R43	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R44	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R45	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R46	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R47	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R48	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R49	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R50	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R51	1-208-711-11	s RESISTOR CHIP 15K 1/16W (1005)
R52	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R53	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R54	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R55	1-218-939-11	s RESISTOR, CHIP 68 1/16W (1005)

(RE-219 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R56	1-218-939-11	s RESISTOR, CHIP 68 1/16W (1005)
R57	1-218-939-11	s RESISTOR, CHIP 68 1/16W (1005)
R58	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R59	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R60	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R61	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R62	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R63	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R64	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R65	1-208-703-11	s RESISTOR,CHIP 6.8K 1/16W(1005)
R66	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R67	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R68	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R69	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R70	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R71	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R72	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R73	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R74	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R75	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R76	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R77	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R79	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R80	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R81	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R82	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R83	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R84	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R85	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R86	1-218-939-11	s RESISTOR, CHIP 68 1/16W (1005)
R87	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R89	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R90	1-208-931-11	s RESISTOR, CHIP 68K (1005)
R91	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R92	1-208-679-11	s RESISTOR CHIP 680 1/16W (1005)
R93	1-208-927-11	s RESISTOR, CHIP 47K 1/16W(1005)
R94	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R95	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R96	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R97	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R98	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R99	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R100	1-208-911-11	s RESISTOR, CHIP 10K (1005)
T1	1-443-315-11	s TRANSFORMER, DC-DC CONVERTER
TP1	1-535-877-22	s CHIP,CHECKER (TEST POINT)

SE-760 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1052-803-A	s MOUNTED CIRCUIT BOARD, SE-760
C1	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
CN1	1-580-057-11	s PIN,CONNECTOR 4P
PH1	6-600-300-01	s IC NJL5901R
PH2	6-600-300-01	s IC NJL5901R
R1	1-216-817-11	s RESISTOR,CHIP 470 1/10W 1608
R2	1-216-817-11	s RESISTOR,CHIP 470 1/10W 1608

SE-804 BOARD (OPTION HKC-SV1)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1112-948-A	s MOUNTED CIRCUIT BOARD, SE-804
C2	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C4	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
C5	1-135-960-91	s CAP, CHIP CERAMIC 10MF B(3225)
CN1	1-778-646-11	o CONNECTOR, FFC (ZIF) 10P
D1	8-719-421-67	s DIODE MA132WK
IC1	8-759-234-08	s IC TA78L05F
L1	1-414-404-11	s INDUCTOR (SMD) 100UH

SS-99 BOARD

*1: [Board No. suffix 12]
*2: [Board No. suffix 13 -]

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1057-708-A	s MOUNTED CIRCUIT BOARD, SS-99
C1	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C2	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C3	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C4	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C5	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C6	1-165-989-11	s CAPACITOR, CERAMIC 10MF (2012)
C7	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C8	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C9	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C10	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C11	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C12	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C13	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C14	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C15	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C16	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C17	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50V
C18	1-164-858-11	s CAPACITOR,CERAMIC 22PF/50V
C19	1-164-858-11	s CAPACITOR,CERAMIC 22PF/50V
C20	1-164-882-11	s CAPACITOR,CERAMIC 220PF/16V CH
C21	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C22	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C23	1-165-989-11	s CAPACITOR, CERAMIC 10MF (2012)
C24	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C25	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C26	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C27	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C28	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C29	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C30	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C31	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C32	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C33	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C34	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C35	1-165-989-11	s CAPACITOR, CERAMIC 10MF (2012)
C36	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C37	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C38	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C39	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C40	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C41	1-165-989-11	s CAPACITOR, CERAMIC 10MF (2012)
C42	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C43	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
CN2	1-764-093-21	o PIN, CONNECTOR (PC BOARD) 8P
E1	*2 1-535-877-22	s CHIP, CHECKER
E2	*1 1-535-757-11	s CHIP, CHECKER (CONNECTOR)
E2	*2 1-535-877-22	s CHIP, CHECKER
E3	*2 1-535-877-22	s CHIP, CHECKER
IC1	8-759-561-46	s IC AD8014ART-REEL7
IC2	8-759-564-49	s IC TC7W53FU-TE12R
IC3	8-759-327-01	s IC NJM062V-TE2
IC4	8-759-980-44	s IC TL712CPS
IC5	6-706-487-01	s IC TC7SH08FU(T5RSOYJF)

(SS-99 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC6	8-759-561-46	s IC AD8014ART-REEL7
IC7	8-759-987-27	s IC LM1881M
IC8	6-804-867-01	s IC EPM7064-SS99-IC8-V1.00
IC9	8-759-598-44	s IC TC7WH08FK(TE85R)
IC10	8-759-327-01	s IC NJM062V-TE2
IC11	8-759-344-12	s IC GS4981CTA
IC12	8-759-669-75	s IC TLC2932IPWR
IC14	6-706-478-01	s IC TC7SET08FU(T5RSOJF)
IC15	6-706-478-01	s IC TC7SET08FU(T5RSOJF)
L1	1-414-170-41	s INDUCTOR, CHIP 100UH (2012)
L2	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L3	1-412-987-31	s INDUCTOR (SMALL TYPE) 4.70UH
Q1	8-729-927-99	s TRANSISTOR 2SC4617R
Q2	8-729-928-19	s TRANSISTOR 2SA1774R
Q3	8-729-928-19	s TRANSISTOR 2SA1774R
R1	1-208-860-11	s RESISTOR CHIP 75 1/16W (1005)
R3	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R4	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R5	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W (1005)
R6	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W (1005)
R7	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R8	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R9	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R10	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R11	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R12	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W (1005)
R13	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R14	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R16	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R17	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W (1005)
R18	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W (1005)
R19	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R21	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R22	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R23	1-208-943-11	s RESISTOR CHIP 220K
R24	1-218-985-11	s RESISTOR CHIP 470K 1/16W (1005)
R25	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R26	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R27	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R28	1-208-675-11	s RESISTOR CHIP 470 1/16W (1005)
R29	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R30	1-208-675-11	s RESISTOR CHIP 470 1/16W (1005)
R31	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R32	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R33	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R34	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R35	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R36	1-208-943-11	s RESISTOR CHIP 220K
R37	1-218-985-11	s RESISTOR CHIP 470K 1/16W (1005)
R38	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R39	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R40	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R41	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R42	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R43	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R44	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R45	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R47	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)

(SS-99 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R48	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R49	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R50	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R51	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R52	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)

SW-1212 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1052-799-A	s MOUNTED CIRCUIT BOARD, SW-1212
C1	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C2	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C3	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C4	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C5	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C6	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C7	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C8	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
CN1	1-785-840-21	o CONNECTOR, FFC (ZIF) 15P
D1	8-719-071-12	s DIODE CL-200D-C-TU
D2	8-719-071-12	s DIODE CL-200D-C-TU
D3	8-719-071-12	s DIODE CL-200D-C-TU
R1	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R2	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R3	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R4	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R5	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R6	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R7	1-216-809-11	s RESISTOR,CHIP 100 1/10W 1608
R8	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R9	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R10	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
R11	1-216-821-11	s RESISTOR,CHIP 1.0K 1/10W(1608)
S1	1-692-135-21	s SWITCH,KEY BOARD
S2	1-692-135-21	s SWITCH,KEY BOARD
S3	1-692-135-21	s SWITCH,KEY BOARD
S4	1-692-135-21	s SWITCH,KEY BOARD
S5	1-692-270-41	s SWITCH, SLIDE

TG-240 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1057-709-A	s MOUNTED CIRCUIT BOARD, TG-240
C1	1-165-629-11	s CAPACITOR,CERAMIC 1MF B
C2	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C3	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C4	1-127-692-11	s CAP, CHIP CERAMIC 10MF B 3216
C5	1-165-629-11	s CAPACITOR,CERAMIC 1MF B
C6	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C7	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C8	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C9	1-135-646-11	s CAPACITOR,CHIP FILM 1MF 16V
C10	1-164-230-11	s CAPACITOR,CERAMIC 220PF/50V
C11	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C12	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C13	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C14	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C15	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C16	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C17	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C18	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C19	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C20	1-127-573-11	s CAPACITOR,CERAMIC 1MFB(2012)
C21	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C22	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C23	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C24	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C25	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C26	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C27	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C28	1-126-390-11	s CAPACITOR ELECT 22MF/6.3V(105)
C29	1-126-390-11	s CAPACITOR ELECT 22MF/6.3V(105)
C30	1-165-881-21	s CAPACITOR, ELECT 120MF(6.3X6)
C31	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C32	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C33	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C35	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C36	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C37	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C38	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C39	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C40	1-107-420-11	s CAPACITOR,ELECT 47MF/35V(105C)
C41	1-115-339-11	s CAPACITOR,CERAMIC 0.1MF/50V
C44	1-135-646-11	s CAPACITOR,CHIP FILM 1MF 16V
C45	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C46	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C47	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C48	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C49	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C50	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C51	1-135-646-11	s CAPACITOR,CHIP FILM 1MF 16V
C52	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C53	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C54	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C55	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C56	1-163-021-91	s CAPACITOR, CERAMIC 0.01MF/50V
C57	1-107-419-11	s CAPACITOR,ELECT 22MF/35V
C58	1-164-874-11	s CAPACITOR,CHIP CERAMIC 100PF
C59	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V

(TG-240 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C60	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C61	1-126-394-11 s	CAPACITOR,ELECT 10MF/16V(CHIP)
C62	1-165-871-11 s	CAPACITOR,ELECT 22MF
C63	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C64	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C65	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C66	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C67	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C68	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C70	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C71	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C72	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C73	1-163-021-91 s	CAPACITOR, CERAMIC 0.01MF/50V
C75	1-126-394-11 s	CAPACITOR,ELECT 10MF/16V(CHIP)
C76	1-163-021-91 s	CAPACITOR, CERAMIC 0.01MF/50V
C81	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C82	1-164-850-11 s	CAPACITOR,CHIP CERAMIC 10PF/50
C84	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C85	1-164-854-11 s	CAPACITOR,CHIP CERAMIC 15PF/50
C86	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C87	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C89	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C91	1-164-850-11 s	CAPACITOR,CHIP CERAMIC 10PF/50
C97	1-165-629-11 s	CAPACITOR,CERAMIC 1MF B
C99	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C100	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C101	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C102	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C103	1-164-858-11 s	CAPACITOR,CERAMIC 22PF/50V
C104	1-164-854-11 s	CAPACITOR,CHIP CERAMIC 15PF/50
C200	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C201	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C204	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C205	1-100-165-21 s	CAP, ELECT 47MF (8X7)
C206	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C207	1-126-390-11 s	CAPACITOR ELECT 22MF/6.3V(105)
C208	1-127-760-11 s	CAPACITOR,CERAMIC 4.7MF/6.3V
C209	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C210	1-165-629-11 s	CAPACITOR,CERAMIC 1MF B
C211	1-115-339-11 s	CAPACITOR,CERAMIC 0.1MF/50V
C213	1-104-607-11 s	CAPACITOR ELECT 47MF/16V(105C)
C214	1-115-339-11 s	CAPACITOR,CERAMIC 0.1MF/50V
C215	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C216	1-115-339-11 s	CAPACITOR,CERAMIC 0.1MF/50V
C217	1-107-419-11 s	CAPACITOR,ELECT 22MF/35V
C218	1-115-339-11 s	CAPACITOR,CERAMIC 0.1MF/50V
C219	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C220	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C221	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C222	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C223	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C224	1-165-629-11 s	CAPACITOR,CERAMIC 1MF B
C225	1-126-398-11 s	CAPACITOR ELECT 4.7MF/35V(CHIP)
C226	1-165-629-11 s	CAPACITOR,CERAMIC 1MF B
C227	1-126-398-11 s	CAPACITOR ELECT 4.7MF/35V(CHIP)
C228	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C229	1-115-339-11 s	CAPACITOR,CERAMIC 0.1MF/50V
C230	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C231	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF

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Ref. No. or Q'ty	Part No.	SP Description
C232	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C233	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C234	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C235	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C236	1-127-760-11 s	CAPACITOR,CERAMIC 4.7MF/6.3V
C237	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C238	1-165-629-11 s	CAPACITOR,CERAMIC 1MF B
C239	1-115-339-11 s	CAPACITOR,CERAMIC 0.1MF/50V
C241	1-115-339-11 s	CAPACITOR,CERAMIC 0.1MF/50V
C242	1-115-339-11 s	CAPACITOR,CERAMIC 0.1MF/50V
C243	1-107-419-11 s	CAPACITOR,ELECT 22MF/35V
C244	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C245	1-165-629-11 s	CAPACITOR,CERAMIC 1MF B
C246	1-126-398-11 s	CAPACITOR ELECT 4.7MF/35V(CHIP)
C247	1-115-339-11 s	CAPACITOR,CERAMIC 0.1MF/50V
C248	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C249	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C250	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C251	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C252	1-164-874-11 s	CAPACITOR,CHIP CERAMIC 100PF
C253	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C254	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C255	1-125-777-11 s	CAPACITOR CERAMIC 0.1MF/10V
C256	1-100-506-91 s	CAP, CERAMIC 1MF B (1005)
C257	1-100-506-91 s	CAP, CERAMIC 1MF B (1005)
C258	1-100-506-91 s	CAP, CERAMIC 1MF B (1005)
CN1	1-778-534-11 o	CONNECTOR, FFC (ZIF) 45P
CN2	1-815-833-21 s	CONNECTOR, BOARD TO BOARD 50P
CN3	1-778-451-11 o	CONNECTOR, FPC (50P)
CN4	1-778-451-11 o	CONNECTOR, FPC (50P)
CN5	1-580-055-21 o	PIN, CONNECTOR 2P
D1	8-719-069-28 s	DIODE 1SS400TE61
D2	8-719-069-28 s	DIODE 1SS400TE61
D200	8-719-069-28 s	DIODE 1SS400TE61
D202	8-719-069-28 s	DIODE 1SS400TE61
D203	8-719-069-28 s	DIODE 1SS400TE61
D204	8-719-069-28 s	DIODE 1SS400TE61
D205	8-719-069-28 s	DIODE 1SS400TE61
D207	8-719-069-28 s	DIODE 1SS400TE61
E1	1-535-757-11 s	CHIP, CHECKER (CONNECTOR)
IC1	6-704-976-01 s	IC ADR381ART-REEL7
IC2	8-759-488-34 s	IC TLV2221CDBV2
IC3	6-706-481-01 s	IC TC7SET32FU(T5RSOJF)
IC4	8-759-685-33 s	IC BU2500FV-E2
IC5	8-759-669-67 s	IC TL074CPWR-12
IC6	8-759-564-49 s	IC TC7W53FU-TE12R
IC7	6-706-482-01 s	IC TC7SH00FU(T5RSOJF)
IC8	8-759-327-01 s	IC NJM062V-TE2
IC9	8-759-669-72 s	IC TL064CPWR
IC10	8-759-669-44 s	IC SN74LVC74APWR-12
IC12	8-759-592-47 s	IC TC7SZ08FU(TE85R)
IC13	8-759-592-47 s	IC TC7SZ08FU(TE85R)
IC14	8-759-689-06 s	IC LTC1660CGN-E2
IC16	6-704-723-01 s	IC XCS20XL-4VQG100C
IC17	8-759-675-47 s	IC SN74LVC04APWR
IC19	8-759-592-48 s	IC TC7SZ32FU(TE85R)
IC20	8-759-592-42 s	IC TC7SZ00FU(TE85R)

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Ref. No. or Q'ty	Part No.	SP	Description
IC23	8-759-592-44	s	IC TC7SZ04FU(TE85R)
IC24	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC26	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC27	8-759-683-80	s	IC SN65LVDS1DBVR
IC28	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC29	8-759-592-48	s	IC TC7SZ32FU(TE85R)
IC30	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC200	8-759-669-41	s	IC SN74LVC125APWR-12
IC201	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC202	8-759-592-47	s	IC TC7SZ08FU(TE85R)
IC203	6-706-481-01	s	IC TC7SET32FU(T5RSQJF)
IC204	6-700-931-01	s	IC UPD16510GR-8JG-E1
IC205	6-700-931-01	s	IC UPD16510GR-8JG-E1
IC206	6-706-481-01	s	IC TC7SET32FU(T5RSQJF)
IC207	6-700-931-01	s	IC UPD16510GR-8JG-E1
IC213	8-759-082-60	s	IC TC7S66FU
IC214	8-759-082-60	s	IC TC7S66FU
IC215	8-759-082-60	s	IC TC7S66FU
L1	1-414-392-31	s	INDUCTOR (SMD) 1.0UH
L2	1-410-389-31	s	INDUCTOR,CHIP 47UH (3225)
L3	1-410-389-31	s	INDUCTOR,CHIP 47UH (3225)
L4	1-414-392-31	s	INDUCTOR (SMD) 1.0UH
L5	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L6	1-414-392-31	s	INDUCTOR (SMD) 1.0UH
L200	1-414-392-31	s	INDUCTOR (SMD) 1.0UH
L201	1-414-392-31	s	INDUCTOR (SMD) 1.0UH
L202	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L203	1-414-392-31	s	INDUCTOR (SMD) 1.0UH
L204	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
Q1	8-729-927-99	s	TRANSISTOR 2SC4617R
Q2	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q3	8-729-044-07	f	TRANSISTOR SI3443DV-T1
Q4	8-729-044-07	f	TRANSISTOR SI3443DV-T1
Q5	8-729-927-99	s	TRANSISTOR 2SC4617R
Q6	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q7	8-729-928-19	s	TRANSISTOR 2SA1774R
Q8	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q10	8-729-927-99	s	TRANSISTOR 2SC4617R
Q11	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q12	8-729-927-99	s	TRANSISTOR 2SC4617R
Q13	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q200	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q201	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q202	8-729-106-60	s	TRANSISTOR 2SB1115A
Q203	8-729-044-58	s	TRANSISTOR SI2304DS-T1
Q204	8-729-143-13	s	TRANSISTOR 2SC4176-B34
Q205	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q206	8-729-106-60	s	TRANSISTOR 2SB1115A
Q207	8-729-044-58	s	TRANSISTOR SI2304DS-T1
R1	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R2	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R3	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R4	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R5	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R6	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R7	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R8	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R9	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R10	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R11	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R12	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R13	1-208-931-11	s	RESISTOR, CHIP 68K (1005)
R14	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R16	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R17	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R18	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R19	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R20	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R21	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R22	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R23	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R24	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R25	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R26	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R27	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R28	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R29	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R30	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R31	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R32	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R33	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R34	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R35	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R36	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R37	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R38	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R39	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R40	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R41	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R42	1-208-923-11	s	RESISTOR, CHIP 33K (1005)
R43	1-208-923-11	s	RESISTOR, CHIP 33K (1005)
R44	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R45	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R46	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R47	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R48	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R49	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R50	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R51	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R52	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R54	1-218-989-11	s	RESISTOR,CHIP 1M 1/16W (1005)
R55	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R56	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R57	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R58	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R59	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R60	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R61	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R62	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R63	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R64	1-208-927-11	s	RESISTOR, CHIP 47K 1/16W(1005)
R65	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R66	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R67	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R68	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R69	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R70	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R71	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R72	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R77	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R78	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R79	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R80	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R81	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R82	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R83	1-208-935-11	s RESISTOR, CHIP 100K (1005)
R84	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R86	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R87	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R88	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R89	1-208-647-11	s RESISTOR CHIP 33 1/16W (1005)
R90	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R91	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R92	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R93	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R94	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R95	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R96	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R97	1-208-715-11	s RESISTOR,CHIP 22K 1/16W (1005)
R98	1-208-931-11	s RESISTOR, CHIP 68K (1005)
R99	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R100	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R101	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R102	1-218-941-11	s RESISTOR,CHIP 100 1/16W (1005)
R103	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R104	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R108	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R111	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R112	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R113	1-208-855-81	s RESISTOR,CHIP 47 1/16W (1005)
R114	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R115	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R116	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R117	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R120	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R121	1-208-699-11	s RESISTOR,CHIP 4.7K 1/16W(1005)
R122	1-208-671-11	s RESISTOR CHIP 330 1/16W (1005)
R123	1-218-945-11	s RESISTOR,CHIP 220 1/16W(1005)
R200	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R201	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R202	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R203	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R204	1-208-683-11	s RESISTOR CHIP 1K 1/16W (1005)
R205	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R206	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R207	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R208	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R209	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R210	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R211	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R212	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R213	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R214	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R215	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R216	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R217	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)

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Ref. No. or Q'ty	Part No.	SP Description
R218	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R219	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R220	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R221	1-220-874-11	s RES, CHIP 15 (1005)
R222	1-220-874-11	s RES, CHIP 15 (1005)
R223	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R224	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R225	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R226	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R227	1-218-989-11	s RESISTOR,CHIP 1M 1/16W (1005)
R228	1-218-989-11	s RESISTOR,CHIP 1M 1/16W (1005)
R229	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R230	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R231	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R232	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R233	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R234	1-208-923-11	s RESISTOR, CHIP 33K (1005)
R235	1-208-911-11	s RESISTOR, CHIP 10K (1005)
R236	1-208-691-11	s RESISTOR CHIP 2.2K 1/16W(1005)
R238	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R239	1-208-643-11	s RESISTOR CHIP 22 1/16W (1005)
R240	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R241	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R242	1-220-874-11	s RES, CHIP 15 (1005)
R243	1-220-874-11	s RES, CHIP 15 (1005)
R244	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R245	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R246	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R247	1-208-695-11	s RESISTOR CHIP 3.3K 1/16W(1005)
R248	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R249	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R250	1-218-989-11	s RESISTOR,CHIP 1M 1/16W (1005)
R251	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R252	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
R259	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
R261	1-218-990-11	s RESISTOR,CHIP 0 1/16W (1005)
RB1	1-234-369-21	s RES, NETWORK 10X4 (1005)
RB2	1-234-369-21	s RES, NETWORK 10X4 (1005)
RB3	1-234-369-21	s RES, NETWORK 10X4 (1005)
RB6	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB7	1-234-381-21	s RES, NETWORK 100KX4 (1005)
RB8	1-234-381-21	s RES, NETWORK 100KX4 (1005)
TP1	1-535-757-11	s CHIP, CHECKER (CONNECTOR)
X1	1-813-318-11	s OSCILLATOR, CRYSTAL
X2	1-813-317-11	s OSCILLATOR, CRYSTAL

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*1: [Board No. suffix 14 -]

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1057-710-A	s MOUNTED CIRCUIT BOARD, VA-221
C3	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C4	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C5	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C8	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C9	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C13	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C14	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C15	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C16	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C17	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C18	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C19	1-135-646-11	s CAPACITOR,CHIP FILM 1MF 16V
C20	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C21	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C22	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C23	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C24	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C25	1-165-871-11	s CAPACITOR,ELECT 22MF
C26	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C36	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C61	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C63	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C64	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C65	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C66	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C67	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C68	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C69	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C70	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C71	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C72	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C73	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C74	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C75	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C76	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C77	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C78	1-127-956-11	s CAPACITOR,CHIP FILM 0.1MF
C79	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C80	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C81	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C82	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C83	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C84	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C85	1-164-866-11	s CAPACITOR,CHIP CERAMIC 47PF/50
C86	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C87	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C88	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C89	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C90	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C91	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C92	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C93	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C100	1-165-871-11	s CAPACITOR,ELECT 22MF
C101	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C102	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V

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Ref. No. or Q'ty	Part No.	SP Description
C103	1-165-989-11	s CAPACITOR, CERAMIC 10MF (2012)
C104	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C105	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C106	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C107	1-165-871-11	s CAPACITOR,ELECT 22MF
C108	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C109	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C110	1-165-871-11	s CAPACITOR,ELECT 22MF
C111	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C112	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C113	1-100-506-91	s CAP, CERAMIC 1MF B (1005)
C114	1-100-506-91	s CAP, CERAMIC 1MF B (1005)
C115	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C116	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C117	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C118	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C200	1-165-871-11	s CAPACITOR,ELECT 22MF
C201	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C202	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C203	1-165-989-11	s CAPACITOR, CERAMIC 10MF (2012)
C204	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C205	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C206	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C207	1-165-871-11	s CAPACITOR,ELECT 22MF
C208	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C209	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C210	1-165-871-11	s CAPACITOR,ELECT 22MF
C211	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C212	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C213	1-100-506-91	s CAP, CERAMIC 1MF B (1005)
C214	1-100-506-91	s CAP, CERAMIC 1MF B (1005)
C215	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C216	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C217	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C218	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C300	1-165-871-11	s CAPACITOR,ELECT 22MF
C301	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C302	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C303	1-165-989-11	s CAPACITOR, CERAMIC 10MF (2012)
C304	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C305	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C306	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C307	1-165-871-11	s CAPACITOR,ELECT 22MF
C308	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C309	1-100-352-91	s CAP, CHIP CERAMIC 1MF B (1608)
C310	1-165-871-11	s CAPACITOR,ELECT 22MF
C311	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C312	1-164-850-11	s CAPACITOR,CHIP CERAMIC 10PF/50
C314	1-100-506-91	s CAP, CERAMIC 1MF B (1005)
C315	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C316	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C317	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C318	1-165-872-21	s CAPACITOR,SOLID ELECT 47MF
C323	1-100-506-91	s CAP, CERAMIC 1MF B (1005)
C400	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C401	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005
C402	1-125-777-11	s CAPACITOR CERAMIC 0.1MF/10V
C403	1-100-159-91	s CAP, CERAMIC 22MF B (SMD) 3216
C404	1-100-567-81	s CAP,CHIP CERAMIC 0.01MF B 1005

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Ref. No. or Q'ty	Part No.	SP	Description
C405	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C406	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C407	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C408	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C409	1-165-871-11	s	CAPACITOR,ELECT 22MF
C410	1-165-871-11	s	CAPACITOR,ELECT 22MF
C411	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C412	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C413	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C414	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C415	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C416	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C417	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C418	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C419	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C420	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C421	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C422	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C423	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C424	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C425	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C426	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C427	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C428	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C429	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C430	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C431	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C432	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C433	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C434	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C435	1-165-871-11	s	CAPACITOR,ELECT 22MF
C436	1-165-871-11	s	CAPACITOR,ELECT 22MF
C437	1-127-956-11	s	CAPACITOR,CHIP FILM 0.1MF
C438	1-164-866-11	s	CAPACITOR,CHIP CERAMIC 47PF/50
C439	1-164-866-11	s	CAPACITOR,CHIP CERAMIC 47PF/50
C440	1-164-866-11	s	CAPACITOR,CHIP CERAMIC 47PF/50
C441	1-164-866-11	s	CAPACITOR,CHIP CERAMIC 47PF/50
C442	1-164-866-11	s	CAPACITOR,CHIP CERAMIC 47PF/50
C443	1-164-866-11	s	CAPACITOR,CHIP CERAMIC 47PF/50
C444	1-164-866-11	s	CAPACITOR,CHIP CERAMIC 47PF/50
C445	1-164-858-11	s	CAPACITOR,CERAMIC 22PF/50V
C446	1-164-858-11	s	CAPACITOR,CERAMIC 22PF/50V
C447	1-164-858-11	s	CAPACITOR,CERAMIC 22PF/50V
C448	1-164-858-11	s	CAPACITOR,CERAMIC 22PF/50V
C449	1-164-858-11	s	CAPACITOR,CERAMIC 22PF/50V
C450	1-164-858-11	s	CAPACITOR,CERAMIC 22PF/50V
C451	1-164-858-11	s	CAPACITOR,CERAMIC 22PF/50V
C452	1-165-871-11	s	CAPACITOR,ELECT 22MF
C453	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C454	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C455	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C456	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C457	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C458	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C459	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C460	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C461	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C462	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C463	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V

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Ref. No. or Q'ty	Part No.	SP	Description
C464	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C465	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C466	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C467	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C468	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C469	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C470	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C471	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C472	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C473	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C474	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C475	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C476	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C477	1-100-567-81	s	CAP,CHIP CERAMIC 0.01MF B 1005
C478	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C479	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C481	1-164-874-11	s	CAPACITOR,CHIP CERAMIC 100PF
C482	1-164-850-11	s	CAPACITOR,CHIP CERAMIC 10PF/50
C483	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C484	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C485	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C486	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C487	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C488	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C489	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C490	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C491	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C492	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C493	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C494	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C495	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C496	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C497	1-125-777-11	s	CAPACITOR CERAMIC 0.1MF/10V
C499	*1 1-164-850-11	s	CAPACITOR,CHIP CERAMIC 10PF/50
C500	*1 1-164-850-11	s	CAPACITOR,CHIP CERAMIC 10PF/50
C501	*1 1-164-850-11	s	CAPACITOR,CHIP CERAMIC 10PF/50
CN2	1-778-535-11	o	CONNECTOR, FFC (ZIF) 45P
CN3	1-695-320-11	o	PIN,CONNECTOR (2P) (SMD) (1.5MM)
CN101	1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P
CN201	1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P
CN301	1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P
D400	8-719-989-03	s	DIODE DAN222
FL100	1-234-871-11	s	FILTER, LOW PASS
FL200	1-234-871-11	s	FILTER, LOW PASS
FL300	1-234-871-11	s	FILTER, LOW PASS
IC1	6-706-357-01	s	IC LTC1664IGN#TR
IC2	6-704-976-01	s	IC ADR381ART-REEL7
IC3	8-759-327-01	s	IC NJM062V-TE2
IC4	8-759-327-01	s	IC NJM062V-TE2
IC5	8-759-327-01	s	IC NJM062V-TE2
IC7	8-759-678-06	s	IC CAT24WC02J1-TE13
IC10	8-759-685-33	s	IC BU2500FV-E2
IC13	8-759-669-41	s	IC SN74LVC125APWR-12
IC14	8-759-685-33	s	IC BU2500FV-E2
IC100	8-752-109-38	s	IC CXA3648R-T4
IC101	8-759-561-46	s	IC AD8014ART-REEL7
IC200	8-752-109-38	s	IC CXA3648R-T4

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Ref. No. or Q'ty	Part No.	SP	Description
IC201	8-759-561-46	s	IC AD8014ART-REEL7
IC300	8-752-109-38	s	IC CXA3648R-T4
IC301	8-759-561-46	s	IC AD8014ART-REEL7
IC401	8-759-592-48	s	IC TC7SZ32FU (TE85R)
IC402	8-759-585-28	s	IC CY62256VLL-70ZC-T2
IC404	8-759-327-01	s	IC NJM062V-TE2
IC405	8-759-592-48	s	IC TC7SZ32FU (TE85R)
IC406	8-759-592-48	s	IC TC7SZ32FU (TE85R)
IC407	8-759-592-48	s	IC TC7SZ32FU (TE85R)
IC408	8-759-491-47	s	IC TC74VHCT08FT (EL)
IC409	6-706-358-01	s	IC AD5424YCPZ-REEL7
IC410	8-759-491-47	s	IC TC74VHCT08FT (EL)
IC411	8-759-561-46	s	IC AD8014ART-REEL7
IC412	6-706-478-01	s	IC TC7SET08FU (T5RSOJF)
IC413	8-759-596-34	s	IC SN74LV4053APWR
IC414	8-759-596-34	s	IC SN74LV4053APWR
IC415	8-759-596-34	s	IC SN74LV4053APWR
IC416	8-759-592-48	s	IC TC7SZ32FU (TE85R)
IC417	8-759-561-46	s	IC AD8014ART-REEL7
IC418	8-759-561-46	s	IC AD8014ART-REEL7
IC419	8-759-561-46	s	IC AD8014ART-REEL7
IC420	8-759-592-47	s	IC TC7SZ08FU (TE85R)
IC421	8-759-592-48	s	IC TC7SZ32FU (TE85R)
L100	1-469-553-21	s	INDUCTOR, CHIP 4.7UH (LB2016)
L200	1-469-553-21	s	INDUCTOR, CHIP 4.7UH (LB2016)
L300	1-469-553-21	s	INDUCTOR, CHIP 4.7UH (LB2016)
L400	1-469-555-21	s	INDUCTOR, CHIP 10UH (LB2016)
L401	1-414-398-11	s	INDUCTOR (SMD) 10UH
Q1	8-729-927-99	s	TRANSISTOR 2SC4617R
Q2	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q3	8-729-927-99	s	TRANSISTOR 2SC4617R
Q4	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q5	8-729-928-19	s	TRANSISTOR 2SA1774R
Q6	8-729-807-51	s	TRANSISTOR 2SD1623-S
Q7	8-729-927-99	s	TRANSISTOR 2SC4617R
Q8	8-729-927-99	s	TRANSISTOR 2SC4617R
Q9	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q10	8-729-230-27	s	TRANSISTOR 2SA1213Y-TE12L
Q400	8-729-928-19	s	TRANSISTOR 2SA1774R
Q401	8-729-928-19	s	TRANSISTOR 2SA1774R
Q402	8-729-928-19	s	TRANSISTOR 2SA1774R
Q403	8-729-928-19	s	TRANSISTOR 2SA1774R
Q404	8-729-928-19	s	TRANSISTOR 2SA1774R
Q405	8-729-928-19	s	TRANSISTOR 2SA1774R
Q406	8-729-928-19	s	TRANSISTOR 2SA1774R
Q407	8-729-927-99	s	TRANSISTOR 2SC4617R
Q408	8-729-927-99	s	TRANSISTOR 2SC4617R
Q409	8-729-927-99	s	TRANSISTOR 2SC4617R
Q410	8-729-927-99	s	TRANSISTOR 2SC4617R
Q411	8-729-927-99	s	TRANSISTOR 2SC4617R
Q412	8-729-927-99	s	TRANSISTOR 2SC4617R
Q413	8-729-927-99	s	TRANSISTOR 2SC4617R
R1	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R2	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R3	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R4	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R5	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R6	1-208-935-11	s	RESISTOR, CHIP 100K (1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R7	1-208-935-11	s	RESISTOR, CHIP 100K (1005)
R8	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R9	1-208-931-11	s	RESISTOR, CHIP 68K (1005)
R10	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R11	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R12	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R13	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R14	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R15	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R16	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R17	1-208-923-11	s	RESISTOR, CHIP 33K (1005)
R18	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R19	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R20	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R21	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R22	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R23	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R24	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R25	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R26	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R27	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R28	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R29	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R30	1-208-715-11	s	RESISTOR,CHIP 22K 1/16W (1005)
R31	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R32	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R33	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R34	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R35	1-208-923-11	s	RESISTOR, CHIP 33K (1005)
R36	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R100	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R101	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R103	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R104	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R105	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R106	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R107	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R108	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R109	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R113	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R114	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R115	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R116	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R200	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R201	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R203	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R204	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R205	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R206	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R207	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R208	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R209	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R213	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R214	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R215	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R216	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R300	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R301	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R303	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)

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Ref. No. or Q'ty	Part No.	SP	Description
R454	1-208-675-11	s	RESISTOR CHIP 470 1/16W (1005)
R455	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R456	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R457	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R458	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R459	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R460	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R461	1-208-695-11	s	RESISTOR CHIP 3.3K 1/16W(1005)
R462	1-208-711-11	s	RESISTOR CHIP 15K 1/16W (1005)
R463	1-208-663-11	s	RESISTOR CHIP 150 1/16W (1005)
R464	1-208-663-11	s	RESISTOR CHIP 150 1/16W (1005)
R465	1-208-663-11	s	RESISTOR CHIP 150 1/16W (1005)
R466	1-208-911-11	s	RESISTOR, CHIP 10K (1005)
R467	1-208-643-11	s	RESISTOR CHIP 22 1/16W (1005)
R468	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R469	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R471	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R472	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R473	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R474	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R475	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R476	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R477	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R478	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R479	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R480	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R481	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R482	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R483	1-218-941-11	s	RESISTOR,CHIP 100 1/16W (1005)
R484	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R485	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R486	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R487	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R488	1-208-691-11	s	RESISTOR CHIP 2.2K 1/16W(1005)
R489	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R490	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R491	1-218-945-11	s	RESISTOR,CHIP 220 1/16W(1005)
R492	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R493	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R494	1-208-699-11	s	RESISTOR,CHIP 4.7K 1/16W(1005)
R495	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R496	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R497	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R498	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R499	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R500	1-208-683-11	s	RESISTOR CHIP 1K 1/16W (1005)
R501	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R502	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R503	1-208-855-81	s	RESISTOR,CHIP 47 1/16W (1005)
R504	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R505	1-208-687-11	s	RESISTOR CHIP 1.5K 1/16W (1005)
R506	1-208-671-11	s	RESISTOR CHIP 330 1/16W (1005)
R507	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R508	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R509	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R510	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R511	1-218-990-11	s	RESISTOR,CHIP 0 1/16W (1005)
R512	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)
R513	1-208-635-11	s	RESISTOR CHIP 10 1/16W (1005)

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Ref. No. or Q'ty	Part No.	SP Description
R514	1-208-635-11	s RESISTOR CHIP 10 1/16W (1005)
RB1	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB2	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB3	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB4	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB5	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB6	1-234-376-11	s RESISTOR,NETWORK 2.2X4 (1005)
RB7	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB8	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB9	1-234-372-11	s RES, NETWORK 100X4 (1005)
RB28	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB38	1-234-376-11	s RESISTOR,NETWORK 2.2X4 (1005)
RB39	1-234-375-21	s RES, NETWORK 1KX4 (1005)
RB40	1-234-375-21	s RES, NETWORK 1KX4 (1005)

5-3. Frame List

HDC-X300/X300K/X310/X310K

Ref. No. or Q'ty	Part No.	SP Description
CN001	1-818-828-11	s CONNECTOR, ROUND TYPE (RF) 4P
CN002	1-580-724-11	s CONNECTOR, BNC
CN003	1-580-724-11	s CONNECTOR, BNC
HN008	1-829-884-11	s CABLE ASSY, COAXIAL
M001	△ 1-698-741-31	s FAN, DC (WITH 40MM ALARM)

HKC-SV1 (OPTION)

Ref. No. or Q'ty	Part No.	SP Description
HN002	1-757-276-12	s CABLE, FLEXIBLE FLAT (10 CORE)
M001	1-787-363-11	s MOTOR, DC

5-4. Supplied Accessories

HDC-X300/X300K/X310/X310K

Ref. No. or Q'ty	Part No.	SP Description
1pc	△ 1-468-626-91	s ADAPTOR, AC
1pc	3-167-517-01	s PLATE, NUMBER (PC)
1pc	3-764-889-01	o CHART,ADJUSTMENT
1pc	3-854-613-02	s OPERATION MANUAL
1pc	3-854-760-02	s CD-ROM (HDC-X300)

HKC-SV1 (OPTION)

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-757-276-12	s CABLE, FLEXIBLE FLAT (10 CORE)
2pcs	7-621-734-09	s SET-SCREW,HEX 2.6X3 (WP) ST
4pcs	7-627-553-37	s SCREW,PRECISION +P 2X3
1pc	7-627-553-48	s SCREW,PRECISION +P 2X4
2pcs	7-628-253-20	s SCREW +PS 2X6
2pcs	7-682-261-04	s SCREW +K 4X8 (EP-FE/CU,NI,CR)

5-5. Optional Fixtures

Part No.	SP Description
A-8347-484-A	o MS-69 board
J-6026-130-B	o Grayscale chart
J-6394-080-A	o Grayscale chart (16:9)
J-6029-140-B	o Pattern box PTB-500
J-7120-140-A	o PLD data download cable

Section 6

Semiconductor Pin Assignments

The following describes the semiconductor types used in this unit.

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

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

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

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

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

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

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

半導体型名またはID番号から検索ができます。

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

外観やインデックスマークの表示方法が実物と異なる場合があります。

ピン配置およびブロック図はICメーカーのデータブックに従いました。

DIODE	Page or ID No.	TRANSISTOR	Page or ID No.
02DZ2.0-TPH3	DC008-04	2SA1213Y-TE12L	TC002-01
		2SA1314C-TE12L	TC002-01
1SS300-TE85L	DC001-02	2SA1610-T1Y34	TC001-01
1SS400TE61	DC008-02	2SA1610-Y33	TC001-01
		2SA1611-M5M6	TC001-01
DAN222	DC001-03	2SA1611T1-M5M6	TC001-01
DAN222-TL	DC001-03	2SA1774R	TC001-01
DAP222	DC001-02	2SB1115A	TC002-01
DAP222-TL	DC001-02	2SC4176-B34	TC001-02
		2SC4176T1B33B34B35	TC001-02
MA132WA	DC001-02	2SC4617R	TC001-02
MA132WA-TX	DC001-02	2SD1623-S	TC002-02
MA132WK	DC001-03	2SK711-BL(TE85L)	TC001-05
		2SK711-BL	TC001-05
RB050L-40TE25	DC007-01		
RD20SB-T1	DC008-04	DTA144EE	TC001-04
RD3.3SB	DC008-04	DTA144EE-TL	TC001-04
RD3.3SB-T1	DC008-04	DTC114EE	TC001-03
		DTC114TE	TC001-18
SB01-15CP	DC001-06	DTC114TE-TL	TC001-18
		DTC144EE	TC001-03
		DTC144EE-TL	TC001-03
LED	Page or ID No.	HAT2164H-EL-E	TC017-01
CL-191HR-CD-T	LC004-02	NDS356AP	TC001-20
CL-200D-C-TU	LC008-01		
CL-200HR-C-TSL	LC008-04	SI3443DV-T1	TC005-17
		SI4416DY-T1	TC012-06
F1J6	LC001-01	SI4431DY-T1	TC012-04
F1J6TP	LC001-01	SI9407AEY-T1	TC012-04
MPG3371X-150	LR001-01		

IC	Page or ID No.
74LCX04MTCX	TC74HC04P
74VHC245MTCX	TC74HC245P
74VHC4053MTCX	MC74HC4053F
74VHC574MTCX	TC74HC574P
AD5424YCPZ-REEL7	AD5424YCPZ-REEL7
AD8014ART-REEL7	AD8055ART-REEL7
ADR381ART-REEL7	MAX6066BEUR-T
AM26C31CDBR	DS26C31CM
AQV212S	AQV221A
BA033FP	L78M05T-FA
BA033FP-E2	L78M05T-FA
BU2500FV-E2	M62352P
CAT24WC02JI-TE13	X24C02S-30
CAT24WC256XI-TE13	CAT24WC256XI-TE13
CDC2510CPWR	CDC2510CPWR
CXD1095BR	CXD1095AR
CXD2309AQ-T6	CXD2309Q-T6
CXD9093R	CXD9093R
CXD9156GG-P	9-999-999-99
CXD9180GB	CXD9180GB
CY62256VLL-70ZC-T2	CY62256-70SNC-T2
EP1C12F324C8N	EP1C12F324C8N
EPC2LC20-TP	EPC2LC20
EPC2LC20N-TP	EPC2LC20
EPM7064BTC44-7N	EPM7064TC44-7
FM18L08-70-STR	FM1808-70-STR
GS1528-CKA	GS1528-CKA
GS1532-CF	GS1532-CF
HD64F7145F50	HD64F7145F50
K4S64323LH-HN75T	IS42S32200B-6TL-TR
L78M05TLL-SONY-TL	L78M05T-FA
LM1881MX/NOPB	LM1881N
LM45BIM3X	LM45BIM3X
LTC1473CGN-E2	LTC1473CGN-E2
LTC1660CGN-E2	LTC1660CGN-E2
MAX1420ECM+T	MAX1420ECM_T
MAX3222CAP	MAX3222CAP
NC7SZ04P5X	TC7S04F
NC7SZ08P5	TC7S08F
NC7SZ08P5	TC7S08F
NC7SZ32P5X	TC7S32F
NC7SZ86P5X	TC7S86FU
NJM062V(Te2)	RC4558
NJM062V(Te2)	RC4558
NJM062V-TE2	RC4558
NJM2903V(Te2)	UA393DC
NJM2904V(Te2)	RC4558
NJM78M05DL1A-TE1	NJM78M12DLA_TE1

IC	Page or ID No.
S-80928CNNB-G8YT2G	S-80920CNNB-G8Q-T2
SN65LVDS1DBVR	SN65LVDS1DBVR
SN65LVDS2DR	SN65LVDS2DR
SN65LVDT2DBVR	SN65LVDT2DBVR
SN74LV4053APWR	MC74HC4053F
SN74LVC04APWR	TC74HC04P
SN74LVC125APWR-12	MC74HC125N
SN74LVC138APWR-12	TC74HC138P
SN74LVC157APWR	TC74HC157P
SN74LVC245APWR	TC74HC245P
SN74LVC574APWR	TC74HC574P
SN74LVC74APWR-12	TC74HC74P
TA78L05F	NJM78L12UA
TA78L05F-TE12L	NJM78L12UA
TC4W53FU(Te12R)	TC4W53FU
TC4W53FU	TC4W53FU
TC74VHC126FT(EL)	MC74HC126N
TC74VHCT08AFT(EL)	TC74HC08P
TC7S66FU	SC14S66F
TC7SZ00FU(Te85R)	TC7S00F
TC7SZ04FU(Te85R)	TC7S04F
TC7SZ08FU(Te85R)	TC7S08F
TC7SZ32FU(Te85R)	TC7S32F
TC7W53FU(Te12R)	TC4W53FU
TC7W53FU-TE12R	TC4W53FU
TC7WH04FK(Te85R)	TC7W04F
TC7WH08FK(Te85R)	TC7W08F
TC7WH14FK(Te85R)	TC7W14FU
TC7WH157FU(Te12R)	TC7WH157FU_TE12R
TC7WH32FK-TE85R	TC7W32FU
TC7WH74FU(Te12R)	TC7W74FU
TC7WHU04FU	TC7W04F
TL064CPWR	XRA10324AF
TL074CPWR-12	XRA10324AF
TL1451ACPWR-12	TL1451CNS
TL431CPK-E2	NJM431U
TL712CPS	TL712CP
TL7700CPS	TL7700CPS
TLC272CPWR	RC4558
TLC272CPWR-12	RC4558
TLC2932IPWR	TLC2932IPW
TLC2934IPWR	TLC2934IPWR
TLC7733IPWR-12	TLC7733IPWR
TLV2221CDBV	TA75S01F
TLV2221CDBV2	TA75S01F
UPC358G2-E2	RC4558
UPD16510GR-8JG-E1	UPD16510GR-8JG-E1
UPD6467GR-551-E2	UPD6466GS-502-E2
XCS20XL-4VQG100C	XCS20XL-4VQ100C

OTHERS	Page or ID No.
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NJL5901R	MA024-01

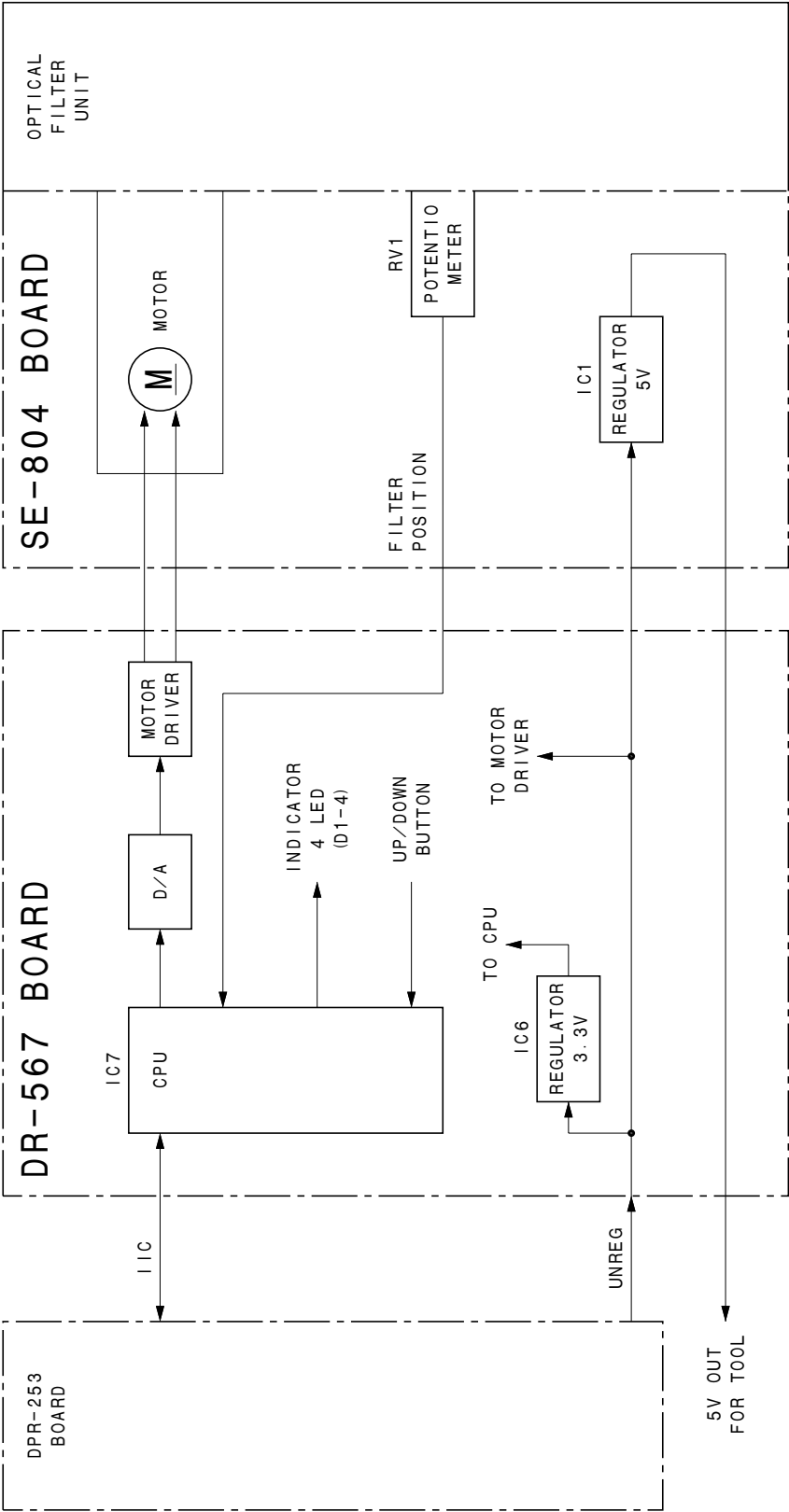
Section 7

Block Diagrams

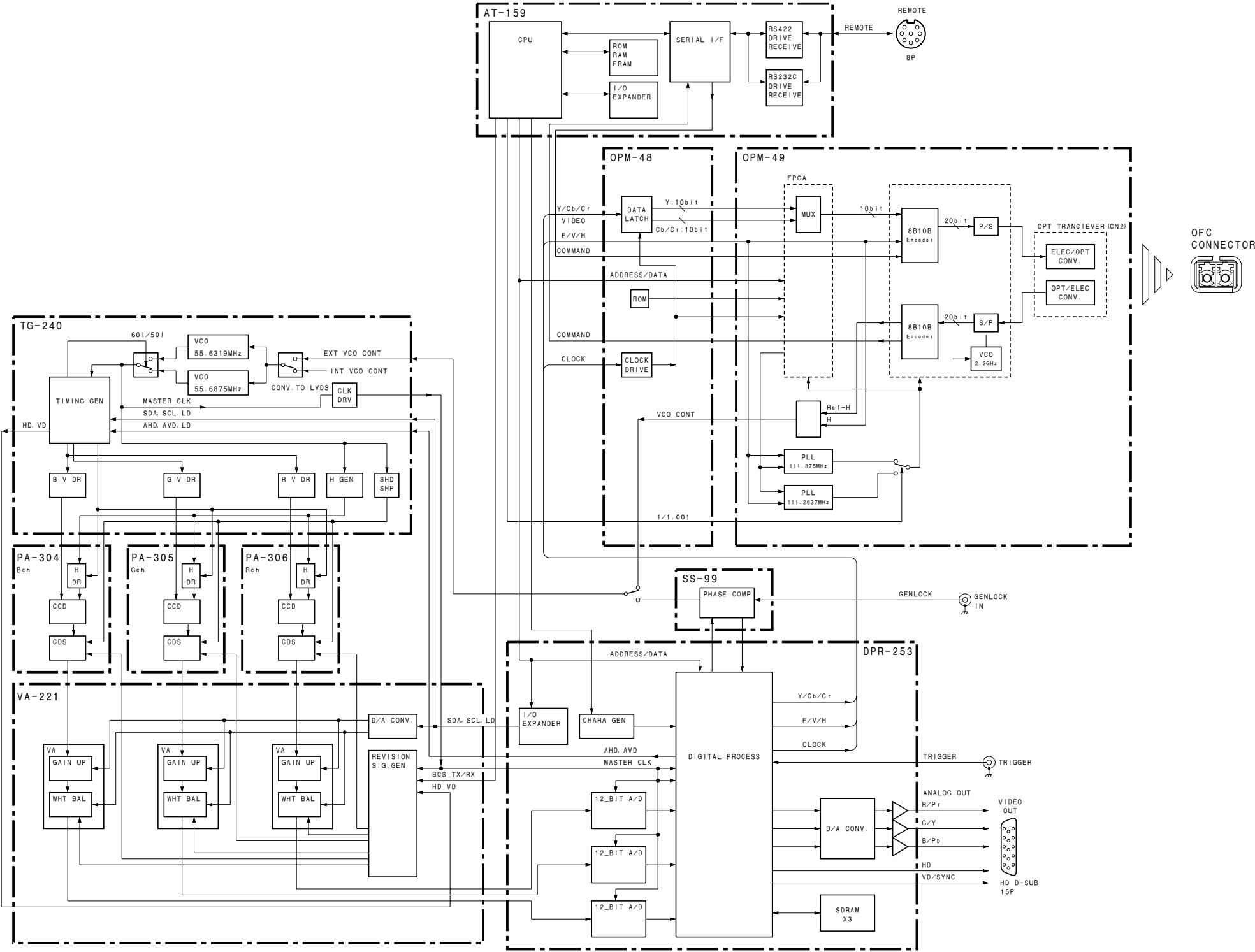
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-X300/X300K

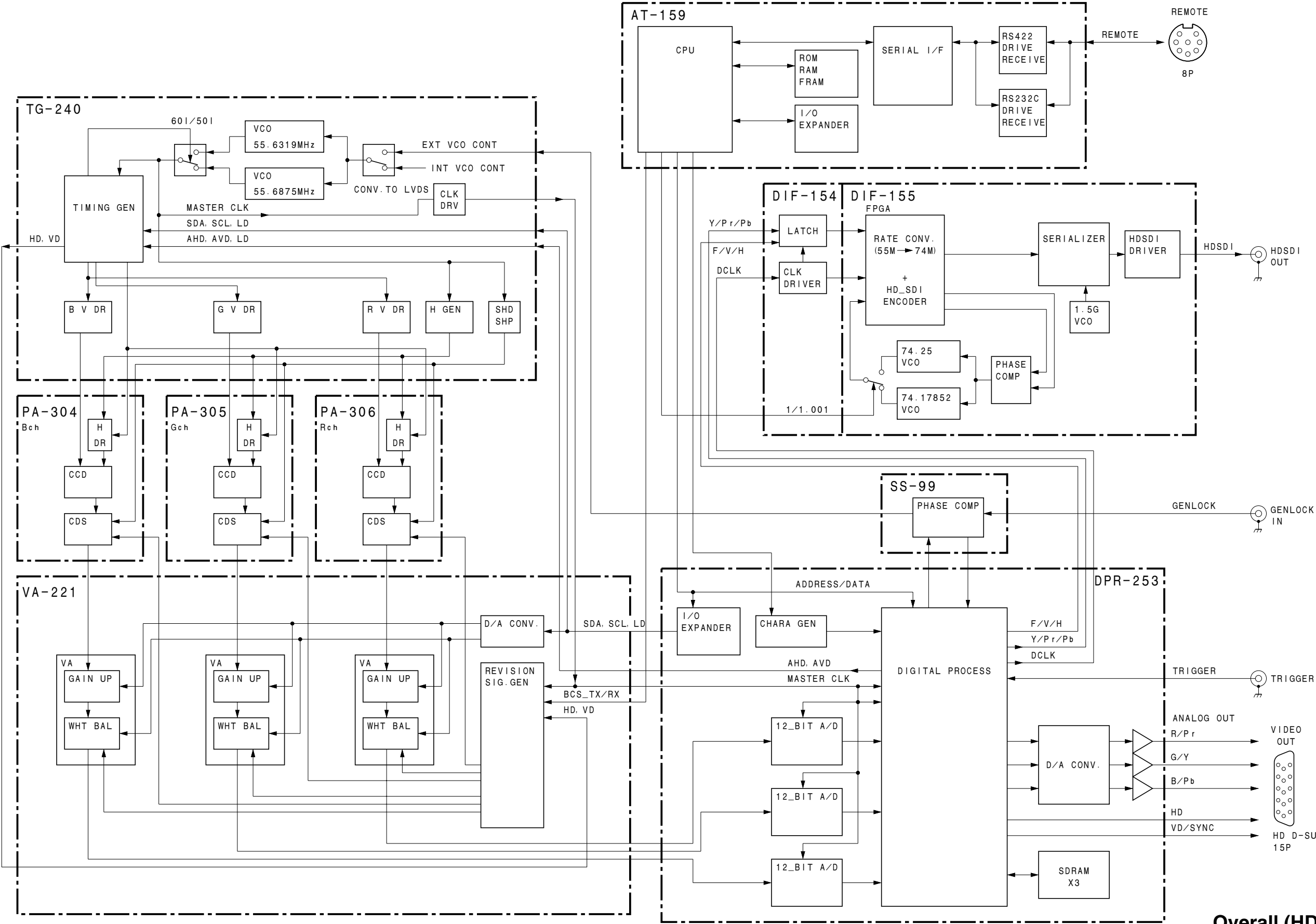
HKC-SV1 Filter Servo Unit

HDC-X310/X310K
-X300/X300K

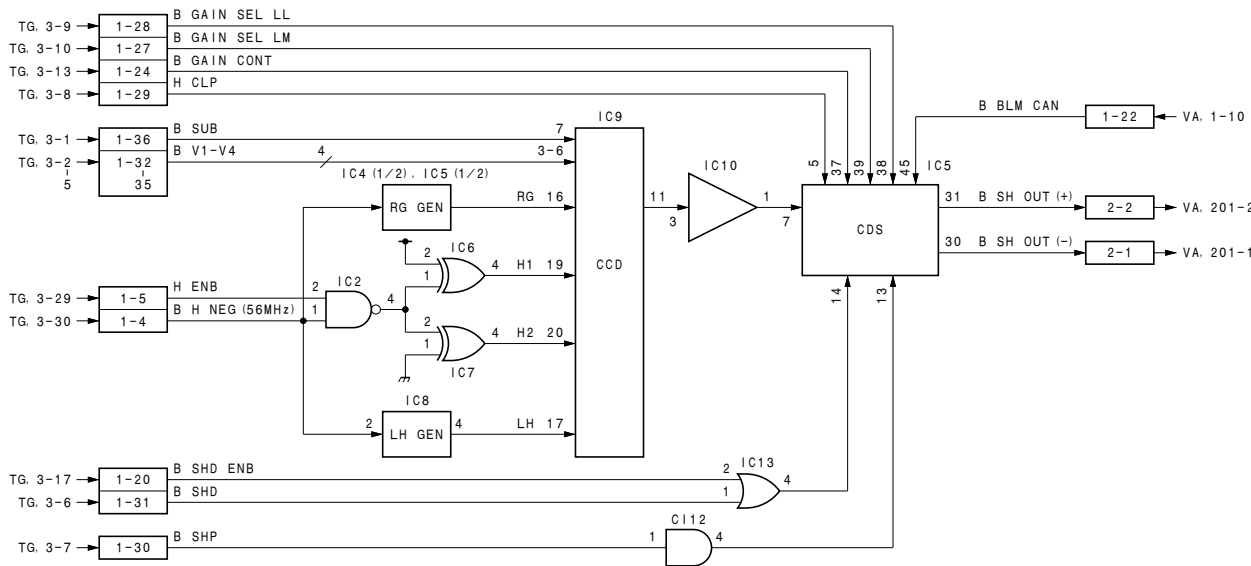


Overall (HKC-SV1)

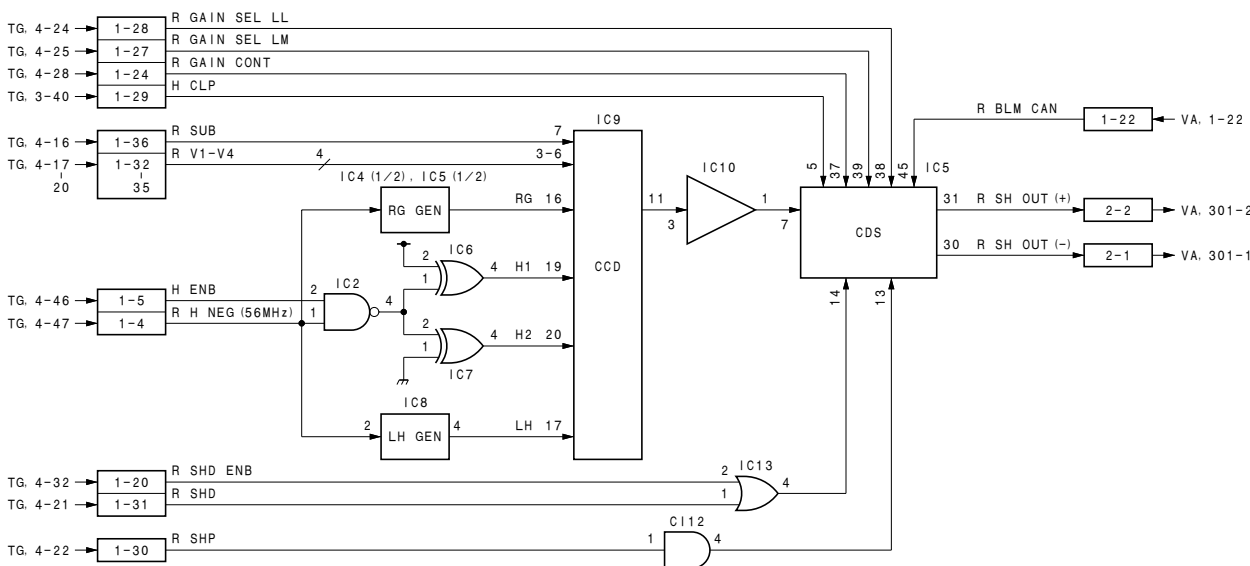




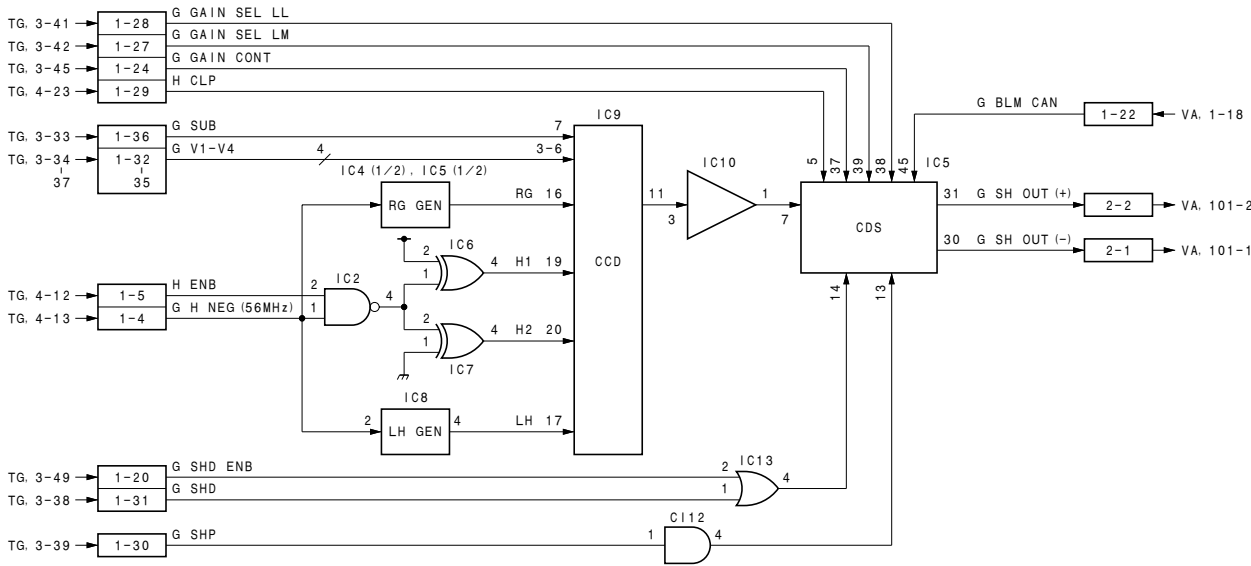
Overall (HDC-X300/X300K)



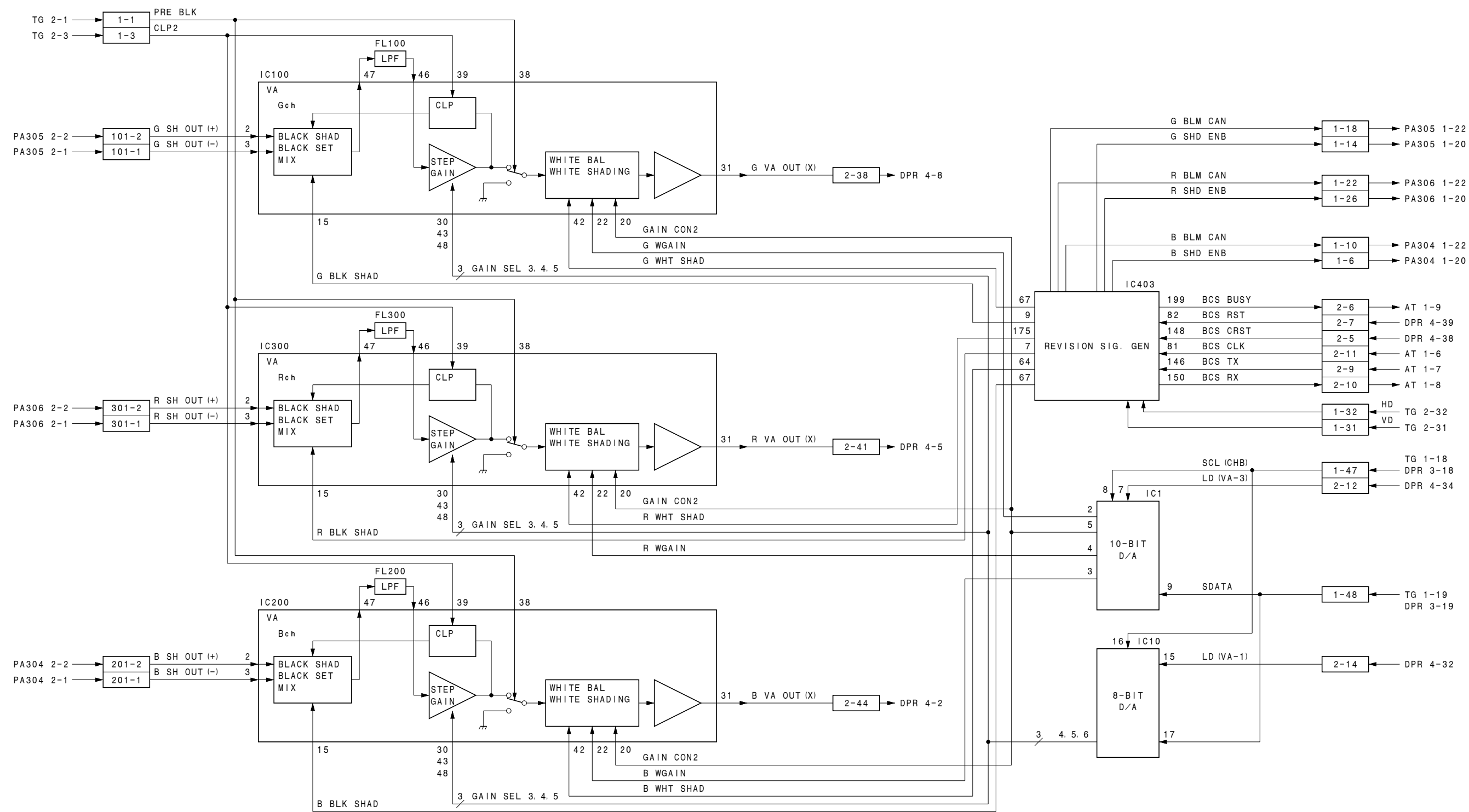
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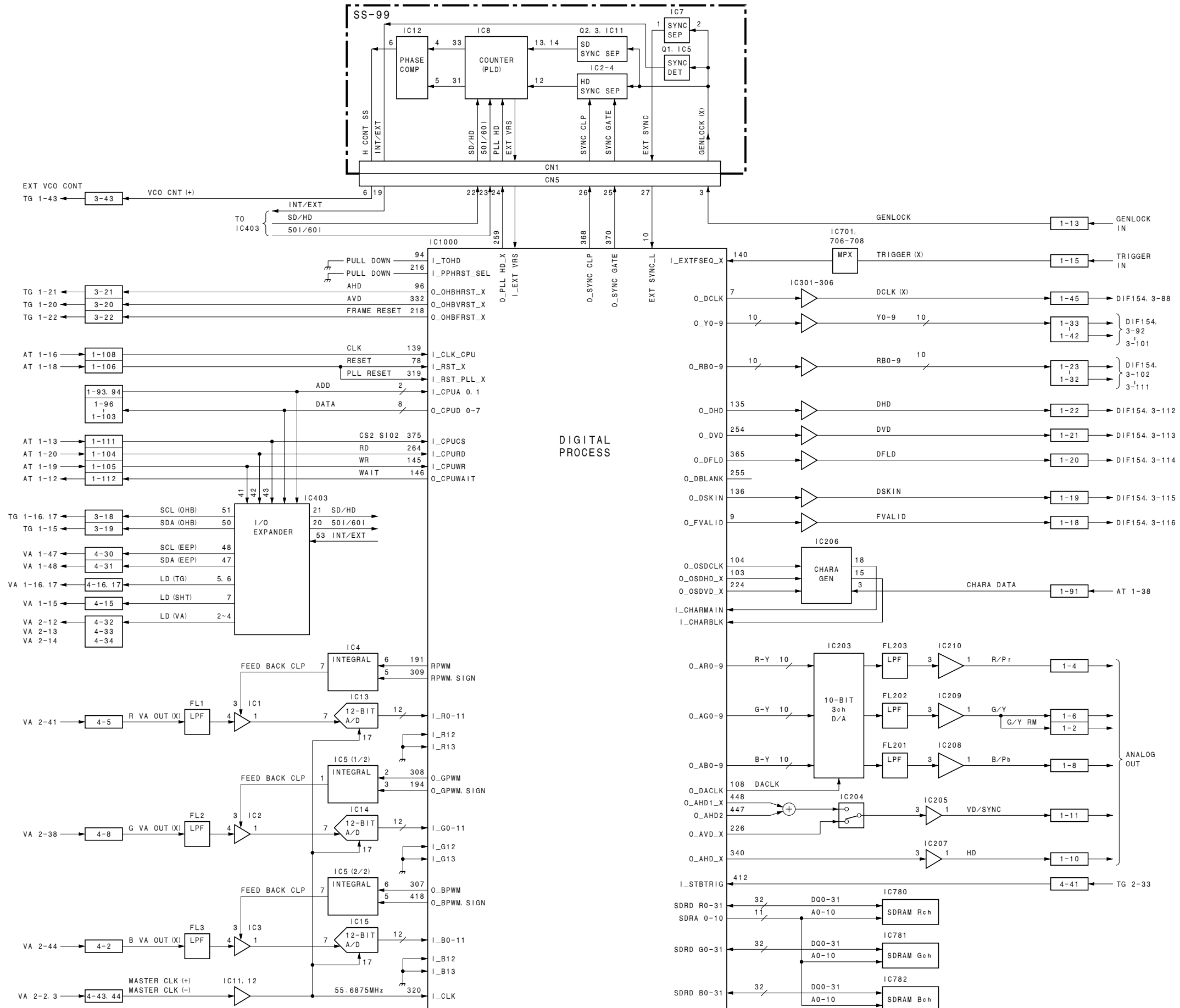


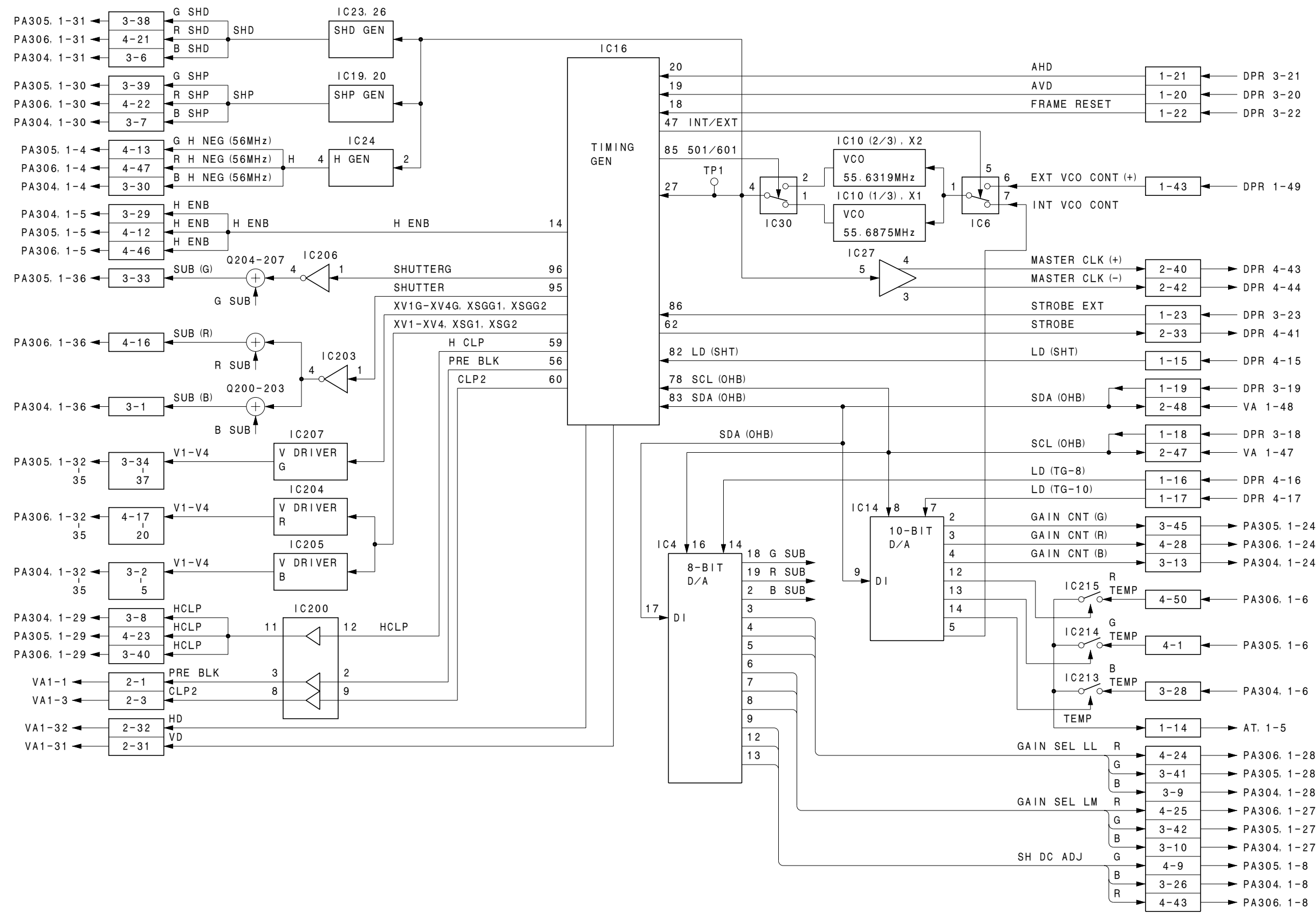
PA-306



PA-305



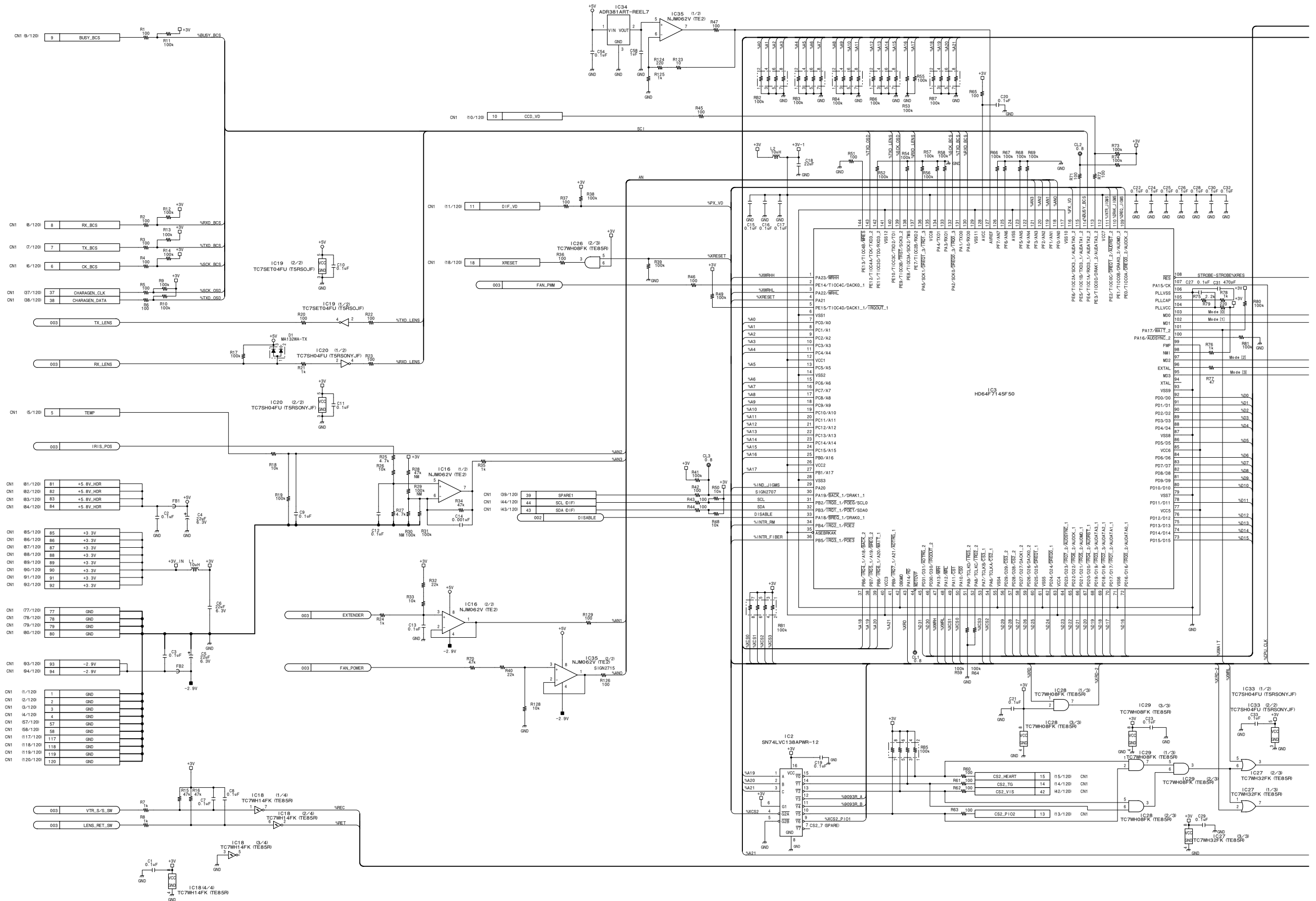




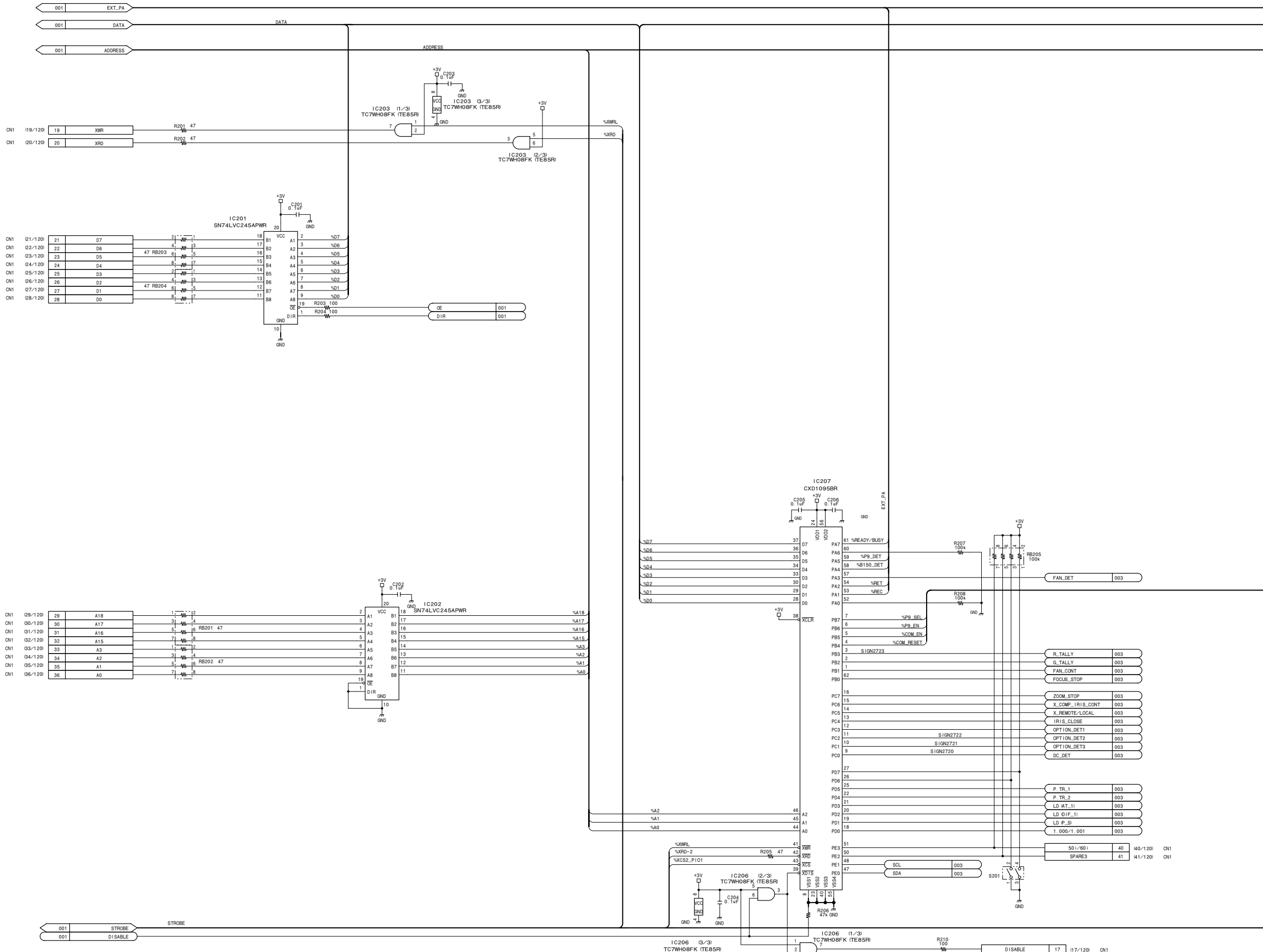
Section 8
Schematic Diagrams

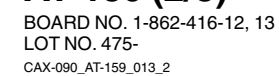
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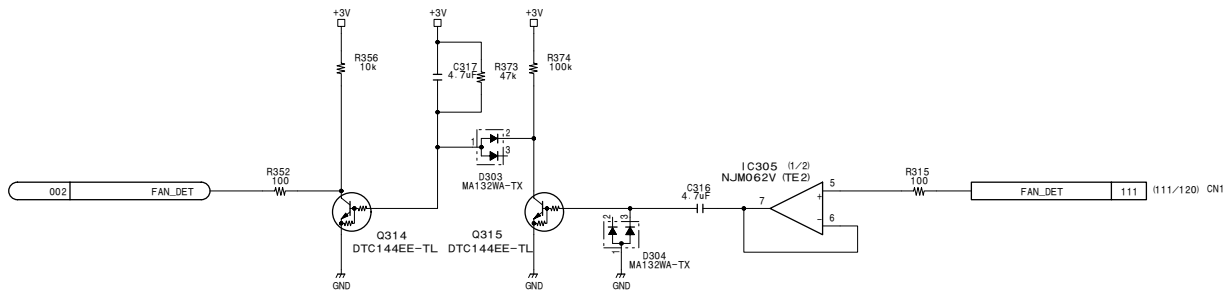




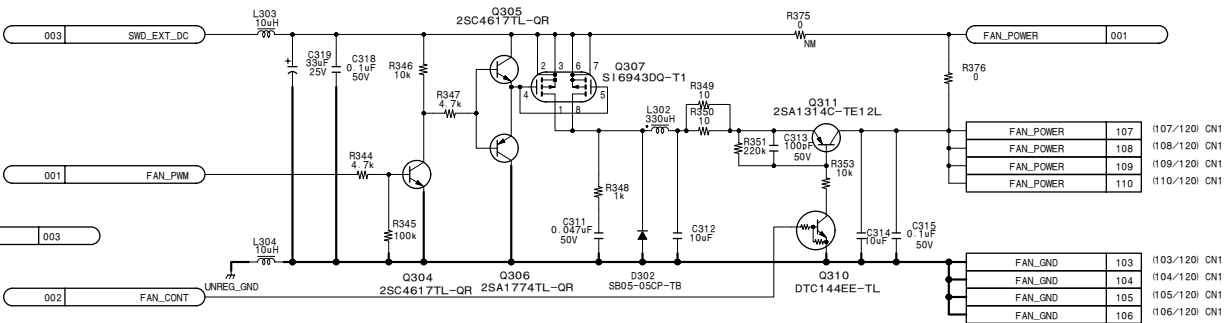


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	NC	62	162/120	ON1
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	NC	64	164/120	ON1
	NC	65	165/120	ON1
	NC	66	166/120	ON1
	NC	67	167/120	ON1
	NC	68	168/120	ON1
	NC	69	169/120	ON1
	NC	70	170/120	ON1
	NC	71	171/120	ON1
	NC	72	172/120	ON1
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	NC	75	175/120	ON1
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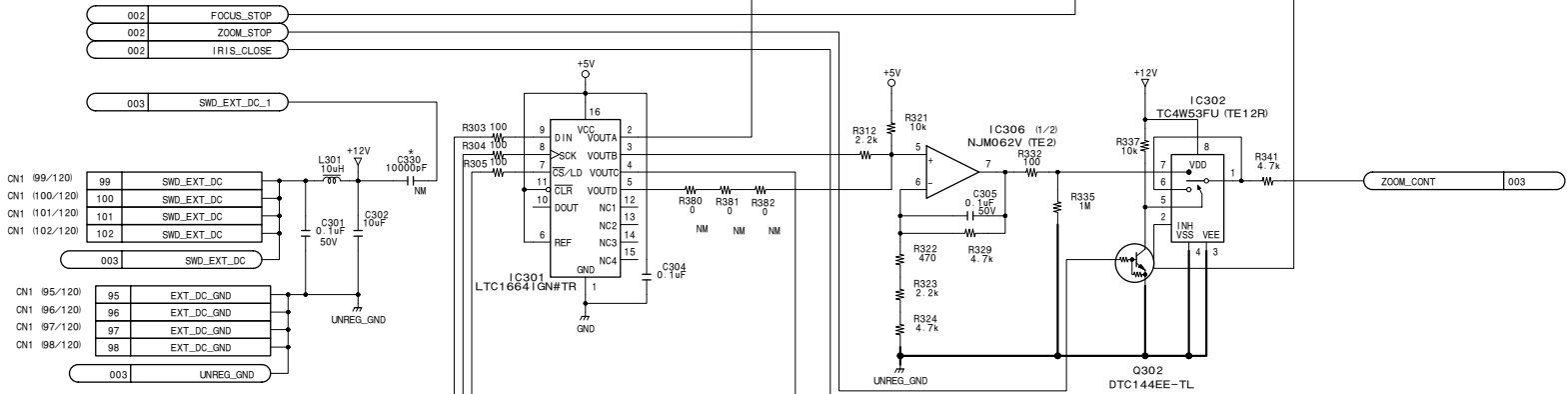
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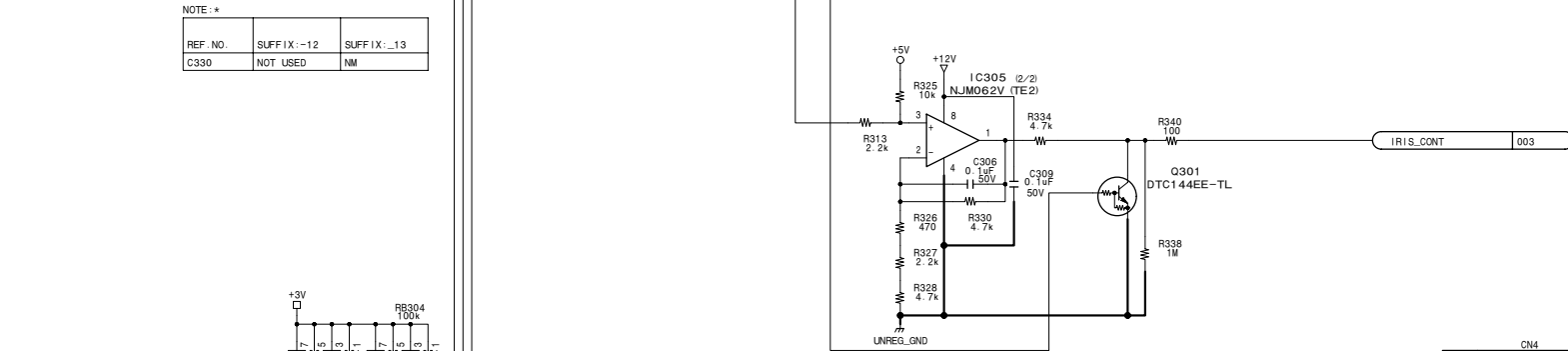
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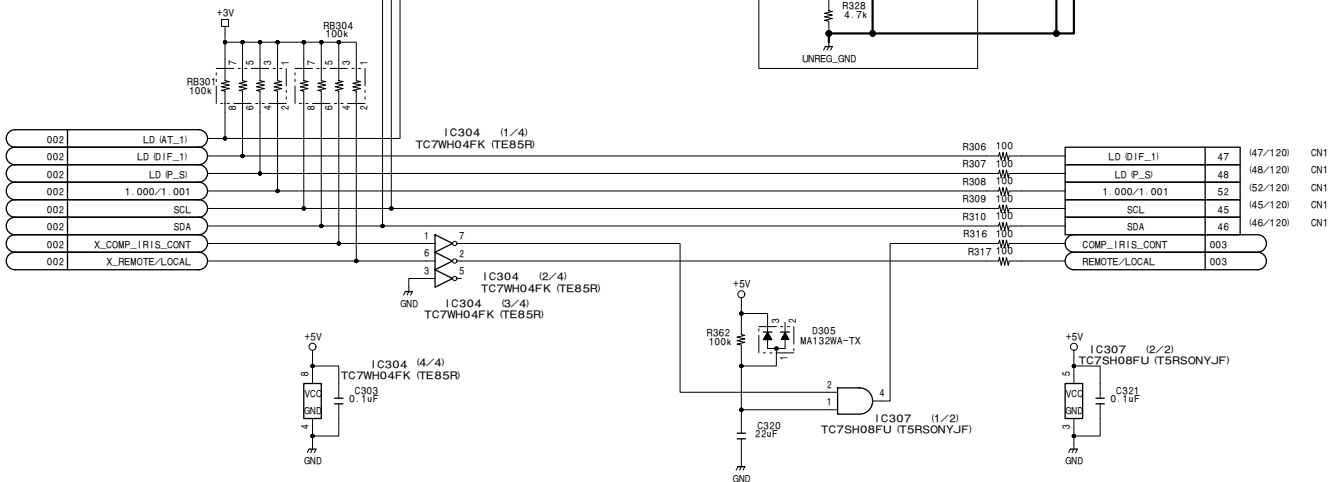
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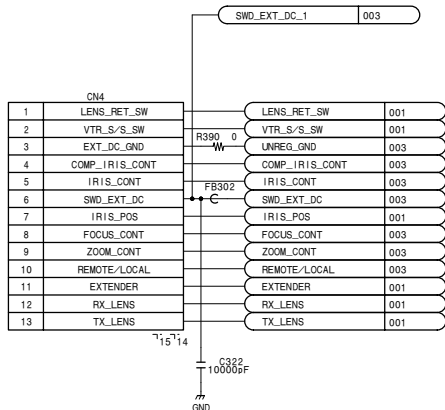


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8-6

8-6



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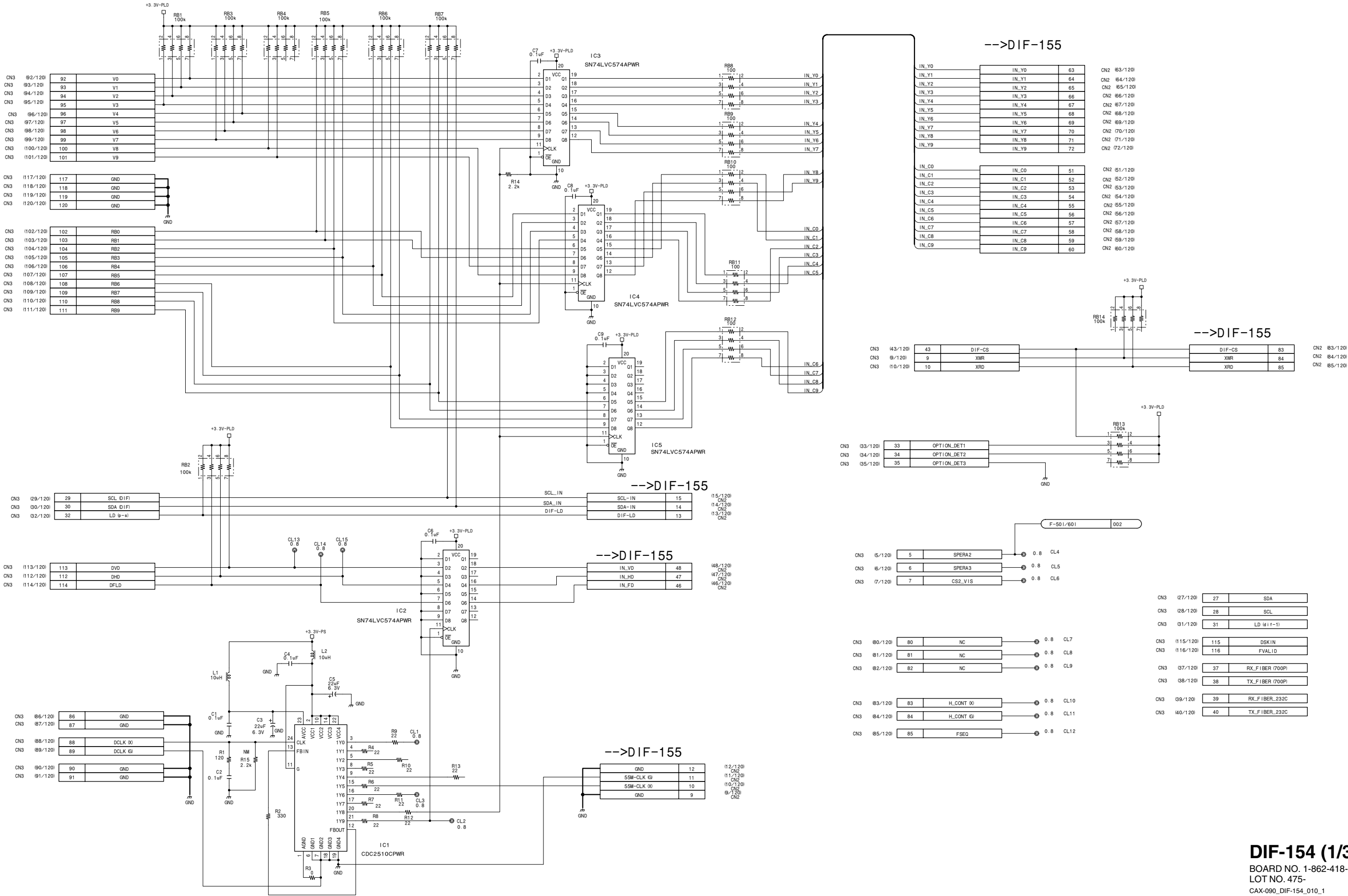
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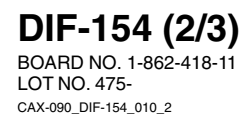
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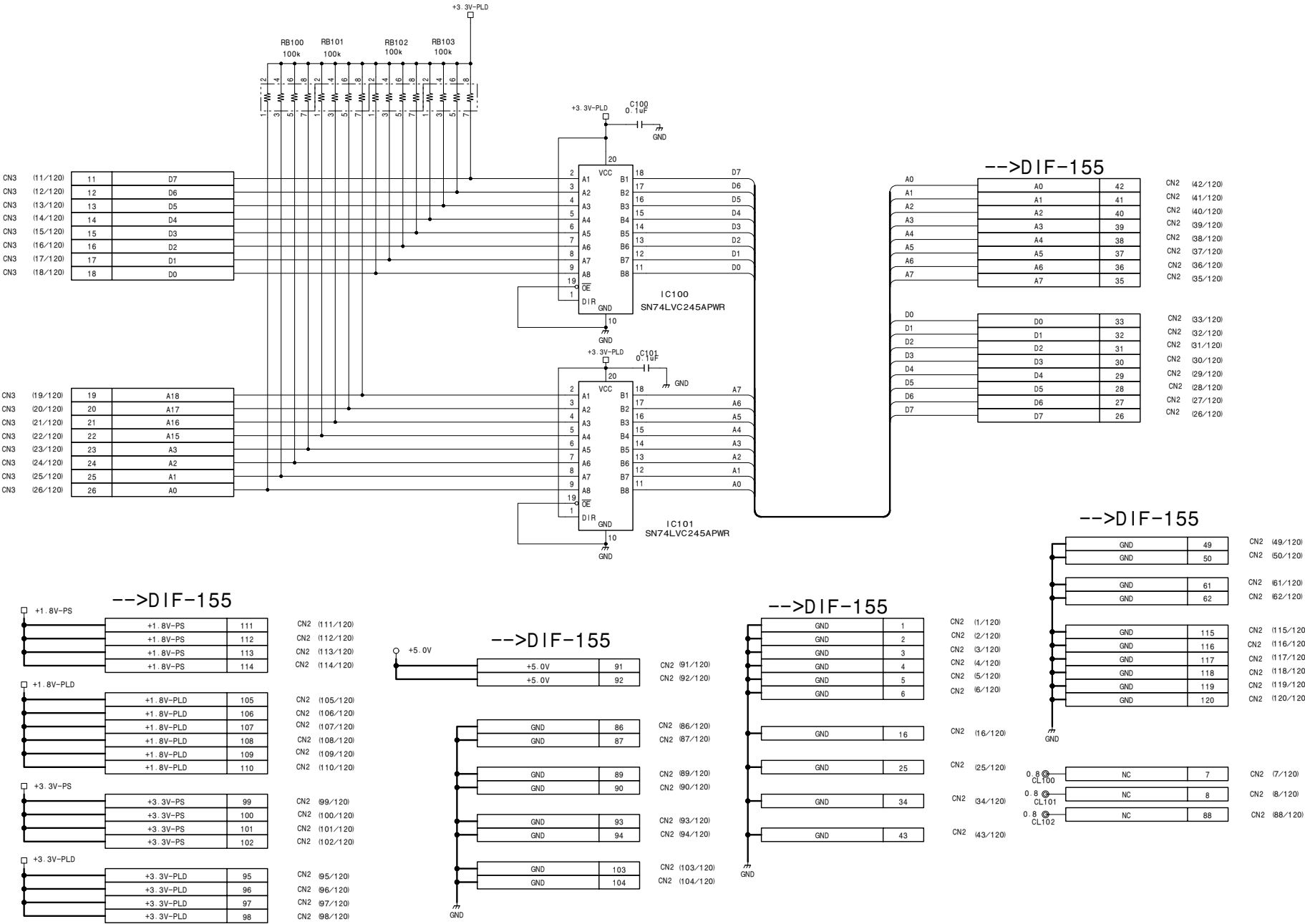
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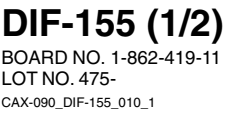
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LOT NO. 475-
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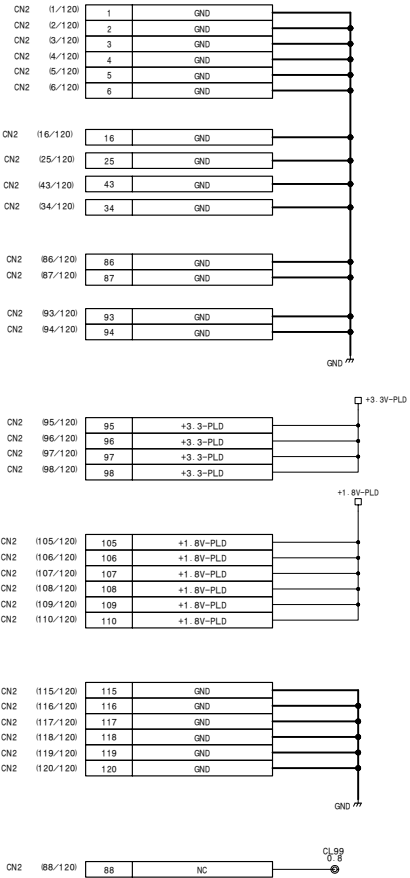
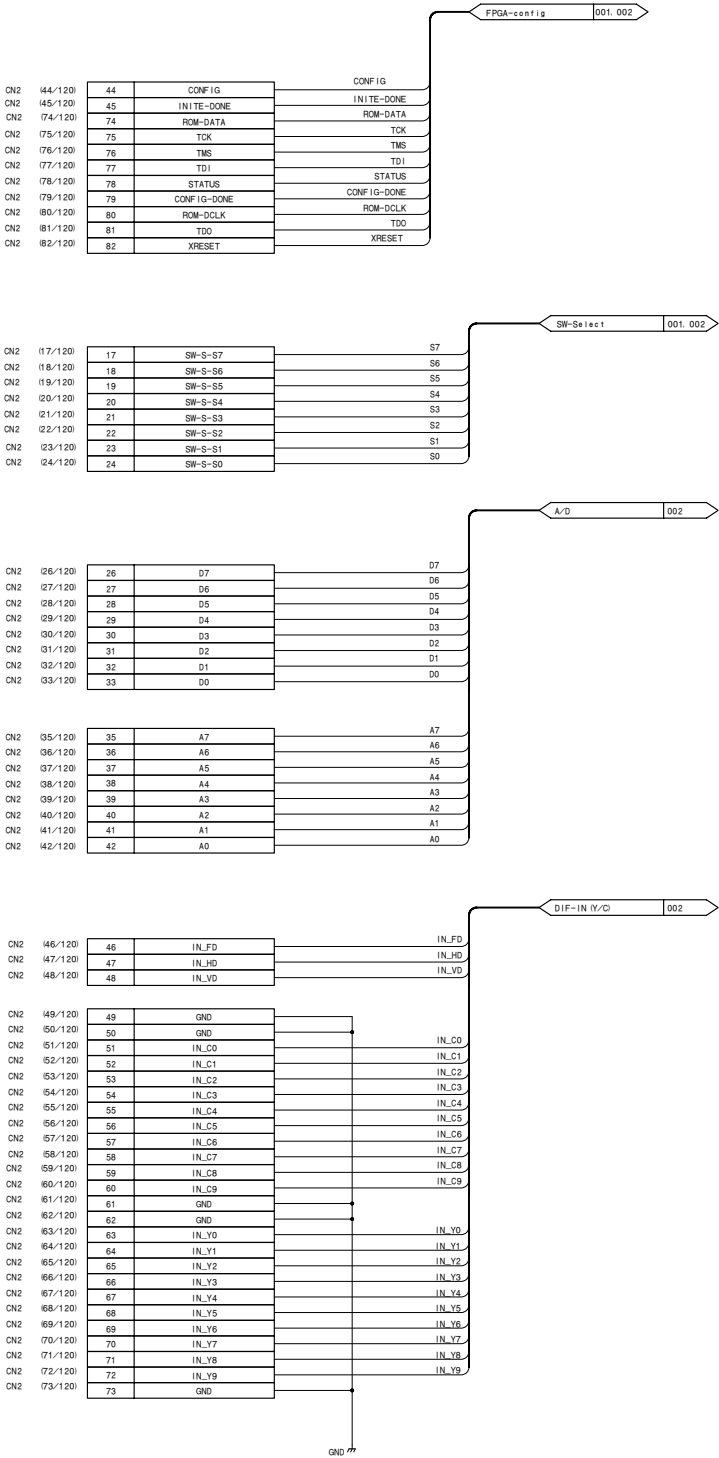
HDC-X300













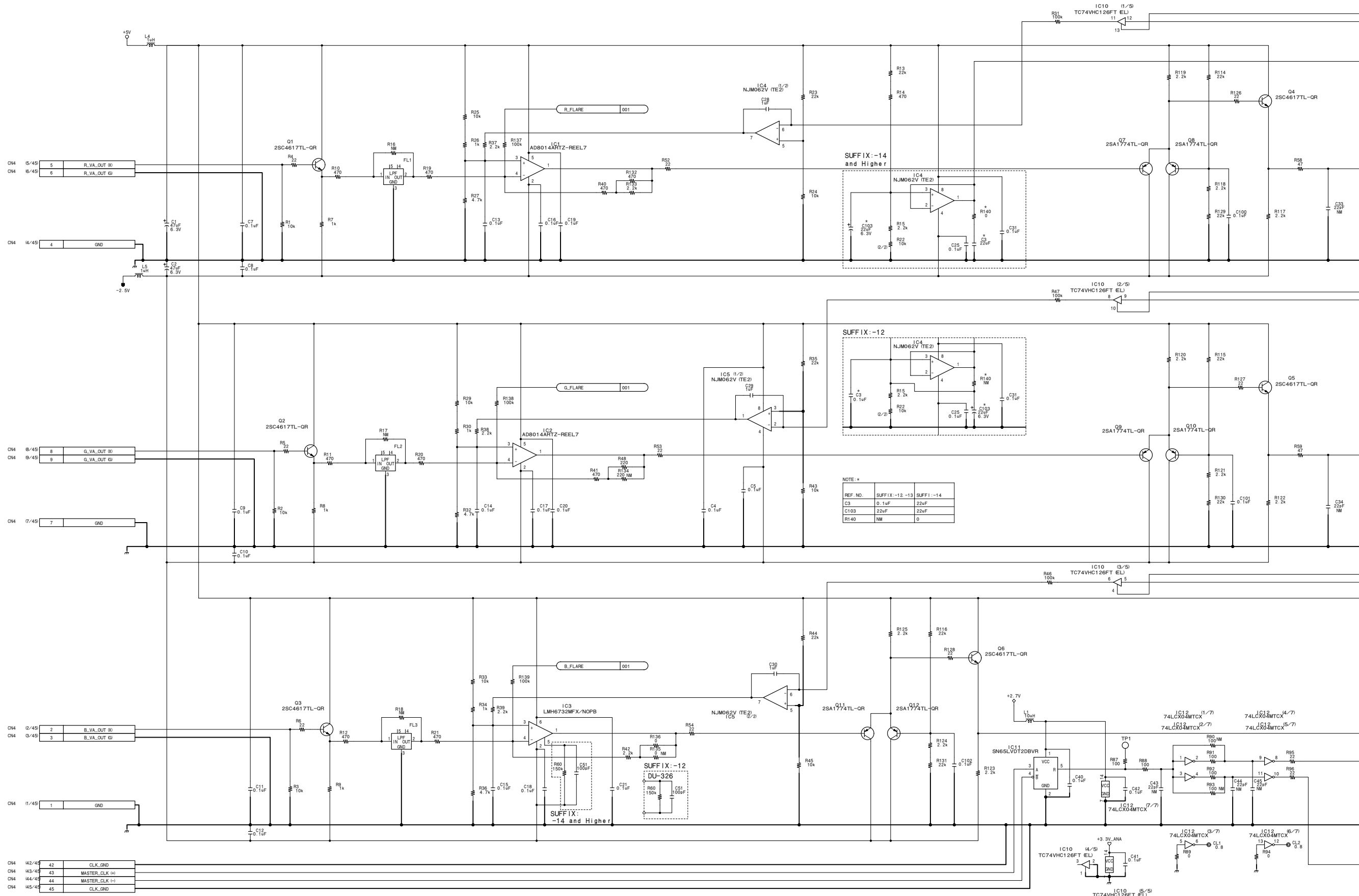
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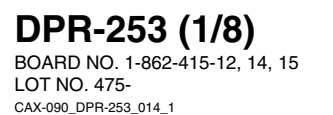
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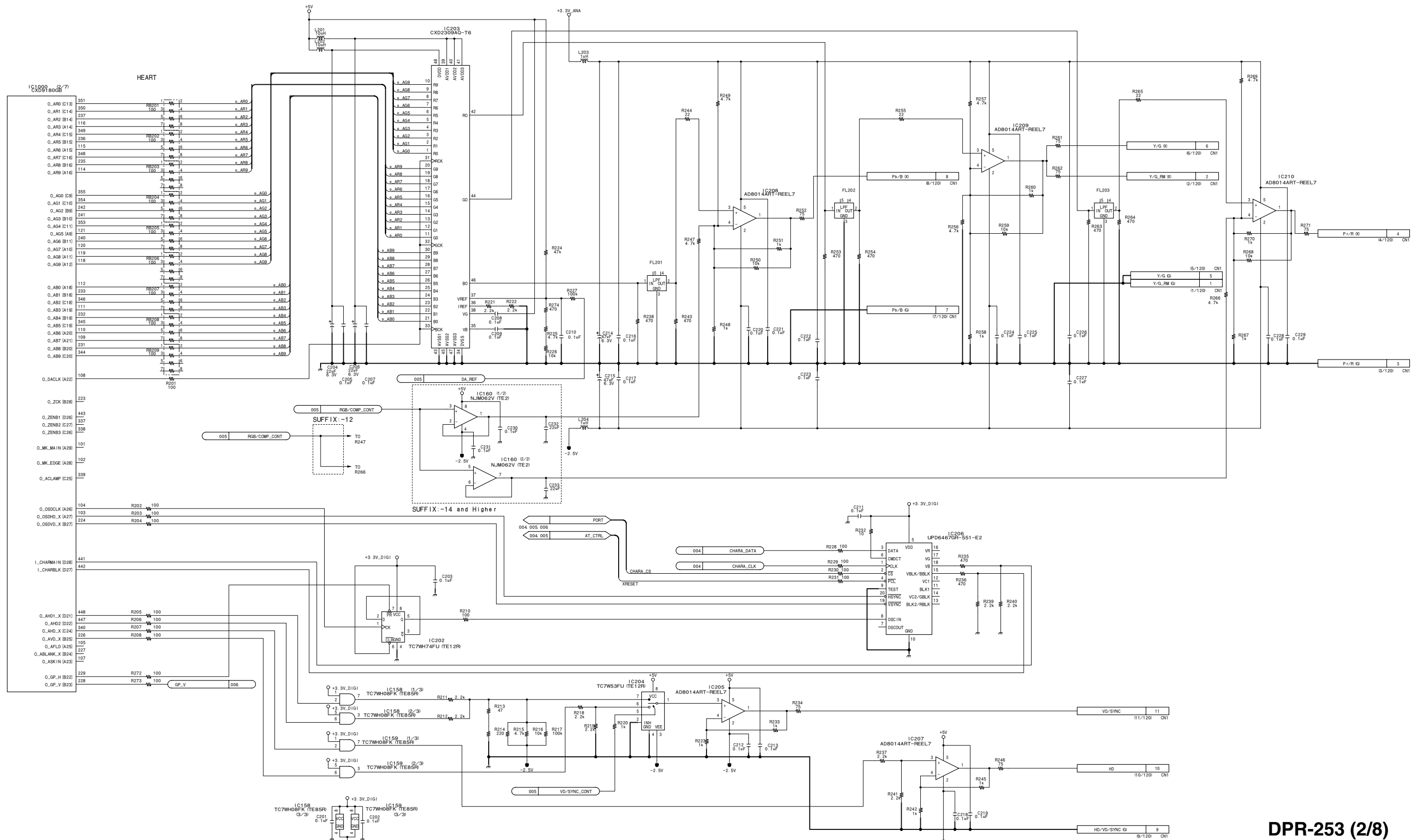
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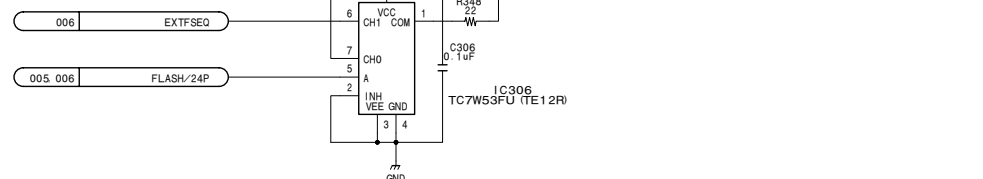




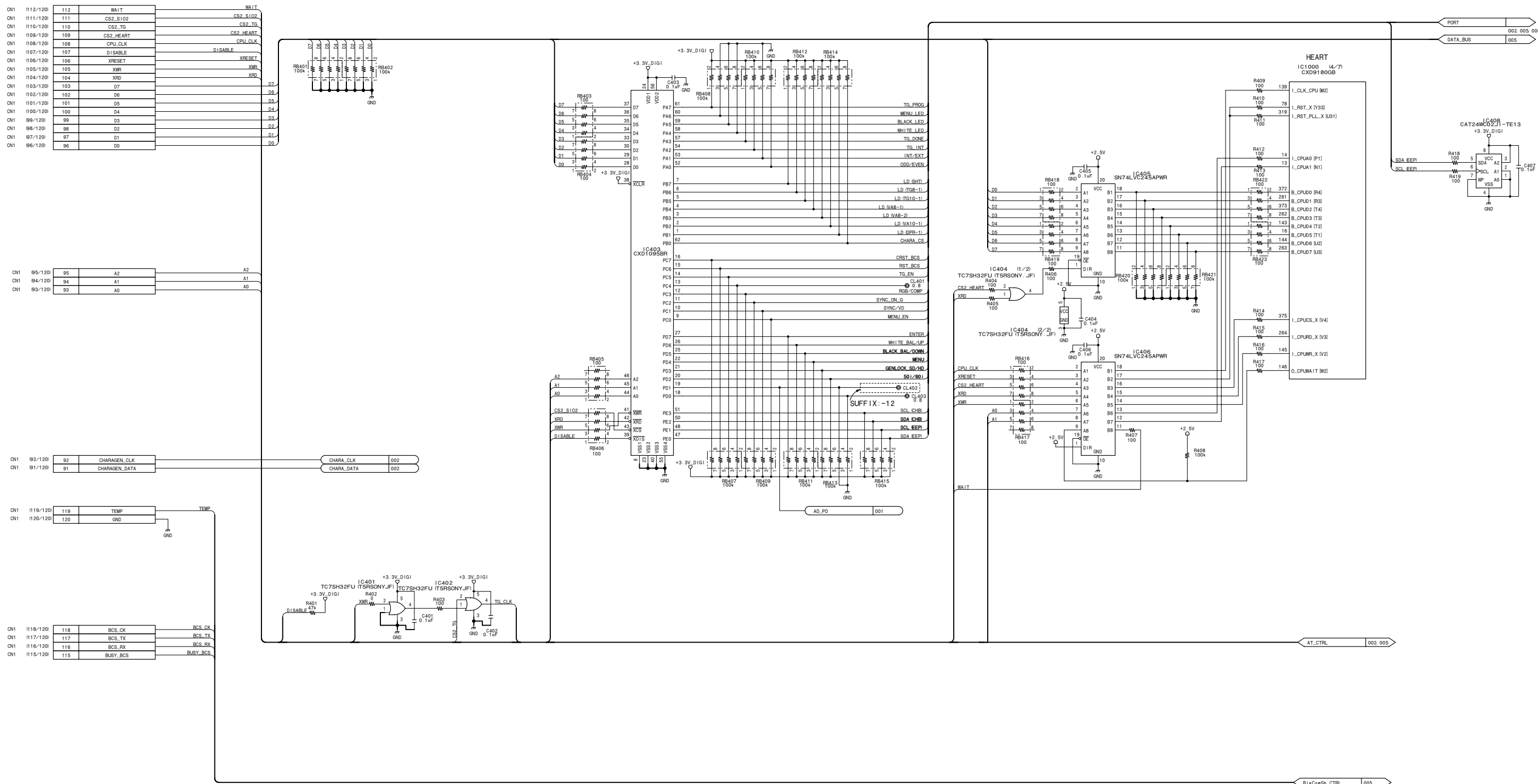


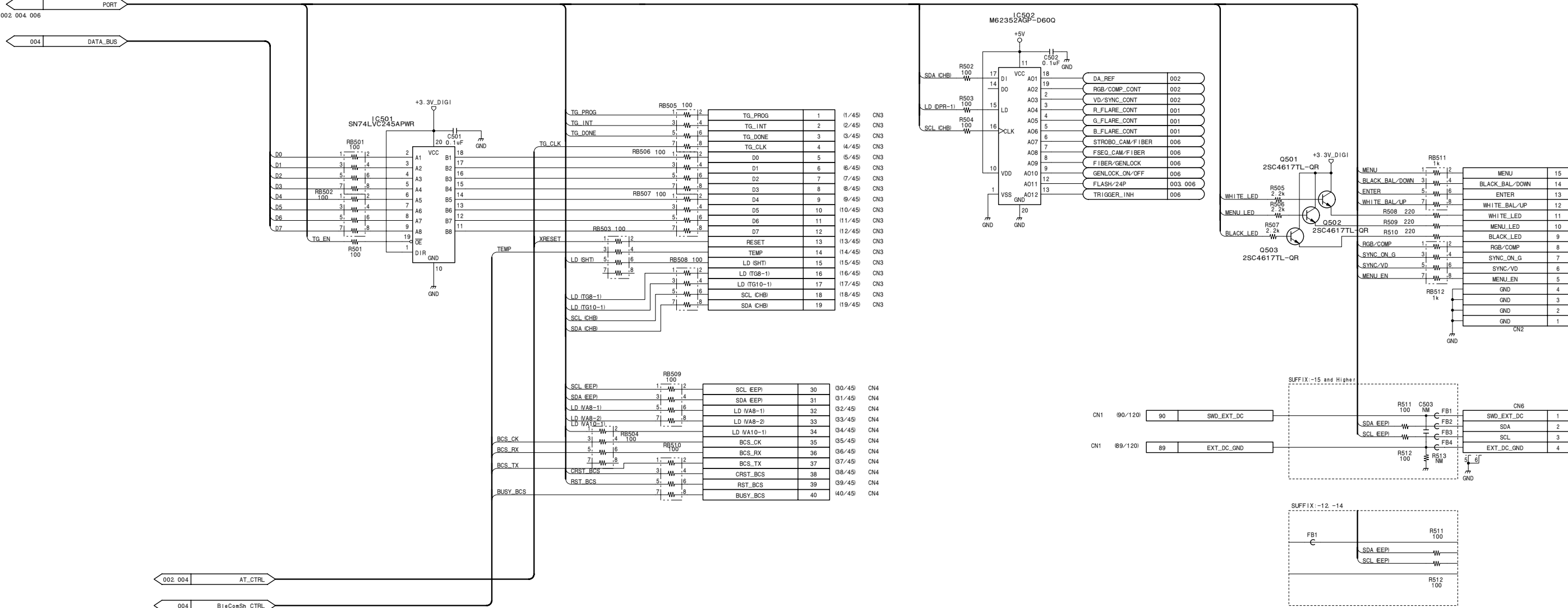
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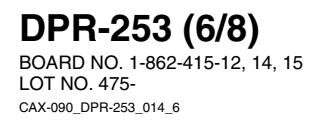
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CAX-090_DPR-253_014_2



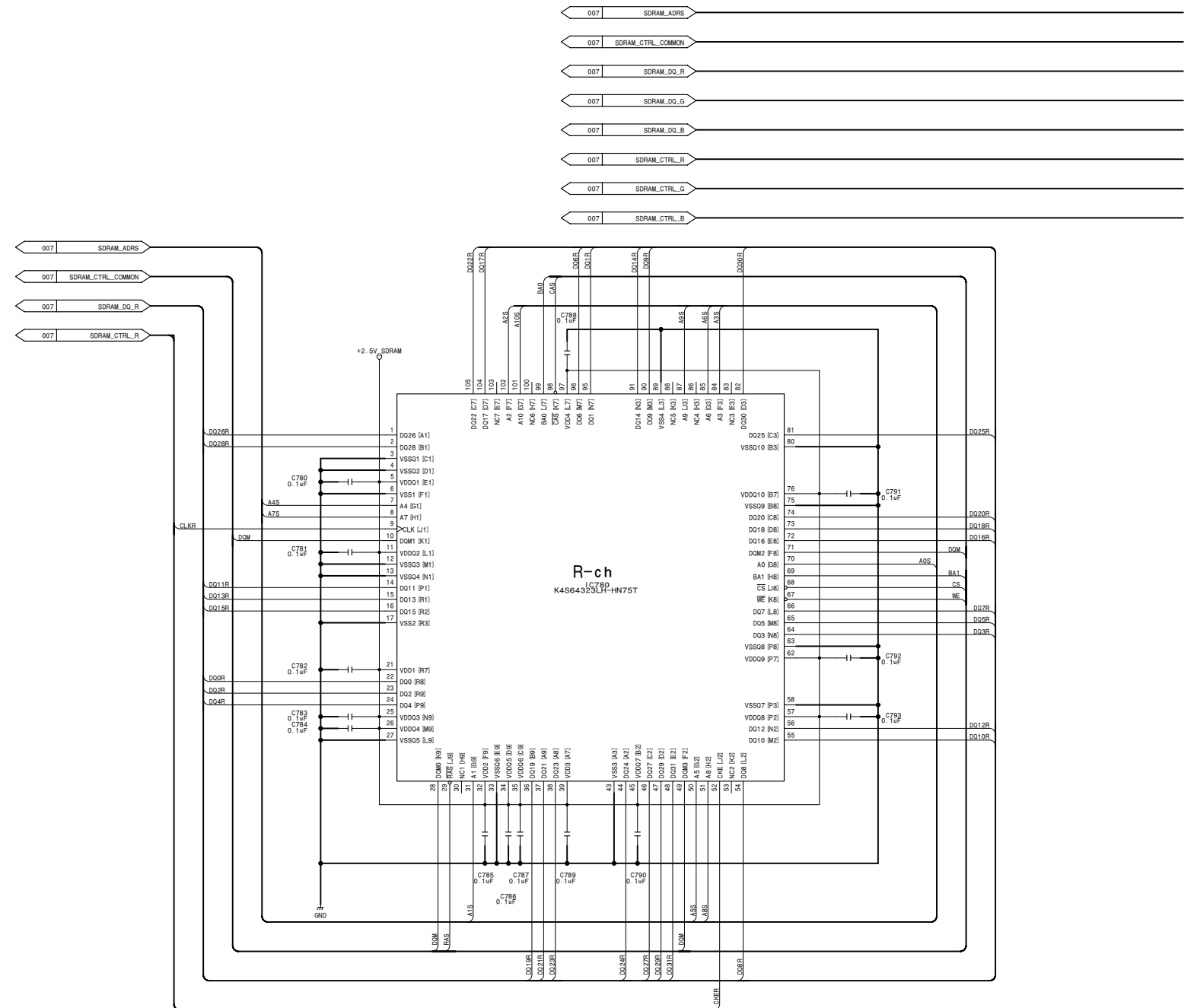
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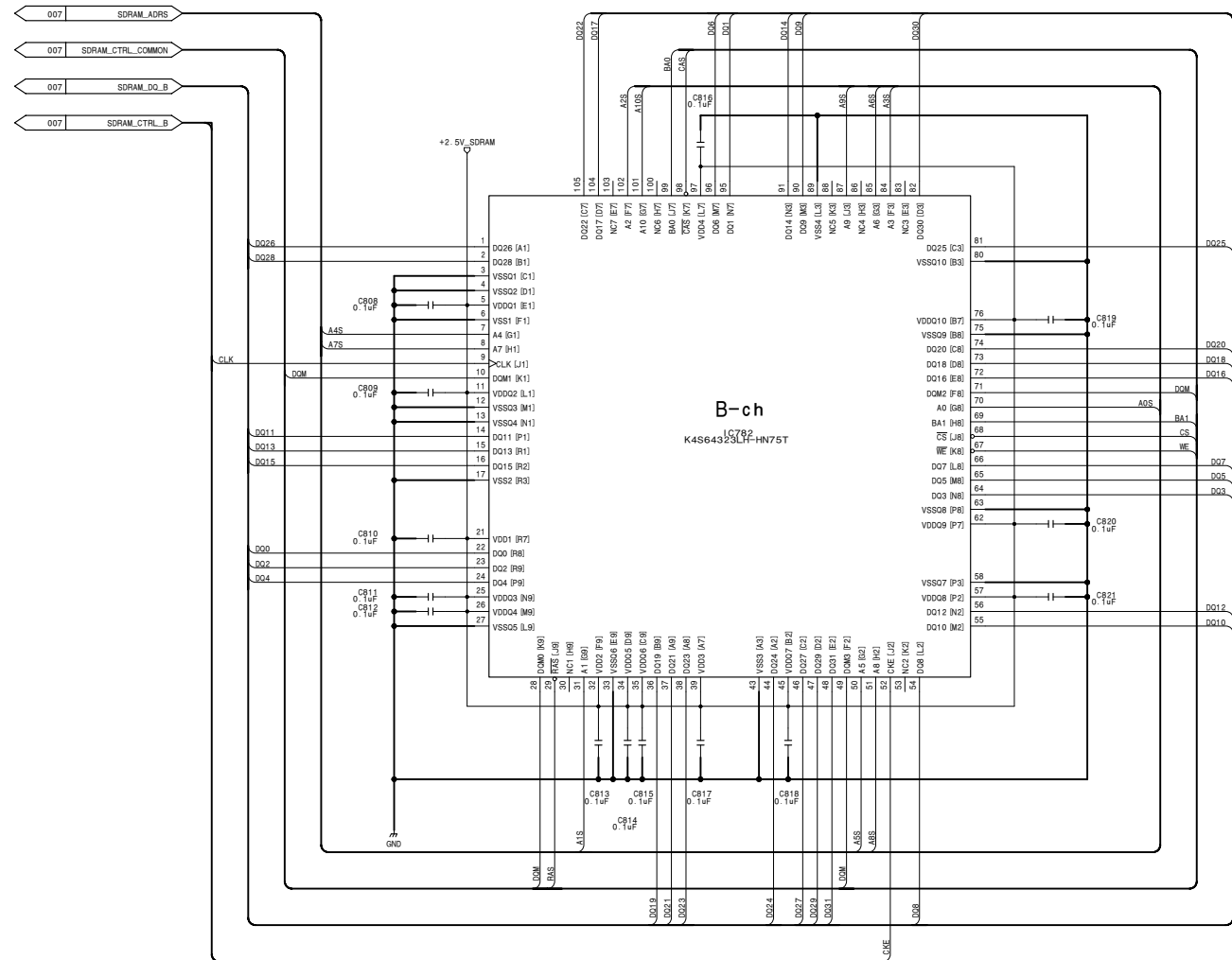






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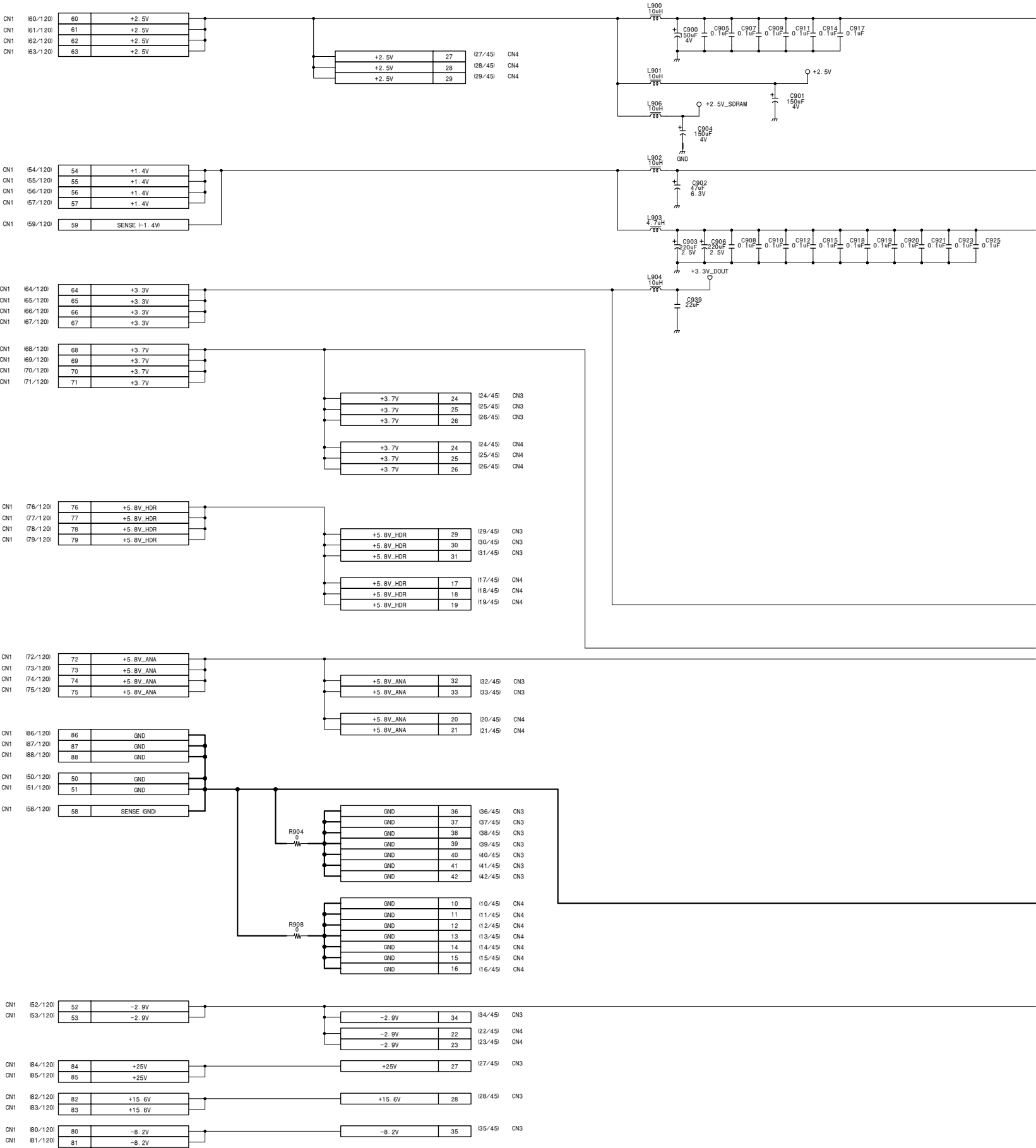
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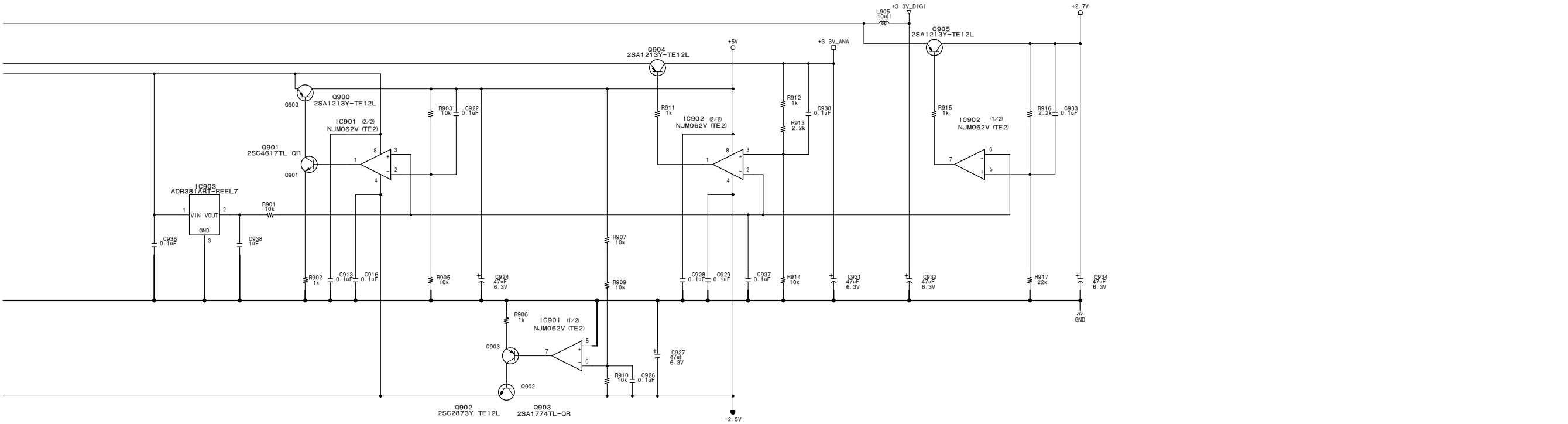
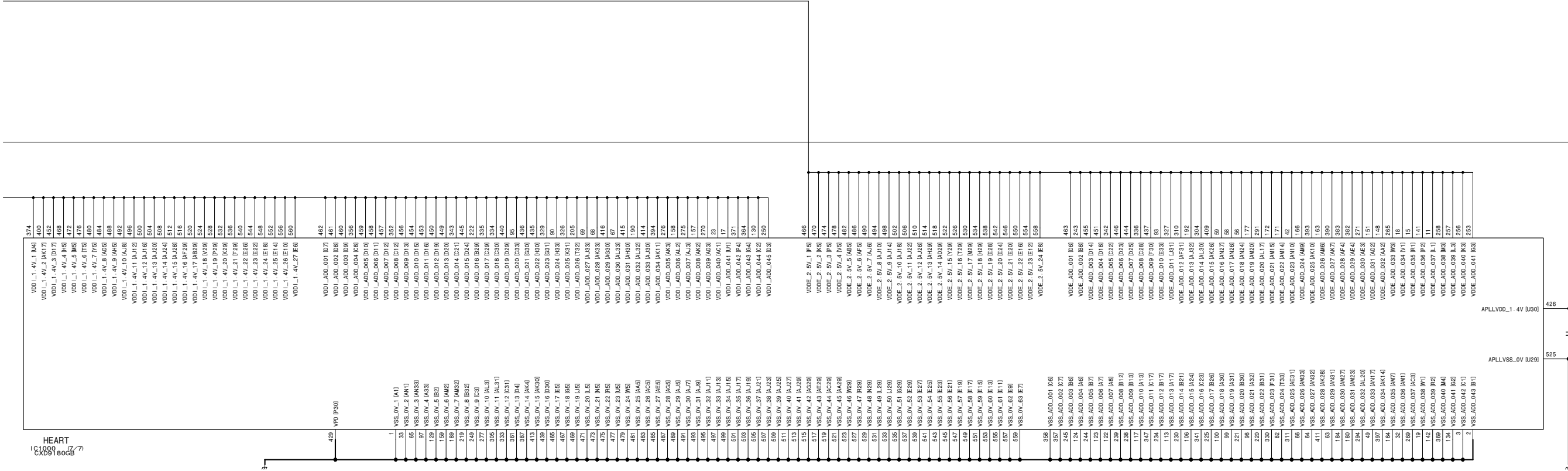
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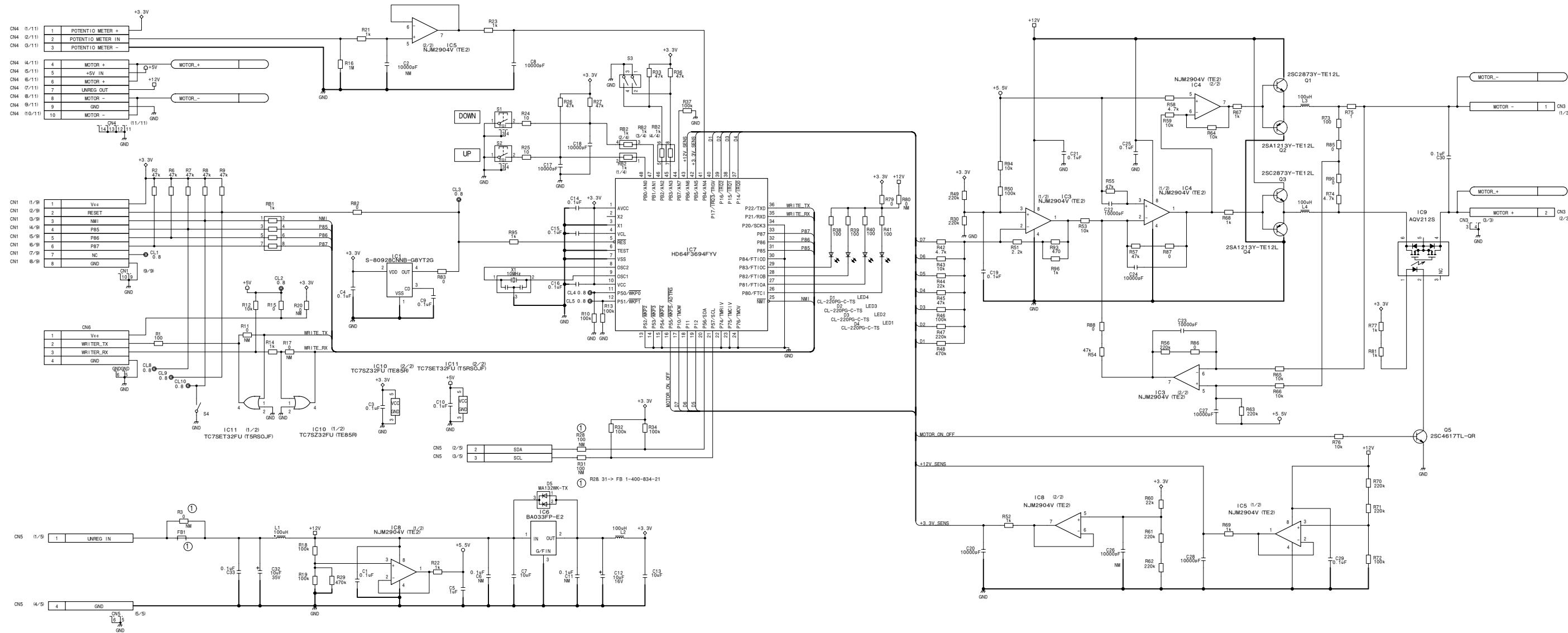
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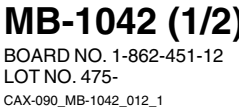
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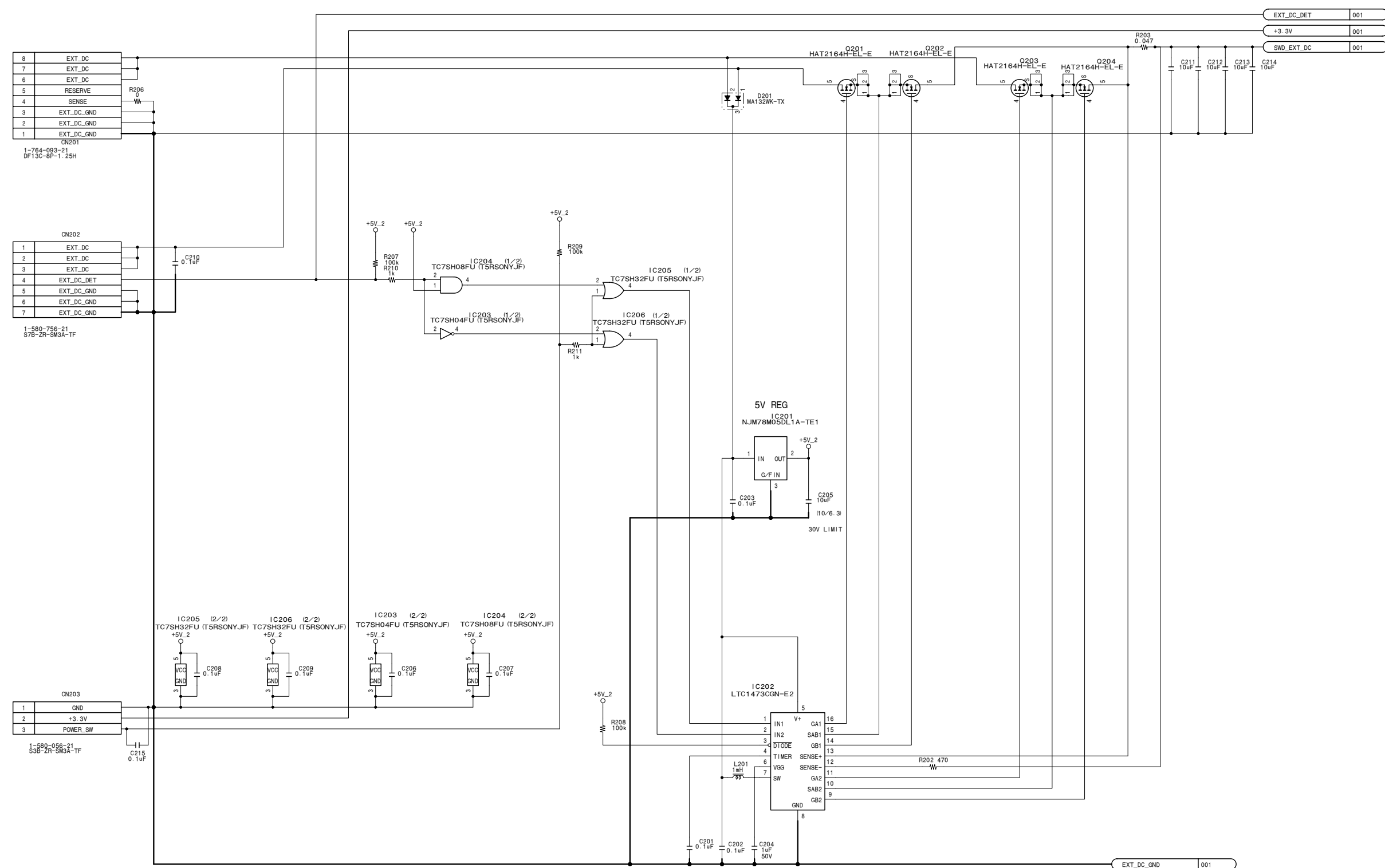
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CAX-090_DPR-253_014_8



DR-567 (HKC-SV1)

BOARD NO. 1-866-796-11
CAXA-090J_DR-567_11P_1





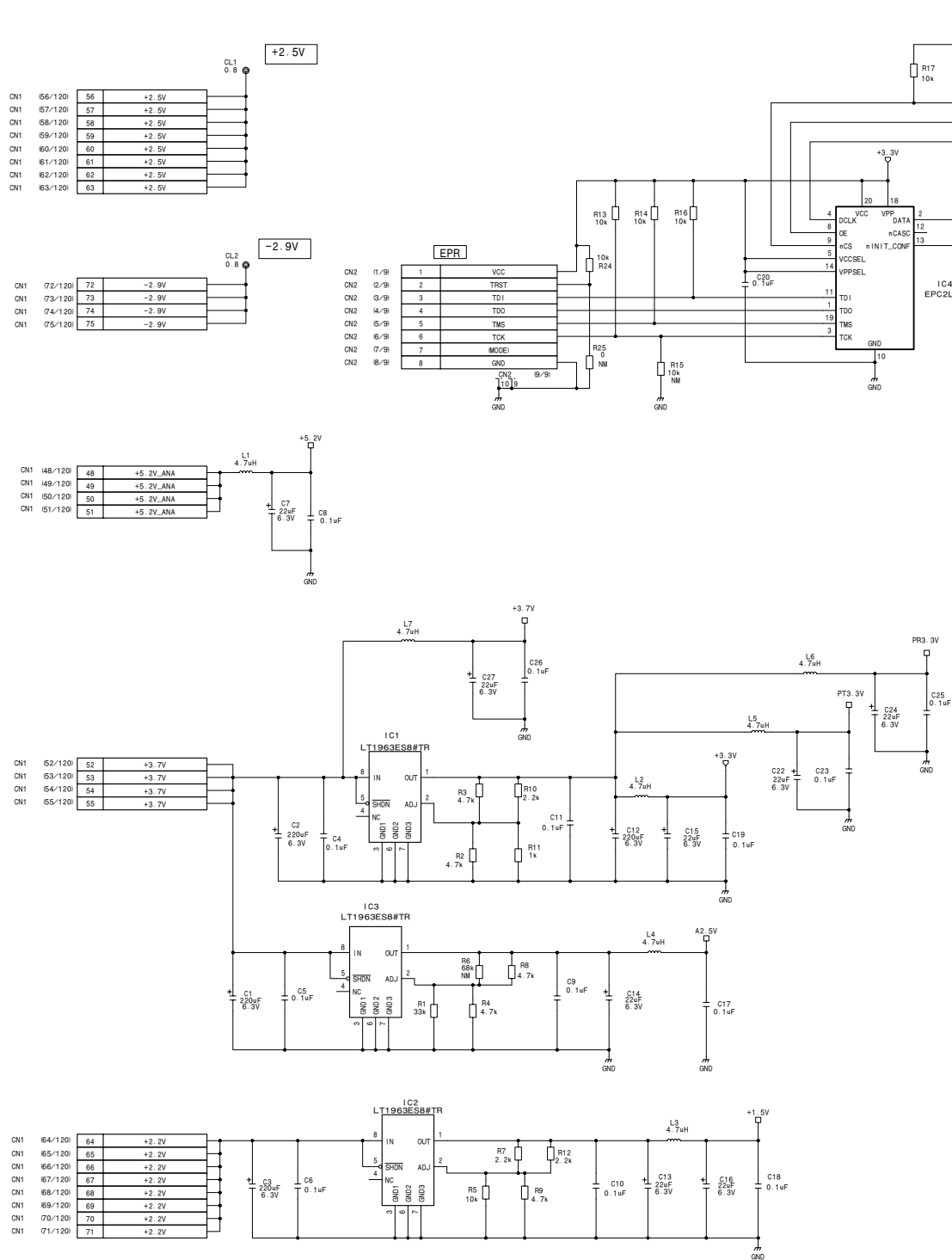
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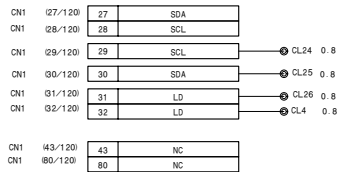
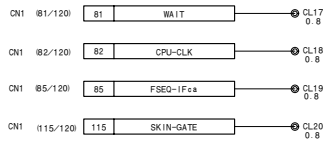
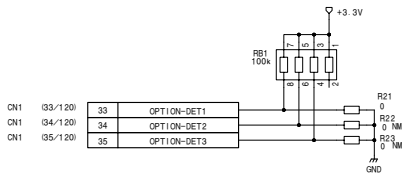
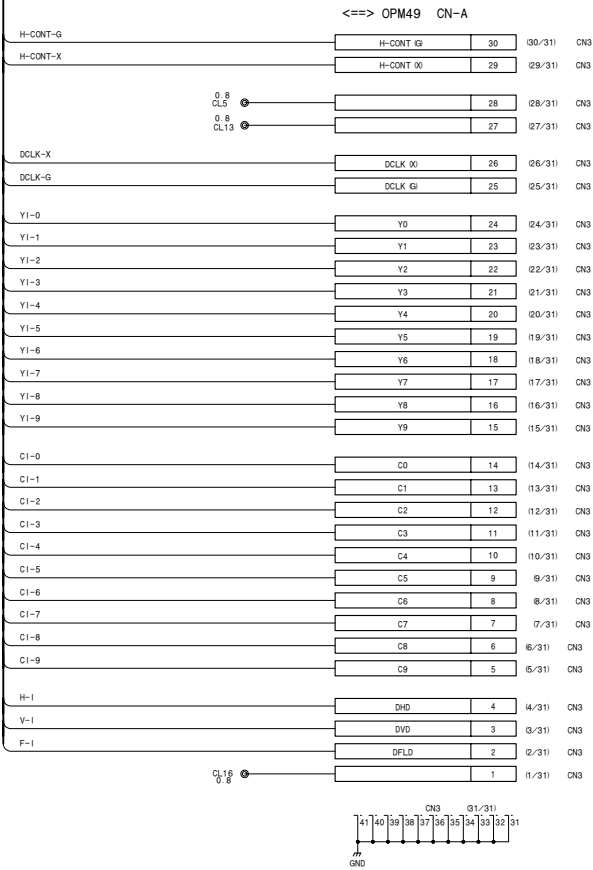
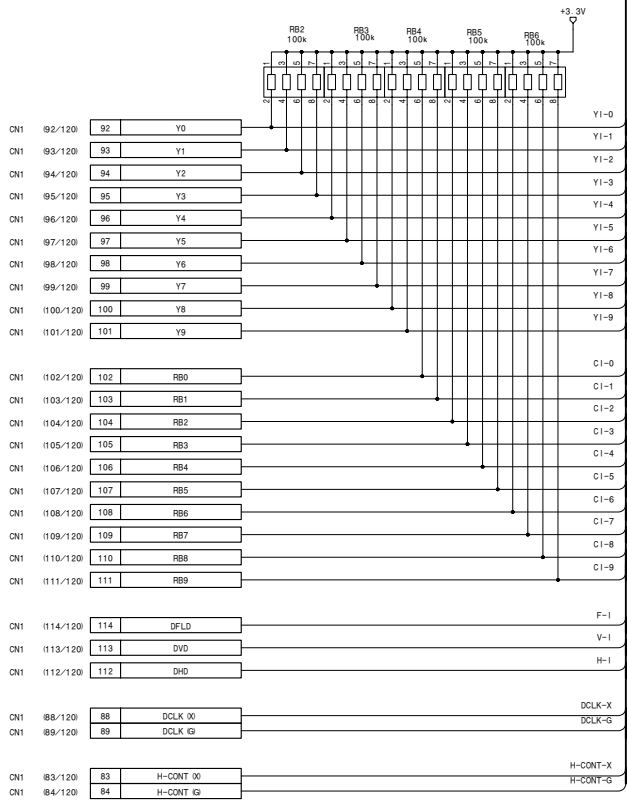
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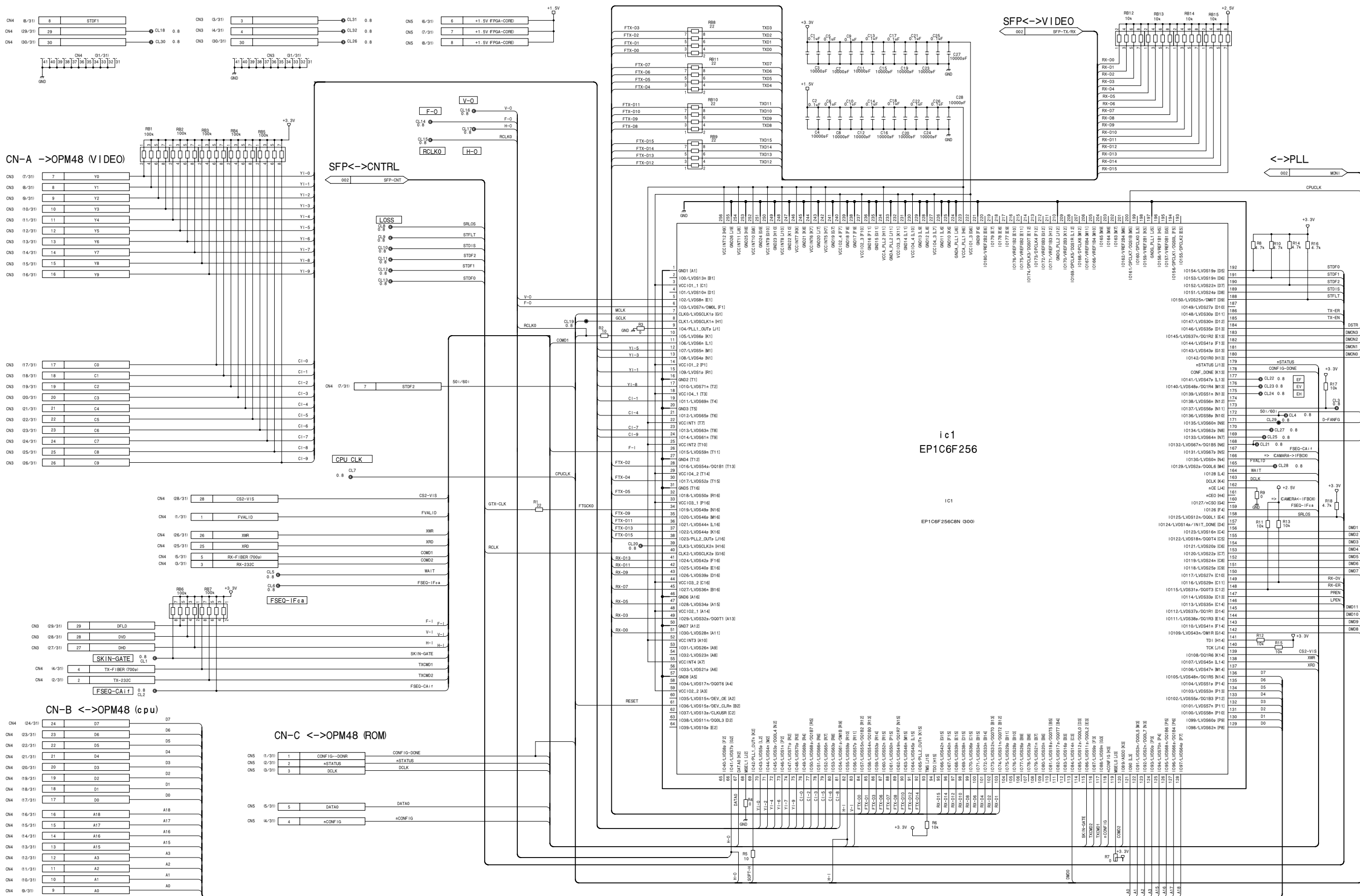


OPM-48 (HDC-X310/X310K)

BOARD NO. 1-866-794-11
CAX-090_OPM-48_110_1

OPM-49 (HDC-X310/X310K) (1/2)

OPM-49 (HDC-X310/X310K) (1/2)

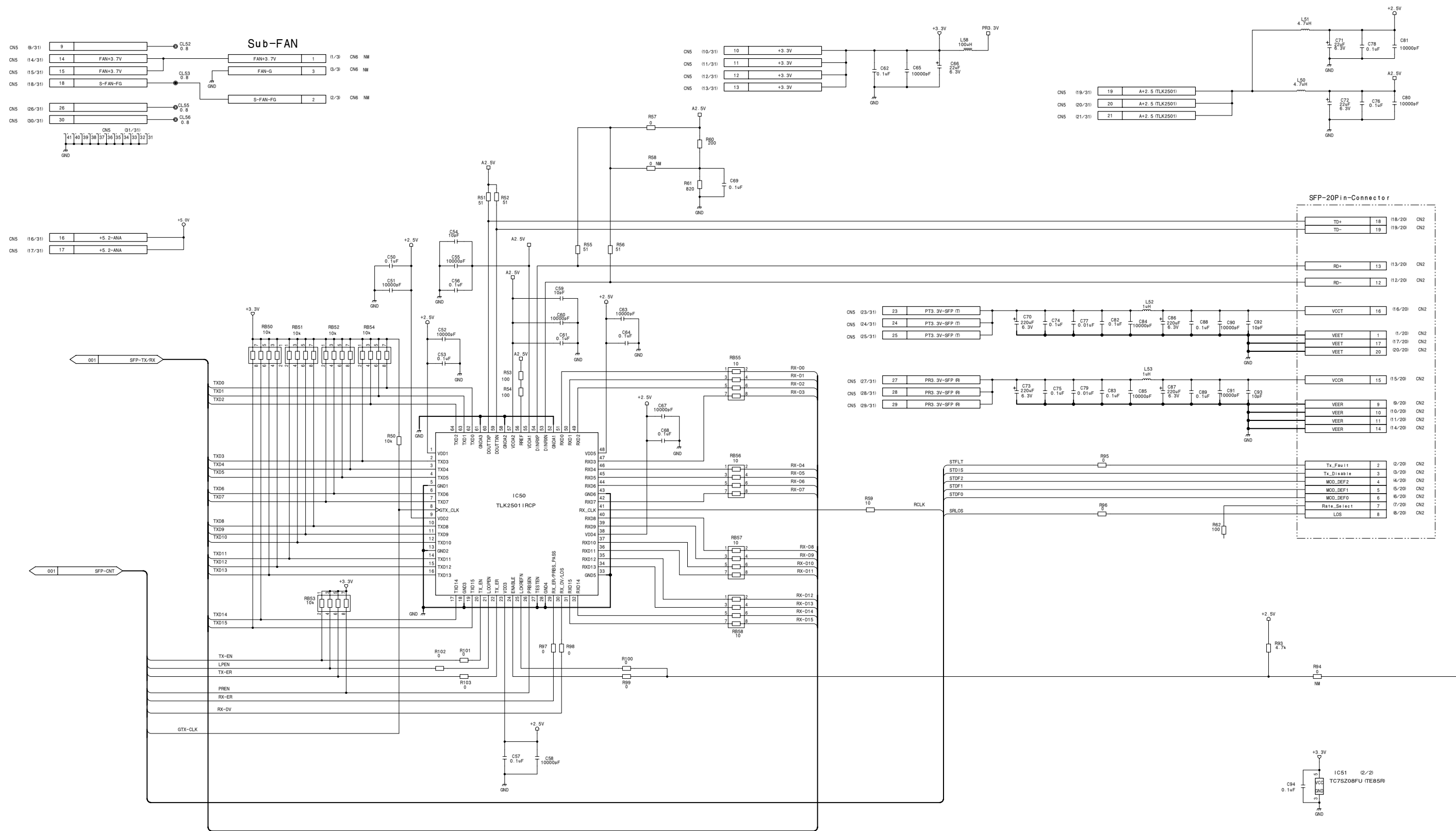


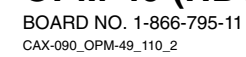
OPM-49 (HDC-X310/X310K) (1/2)

BOARD NO. 1-866-795-11

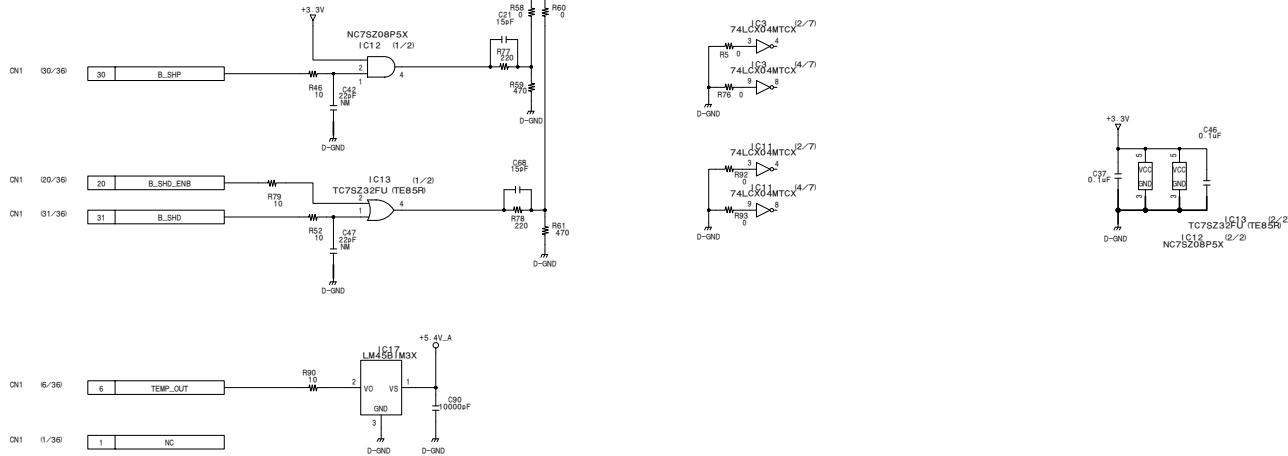
CAX-090_OPM-49_110_1

OPM-49 (HDC-X310/X310K) (2/2)

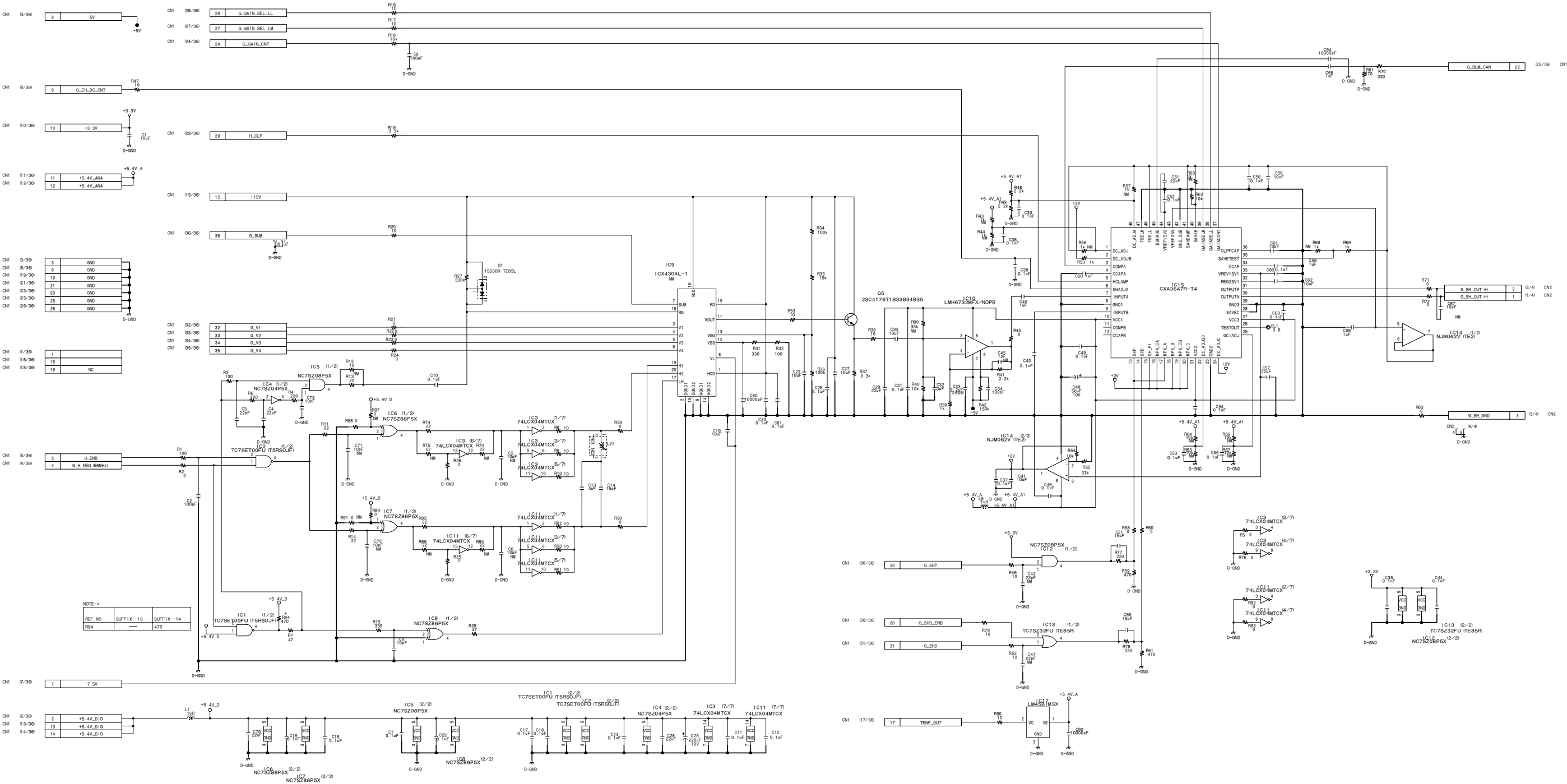


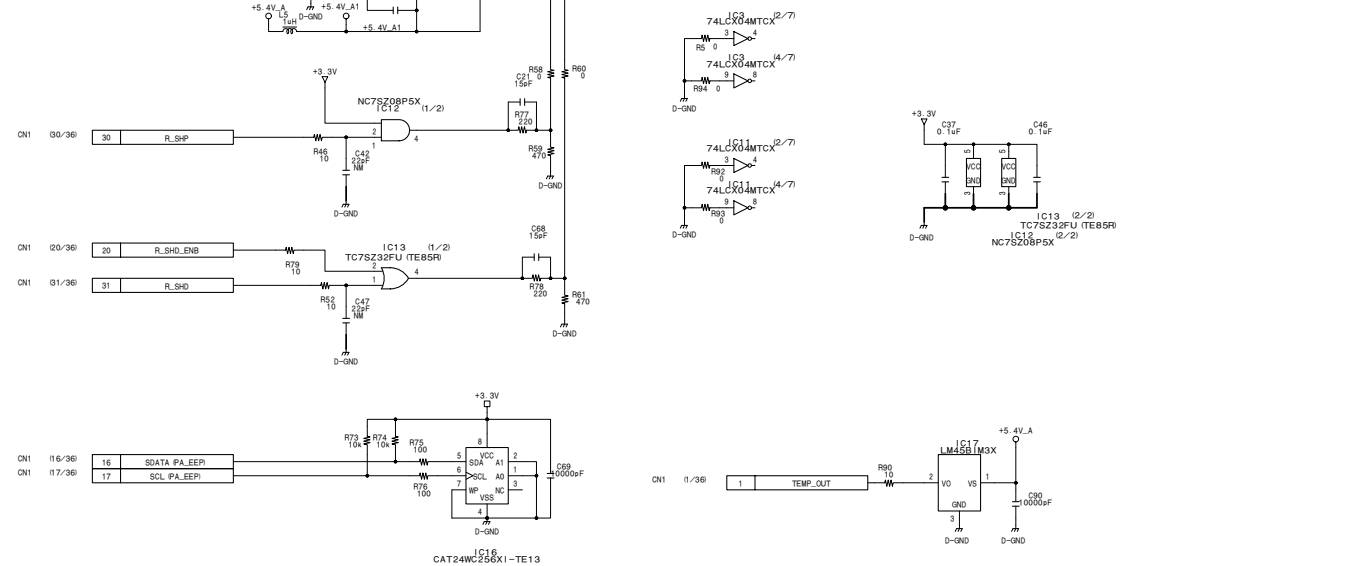


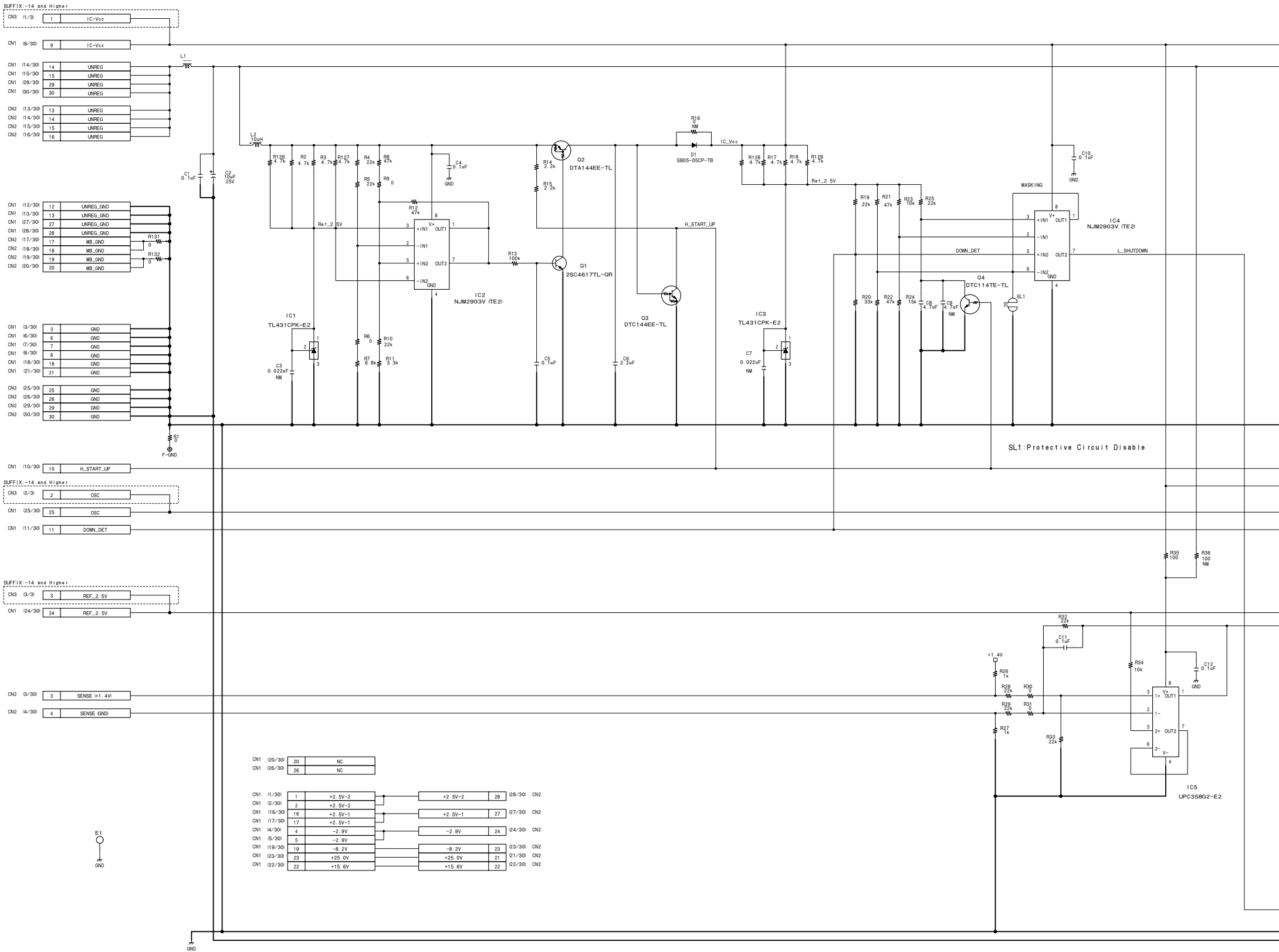
5

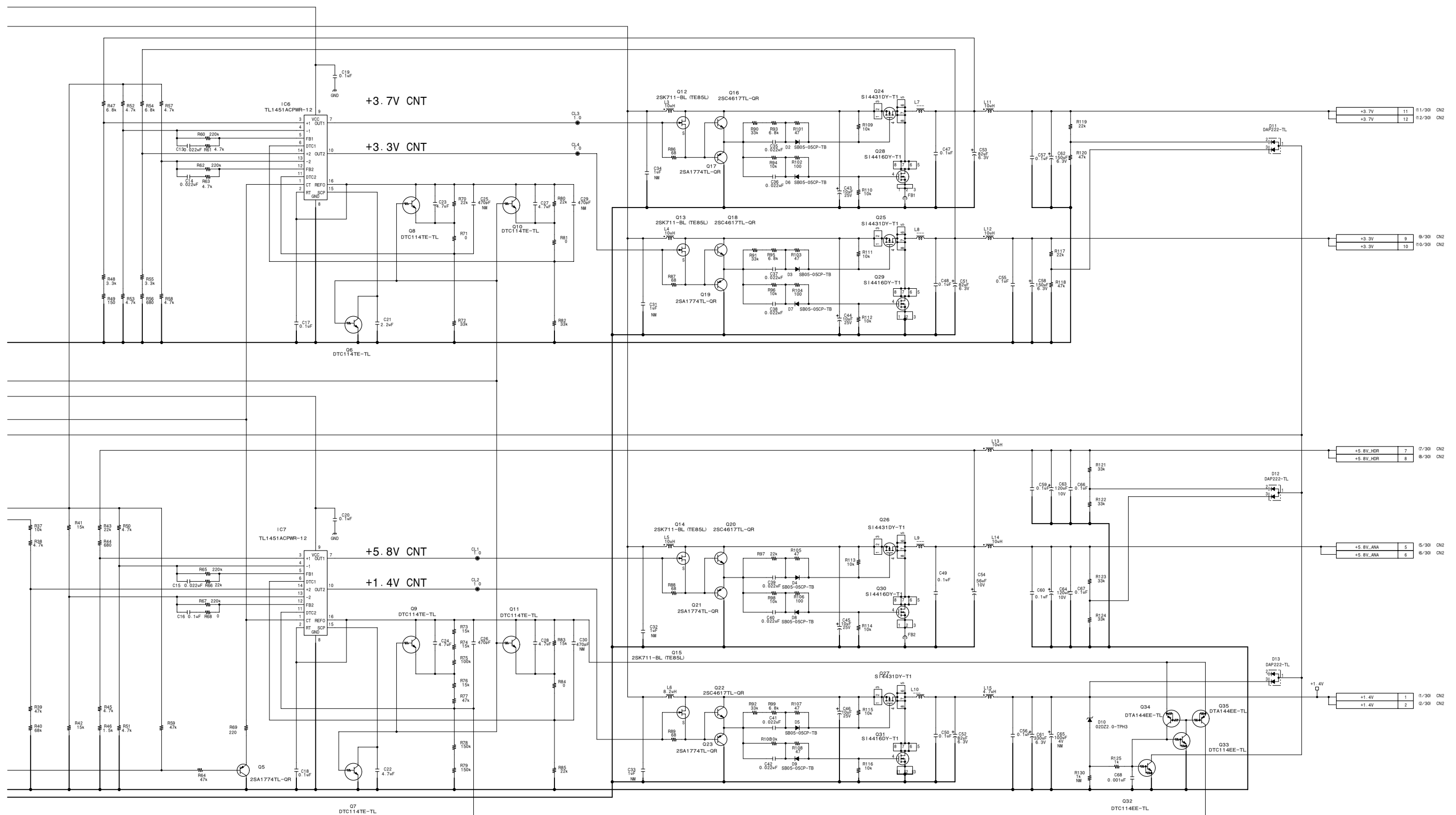


HDC-X300









RE-218
BOARD NO. 1-862-449-12, 14
LOT NO. 475-
CAX-090_RE-218_014_1

1

CN1	14/30	14	UNREG
CN1	15/30	15	UNREG
CN1	29/30	29	UNREG
CN1	30/30	30	UNREG

2

SUFFIX:--13 and Higher			
CN3	11/30	1	IC_Vcc
CN1	9/30	9	IC_Vcc

3

SUFFIX:--13 and Higher			
CN3	12/30	2	OSC
CN1	25/30	25	OSC

CN1	10/30	10	H_START_UP
-----	-------	----	------------

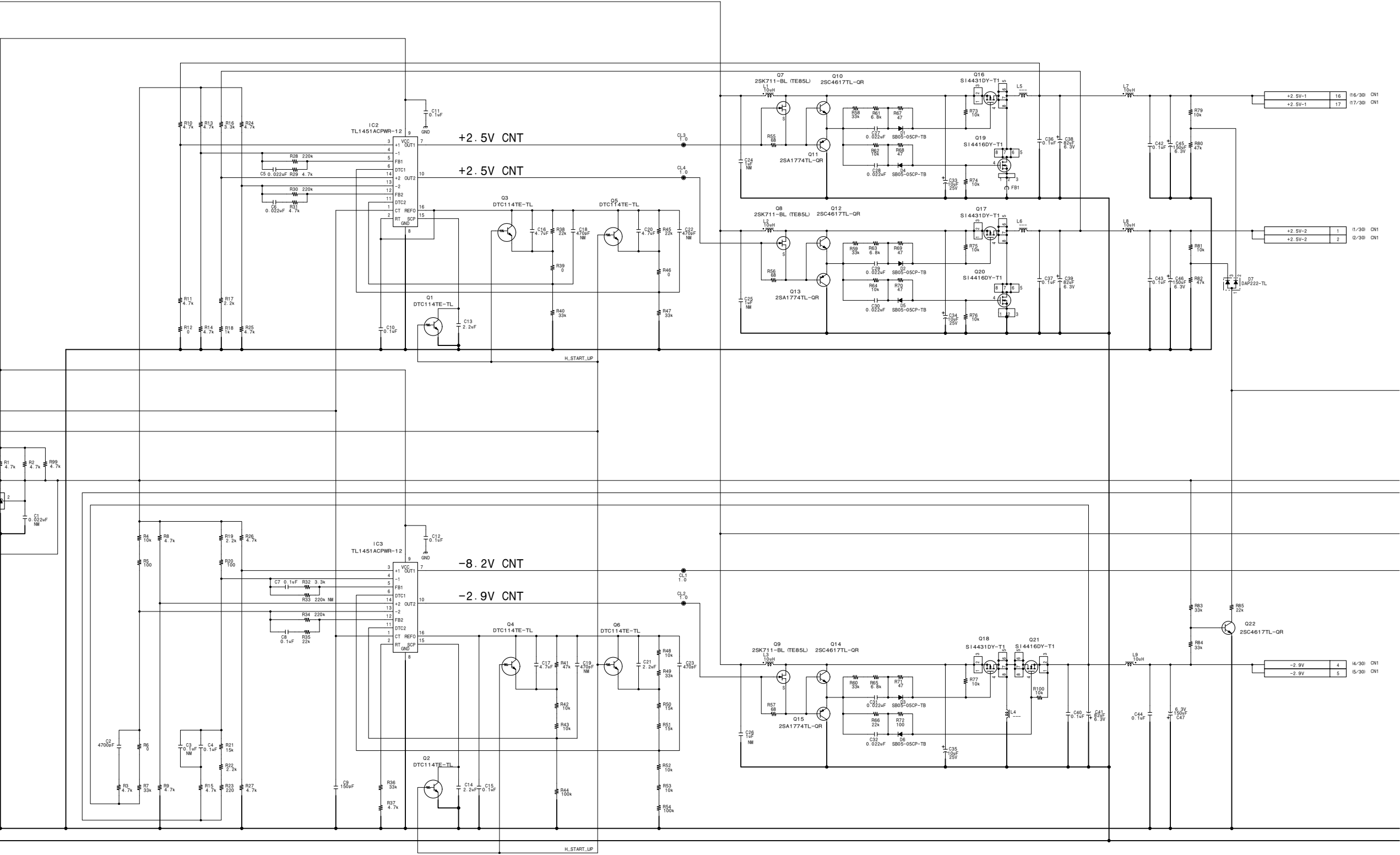
4

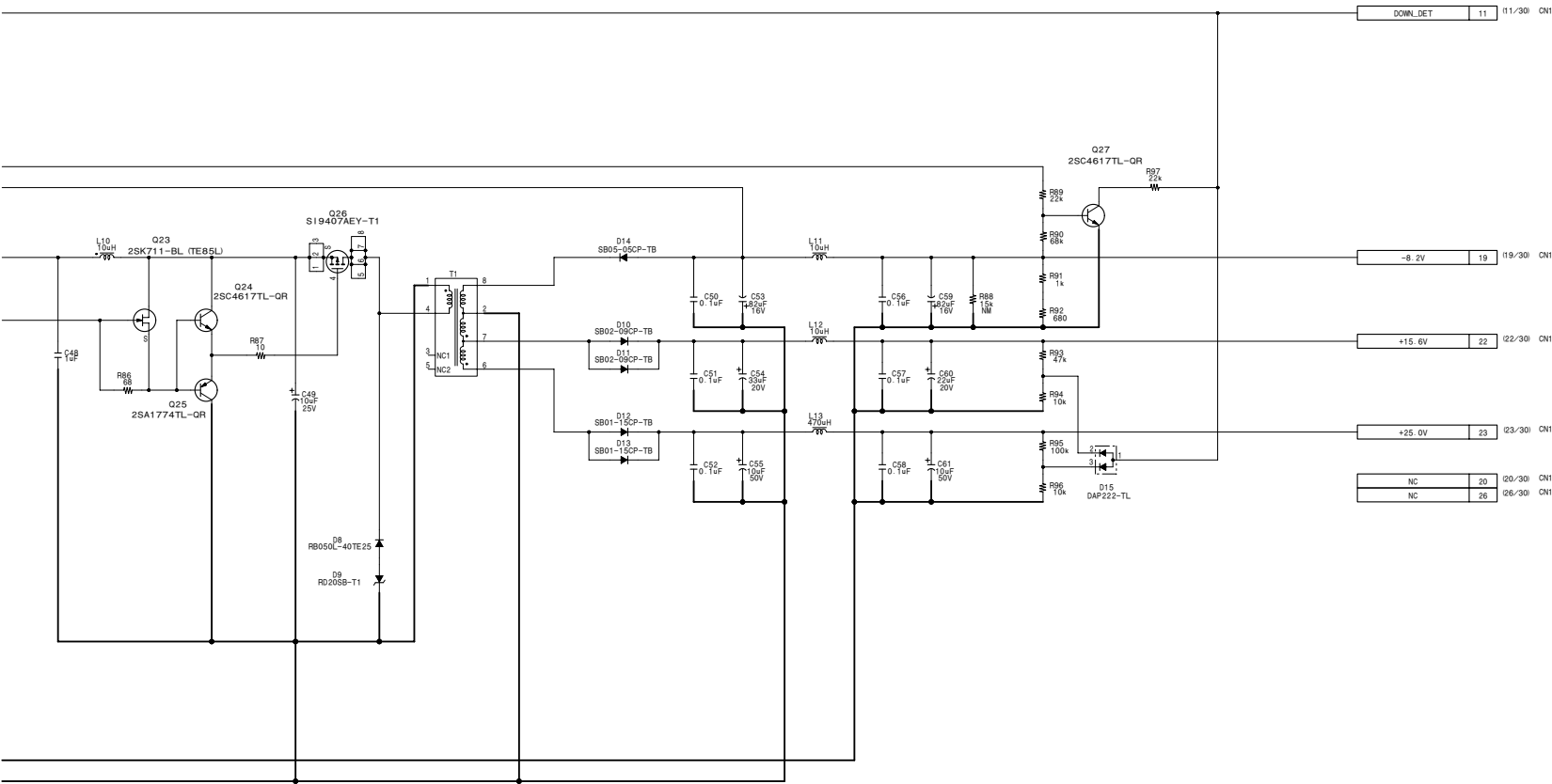
SUFFIX:--13 and Higher			
CN3	13/30	3	REF_2.5V
CN1	24/30	24	REF_2.5V

5

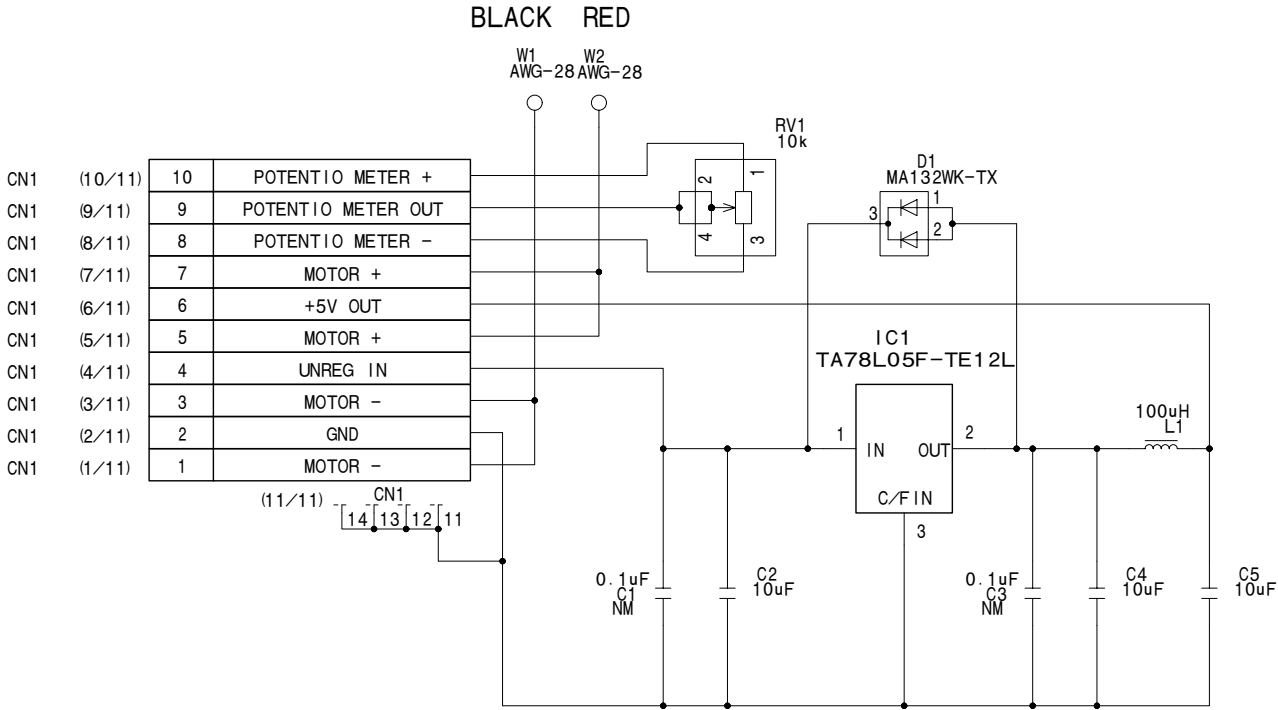
CN1	12/30	12	UNREG_GND
CN1	13/30	13	UNREG_GND
CN1	27/30	27	UNREG_GND
CN1	28/30	28	UNREG_GND

CN1	3/30	3	GND
CN1	6/30	6	GND
CN1	7/30	7	GND
CN1	8/30	8	GND
CN1	18/30	18	GND
CN1	21/30	21	GND





RE-219
BOARD NO. 1-862-450-12, 14
LOT NO. 475-
CAX-090_RE-219_013_1

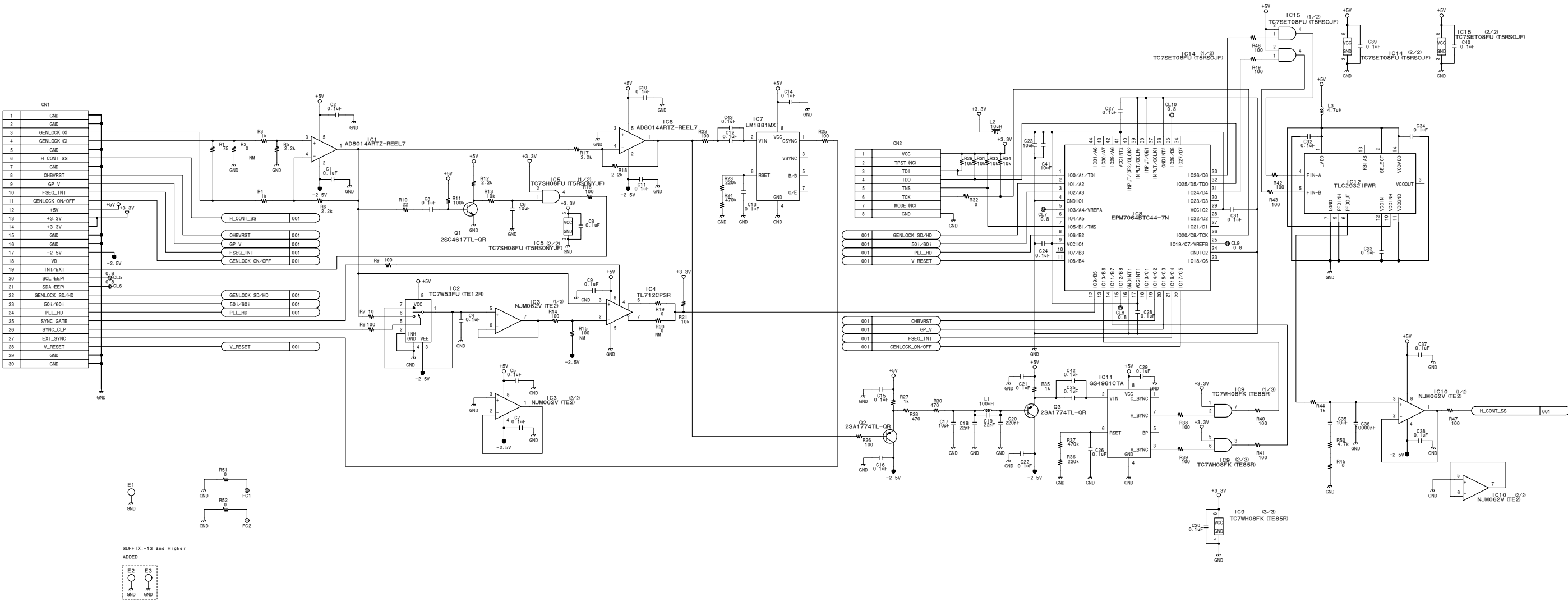


3

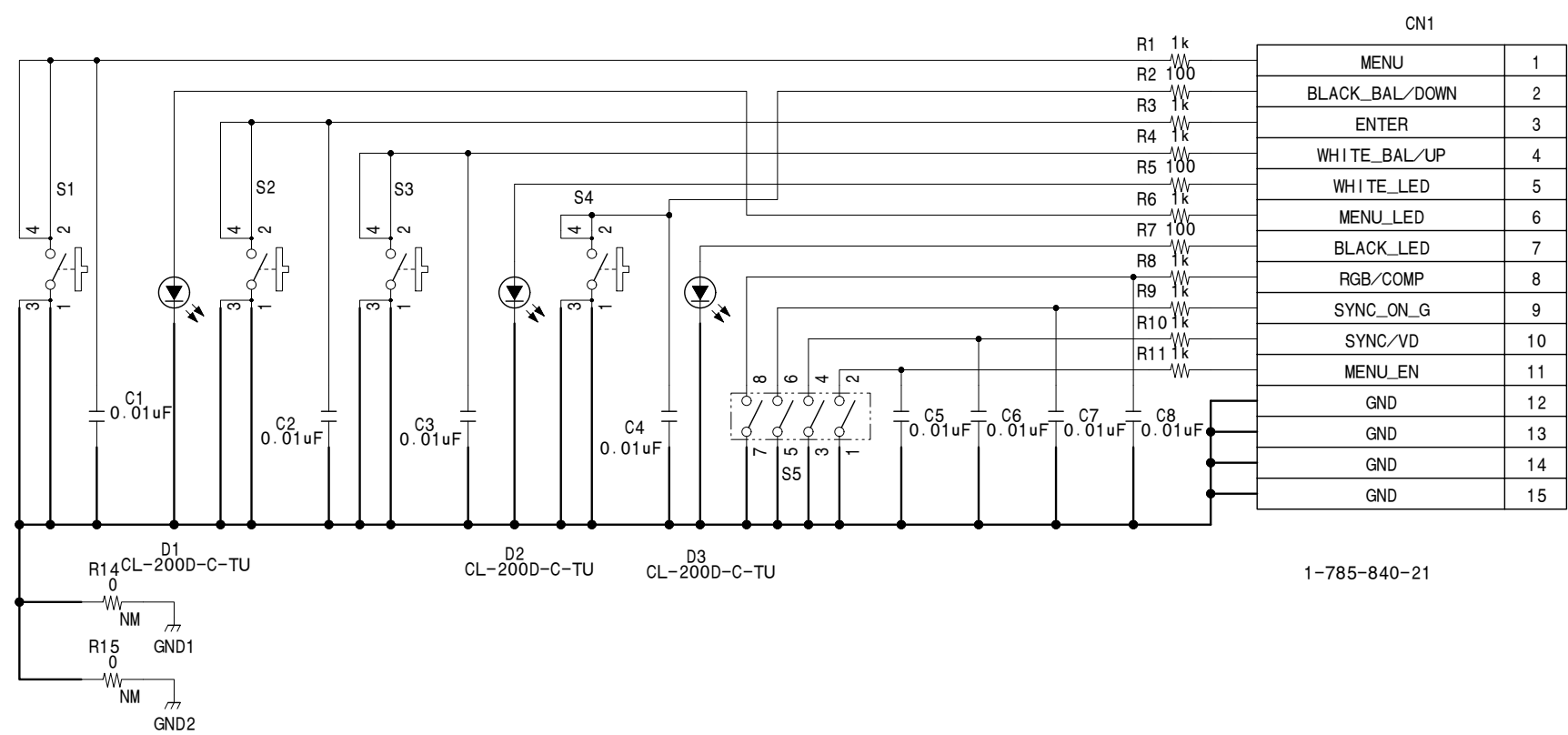
SE-804 (HKC-SV1)

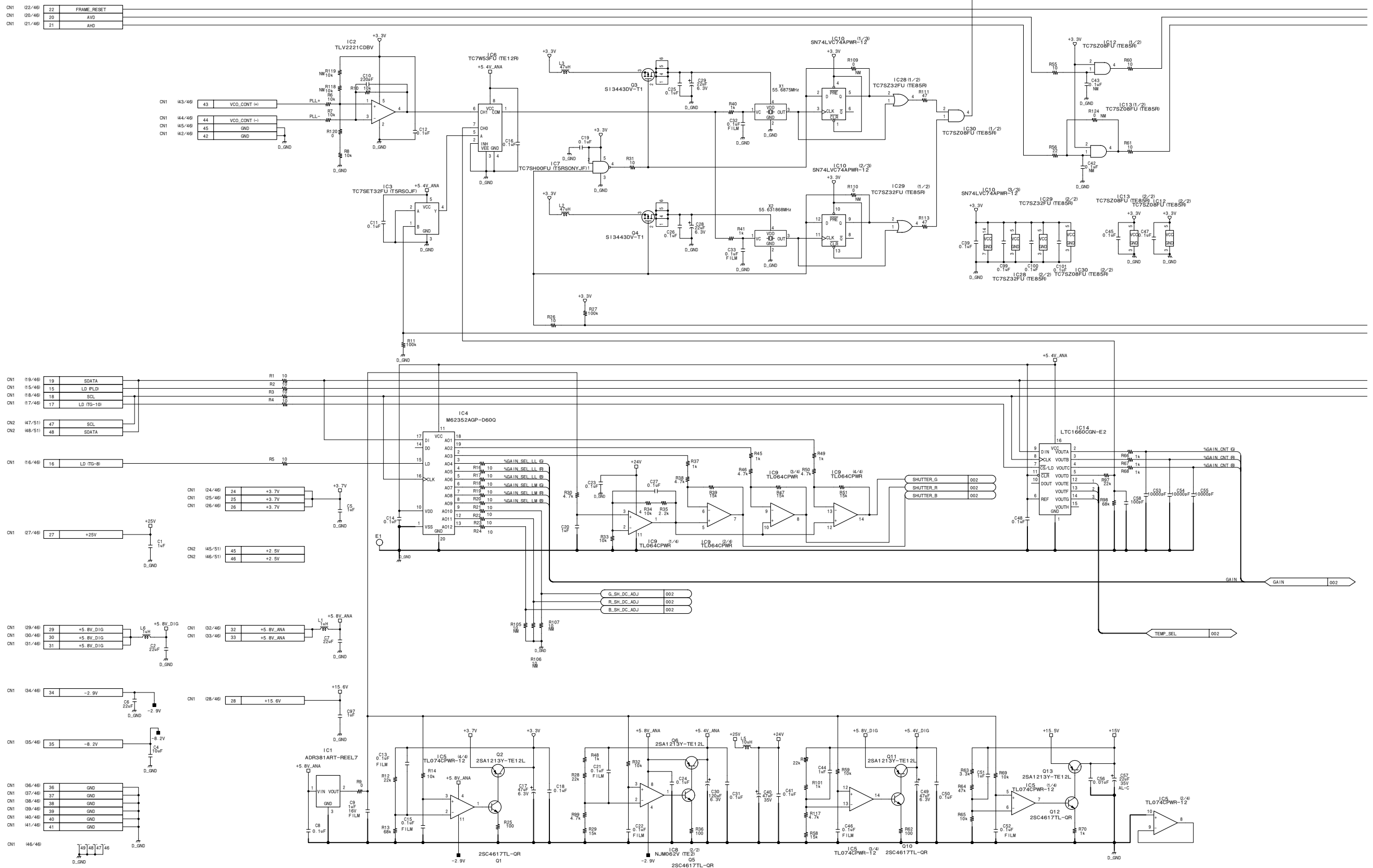
BOARD NO. 1-866-797-11

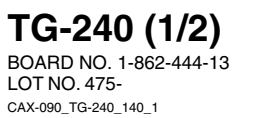
CAXA-090J_SE-804_110_1

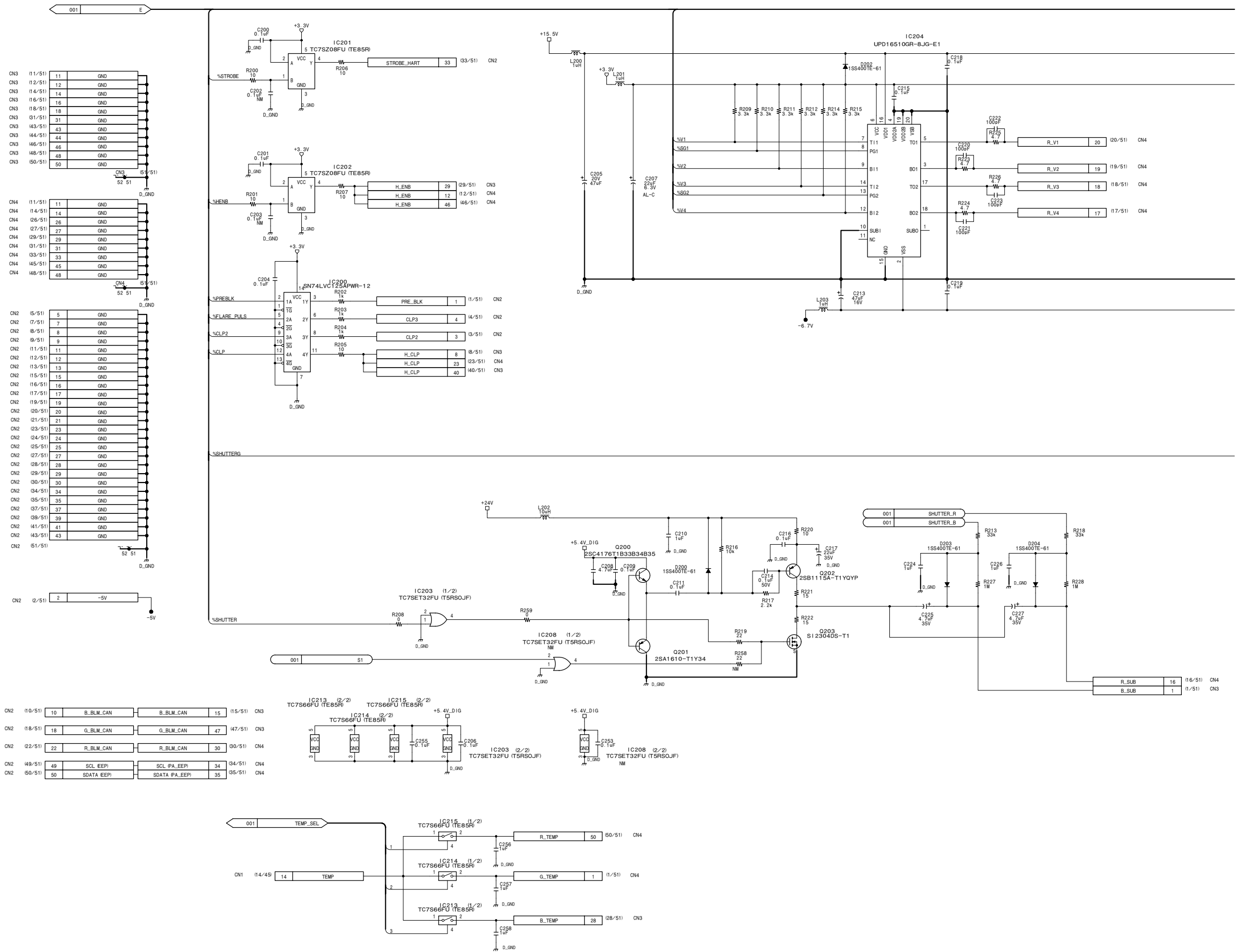


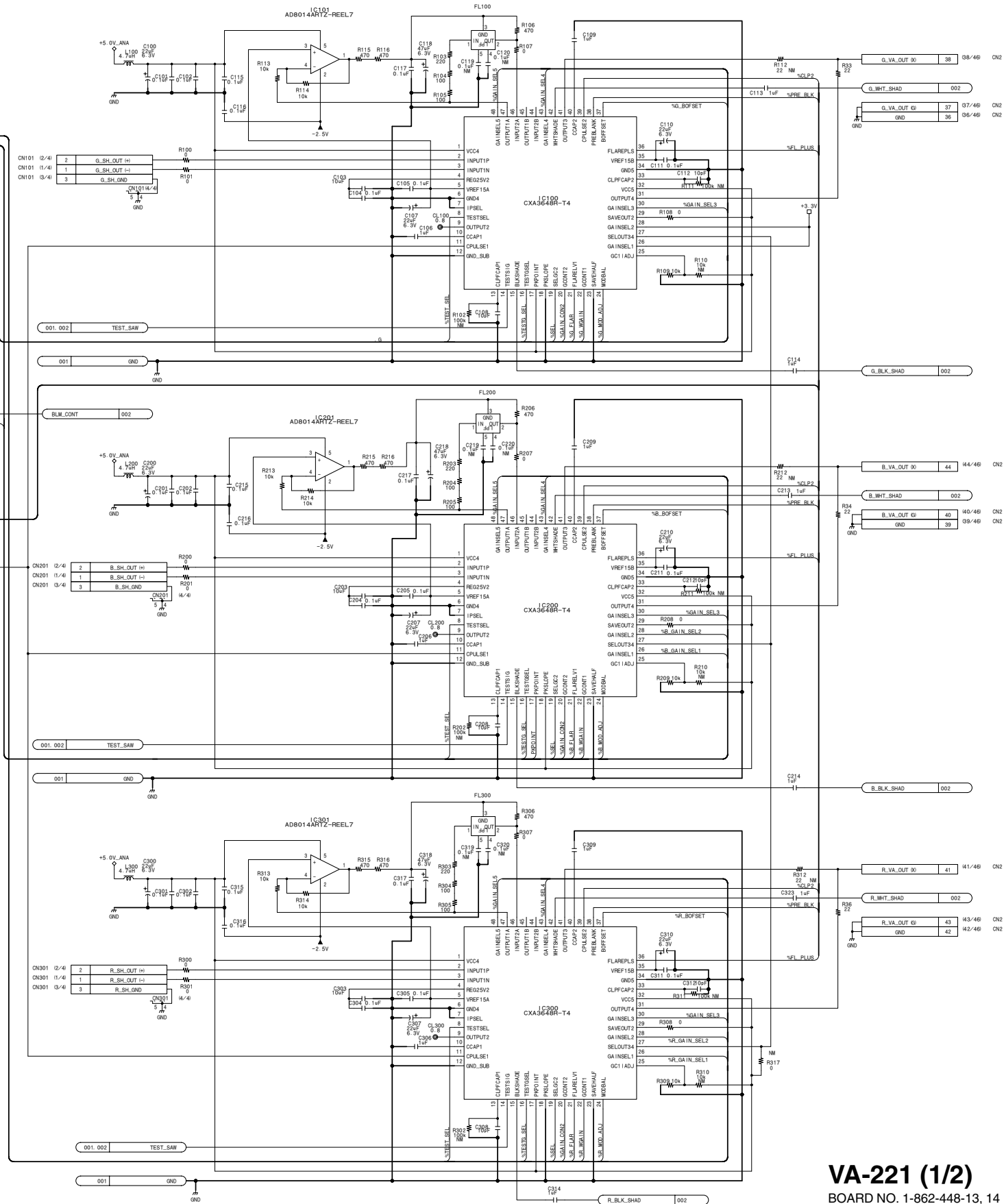
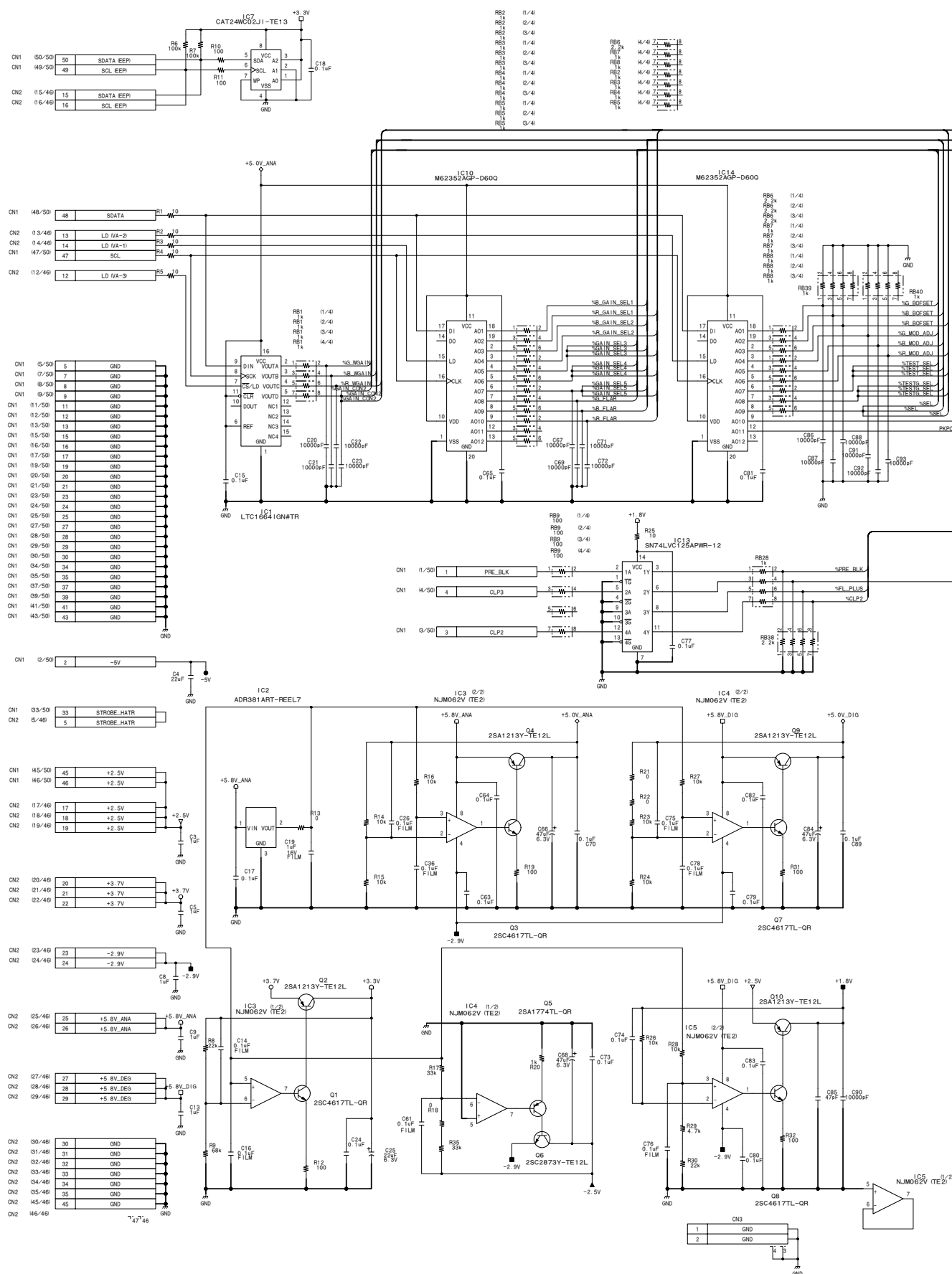
to DPR-253



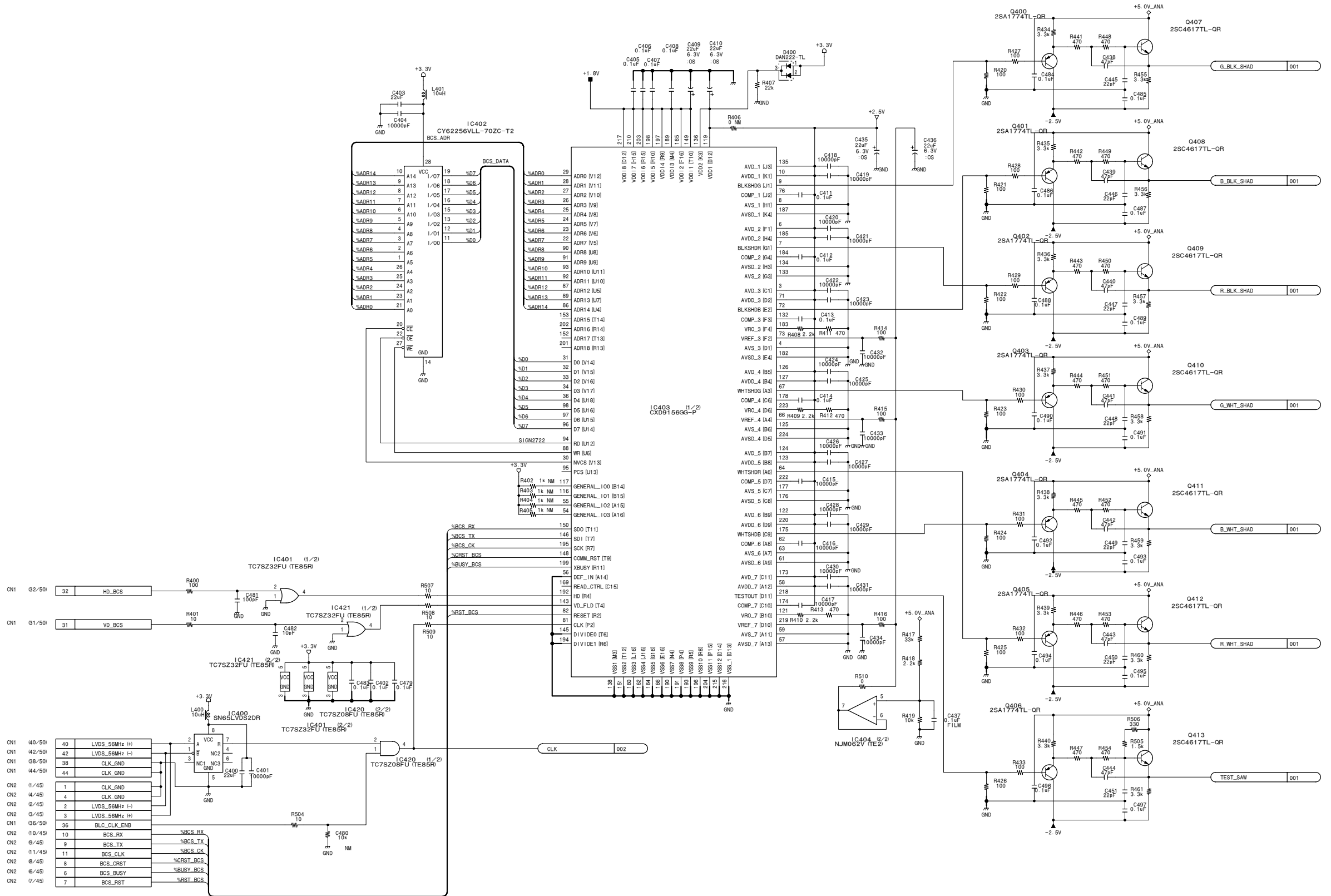




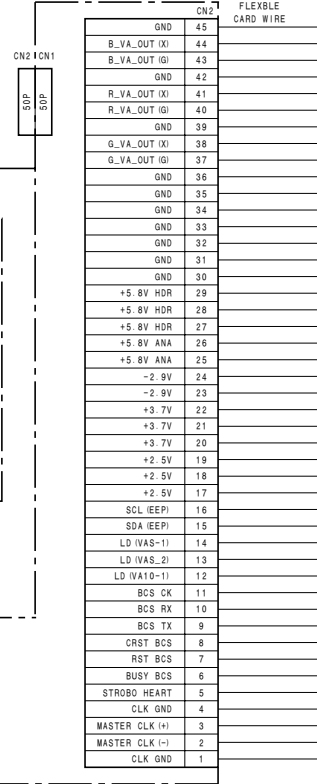
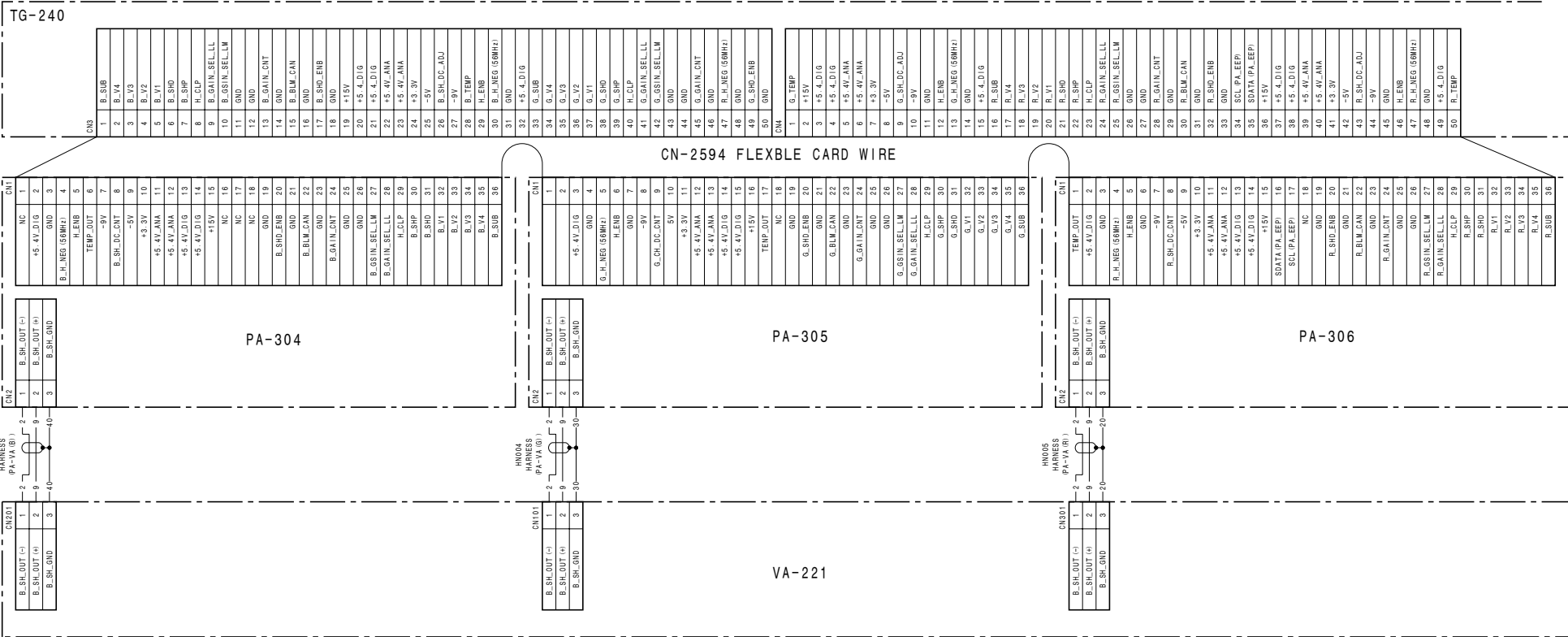
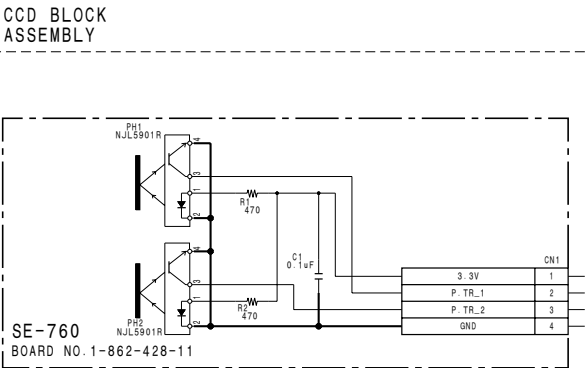
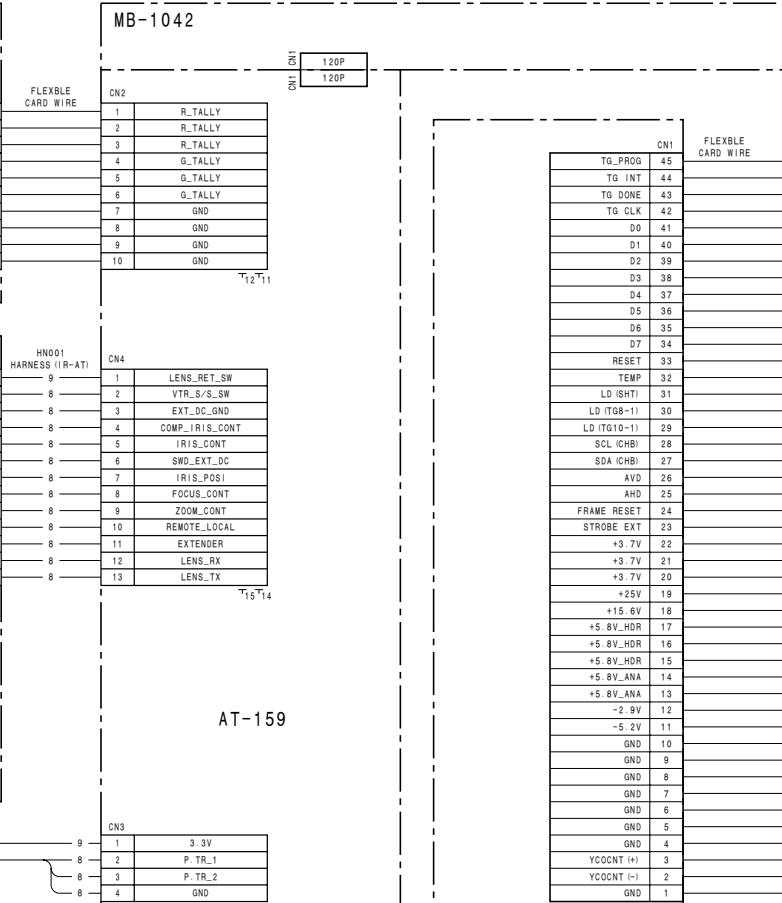
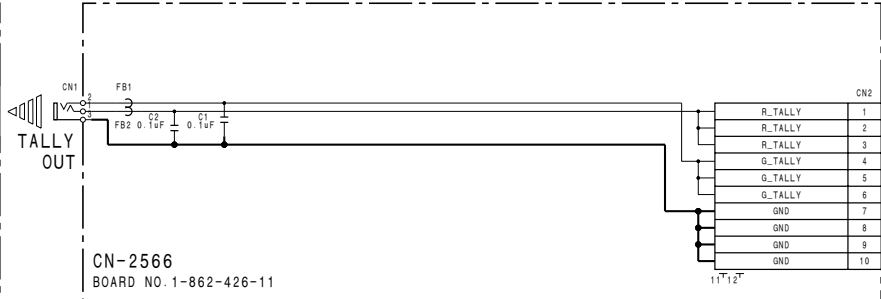
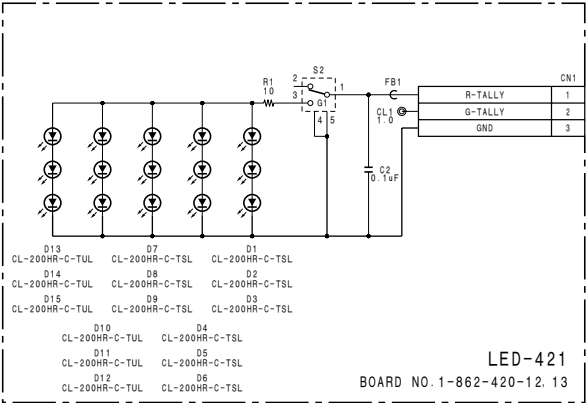




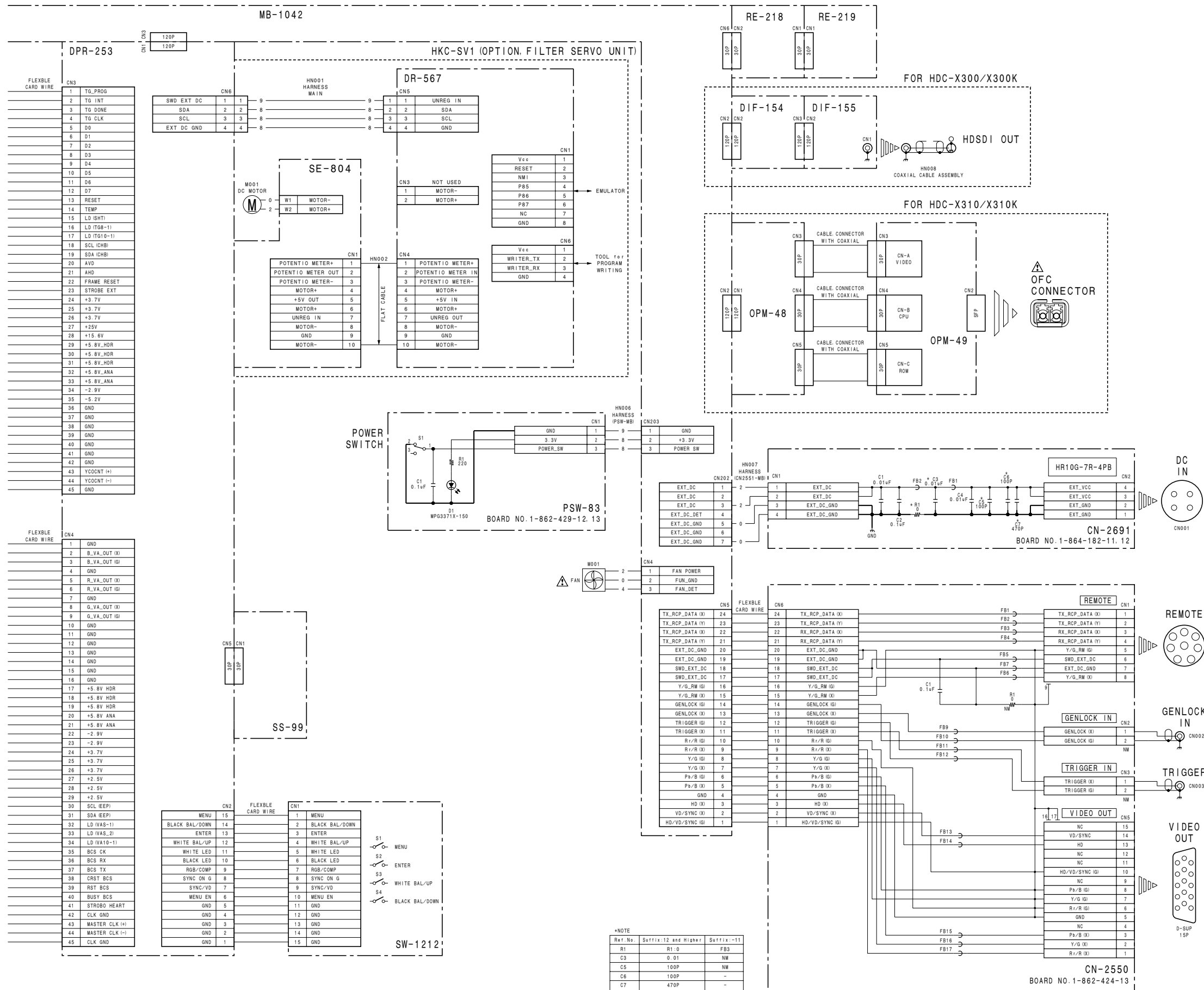
5







Frame Wiring Frame Wiring



Frame Wiring

Section 9

Board Layouts

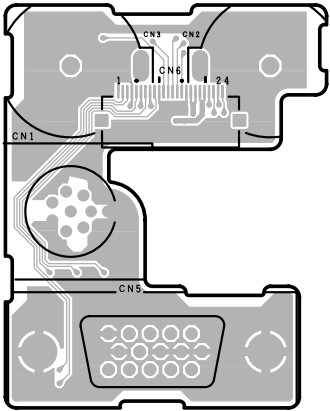
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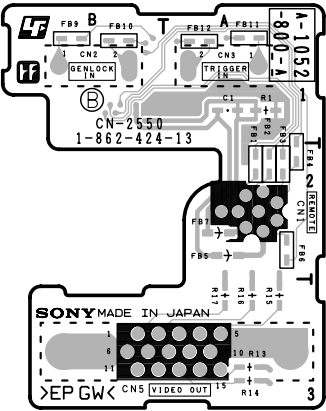
CN-2550 (1-862-424-13)

C1	*A1
CN1	A2
CN2	B1
CN3	A1
CN5	A3
CN6	B1
FB1	*A2
FB2	*A2
FB3	*A2
FB4	*A2
FB5	*A2
FB6	*A2
FB7	*A2
FB9	*B1
FB10	*B1
FB11	*A1
FB12	*A1
R1	*A1
R13	*A3
R14	*A3
R15	*A3
R16	*A3
R17	*A3

*:B SIDE



CN-2550 -A SIDE-
SUFFIX: -13

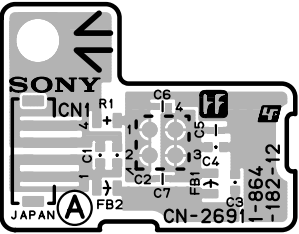


CN-2550 -B SIDE-
SUFFIX: -13

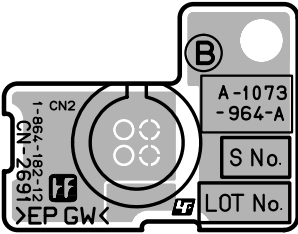
CN-2691 (1-864-182-12)

C1	A1
C2	A1
C3	A1
C4	A1
C5	A1
C6	A1
C7	A1
CN1	A1
CN2	*A1
FB1	A1
FB2	A1
R1	A1

*:B SIDE



CN-2691 -A SIDE-
SUFFIX: -12

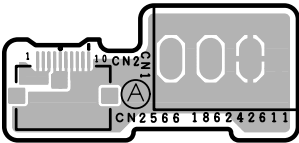


CN-2691 -B SIDE-
SUFFIX: -12

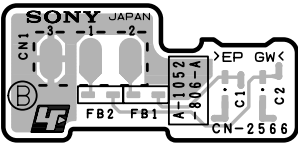
CN-2566 (1-862-426-11)

C1	*A1
C2	*A1
CN1	A1
CN2	A1
FB1	*A1
FB2	*A1

*:B SIDE



CN-2566 -A SIDE-
SUFFIX: -11

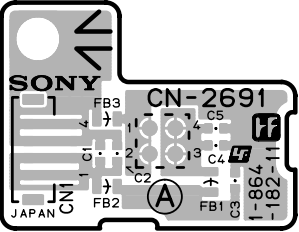


CN-2566 -B SIDE-
SUFFIX: -11

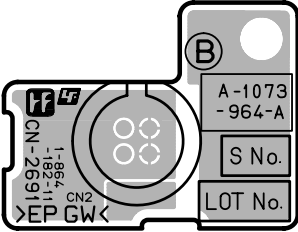
CN-2691 (1-864-182-11)

C1	A1
C2	A1
C3	A1
C4	A1
C5	A1
CN1	A1
CN2	*A1
FB1	A1
FB2	A1
FB3	A1

*:B SIDE



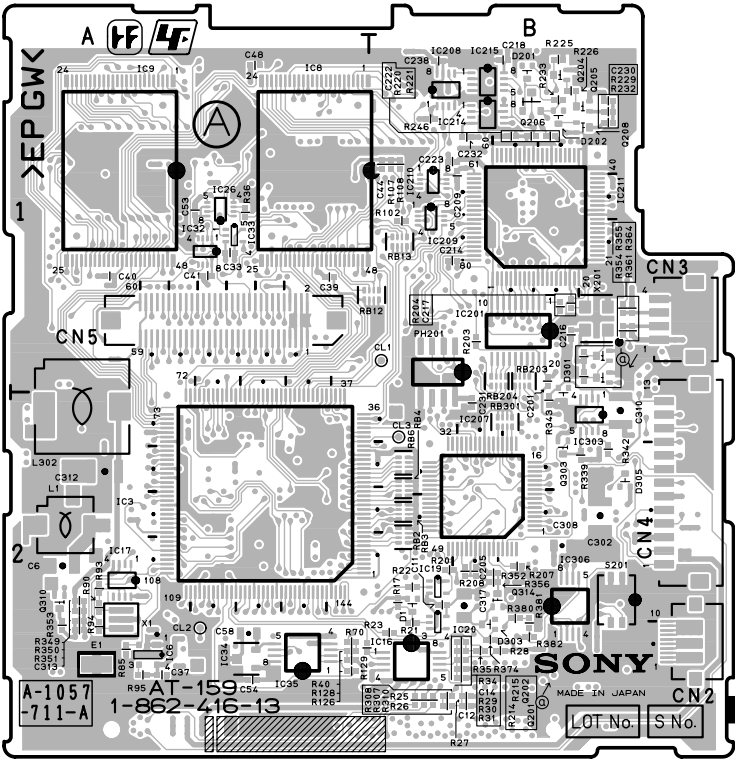
CN-2691 -A SIDE-
SUFFIX: -11



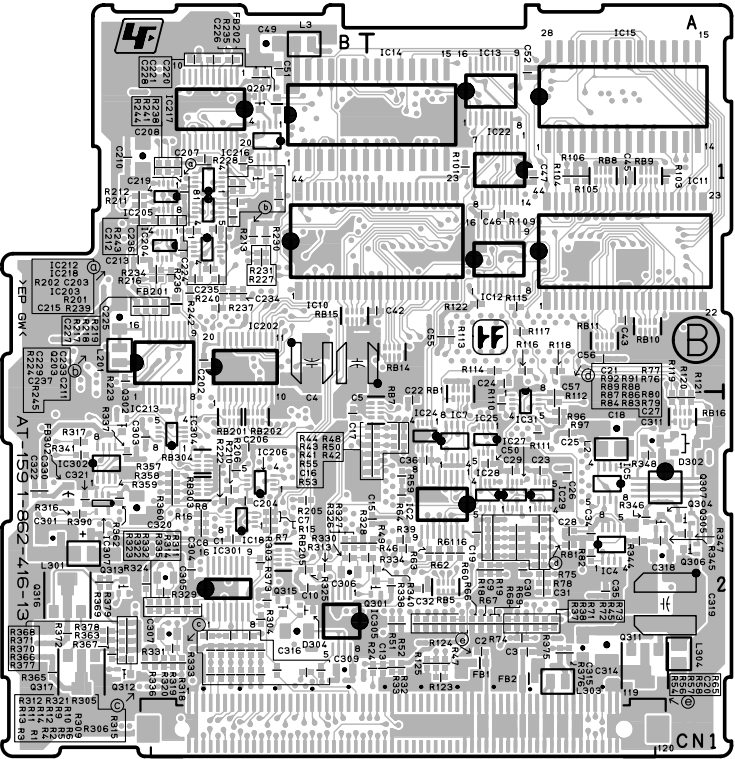
CN-2691 -B SIDE-
SUFFIX: -11

AT-159 (1-862-416-13)

C1	*B2	C236	*B1	IC208	B1
C2	*A2	C237	*B1	IC209	B1
C3	*A2	C238	B1	IC210	B1
C4	*B1	C301	*B2	IC211	B1
C5	*B1	C302	B2	IC212	*B1
C6	A2	C303	*B2	IC213	*B1
C7	*B2	C304	*B2	IC214	B1
C8	*B2	C305	*B2	IC215	B1
C9	*A2	C306	*B2	IC216	*B1
C10	*B2	C307	*B2	IC217	*B1
C11	B2	C308	B2	IC218	*B1
C12	B2	C309	*B2	IC301	*B2
C13	*A2	C310	B2	IC302	*B2
C14	B2	C311	*A2	IC303	B2
C15	*A2	C312	A2	IC304	*B2
C16	*A2	C313	A2	IC305	*B2
C17	*B2	C314	*A2	IC306	B2
C18	*A2	C315	*A2	IC307	*B2
C19	*A2	C316	*B2		
C20	*A2	C317	B2	L1	A2
C21	*A2	C318	*A2	L2	*A2
C22	*A2	C319	*A2	L3	*B1
C23	*A2	C320	*B2	L201	*B1
C24	*A1	C321	*B2	L301	*B2
C25	*A2	C322	*B2	L302	A2
C26	*A2	C330	*B2	L303	*A2
C27	*A2			L304	*A2
C28	*A2	CL1	B1		
C29	*A2	CL2	A2	PH201	B1
C30	*A2	CL3	B2		
C31	*A2				
C32	*A2	CN1	*A2	Q201	B1
C33	A1	CN2	B2	Q202	*B1
C34	*A2	CN3	B1	Q203	B1
C35	*A2	CN4	B2	Q205	B1
C36	*A2	CN5	A1	Q206	B1
C37	A2			Q207	*B1
C39	A1	D1	B2	Q208	B1
C40	A1	D201	B1	Q301	*A2
C41	A1	D202	B1	Q302	*B2
C42	*A1	D301	B2	Q303	B2
C43	*A1	D302	*A2	Q304	*A2
C44	B1	D303	B2	Q305	*A2
C45	*A1	D304	*B2	Q306	*A2
C46	*A1	D305	B2	Q307	*A2
C47	*A1			Q310	A2
C48	A1	E1	A2	Q311	*A2
C49	*B1			Q312	*B2
C50	*A2	FB1	*A2	Q313	*B2
C51	*B1	FB2	*A2	Q314	B2
C52	*A1	FB201	*B1	Q315	*B2
C53	A1	FB202	*B1	Q316	*B2
C54	A2	FB302	*B2	Q317	*B2
C55	*A1				
C56	*A1	IC2	*A2	R1	*B2
C57	*A2	IC3	A2	R2	*B2
C58	A2	IC4	*A2	R3	*B2
C201	B1	IC5	*A2	R4	*B2
C202	*B1	IC6	A2	R5	*B2
C203	*B1	IC7	*A2	R6	*B2
C204	*B2	IC8	A1	R7	*B2
C205	B2	IC9	A1	R8	*B2
C206	*B2	IC10	*A1	R9	*B2
C207	*B1	IC11	*A1	R10	*B2
C208	*B1	IC12	*A1	R11	*B2
C209	B1	IC13	*A1	R12	*B2
C210	*B1	IC14	*A1	R13	*B2
C211	*B1	IC15	*A1	R14	*B2
C212	*B1	IC16	B2	R15	*B2
C213	*B1	IC17	A2	R16	*B2
C214	B1	IC18	*B2	R17	B2
C215	*B1	IC19	B2	R18	*A2
C216	B1	IC20	B2	R19	*A2
C217	B1	IC22	*A1	R20	B2
C218	B1	IC24	*A2	R21	B2
C219	*B1	IC25	*A2	R22	B2
C220	*B1	IC26	A1	R23	B2
C221	*B1	IC27	*A2	R24	*A2
C222	B1	IC28	*A2	R25	B2
C223	B1	IC29	*A2	R26	B2
C224	*B1	IC31	*A2	R27	B2
C225	*B1	IC32	A1	R28	B2
C226	*B1	IC33	A1	R29	B2
C227	*B1	IC34	A2	R30	B2
C228	*B1	IC35	A2	R31	B2
C229	*B1	IC201	B1	R32	*A2
C230	B1	IC202	*B1	R33	*A2
C231	B2	IC203	*B1	R34	B2
C232	B1	IC204	*B1	R35	B2
C233	*B1	IC205	*B1	R36	A1
C234	*B1	IC206	*B2	R37	*A2
C235	*B1	IC207	B2	R38	*A2



AT-159 -A SIDE-
SUFFIX: -13

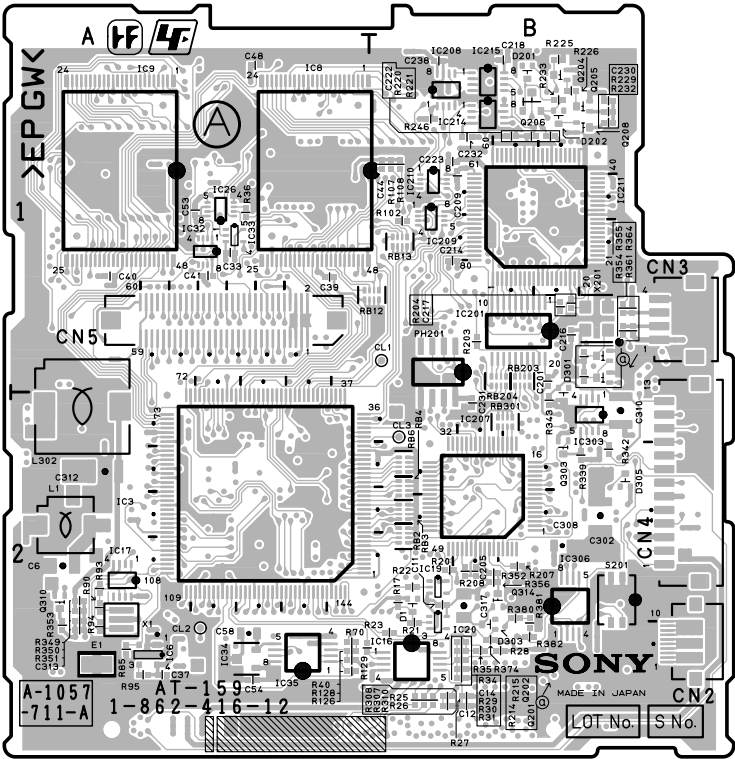


AT-159 -B SIDE-
SUFFIX: -13

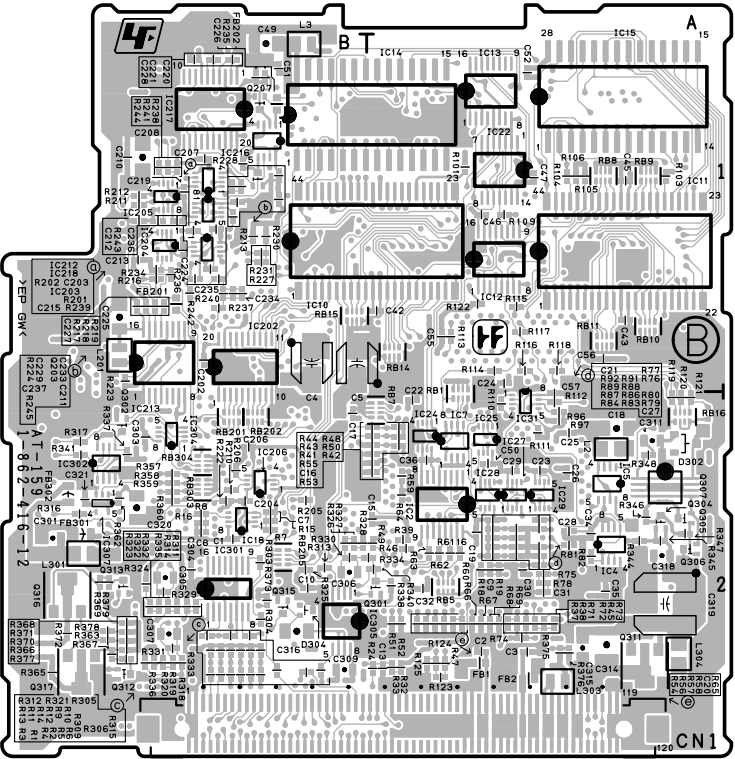
R39	*A2	R206	*B2	R355	B1
R40	A2	R207	B2	R356	B2
R41	*A2	R208	B2	R357	*B2
R42	*A2	R210	*B2	R358	*B2
R43	*A2	R211	*B1	R359	*B2
R44	*A2	R212	*B1	R360	*B2
R45	*A2	R213	*B1	R361	B1
R46	*A2	R214	B1	R362	*B2
R47	*A2	R215	B1	R363	*B2
R48	*A2	R216	*B1	R364	B1
R49	*A2	R217	*B1	R365	*B2
R50	*A2	R218	*B1	R366	*B2
R51	*A2	R219	*B1	R367	*B2
R52	*A2	R220	B1	R368	*B2
R53	*A2	R221	B1	R369	*B2
R54	*A2	R222	*B2	R370	*B2
R55	*A2	R223	*B1	R371	*B2
R56	*A2	R224	*B1	R372	*B2
R57	*A2	R225	B1	R373	*B2
R58	*A2	R226	B1	R374	B2
R59	*A2	R227	*B1	R375	*A2
R60	*A2	R228	*B1	R376	*A2
R61	*A2	R229	B1	R377	*B2
R62	*A2	R230	*B1	R378	*B2
R63	*A2	R231	*B1	R379	*B2
R64	*A2	R232	B1	R380	B2
R65	*A2	R233	B1	R381	B2
R66	*A2	R234	*B1	R382	B2
R67	*A2	R235	*B1	R383	*B2
R68	*A2	R236	*B1		
R69	*A2	R237	*B1	RB1	*A2
R70	A2	R238	*B1	RB2	B2
R71	*A2	R239	*B1	RB3	B2
R72	*A2	R240	*B1	RB4	B2
R73	*A2	R241	*B1	RB5	*A2
R74	*A2	R242	*B1	RB6	B2
R75	*A2	R243	*B1	RB7	*A2
R76	*A2	R244	*B1	RB8	*A1
R77	*A2	R245	*B1	RB9	*A1
R78	*A2	R246	B1	RB10	*A1
R79	*A2	R303	*B2	RB11	*A1
R80	*A2	R304	*B2	RB12	B1
R81	*A2	R305	*B2	RB13	B1
R82	*A2	R306	*B2	RB14	*A1
R83	*A2	R307	B2	RB15	*B1
R84	*A2	R308	B2	RB16	*A2
R85	A2	R309	*B2	RB201	*B2
R86	*A2	R310	B2	RB202	*B2
R87	*A2	R311	*B2	RB203	B1
R88	*A2	R312	*B2	RB204	B1
R89	*A2	R313	*B2	RB205	*B2
R90	A2	R314	*B2	RB301	B2
R91	*A2	R315	*B2	RB303	*B2
R92	*A2	R316	*B2	RB304	*B2
R93	A2	R317	*B2		
R94	A2	R318	*B2	S201	B2
R95	A2	R319	*B2		
R96	*A2	R320	*B2	X1	A2
R97	*A2	R321	*B2	X201	B1
R101	*A1	R322	*B2		
R102	B1	R323	*B2	*:B SIDE	
R103	*A1	R324	*B2		
R104	*A1	R325	*B2		
R105	*A1	R326	*B2		
R106	*A1	R327	*B2		
R107	B1	R328	*B2		
R108	B1	R329	*B2		
R109	*A1	R330	*B2		
R110	*A2	R331	*B2		
R111	*A2	R332	*B2		
R112	*A2	R333	*B2		
R113	*A1	R334	*A2		
R114	*A1	R335	*B2		
R115	*A1	R336	*B2		
R116	*A1	R337	*B2		
R117	*A1	R338	*A2		
R118	*A1	R339	B2		
R119	*A2	R340	*A2		
R120	*A2	R341	*B2		
R121	*A2	R342	B2		
R122	*A1	R343	B2		
R123	*A2	R344	*A2		
R124	*A2	R345	*A2		
R125	*A2	R346	*A2		
R126	A2	R347	*A2		
R128	A2	R348	*A2		
R129	A2	R349	A2		
R201	*B1	R350	A2		
R202	*B1	R351	A2		
R203	B1	R352	B2		
R204	B1	R353	A2		
R205	*B2	R354	B1		

AT-159 (1-862-416-12)

C1	*B2	C236	*B1	IC209	B1
C2	*A2	C237	*B1	IC210	B1
C3	*A2	C238	B1	IC211	B1
C4	*B1	C301	*B2	IC212	*B1
C5	*B1	C302	B2	IC213	*B1
C6	A2	C303	*B2	IC214	B1
C7	*B2	C304	*B2	IC215	B1
C8	*B2	C305	*B2	IC216	*B1
C9	*A2	C306	*B2	IC217	*B1
C10	*B2	C307	*B2	IC218	*B1
C11	B2	C308	B2	IC301	*B2
C12	B2	C309	*B2	IC302	*B2
C13	*A2	C310	B2	IC303	B2
C14	B2	C311	*A2	IC304	*B2
C15	*A2	C312	A2	IC305	*B2
C16	*A2	C313	A2	IC306	B2
C17	*B2	C314	*A2	IC307	*B2
C18	*A2	C315	*A2		
C19	*A2	C316	*B2	L1	A2
C20	*A2	C317	B2	L2	*A2
C21	*A2	C318	*A2	L3	*B1
C22	*A2	C319	*A2	L201	*B1
C23	*A2	C320	*B2	L301	*B2
C24	*A1	C321	*B2	L302	A2
C25	*A2			L303	*A2
C26	*A2	CL1	B1	L304	*A2
C27	*A2	CL2	A2		
C28	*A2	CL3	B2	PH201	B1
C29	*A2				
C30	*A2	CN1	*A2	Q201	B1
C31	*A2	CN2	B2	Q202	B1
C32	*A2	CN3	B1	Q203	*B1
C33	A1	CN4	B2	Q204	B1
C34	*A2	CN5	A1	Q205	B1
C35	*A2			Q206	B1
C36	*A2	D1	B2	Q207	*B1
C37	A2	D201	B1	Q208	B1
C39	A1	D202	B1	Q301	*A2
C40	A1	D301	B2	Q302	*B2
C41	A1	D302	*A2	Q303	B2
C42	*A1	D303	B2	Q304	*A2
C43	*A1	D304	*B2	Q305	*A2
C44	B1	D305	B2	Q306	*A2
C45	*A1			Q307	*A2
C46	*A1	E1	A2	Q310	A2
C47	*A1			Q311	*A2
C48	A1	FB1	*A2	Q312	*B2
C49	*B1	FB2	*A2	Q313	*B2
C50	*A2	FB201	*B1	Q314	B2
C51	*B1	FB202	*B1	Q315	*B2
C52	*A1	FB301	*B2	Q316	*B2
C53	A1	FB302	*B2	Q317	*B2
C54	A2				
C55	*A1	IC2	*A2	R1	*B2
C56	*A1	IC3	A2	R2	*B2
C57	*A2	IC4	*A2	R3	*B2
C58	A2	IC5	*A2	R4	*B2
C201	B1	IC6	A2	R5	*B2
C202	*B1	IC7	*A2	R6	*B2
C203	*B1	IC8	A1	R7	*B2
C204	*B2	IC9	A1	R8	*B2
C205	B2	IC10	*A1	R9	*B2
C206	*B2	IC11	*A1	R10	*B2
C207	*B1	IC12	*A1	R11	*B2
C208	*B1	IC13	*A1	R12	*B2
C209	B1	IC14	*A1	R13	*B2
C210	*B1	IC15	*A1	R14	*B2
C211	*B1	IC16	B2	R15	*B2
C212	*B1	IC17	A2	R16	*B2
C213	*B1	IC18	*B2	R17	B2
C214	B1	IC19	B2	R18	*A2
C215	*B1	IC20	B2	R19	*A2
C216	B1	IC22	*A1	R20	B2
C217	B1	IC24	*A2	R21	B2
C218	B1	IC25	*A2	R22	B2
C219	*B1	IC26	A1	R23	B2
C220	*B1	IC27	*A2	R24	*A2
C221	*B1	IC28	*A2	R25	B2
C222	B1	IC29	*A2	R26	B2
C223	B1	IC31	*A2	R27	B2
C224	*B1	IC32	A1	R28	B2
C225	*B1	IC33	A1	R29	B2
C226	*B1	IC34	A2	R30	B2
C227	*B1	IC35	A2	R31	B2
C228	*B1	IC201	B1	R32	*A2
C229	*B1	IC202	*B1	R33	*A2
C230	B1	IC203	*B1	R34	B2
C231	B2	IC204	*B1	R35	B2
C232	B1	IC205	*B1	R36	A1
C233	*B1	IC206	*B2	R37	*A2
C234	*B1	IC207	B2	R38	*A2
C235	*B1	IC208	B1	R39	*A2



AT-159 -A SIDE-
SUFFIX: -12

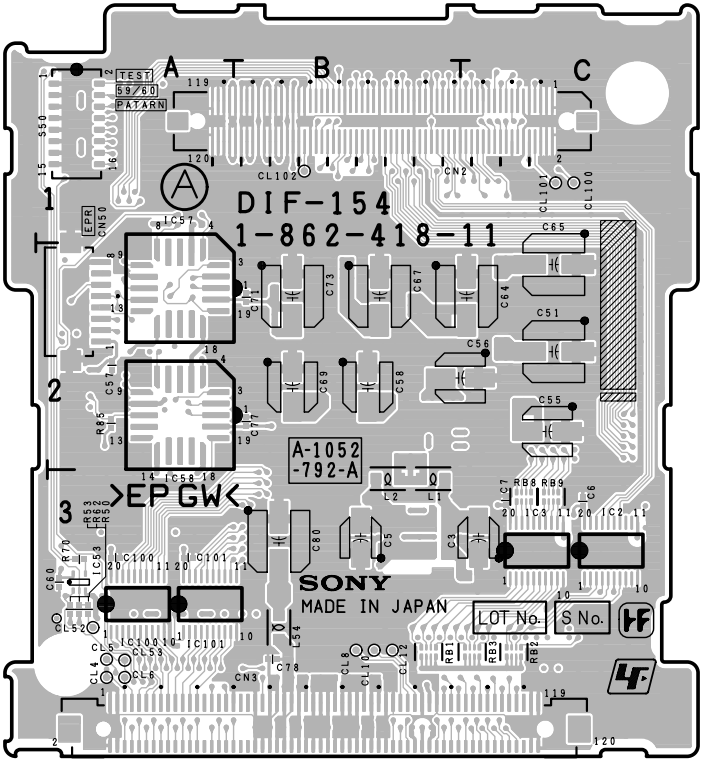


AT-159 -B SIDE-
SUFFIX: -12

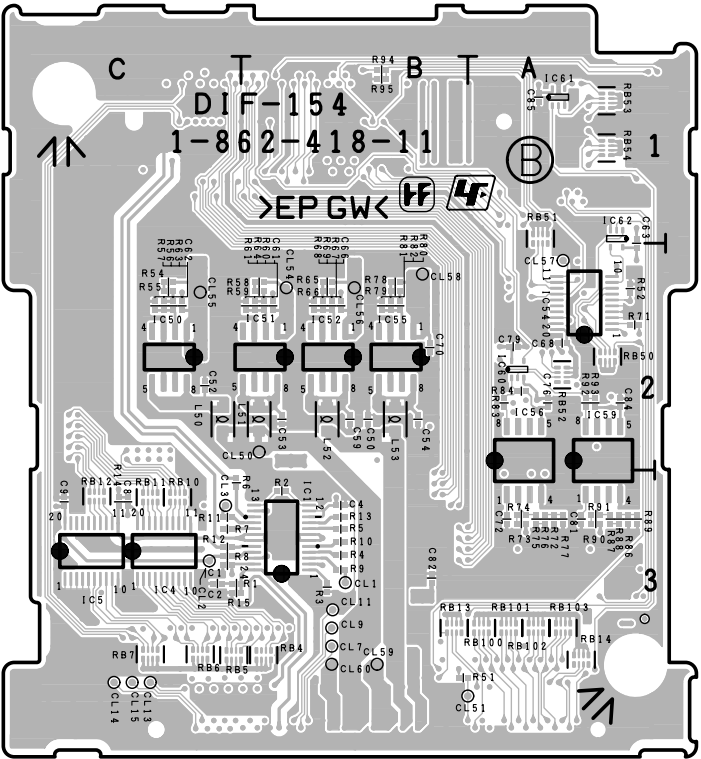
R40	A2	R207	B2	R356	B2
R41	*A2	R208	B2	R357	*B2
R42	*A2	R210	*B2	R358	*B2
R43	*A2	R211	*B1	R359	*B2
R44	*A2	R212	*B1	R360	*B2
R45	*A2	R213	*B1	R361	B1
R46	*A2	R214	B1	R362	*B2
R47	*A2	R215	B1	R363	*B2
R48	*A2	R216	*B1	R364	B1
R49	*A2	R217	*B1	R365	*B2
R50	*A2	R218	*B1	R366	*B2
R51	*A2	R219	*B1	R367	*B2
R52	*A2	R220	B1	R368	*B2
R53	*A2	R221	B1	R369	*B2
R54	*A2	R222	*B2	R370	*B2
R55	*A2	R223	*B1	R371	*B2
R56	*A2	R224	*B1	R372	*B2
R57	*A2	R225	B1	R373	*B2
R58	*A2	R226	B1	R374	B2
R59	*A2	R227	*B1	R375	*A2
R60	*A2	R228	*B1	R376	*A2
R61	*A2	R229	B1	R377	*B2
R62	*A2	R230	*B1	R378	*B2
R63	*A2	R231	*B1	R379	*B2
R64	*A2	R232	B1	R380	B2
R65	*A2	R233	B1	R381	B2
R66	*A2	R234	*B1	R382	B2
R67	*A2	R235	*B1		
R68	*A2	R236	*B1	RB1	*A2
R69	*A2	R237	*B1	RB2	B2
R70	A2	R238	*B1	RB3	B2
R71	*A2	R239	*B1	RB4	B2
R72	*A2	R240	*B1	RB5	*A2
R73	*A2	R241	*B1	RB6	B2
R74	*A2	R242	*B1	RB7	*A2
R75	*A2	R243	*B1	RB8	*A1
R76	*A2	R244	*B1	RB9	*A1
R77	*A2	R245	*B1	RB10	*A1
R78	*A2	R246	B1	RB11	*A1
R79	*A2	R303	*B2	RB12	B1
R80	*A2	R304	*B2	RB13	B1
R81	*A2	R305	*B2	RB14	*A1
R82	*A2	R306	*B2	RB15	*B1
R83	*A2	R307	B2	RB16	*A2
R84	*A2	R308	B2	RB201	*B2
R85	A2	R309	*B2	RB202	*B2
R86	*A2	R310	B2	RB203	B1
R87	*A2	R311	*B2	RB204	B1
R88	*A2	R312	*B2	RB205	*B2
R89	*A2	R313	*B2	RB301	B2
R90	A2	R314	*B2	RB303	*B2
R91	*A2	R315	*B2	RB304	*B2
R92	*A2	R316	*B2		
R93	A2	R317	*B2	S201	B2
R94	A2	R318	*B2		
R95	A2	R319	*B2	X1	A2
R96	*A2	R320	*B2	X201	B1
R97	*A2	R321	*B2		
R101	*A1	R322	*B2	*:B SIDE	
R102	B1	R323	*B2		
R103	*A1	R324	*B2		
R104	*A1	R325	*B2		
R105	*A1	R326	*B2		
R106	*A1	R327	*B2		
R107	B1	R328	*B2		
R108	B1	R329	*B2		
R109	*A1	R330	*B2		
R110	*A2	R331	*B2		
R111	*A2	R332	*B2		
R112	*A2	R333	*B2		
R113	*A1	R334	*A2		
R114	*A1	R335	*B2		
R115	*A1	R336	*B2		
R116	*A1	R337	*B2		
R117	*A1	R338	*A2		
R118	*A1	R339	B2		
R119	*A2	R340	*A2		
R120	*A2	R341	*B2		
R121	*A2	R342	B2		
R122	*A1	R343	B2		
R123	*A2	R344	*A2		
R124	*A2	R345	*A2		
R125	*A2	R346	*A2		
R126	A2	R347	*A2		
R128	A2	R348	*A2		
R129	A2	R349	A2		
R201	*B1	R350	A2		
R202	*B1	R351	A2		
R203	B1	R352	B2		
R204	B1	R353	A2		
R205	*B2	R354	B1		
R206	*B2	R355	B1		

DIF-154 (1-862-418-11) (HDC-X300/X300K)

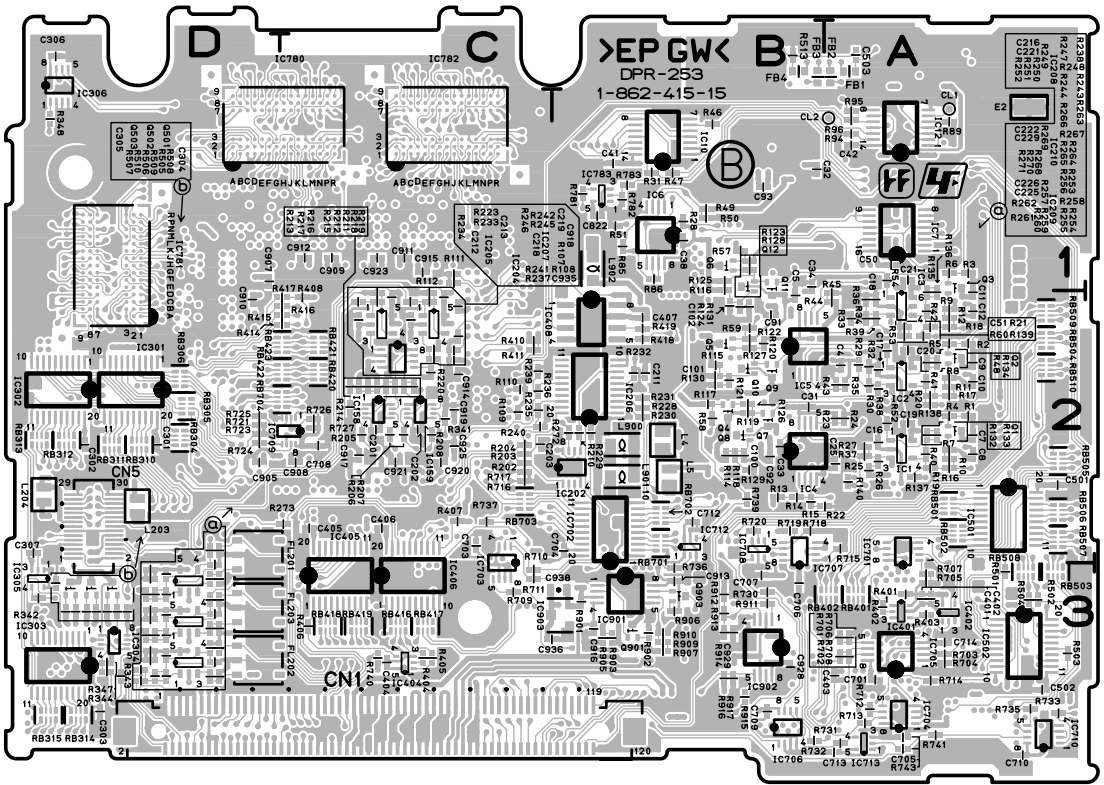
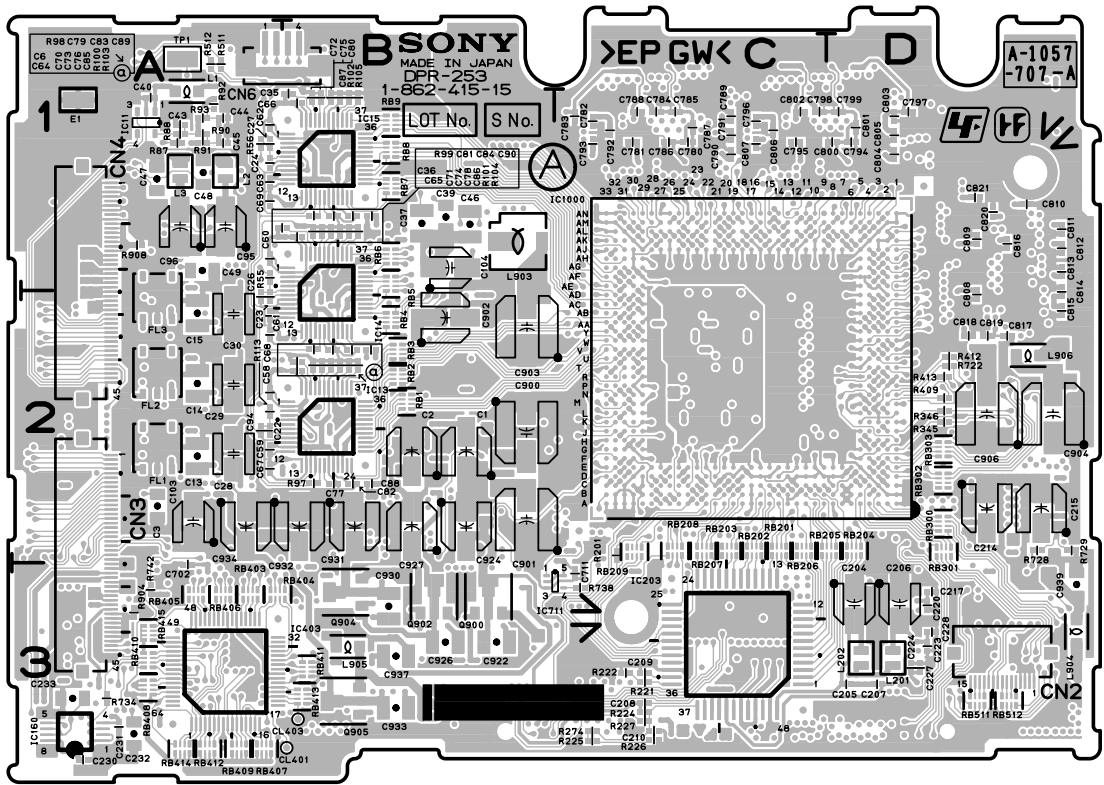
C1	*C3	IC58	A2	RB50	*A2
C2	*C3	IC59	*A2	RB51	*A1
C3	C3	IC60	*A2	RB52	*A2
C4	*B3	IC61	*A1	RB53	*A1
C5	B3	IC62	*A1	RB54	*A1
C6	C3	IC100	A3	RB100	*A3
C7	C3	IC101	A3	RB101	*A3
C8	*C3			RB102	*A3
C9	*C3	L1	B3	RB103	*A3
C50	*B2	L2	B3		
C51	C2	L50	*C2	S50	A1
C52	*C2	L51	*B2		
C53	*B2	L52	*B2	*:B SIDE	
C54	*B2	L53	*B2		
C55	C2	L54	B3		
C56	B2				
C57	A2	R1	*C3		
C58	B2	R2	*B3		
C59	*B2	R3	*B3		
C60	A3	R4	*B3		
C61	*B2	R5	*B3		
C62	*C2	R6	*C3		
C63	*A2	R7	*C3		
C64	C2	R8	*C3		
C65	C2	R9	*B3		
C66	*B2	R10	*B3		
C67	B2	R11	*C3		
C68	*A2	R12	*C3		
C69	B2	R13	*B3		
C70	*B2	R14	*C3		
C71	B2	R15	*C3		
C72	*A3	R50	A3		
C73	B2	R51	*B3		
C76	*A2	R52	*A2		
C77	B2	R53	A3		
C78	B3	R54	*C2		
C79	*A2	R55	*C2		
C80	B3	R56	*C2		
C81	*A3	R57	*C2		
C82	*B3	R58	*B2		
C84	*A2	R59	*B2		
C85	*A1	R60	*B2		
C100	A3	R61	*B2		
C101	A3	R62	A3		
		R63	*C2		
CL1	*B3	R64	*B2		
CL2	*C3	R65	*B2		
CL3	*C3	R66	*B2		
CL4	A3	R67	*B2		
CL5	A3	R68	*B2		
CL6	A3	R69	*B2		
CL7	*B3	R70	A3		
CL8	B3	R71	*A2		
CL9	*B3	R72	*A3		
CL10	B3	R73	*A3		
CL11	*B3	R74	*A3		
CL12	B3	R75	*A3		
CL13	*C3	R76	*A3		
CL14	*C3	R77	*A3		
CL15	*C3	R78	*B2		
CL50	*B2	R79	*B2		
CL51	*A3	R80	*B2		
CL52	A3	R81	*B2		
CL53	A3	R82	*B2		
CL54	*B2	R83	*A2		
CL55	*C2	R84	*A2		
CL56	*B2	R85	A2		
CL57	*A2	R86	*A3		
CL58	*B2	R87	*A3		
CL59	*B3	R88	*A3		
CL60	*B3	R89	*A3		
CL100	C1	R90	*A3		
CL101	C1	R91	*A3		
CL102	B1	R92	*A2		
		R93	*A2		
CN2	B1	R94	*B1		
CN3	B3	R95	*B1		
CN50	A2				
		RB1	B3		
IC1	*B3	RB2	C3		
IC2	C3	RB3	C3		
IC3	C3	RB4	*B3		
IC4	*C3	RB5	*C3		
IC5	*C3	RB6	*C3		
IC50	*C2	RB7	*C3		
IC51	*B2	RB8	C3		
IC52	*B2	RB9	C3		
IC53	A3	RB10	*C3		
IC54	*A2	RB11	*C3		
IC55	*B2	RB12	*C3		
IC56	*A2	RB13	*B3		
IC57	A2	RB14	*A3		



DIF-154 (HDC-X300/X300K) -A SIDE-
SUFFIX: -11



DIF-154 (HDC-X300/X300K) -B SIDE-
SUFFIX: -11

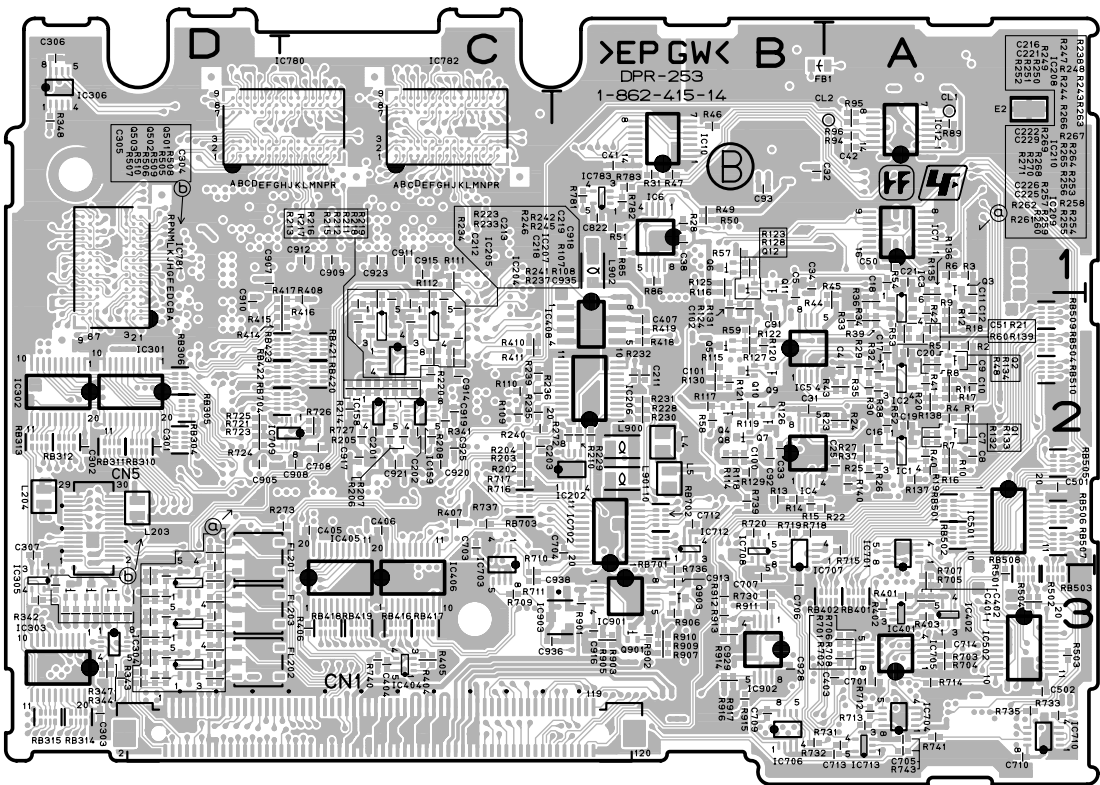
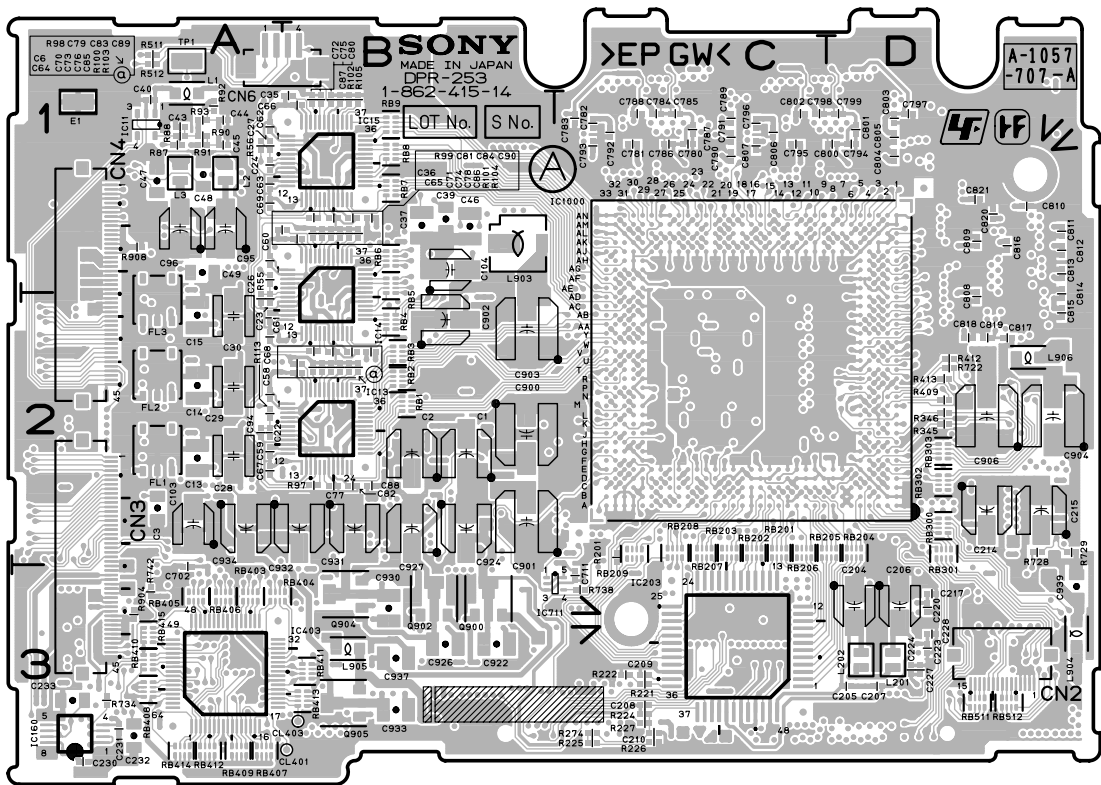


DPR-253 -A SIDE-
SUFFIX: -15

DPR-253 -B SIDE-
SUFFIX: -15

DPR-253 (1-862-415-15)

C1	C2	C44	D1	C93	*C1	C302	*A2	C793	B1	C913	*C3	FB1	*D1	IC401	*D3	L903	C1	R17	*D2	R60	*D2	R128	*C1	R232	*C2	R341	*B2	R704	*D3	R901	*C3	RB310	*A2	RB703	*B2
C2	C2	C45	D1	C94	D2	C303	*A3	C794	A1	C914	*B2	FB2	*D1	IC402	*D3	L904	A3	R18	*D2	R85	*C1	R129	*C2	R233	*B2	R342	*A3	R705	*D3	R902	*C3	RB311	*A2	RB704	*B2
C3	D2	C46	C1	C95	D1	C304	*A3	C795	B1	C915	*B1	FB3	*C1	IC403	D3	L905	C3	R19	*D2	R86	*C1	R130	*C2	R234	*B2	R343	*A3	R706	*D3	R903	*C3	RB312	*A2		
C4	*D2	C47	D1	C96	D1	C305	*A3	C796	B1	C916	*C3	FB4	*C1	IC404	D3	L906	A2	R20	*D2	R87	D1	R131	*C2	R235	*B2	R344	*A3	R707	*D3	R904	D3	RB313	*A2	TP1	D1
C5	*C2	C48	D1	C100	*C2	C306	*A1	C797	A1	C917	*B2			IC405	*B3			R21	*D2	R88	D1	R132	*D2	R236	*B2	R345	A2	R708	*D3	R905	*C3	RB314	*A3		
C6	C2	C49	D1	C101	*C2	C307	*A2	C798	B1	C918	*B2	FL1	D2	IC406	*B3	Q1	*D2	R22	*D2	R89	*D1	R133	*D2	R237	*B2	R346	A2	R709	*B3	R906	*C3	RB315	*A3		*:B SIDE
C7	*D2	C50	*D1	C102	*C2	C401	*D3	C799	A1	C919	*B2	FL2	D2	IC408	*C2	Q2	*D2	R23	*D2	R90	D1	R134	*D2	R238	*A2	R347	*A3	R710	*B3	R907	*C3	RB401	*D3		
C8	*D2	C51	*D2	C103	D2	C402	*D3	C800	A1	C920	*B2	FL3	D2	IC501	*D2	Q3	*D1	R24	*D2	R91	D1	R135	*D2	R239	*B2	R348	*A1	R711	*B3	R908	D1	RB402	*D3		
C9	*D2	C58	D2	C104	C1	C403	*D3	C801	A1	C921	*B2	FL201	*A2	IC502	*D3	Q4	*C2	R25	*D2	R92	D1	R136	*D2	R240	*B2	R401	*D3	R712	*D3	R909	*C3	RB403	D3		
C10	*D2	C59	D2	C201	*B2	C404	*B3	C802	B1	C922	C3	FL202	*A3	IC701	*D2	Q5	*C2	R26	*D2	R93	D1	R137	*D2	R241	*B2	R402	*D3	R713	*D3	R910	*C3	RB404	D3		
C11	*D2	C60	D1	C202	*B2	C405	*B2	C803	A1	C923	*B1	FL203	*A3	IC702	*C2	Q6	*C1	R27	*D2	R94	*D1	R138	*D2	R242	*B2	R403	*D3	R714	*D3	R911	*C3	RB405	D3		
C12	*D2	C61	D2	C203	*B2	C406	*B2	C804	A1	C924	C2			IC703	*B3	Q7	*C2	R28	*C1	R95	*D1	R139	*D2	R243	*A3	R404	*B3	R715	*D2	R912	*C3	RB406	D3		
C13	D2	C62	D1	C204	A3	C407	*C2	C805	A1	C925	*B2	IC1	*D2	IC704	*D3	Q8	*C2	R29	*D2	R96	*D1	R140	*D2	R244	*A3	R405	*B3	R716	*B2	R913	*C3	RB407	D3		
C14	D2	C63	D1	C205	A3	C501	*D2	C806	B1	C926	C3	IC2	*D2	IC705	*D3	Q9	*C2	R30	*D2	R97	C2	R201	B2	R245	*B2	R406	*B3	R717	*B2	R914	*C3	RB408	D3		
C15	D2	C64	C2	C206	A3	C502	*D3	C807	B1	C927	C2	IC3	*D2	IC706	*C3	Q10	*C2	R31	*C1	R98	C2	R202	*B2	R246	*B2	R407	*B2	R718	*C2	R915	*C3	RB409	D3		
C16	*D2	C65	C1	C207	A3	C503	*D1	C808	A2	C928	*C3	IC4	*C2	IC707	*C2	Q11	*C1	R32	*D2	R99	C1	R203	*B2	R247	*A2	R408	*B2	R719	*C2	R916	*C3	RB410	D3		
C17	*D2	C66	C1	C208	B3	C701	*D3	C809	A1	C929	*C3	IC5	*C2	IC708	*C2	Q12	*C1	R33	*D2	R100	C2	R204	*B2	R248	*A3	R409	A2	R720	*C2	R917	*C3	RB411	C3		
C18	*D2	C67	D2	C209	B3	C702	D3	C810	A1	C930	C3	IC6	*C1	IC709	*B2	Q501	*A3	R34	*D2	R101	C1	R205	*B2	R249	*A3	R410	*B2	R721	*A2			RB412	D3		
C19	*D2	C68	D2	C210	B3	C703	*B2	C811	A1	C931	C2	IC7	*D1	IC710	*B3	Q502	*A3	R35	*D2	R102	C1	R206	*B2	R250	*A3	R411	*B2	R722	A2	RB1	C2	RB413	C3		
C20	*D2	C69	D1	C211	*C2	C704	*C2	C812	A1	C932	C2	IC10	*C1	IC711	*D3	Q503	*A3	R36	*D2	R103	C2	R207	*B2	R251	*A3	R412	A2	R723	*A2	RB2	C2	RB414	D3		
C21	*D1	C70	C2	C212	*B2	C705	*D3	C813	A1	C933	C3	IC11	D1	IC712	*C2	Q900	C3	R37	*D2	R104	C1	R208	*B2	R252	*A3	R413	A2	R724	*A2	RB3	C2	RB415	D3		
C22	D2	C71	C1	C213	*B2	C706	*C3	C814	A2	C934	D2	IC12	*D1	IC713	*D3	Q901	*C3	R38	*D2	R105	C1	R210	*C2	R253	*A3	R414	*B2	R725	*A2	RB4	C2	RB416	*B3		
C23	D2	C72	C1	C214	A2	C707	*C3	C815	A2	C935	*B2	IC13	C2	IC780	*B1	Q902	C3	R39	*D2	R107	*B2	R211	*B2	R254	*A3	R415	*B2	R726	*B2	RB5	C1	RB417	*B3		
C24	D1	C73	C2	C215	A2	C708	*B2	C816	A1	C936	*C3	IC14	C2	IC781	*A1	Q903	*C3	R40	*D2	R108	*B2	R212	*B2	R255	*A3	R416	*B2	R727	*B2	RB6	C1	RB418	*B3		
C25	*D2	C74	C1	C216	*A3	C709	*C3	C817	A2	C937	C3	IC15	C1	IC782	*B1	Q904	C3	R41	*D2	R109	*B2	R213	*B2	R256	*A3	R417	*B2	R728	A2	RB7	C1	RB419	*B3		
C26	D2	C75	C1	C217	A3	C710	*D3	C818	A2	C938	*C3	IC158	*B2	IC783	*C1	Q905	C3	R42	*D2	R110	*B2	R214	*B2	R257	*A3	R418	*C2	R729	A2	RB8	C1	RB420	*B2		
C27	D1	C76	C2	C218	*B2	C711	B3	C819	A2	C939	A3	IC159	*B2	IC901	*C3			R43	*D2	R111	*B1	R215	*B2	R258	*A3	R419	*C2	R730	*C3	RB9	C1	RB421	*B2		
C28	D2	C77	C2	C219	*B2	C712	*C2	C820	A1			IC160	D3	IC902	*C3	R1	*D2	R44	*D2	R112	*B1	R216	*B2	R259	*A3	R501	*D3	R731	*D3	RB201	B2	RB422	*B2		
C29	D2	C78	C1	C220	A3	C713	*D3	C821	A1	CL1	*D1	IC202	*C2	IC903	*B2	R2	*D2	R45	*D2	R113	D2	R217	*B2	R260	*A3	R502	*D3	R732	*C3	RB202	B2	RB423	*B2		
C30	D2	C79	C2	C221	*A3	C714	*D3	C822	*C1	CL2	*D1	IC203	B3	IC1000	B2	R3	*D1	R46	*C1	R114	*C2	R218	*B2	R261	*A3	R503	*D3	R733	*D3	RB203	B2	RB501	*D2		
C31	*C2	C80	C1	C222	*A3	C780	B1	C900	C2	CL401	C3	IC204	*B2			R4	*D2	R47	*C1	R115	*C2	R219	*B2	R262	*A3	R504	*D3	R734	D3	RB204	A2	RB502	*D2		
C32	*C1	C81	C1	C223	A3	C781	B1	C901	C2	CL403	C3	IC205	*B2	L1	D1	R5	*D2	R48	*D2	R116	*C1	R220	*B2	R263	*A3	R505	*A3	R735	*D3	RB205	A2	RB503	*D3		
C33	*C2	C82	C2	C224	A3	C782	B1	C902	C2			IC206	*C2	L2	D1	R6	*D1	R49	*C1	R117	*C2	R221	B3	R264	*A3	R506	*A3	R736	*C3	RB206	B2	RB504	*D2		
C34	*C1	C83	C2	C225	*A3	C783	B1	C903	C2	CN1	*B3	IC207	*B2	L3	D1	R7	*D2	R50	*C1	R118	*C2	R222	B3	R265	*A3	R507	*A3	R737	*B2	RB207	B2	RB505	*D2		
C35	C1	C84	C1	C226	*A3	C784	B1	C904	A2	CN2	A3	IC208	*A3	L4	*C2	R8	*D2	R51	*C1	R119	*C2	R223	*B2	R266	*A3	R508	*A3	R738	B3	RB208	B2	RB506	*D2		
C36	D1	C85	C2	C227	A3	C785	B1	C905	*A2	CN3	D2	IC209	*A3	L5	*C2	R9	*D2	R52	*D2	R120	*C2	R224	B3	R267	*A3	R509	*A3	R739	*C2	RB209	B2	RB507	*D2		
C37	C1	C86	C1	C228	A3	C786	B1	C906	A2	CN4	D1	IC210	*A3	L201	A3	R10	*D2	R53	*D2	R121	*C2	R225	B3	R268	*A3	R510	*A3	R740	*B3	RB300	A2	RB508	*D3		
C38	*C1	C87	C1	C229	*A3	C787	B1	C907	*A1	CN5	*A2	IC301	*A2	L202	A3	R11	*D2	R54	*D1	R122	*C2	R226	B3	R269	*A3	R511	D1	R741	*D3	RB301	A2	RB509	*D2		
C39	C1	C88	C2	C230	D3	C788	B1	C908	*B2	CN6	D1	IC302	*A2	L203	*A2	R12	*D2	R55	D1	R123	*C1	R227	B3	R270	*A3	R512	D1	R742	D3	RB302	A2	RB510	*D2		
C40	D1	C89	C2	C231	D3	C789	B1	C909	*B1			IC303	*A3	L204	*A2	R13	*C2	R56	D1	R124	*C2	R228	*C2	R271	*A3	R513	*C1	R743	*D3	RB303	A2	RB511	A3		
C41	*C1	C90	C1	C232	D3	C790	B1	C910	*A2	E1	D1	IC304	*A3	L900	*C2	R14	*C2	R57	*C1	R125	*C1	R229	*C2	R272	*C2	R701	*D3	R781	*C1	RB304	*A2	RB512	A3		
C42	*D1	C91	*C2	C233	D3	C791	B1	C911	*B1	E2	*D1	IC305	*A3	L901	*C2	R15	*C2	R58	*C2	R126	*C2	R230	*C2	R273	*B2	R702	*D3	R782	*C1	RB305	*A2	RB701	*C2		
C43	D1	C92	*C2	C301	*A2	C792	B1	C912	*B1			IC306	*A1	L902	*C1	R16	*D2	R59	*C2	R127	*C2	R231	*C2	R274	B3	R703	*D3	R783	*C1	RB306	*A2	RB702	*C2		



DPR-253 -A SIDE-
SUFFIX: -14

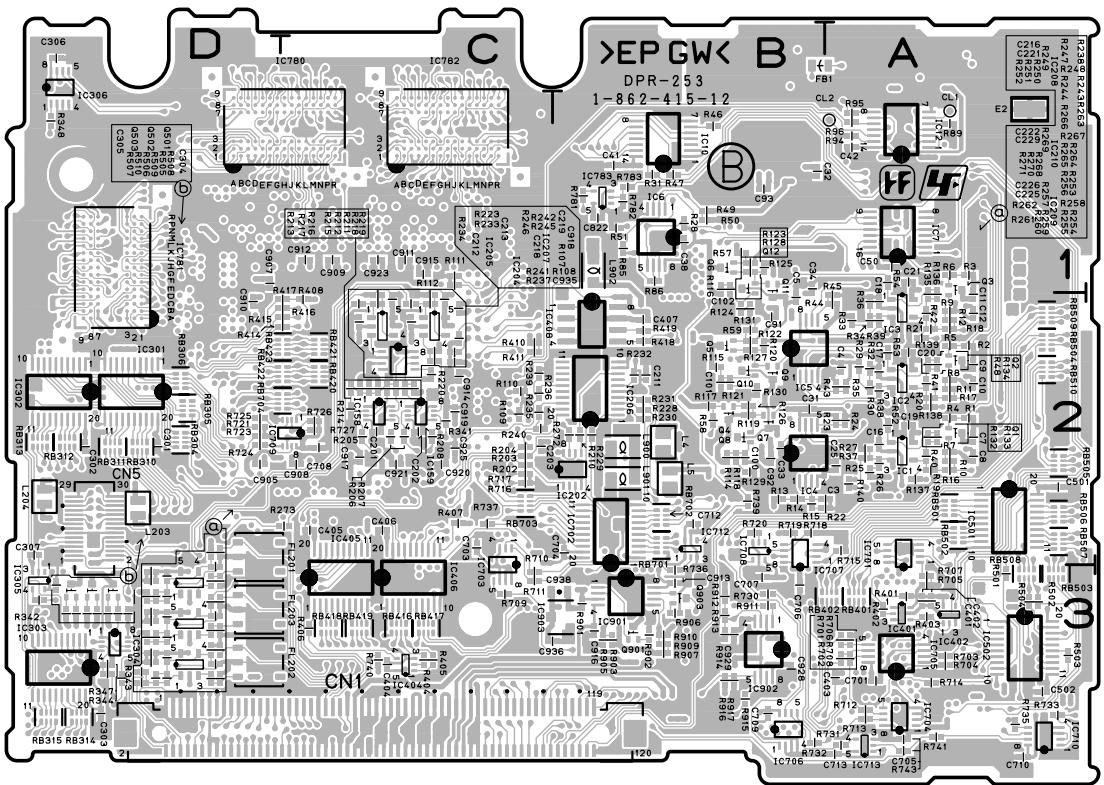
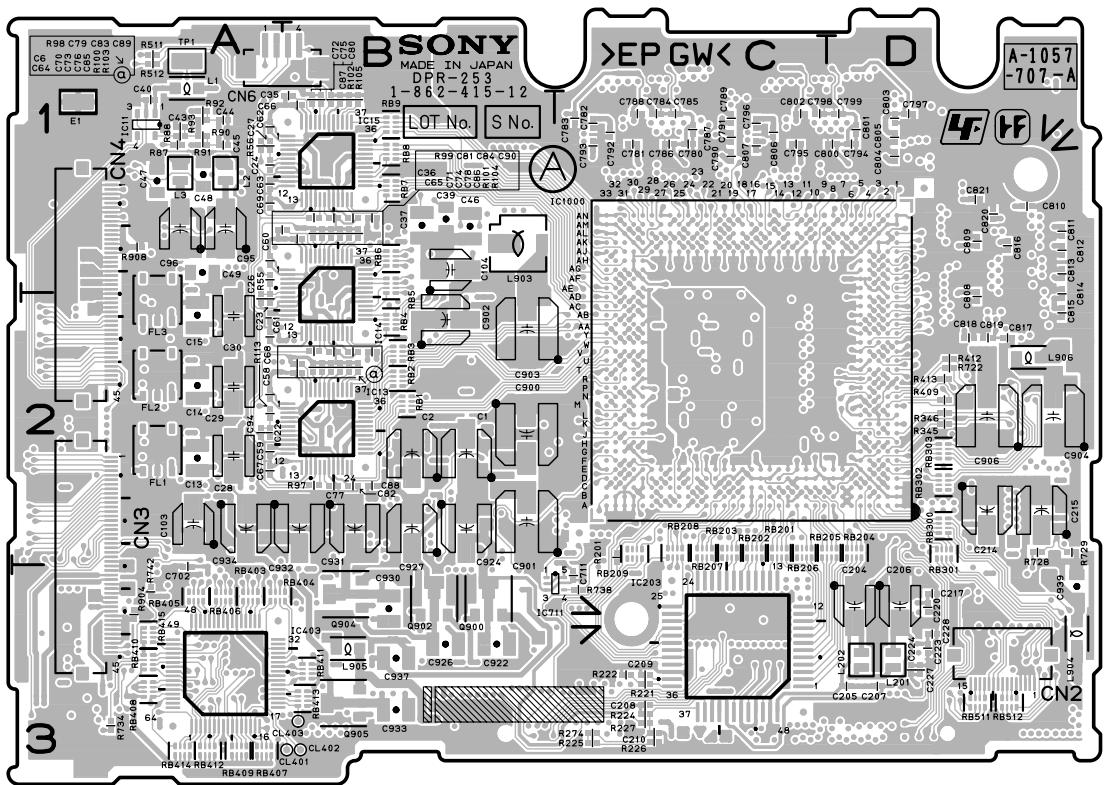
DPR-253 -B SIDE-
SUFFIX: -14

DPR-253 (1-862-415-14)

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C2	B2	C45	A1	C94	A2	C303	*D3	C795	C1	C915	*C1	FL2	A2	IC408	*B2	Q2	*A2	R23	*A2	R90	A1	R134	*A2	R238	*D2	R347	*D3	R711	*C3	R908	A1	RB402	*A3
C3	A2	C46	B1	C95	A1	C304	*D3	C796	C1	C916	*B3	FL3	A2	IC501	A2	Q3	*A1	R24	*A2	R91	A1	R135	*A2	R239	*C2	R348	*D1	R712	*A3	R909	*B3	RB403	A3
C4	*A2	C47	A1	C96	A1	C305	*D3	C797	D1	C917	*C2	FL201	*D2	IC502	*A3	Q4	*B2	R25	*A2	R92	A1	R136	*A2	R240	*C2	R401	*A3	R713	*A3	R910	*B3	RB404	A3
C5	*B2	C48	A1	C100	*B2	C306	*D1	C798	C1	C918	*C2	FL202	*D3	IC701	A2	Q5	*B2	R26	*A2	R93	A1	R137	*A2	R241	*C2	R402	*A3	R714	*A3	R911	*B3	RB405	A3
C6	B2	C49	A1	C101	*B2	C307	*D2	C799	D1	C919	*C2	FL203	*D3	IC702	*B2	Q6	*B1	R27	*A2	R94	*A1	R138	*A2	R242	*C2	R403	*A3	R715	*A2	R912	*B3	RB406	A3
C7	*A2	C50	*A1	C102	*B2	C401	*A3	C800	D1	C920	*C2			IC703	*C3	Q7	*B2	R28	*B1	R95	*A1	R139	*A2	R243	*D3	R404	*C3	R716	*C2	R913	*B3	RB407	A3
C8	*A2	C51	*A2	C103	A2	C402	*A3	C801	D1	C921	*C2	IC1	*A2	IC704	*A3	Q8	*B2	R29	*A2	R96	*A1	R140	*A2	R244	*D3	R405	*C3	R717	*C2	R914	*B3	RB408	A3
C9	*A2	C58	A2	C104	B1	C403	*A3	C802	C1	C922	B3	IC2	*A2	IC705	*A3	Q9	*B2	R30	*A2	R97	B2	R201	C2	R245	*C2	R406	*C3	R718	*B2	R915	*B3	RB409	A3
C10	*A2	C59	A2	C201	*C2	C404	*C3	C803	D1	C923	*C1	IC3	*A2	IC706	*B3	Q10	*B2	R31	*B1	R98	B2	R202	*C2	R246	*C2	R407	*C2	R719	*B2	R916	*B3	RB410	A3
C11	*A2	C60	A1	C202	*C2	C405	*C2	C804	D1	C924	B2	IC4	*B2	IC707	*B2	Q11	*B1	R32	*A2	R99	B1	R203	*C2	R247	*D2	R408	*C2	R720	*B2	R917	*B3	RB411	B3
C12	*A2	C61	A2	C203	*C2	C406	*C2	C805	D1	C925	*C2	IC5	*B2	IC708	*B2	Q12	*B1	R33	*A2	R100	B2	R204	*C2	R248	*D3	R409	D2	R721	*D2			RB412	A3
C13	A2	C62	A1	C204	D3	C407	*B2	C806	C1	C926	B3	IC6	*B1	IC709	*C2	Q501	*D3	R34	*A2	R101	B1	R205	*C2	R249	*D3	R410	*C2	R722	D2	RB1	B2	RB413	B3
C14	A2	C63	A1	C205	D3	C501	*A2	C807	C1	C927	B2	IC7	*A1	IC710	*A3	Q502	*D3	R35	*A2	R102	B1	R206	*C2	R250	*D3	R411	*C2	R723	*D2	RB2	B2	RB414	A3
C15	A2	C64	B2	C206	D3	C502	*A3	C808	D2	C928	*B3	IC10	*B1	IC711	C3	Q503	*D3	R36	*A2	R103	B2	R207	*C2	R251	*D3	R412	D2	R724	*D2	RB3	B2	RB415	A3
C16	*A2	C65	B1	C207	D3	C701	*A3	C809	D1	C929	*B3	IC11	A1	IC712	*B2	Q900	B3	R37	*A2	R104	B1	R208	*C2	R252	*D3	R413	D2	R725	*D2	RB4	B2	RB416	*C3
C17	*A2	C66	B1	C208	C3	C702	A3	C810	D1	C930	B3	IC12	*A1	IC713	*A3	Q901	*B3	R38	*A2	R105	B1	R210	*B2	R253	*D3	R414	*C2	R726	*C2	RB5	B1	RB417	*C3
C18	*A2	C67	A2	C209	C3	C703	*C2	C811	D1	C931	B2	IC13	B2	IC780	*C1	Q902	B3	R39	*A2	R107	*C2	R211	*C2	R254	*D3	R415	*C2	R727	*C2	RB6	B1	RB418	*C3
C19	*A2	C68	A2	C210	C3	C704	*B2	C812	D1	C932	B2	IC14	B2	IC781	*D1	Q903	*B3	R40	*A2	R108	*C2	R212	*C2	R255	*D3	R416	*C2	R728	D2	RB7	B1	RB419	*C3
C20	*A2	C69	A1	C211	*B2	C705	*A3	C813	D1	C933	B3	IC15	B1	IC782	*C1	Q904	B3	R41	*A2	R109	*C2	R213	*C2	R256	*D3	R417	*C2	R729	D2	RB8	B1	RB420	*C2
C21	*A1	C70	B2	C212	*C2	C706	*B3	C814	D2	C934	A2	IC158	*C2	IC783	*B1	Q905	B3	R42	*A2	R110	*C2	R214	*C2	R257	*D3	R418	*B2	R730	*B3	RB9	B1	RB421	*C2
C22	A2	C71	B1	C213	*C2	C707	*B3	C815	D2	C935	*C2	IC159	*C2	IC901	*B3			R43	*A2	R111	*C1	R215	*C2	R258	*D3	R419	*B2	R731	*A3	RB201	C2	RB422	*C2
C23	A2	C72	B1	C214	D2	C708	*C2	C816	D1	C936	*B3	IC160	A3	IC902	*B3	R1	*A2	R44	*A2	R112	*C1	R216	*C2	R259	*D3	R501	*A3	R732	*B3	RB202	C2	RB423	*C2
C24	A1	C73	B2	C215	D2	C709	*B3	C817	D2	C937	*B3	IC202	*B2	IC903	*C2	R2	*A2	R45	*A2	R113	A2	R217	*C2	R260	*D3	R502	*A3	R733	*A3	RB203	C2	RB501	*A2
C25	*A2	C74	B1	C216	*D3	C710	*A3	C818	D2	C938	*B3	IC203	C3	IC1000	B3	R3	*A1	R46	*B1	R114	*B2	R218	*C2	R261	*D3	R503	*A3	R734	A3	RB204	D2	RB502	*A2
C26	A2	C75	B1	C217	D3	C711	*B3	C819	D2	C939	D3	IC204	*C2			R4	*A2	R47	*B1	R115	*B2	R219	*C2	R262	*D3	R504	*A3	R735	*A3	RB205	D2	RB503	*A3
C27	A1	C76	B2	C218	*C2	C712	*C2	C820	D1			L1	A1			R5	*A2	R48	*A2	R116	*B1	R220	*C2	R263	*D3	R505	*D3	R736	*B3	RB206	C2	RB504	*A2
C28	A2	C77	B2	C219	*C2	C713	*A3	C821	D1	CL1	*A1	L2	A1			R6	*A1	R49	*B1	R117	*B2	R221	C3	R264	*D3	R506	*D3	R737	*C2	RB207	C2	RB505	*A2
C29	A2	C78	B1	C220	D3	C714	*A3	C822	*B1	CL2	*A1	L3	A1			R7	*A2	R50	*B1	R118	*B2	R222	C3	R265	*D3	R507	*D3	R738	C3	RB208	C2	RB506	*A2
C30	A2	C79	B2	C221	*D3	C780	C1	C900	B2	CL401	B3	L4	*B2			R8	*A2	R51	*B1	R119	*B2	R223	*C2	R266	*D3	R508	*D3	R739	*B2	RB209	C2	RB507	*A2
C31	*B2	C80	B1	C222	*D3	C781	C1	C901	B2	CL403	B3	L5	*B2			R9	*A2	R52	*A2	R120	*B2	R224	C3	R267	*D3	R509	*D3	R740	*C3	RB300	D2	RB508	*A3
C32	*B1	C81	B1	C223	D3	C782	C1	C902	B2			L201	D3			R10	*A2	R53	*A2	R121	*B2	R225	C3	R268	*D3	R510	*D3	R741	*A3	RB301	D2	RB509	*A2
C33	*B2	C82	B2	C224	D3	C783	C1	C903	B2	CN1	*C3	L202	D3			R11	*A2	R54	*A1	R122	*B2	R226	C3	R269	*D3	R511	A1	R742	A3	RB302	D2	RB510	*A2
C34	*B1	C83	B2	C225	*D3	C784	C1	C904	D2	CN2	D3	L203	*D2			R12	*A2	R55	A1	R123	*B1	R227	C3	R270	*D3	R512	A1	R743	*A3	RB303	D2	RB511	D3
C35	B1	C84	B1	C226	*D3	C785	C1	C905	*D2	CN3	A2	L204	*D2			R13	*B2	R56	A1	R124	*B2	R228	*B2	R271	*D3	R701	*A3	R781	*B1	RB304	*D2	RB512	D3
C36	A1	C85	B2	C227	D3	C786	C1	C906	D2	CN4	A1	L900	*B2			R14	*B2	R57	*B1	R125	*B1	R229	*B2	R272	*B2	R702	*A3	R782	*B1	RB305	*D2	RB701	*B2
C37	B1	C86	B1	C228	D3	C787	C1	C907	*D1	CN5	*D2	L901	*B2			R15	*B2	R58	*B2	R126	*B2	R230	*B2	R273	*C2	R703	*A3	R783	*B1	RB306	*D2	RB702	*B2
C38	*B1	C87	B1	C229	*D3	C788	C1	C908	*C2	CN6	A1	L902	*B1			R16	*A2	R59	*B2	R127	*B2	R231	*B2	R274	C3	R704	*A3	R901	*B3	RB310	*D2	RB703	*C2
C39	B1	C88	B2	C230	A3	C789	C1	C909	*C1			L903	B1			R17	*A2	R60	*A2	R128	*B1	R232	*B2	R341	*C2	R705	*A3	R902	*B3	RB311	*D2	RB704	*C2
C40	A1	C89	B2	C231	A3	C790	C1	C910	*D2	E1	A1	L904	D3			R18	*A2	R85	*B1	R129	*B2	R233	*C2	R342	*D3	R706	*A3	R903	*B3	RB312	*D2		
C41	*B1	C90	B1	C232	A3	C791	C1	C911	*C1	E2	*A1	L905	B3			R19	*A2	R86	*B1	R130	*B2	R234	*C2	R343	*D3	R707	*A3	R904	*A3	RB313	*D2	TP1	A1
C42	*A1	C91	*B2	C233	A3	C792	C1	C912	*C1			L906	D2			R20	*A2	R87	A1	R131	*B2	R235	*C2	R344	*D3	R708	*A3	R905	*B3	RB314	*D3		
C43	A1	C92	*B2	C301	*D2	C793	C1	C913	*B3	FB1	*B1					R21	*A2	R88	A1	R132	*A2	R236	*C2	R345	D2	R709	*C3	R906	*B3	RB315	*D3		

DPR-253
SUFFIX: -12

DPR-253
SUFFIX: -12



DPR-253 -A SIDE-
SUFFIX: -12

DPR-253 -B SIDE-
SUFFIX: -12

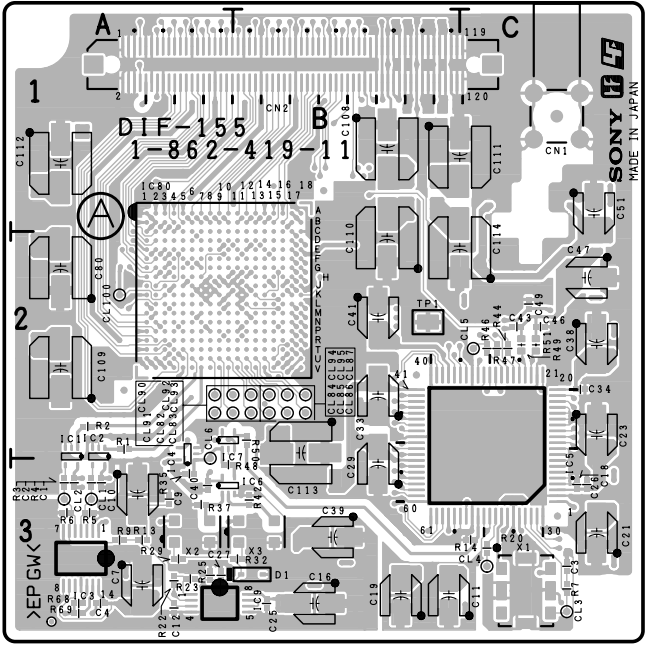
DPR-253 (1-862-415-12)

C1	B2	C44	A1	C94	A2	C307	*D2	C800	D1	C920	*C2	FL202	*D3	IC702	*B2	Q6	*B1	R27	*A2	R95	*A1	R139	*A2	R243	*D3	R404	*C3	R716	*C2	R913	*B3	RB407	A3
C2	B2	C45	A1	C95	A1	C401	*A3	C801	D1	C921	*C2	FL203	*D3	IC703	*C3	Q7	*B2	R28	*B1	R96	*A1	R140	*A2	R244	*D3	R405	*C3	R717	*C2	R914	*B3	RB408	A3
C3	*A2	C46	B1	C96	A1	C402	*A3	C802	C1	C922	B3			IC704	*A3	Q8	*B2	R29	*A2	R97	B2	R201	C2	R245	*C2	R406	*C3	R718	*B2	R915	*B3	RB409	A3
C4	*A2	C47	A1	C100	*B2	C403	*A3	C803	D1	C923	*C1	IC1	*A2	IC705	*A3	Q9	*B2	R30	*A2	R98	B2	R202	*C2	R246	*C2	R407	*C2	R719	*B2	R916	*B3	RB410	A3
C5	*B2	C48	A1	C101	*B2	C404	*C3	C804	D1	C924	B2	IC2	*A2	IC706	*B3	Q10	*B2	R31	*B1	R99	B1	R203	*C2	R247	*D2	R408	*C2	R720	*B2	R917	*B3	RB411	B3
C6	B2	C49	A1	C102	*B1	C405	*C2	C805	D1	C925	*C2	IC3	*A2	IC707	*B2	Q11	*B1	R32	*A2	R100	B2	R204	*C2	R248	*D3	R409	D2	R721	*D2			RB412	A3
C7	*A2	C50	*A1	C103	A2	C406	*C2	C806	C1	C926	B3	IC4	*B2	IC708	*B2	Q12	*B1	R33	*A2	R101	B1	R205	*C2	R249	*D3	R410	*C2	R722	D2	RB1	B2	RB413	B3
C8	*A2	C58	A2	C104	B1	C407	*B2	C807	C1	C927	B2	IC5	*B2	IC709	*C2	Q501	*D3	R34	*A2	R102	B1	R206	*C2	R250	*D3	R411	*C2	R723	*D2	RB2	B2	RB414	A3
C9	*A2	C59	A2	C201	*C2	C501	*A2	C808	D2	C928	*B3	IC6	*B1	IC710	*A3	Q502	*D3	R35	*A2	R103	B2	R207	*C2	R251	*D3	R412	D2	R724	*D2	RB3	B2	RB415	A3
C10	*A2	C60	A1	C202	*C2	C502	*A3	C809	D1	C929	*B3	IC7	*A1	IC711	C3	Q503	*D3	R36	*A2	R104	B1	R208	*C2	R252	*D3	R413	D2	R725	*D2	RB4	B2	RB416	*C3
C11	*A2	C61	A2	C203	*C2	C701	*A3	C810	D1	C930	B3	IC10	*B1	IC712	*B2	Q900	B3	R37	*A2	R105	B1	R210	*B2	R253	*D3	R414	*C2	R726	*C2	RB5	B1	RB417	*C3
C12	*A2	C62	A1	C204	D3	C702	A3	C811	D1	C931	B2	IC11	A1	IC713	*A3	Q901	*B3	R38	*A2	R107	*C2	R211	*C2	R254	*D3	R415	*C2	R727	*C2	RB6	B1	RB418	*C3
C13	A2	C63	A1	C205	D3	C703	*C2	C812	D1	C932	B2	IC12	*A1	IC780	*C1	Q902	B3	R39	*A2	R108	*C2	R212	*C2	R255	*D3	R416	*C2	R728	D2	RB7	B1	RB419	*C3
C14	A2	C64	B2	C206	D3	C704	*B2	C813	D1	C933	B3	IC13	B2	IC781	*D1	Q903	*B3	R40	*A2	R109	*C2	R213	*C2	R256	*D3	R417	*C2	R729	D2	RB8	B1	RB420	*C2
C15	A2	C65	B1	C207	D3	C705	*A3	C814	D2	C934	A2	IC14	B2	IC782	*C1	Q904	B3	R41	*A2	R110	*C2	R214	*C2	R257	*D3	R418	*B2	R730	*B3	RB9	B1	RB421	*C2
C16	*A2	C66	B1	C208	C3	C706	*B3	C815	D2	C935	*C2	IC15	B1	IC783	*B1	Q905	B3	R42	*A2	R111	*C1	R215	*C2	R258	*D3	R419	*B2	R731	*A3	RB201	C2	RB422	*C2
C17	*A2	C67	A2	C209	C3	C707	*B3	C816	D1	C936	*B3	IC158	*C2	IC901	*B3			R43	*A2	R112	*C1	R216	*C2	R259	*D3	R501	*A3	R732	*B3	RB202	C2	RB423	*C2
C18	*A2	C68	A2	C210	C3	C708	*C2	C817	D2	C937	B3	IC159	*C2	IC902	*B3	R1	*A2	R44	*A2	R113	A2	R217	*C2	R260	*D3	R502	*A3	R733	*A3	RB203	C2	RB501	*A2
C19	*A2	C69	A1	C211	*B2	C709	*B3	C818	D2	C938	*B3	IC202	*B2	IC903	*B3	R2	*A2	R45	*A2	R114	*B2	R218	*C2	R261	*D3	R503	*A3	R734	A3	RB204	D2	RB502	*A2
C20	*A2	C70	B2	C212	*C2	C710	*A3	C819	D2	C939	D3	IC203	C3	IC1000	C2	R3	*A1	R46	*B1	R115	*B2	R219	*C2	R262	*D3	R504	*A3	R735	*A3	RB205	D2	RB503	*A3
C21	*A1	C71	B1	C213	*C2	C711	C3	C820	D1			IC204	*C2			R4	*A2	R47	*B1	R116	*B1	R220	*C2	R263	*D3	R505	*D3	R736	*B3	RB206	C2	RB504	*A2
C22	A2	C72	B1	C214	D2	C712	*B2	C821	D1	CL1	*A1	IC205	*C2	L1	A1	R5	*A2	R48	*A2	R117	*B2	R221	C3	R264	*D3	R506	*D3	R737	*C2	RB207	C2	RB505	*A2
C23	A2	C73	B2	C215	D2	C713	*A3	C822	*B1	CL2	*A1	IC206	*B2	L2	A1	R6	*A1	R49	*B1	R118	*B2	R222	C3	R265	*D3	R507	*D3	R738	C2	RB208	C2	RB506	*A2
C24	A1	C74	B1	C216	*D3	C780	C1	C900	B2	CL401	B3	IC207	*C2	L3	A1	R7	*A2	R50	*B1	R119	*B2	R223	*C2	R266	*D3	R508	*D3	R739	*B2	RB209	C2	RB507	*A2
C25	*A2	C75	B1	C217	D3	C781	C1	C901	B2	CL402	B3	IC208	*D3	L4	*B2	R8	*A2	R51	*B1	R120	*B2	R224	C3	R267	*D3	R509	*D3	R740	*C3	RB300	D2	RB508	*A3
C26	A2	C76	B2	C218	*C2	C782	C1	C902	B2	CL403	B3	IC209	*D3	L5	*B2	R9	*A2	R52	*A2	R121	*B2	R225	C3	R268	*D3	R510	*D3	R741	*A3	RB301	D2	RB509	*A2
C27	A1	C77	B2	C219	*C2	C783	C1	C903	B2			IC210	*D3	L201	D3	R10	*A2	R53	*A2	R122	*B2	R226	C3	R269	*D3	R511	A1	R742	A3	RB302	D2	RB510	*A2
C28	A2	C78	B1	C220	D3	C784	C1	C904	D2	CN1	*C3	IC301	*D2	L202	D3	R11	*A2	R54	*A1	R123	*B1	R227	C3	R270	*D3	R512	A1	R743	*A3	RB303	D2	RB511	D3
C29	A2	C79	B2	C221	*D3	C785	C1	C905	*D2	CN2	D3	IC302	*D2	L203	*D2	R12	*A2	R55	A1	R124	*B2	R228	*B2	R271	*D3	R701	*A3	R781	*B1	RB304	*D2	RB512	D3
C30	A2	C80	B1	C222	*D3	C786	C1	C906	D2	CN3	A2	IC303	*D3	L204	*D2	R13	*B2	R56	A1	R125	*B1	R229	*B2	R272	*B2	R702	*A3	R782	*B1	RB305	*D2	RB701	*B2
C31	*B2	C81	B1	C223	D3	C787	C1	C907	*D1	CN4	A1	IC304	*D3	L900	*B2	R14	*B2	R57	*B1	R126	*B2	R230	*B2	R273	*C2	R703	*A3	R783	*B1	RB306	*D2	RB702	*B2
C32	*B1	C82	B2	C224	D3	C788	C1	C908	*C2	CN5	*D2	IC305	*D3	L901	*B2	R15	*B2	R58	*B2	R127	*B2	R231	*B2	R274	C3	R704	*A3	R901	*B3	RB310	*D2	RB703	*C2
C33	*B2	C83	B2	C225	*D3	C789	C1	C909	*C1	CN6	A1	IC306	*D1	L902	*B1	R16	*A2	R59	*B2	R128	*B1	R232	*B2	R341	*C2	R705	*A3	R902	*B3	RB311	*D2	RB704	*C2
C34	*B1	C84	B1	C226	*D3	C790	C1	C910	*D2			IC401	*A3	L903	B1	R17	*A2	R85	*B1	R129	*B2	R233	*C2	R342	*D3	R706	*A3	R903	*B3	RB312	*D2		
C35	B1	C85	B2	C227	D3	C791	C1	C911	*C1	E1	A1	IC402	*A3	L904	D3	R18	*A2	R86	*B1	R130	*B2	R234	*C2	R343	*D3	R707	*A3	R904	A3	RB313	*D2	TP1	A1
C36	A1	C86	B1	C228	D3	C792	C1	C912	*C1	E2	*A1	IC403	A3	L905	B3	R19	*A2	R87	A1	R131	*B2	R235	*C2	R344	*D3	R708	*A3	R905	*B3	RB314	*D3		
C37	B1	C87	B1	C229	*D3	C793	C1	C913	*B3			IC404	*C3	L906	D2	R20	*A2	R88	A1	R132	*A2	R236	*C2	R345	D2	R709	*C3	R906	*B3	RB315	*D3		
C38	*B1	C88	B2	C301	*D2	C794	D1	C914	*C2	FB1	*B1	IC405	*C3			R21	*A2	R89	*A1	R133	*A2	R237	*C2	R346	D2	R710	*C3	R907	*B3	RB401	*A3		
C39	B1	C89	B2	C302	*D2	C795	C1	C915	*C1			IC406	*C3	Q1	*A2	R22	*A2	R90	A1	R134	*A2	R238	*D2	R347	*D3	R711	*C3	R908	A1	RB402	*A3		
C40	A1	C90	B1	C303	*D3	C796	C1	C916	*B3	FL1	A2	IC408	*B2	Q2	*A2	R23	*A2	R91	A1	R135	*A2	R239	*C2	R348	*D1	R712	*A3	R909	*B3	RB403	A3		
C41	*B1	C91	*B2	C304	*D3	C797	D1	C917	*C2	FL2	A2	IC501	*A2	Q3	*A1	R24	*A2	R92	A1	R136	*A2	R240	*C2	R401	*A3	R713	*A3	R910	*B3	RB404	A3		
C42	*A1	C92	*B2	C305	*D3	C798	C1	C918	*C2	FL3	A2	IC502	*A3	Q4	*B2	R25	*A2	R93	A1	R137	*A2	R241	*C2	R402	*A3	R714	*A3	R911	*B3	RB405	A3		
C43	A1	C93	*B1	C306	*D1	C799	D1	C919	*C2	FL201	*D2	IC701	*A2	Q5	*B2	R26	*A2	R94	*A1	R138	*A2	R242	*C2	R403	*A3	R715	*A2	R912	*B3	RB406	A3		

6	*A1	R139	*A2	R243	*D3	R404	*C3	R716	*C2	R913	*B3	RB407	A3
7	*A1	R140	*A2	R244	*D3	R405	*C3	R717	*C2	R914	*B3	RB408	A3
6	B2	R201	C2	R245	*C2	R406	*C3	R718	*B2	R915	*B3	RB409	A3
8	B2	R202	*C2	R246	*C2	R407	*C2	R719	*B2	R916	*B3	RB410	A3
9	B1	R203	*C2	R247	*D2	R408	*C2	R720	*B2	R917	*B3	RB411	B3
00	B2	R204	*C2	R248	*D3	R409	D2	R721	*D2			RB412	A3
01	B1	R205	*C2	R249	*D3	R410	*C2	R722	D2	RB1	B2	RB413	B3
02	B1	R206	*C2	R250	*D3	R411	*C2	R723	*D2	RB2	B2	RB414	A3
03	B2	R207	*C2	R251	*D3	R412	D2	R724	*D2	RB3	B2	RB415	A3
04	B1	R208	*C2	R252	*D3	R413	D2	R725	*D2	RB4	B2	RB416	*C3
05	B1	R210	*B2	R253	*D3	R414	*C2	R726	*C2	RB5	B1	RB417	*C3
07	*C2	R211	*C2	R254	*D3	R415	*C2	R727	*C2	RB6	B1	RB418	*C3
08	*C2	R212	*C2	R255	*D3	R416	*C2	R728	D2	RB7	B1	RB419	*C3
09	*C2	R213	*C2	R256	*D3	R417	*C2	R729	D2	RB8	B1	RB420	*C2
10	*C2	R214	*C2	R257	*D3	R418	*B2	R730	*B3	RB9	B1	RB421	*C2
11	*C1	R215	*C2	R258	*D3	R419	*B2	R731	*A3	RB201	C2	RB422	*C2
12	*C1	R216	*C2	R259	*D3	R501	*A3	R732	*B3	RB202	C2	RB423	*C2
13	A2	R217	*C2	R260	*D3	R502	*A3	R733	*A3	RB203	C2	RB501	*A2
14	*B2	R218	*C2	R261	*D3	R503	*A3	R734	A3	RB204	D2	RB502	*A2
15	*B2	R219	*C2	R262	*D3	R504	*A3	R735	*A3	RB205	D2	RB503	*A3
16	*B1	R220	*C2	R263	*D3	R505	*D3	R736	*B3	RB206	C2	RB504	*A2
17	*B2	R221	C3	R264	*D3	R506	*D3	R737	*C2	RB207	C2	RB505	*A2
18	*B2	R222	C3	R265	*D3	R507	*D3	R738	C3	RB208	C2	RB506	*A2
19	*B2	R223	*C2	R266	*D3	R508	*D3	R739	*B2	RB209	C2	RB507	*A2
20	*B2	R224	C3	R267	*D3	R509	*D3	R740	*C3	RB300	D2	RB508	*A3
21	*B2	R225	C3	R268	*D3	R510	*D3	R741	*A3	RB301	D2	RB509	*A2
22	*B2	R226	C3	R269	*D3	R511	A1	R742	A3	RB302	D2	RB510	*A2
23	*B1	R227	C3	R270	*D3	R512	A1	R743	*A3	RB303	D2	RB511	D3
24	*B2	R228	*B2	R271	*D3	R701	*A3	R781	*B1	RB304	*D2	RB512	D3
25	*B1	R229	*B2	R272	*B2	R702	*A3	R782	*B1	RB305	*D2	RB701	*B2
26	*B2	R230	*B2	R273	*C2	R703	*A3	R783	*B1	RB306	*D2	RB702	*B2
27	B2	R231	*B2	R274	C3	R704	*A3	R901	*B3	RB310	*D2	RB703	*C2
28	*B1	R232	*B2	R341	*C2	R705	*A3	R902	*B3	RB311	*D2	RB704	*C2
29	B2	R233	*C2	R342	*D3	R706	*A3	R903	*B3	RB312	*D2		
30	*B2	R234	*C2	R343	*D3	R707	*A3	R904	A3	RB313	*D2	TP1	A1
31	B2	R235	*C2	R344	*D3	R708	*A3	R905	*B3	RB314	*D3		
32	*A2	R236	*C2	R345	D2	R709	*C3	R906	*B3	RB315	*D3	*.B	SIDE
33	*A2	R237	*C2	R346	D2	R710	*C3	R907	*B3	RB401	*A3		
34	*A2	R238	*D2	R347	*D3	R711	*C3	R908	A1	RB402	*A3		
35	*A2	R239	*C2	R348	*D1	R712	*A3	R909	*B3	RB403	A3		
36	*A2	R240	*C2	R401	*A3	R713	*A3	R910	*B3	RB404	A3		
37	*A2	R241	*C2	R402	*A3	R714	*A3	R911	*B3	RB405	A3		
38	*A2	R242	*C2	R403	*A3	R715	*A2	R912	*B3	RB406	A3		

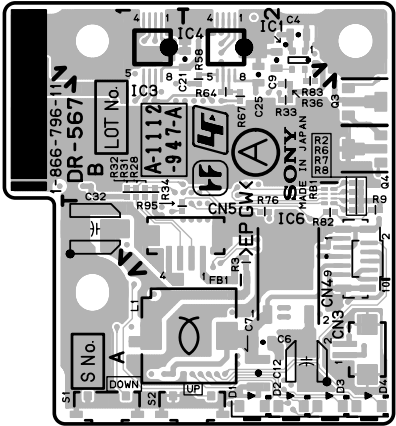
DIF-155 (1-862-419-11) (HDC-X300/X300K)

C1	A3	CL2	A3	R28	*C2
C2	A3	CL3	C3	R29	A3
C3	C3	CL4	C3	R30	*A3
C4	A3	CL5	C2	R31	*C3
C5	*C3	CL6	A3	R32	B3
C6	*C3	CL7	*A1	R33	*C2
C7	A3	CL8	*A1	R34	*C2
C8	*C3	CL80	*A1	R35	A3
C9	A3	CL81	*A2	R36	*B3
C10	A3	CL82	A2	R37	A3
C11	B3	CL83	B2	R38	*C2
C12	A3	CL84	B2	R39	*B3
C13	*C3	CL85	B2	R40	*C2
C14	*B3	CL86	B2	R41	*C2
C15	*C3	CL87	B2	R42	B3
C16	B3	CL88	*A1	R43	*C2
C17	*C3	CL89	*A1	R44	C2
C18	C3	CL90	A2	R45	*C2
C19	B3	CL91	A2	R46	C2
C20	*C3	CL92	A2	R47	C2
C21	C3	CL93	B2	R48	A3
C22	*B3	CL94	B2	R49	C2
C23	C2	CL95	B2	R50	B2
C24	*C3	CL96	*A2	R51	C2
C25	B3	CL97	*B1	R52	*C2
C26	C3	CL98	*A2	R53	*C2
C27	A3	CL99	*B1	R54	*C2
C28	*C2	CL100	A2	R55	*C2
C29	B3			R56	*C2
C30	*A3	CN1	C1	R57	*C1
C31	*B3	CN2	B1	R58	*C1
C32	*A3			R59	*C1
C33	B2	D1	B3	R60	*C1
C34	C2			R61	*C1
C35	*B2	IC1	A2	R62	*C1
C36	*B3	IC2	A2	R63	*C1
C37	*B3	IC3	A3	R64	*C1
C38	C2	IC4	A2	R65	*C1
C39	B3	IC5	C2	R66	*C1
C40	A3	IC6	A3	R67	*C1
C41	B2	IC7	A2	R68	A3
C42	*B2	IC8	*C2	R69	A3
C43	C2	IC9	A3	R80	*A2
C44	*C2	IC80	A2	R81	*B2
C45	*C2				
C46	C2	L1	*A3	RB1	*B2
C47	C2	L2	*B3	RB2	*B2
C48	*A2	L3	*C3	RB3	*B2
C49	C2	L4	*C3	RB4	*B2
C50	*C2	L5	*B3	RB5	*B2
C51	C1	L6	*B3	RB6	*B2
C52	*C1	L7	*B3	RB80	*B1
C53	*C1	L8	*C2		
C54	*C1	L9	*B2	TP1	B2
C55	*C1	L10	*C2		
C80	A2	L11	*C1	X1	C3
C81	*B1	L12	*C1	X2	A3
C82	*A1	L13	*C1	X3	B3
C83	*A2	L80	*B1		
C84	*B2	L81	*B1	*:B SIDE	
C85	*B2				
C86	*A2	Q1	*B3		
C87	*A2	Q2	*A3		
C88	*A2	Q3	*B3		
C89	*A2				
C90	*A2	R1	A2		
C91	*A1	R2	A2		
C92	*B2	R3	A3		
C93	*B1	R4	A3		
C94	*B2	R5	A3		
C95	*A2	R6	A3		
C96	*A1	R7	C3		
C97	*A2	R8	*C3		
C98	*A2	R9	A3		
C99	*A2	R10	*C3		
C100	*A2	R11	*C3		
C101	*A2	R12	*C3		
C102	*A2	R13	A3		
C103	*A2	R14	C3		
C104	*B2	R15	*A3		
C105	*B2	R16	*A3		
C106	*B2	R17	*A3		
C107	*B2	R18	*C3		
C108	B1	R19	*B3		
C109	A2	R20	C3		
C110	B2	R21	*B3		
C111	B1	R22	A3		
C112	A1	R23	A3		
C113	B2	R24	*A2		
C114	B2	R25	A3		
		R26	*A3		
CL1	A3	R27	*C2		

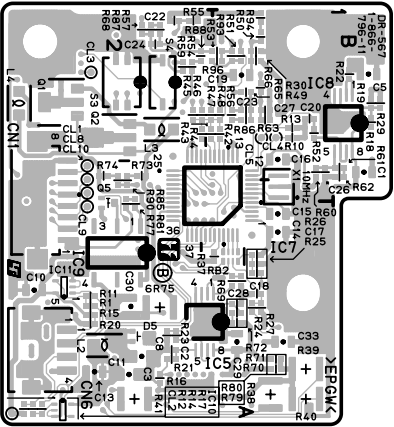


DR-567 (1-866-796-11) (HKC-SV1)

C1	*B1	C32	A1	IC6	A2	R15	*A2	R46	*B2	R76	A2
C2	*A2	C33	*A1	IC7	*B1	R16	*A2	R47	*B2	R77	*A2
C3	*A2			IC8	*B1	R17	*A2	R48	*B1	R79	*A1
C4	B2	CL1	*B2	IC9	*A2	R18	*B1	R49	*B1	R80	*A1
C5	*B1	CL2	*A2	IC10	*A2	R19	*B1	R50	*B1	R81	*A2
C6	A2	CL3	*B2	IC11	*A2	R20	*A2	R51	*B1	R82	A2
C7	A2	CL4	*B1			R21	*A2	R52	*B1	R83	B2
C8	*A2	CL5	*B1	L1	A2	R22	*B1	R53	*B1	R85	*B2
C9	B2	CL8	*B2	L2	*A2	R23	*A2	R54	*B2	R86	*B1
C10	*A2	CL9	*A2	L3	*B2	R24	*A1	R55	*B2	R87	*B2
C11	*A2	CL10	*B2	L4	*B2	R25	*A1	R56	*B1	R88	*B2
C12	A2					R26	*A1	R57	*B2	R90	*B2
C13	*A2	CN1	*B2	Q1	*B2	R27	*A1	R58	B2	R93	*B1
C14	*A1	CN3	A2	Q2	*B2	R28	B1	R59	*B2	R94	*B1
C15	*A1	CN4	A2	Q3	B2	R29	*B1	R60	*B1	R95	A1
C16	*B1	CN5	A2	Q4	B2	R30	*B1	R61	*B1	R96	*B1
C17	*A1	CN6	*A2	Q5	*A2	R31	B1	R62	*B1		
C18	*A1					R32	B1	R63	*B1	RB1	B2
C19	*B1	D1	A2	R1	*A2	R33	B2	R64	B2	RB2	*A1
C20	*B1	D2	A2	R2	B2	R34	B1	R65	*B1		
C21	B2	D3	A2	R3	A2	R36	B2	R66	*B1	S1	A1
C22	*B2	D4	A2	R6	B2	R37	*A1	R67	B2	S2	A2
C23	*B1	D5	*A2	R7	A2	R38	*A1	R68	*B2	S3	*B2
C24	*B2			R8	A2	R39	*A1	R69	*A1	S4	*B2
C25	B2	FB1	A2	R9	A2	R40	*A1	R70	*A1	X1	*B1
C26	*B1			R10	*B1	R41	*A2	R71	*A1		
C27	*B1	IC1	B2	R11	*A2	R42	*B1	R72	*A1		
C28	*A1	IC3	B1	R12	*A2	R43	*B2	R73	*B2		
C29	*A1	IC4	B2	R13	*B1	R44	*B2	R74	*B2		
C30	*A2	IC5	*A2	R14	*A2	R45	*B2	R75	*A2		



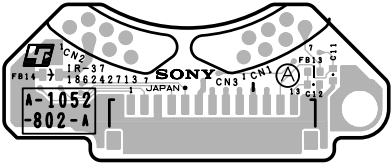
DR-567 (HKC-SV1) -A SIDE-
SUFFIX: -11



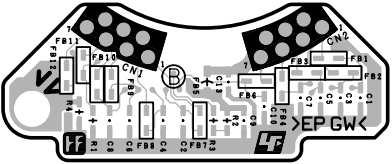
DR-567 (HKC-SV1) -B SIDE-
SUFFIX: -11

IR-37 (1-862-427-13)

C1	*A1	FB3	*A1
C2	*A1	FB4	*A1
C3	*A1	FB5	*A1
C4	*A1	FB6	*A1
C5	*A1	FB7	*A1
C6	*A1	FB8	*A1
C7	*A1	FB9	*A1
C8	*A1	FB10	*A1
C9	*A1	FB11	*A1
C10	*A1	FB12	*A1
C11	A1	FB13	A1
C12	A1	FB14	A1
C13	*A1		
CN1	A1	R1	*A1
CN2	A1	R2	*A1
CN3	A1	R3	*A1
		R4	*A1
FB1	*A1	*:B	SIDE
FB2	*A1		



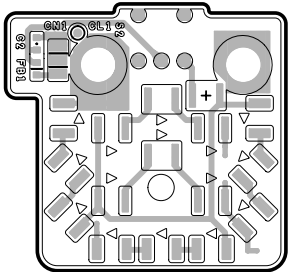
IR-37 -A SIDE-
SUFFIX: -13



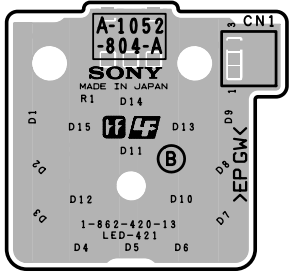
IR-37 -B SIDE-
SUFFIX: -13

LED-421 (1-862-420-13)

C2	A1	D15	A1
CL1	A1	FB1	A1
CN1	*A1	R1	A1
D1	A1	S2	A1
D2	A1		
D3	A1	*:B	SIDE
D4	A1		
D5	A1		
D6	A1		
D7	A1		
D8	A1		
D9	A1		
D10	A1		
D11	A1		
D12	A1		
D13	A1		
D14	A1		



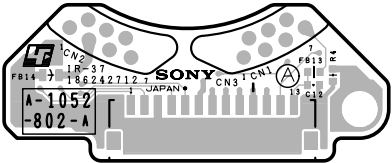
LED-421 -A SIDE-
SUFFIX: -13



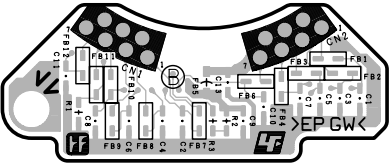
LED-421 -B SIDE-
SUFFIX: -13

IR-37 (1-862-427-12)

C1	*A1	FB3	*A1
C2	*A1	FB4	*A1
C3	*A1	FB5	*A1
C4	*A1	FB6	*A1
C5	*A1	FB7	*A1
C6	*A1	FB8	*A1
C7	*A1	FB9	*A1
C8	*A1	FB10	*A1
C9	*A1	FB11	*A1
C10	*A1	FB12	*A1
C11	*A1	FB13	A1
C12	A1	FB14	A1
C13	*A1		
CN1	A1	R1	*A1
CN2	A1	R2	*A1
CN3	A1	R3	*A1
		R4	A1
FB1	*A1	*:B	SIDE
FB2	*A1		



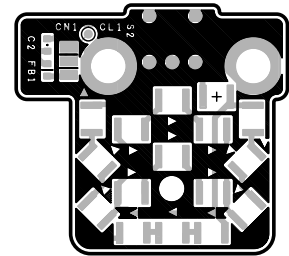
IR-37 -A SIDE-
SUFFIX: -12



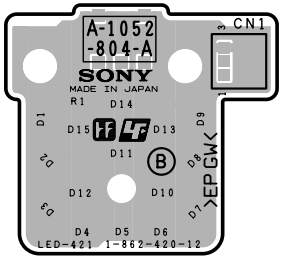
IR-37 -B SIDE-
SUFFIX: -12

LED-421 (1-862-420-12)

C2	A1	D15	A1
CL1	A1	FB1	A1
CN1	*A1	R1	A1
D1	A1	S2	A1
D2	A1		
D3	A1	*:B	SIDE
D4	A1		
D5	A1		
D6	A1		
D7	A1		
D8	A1		
D9	A1		
D10	A1		
D11	A1		
D12	A1		
D13	A1		
D14	A1		



LED-421 -A SIDE-
SUFFIX: -12



LED-421 -B SIDE-
SUFFIX: -12

MB-1042 (1-862-451-12)

- C1 *C1
C201 *A2
C202 *B2
C203 *B2
C204 *A2
C205 *B2
C206 *A2
C207 *A2
C208 *A1
C209 *A2
C210 *A3
C211 *B3
C212 *B3
C213 *B3
C214 *B3
C215 *A1

CL1 *B3

CN1 B3
CN2 B2
CN3 B1
CN4 *A2
CN5 A3
CN6 B3
CN7 C3
CN8 C3
CN201 A1
CN202 *A3
CN203 *A1

D1 *A3
D201 *B2

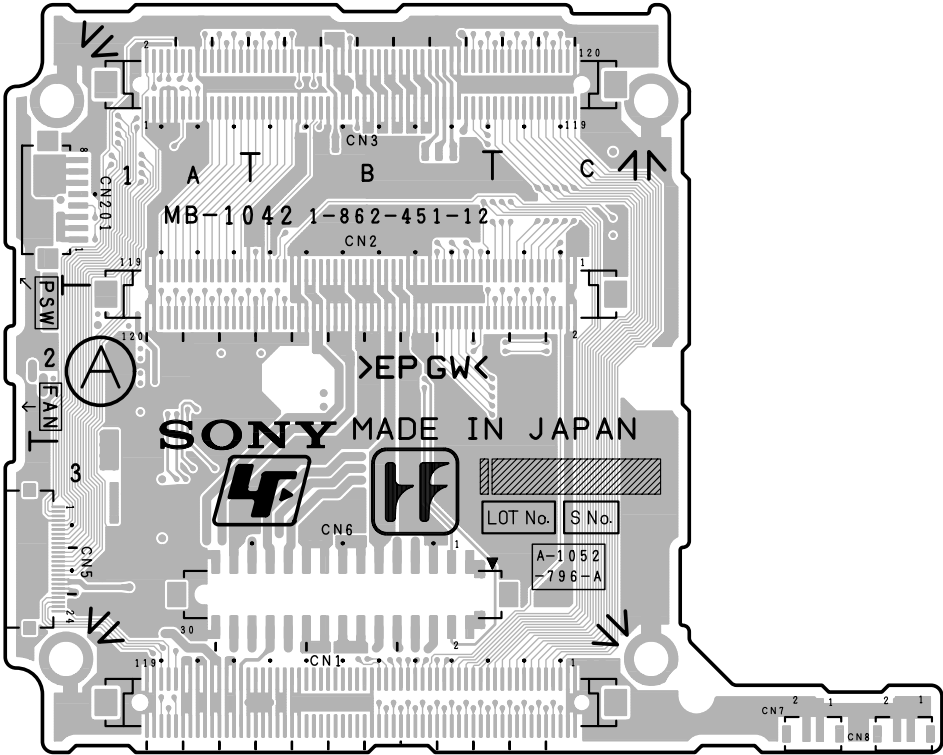
IC1 *C1
IC201 *B3
IC202 *A2
IC203 *A2
IC204 *A2
IC205 *A1
IC206 *A2

L201 *A2

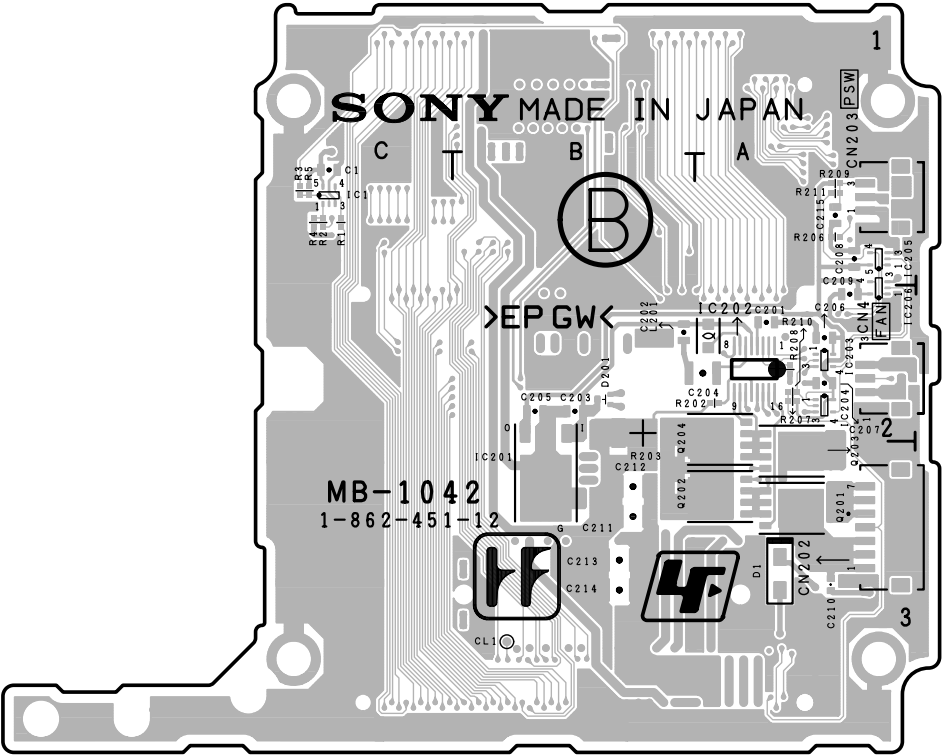
Q201 *A3
Q202 *A3
Q203 *A3
Q204 *A2

R1 *C1
R2 *C1
R3 *C1
R4 *C1
R5 *C1
R202 *A2
R203 *B2
R206 *A1
R207 *A2
R208 *A2
R209 *A1
R210 *A2
R211 *A1

*:B SIDE



MB-1042 -A SIDE-
SUFFIX: -12



MB-1042 -B SIDE-
SUFFIX: -12

OPM-48 (1-866-794-11) (HDC-X310/X310K)

C1	B3	R13	*C3
C2	B3	R14	*C3
C3	A3	R15	*C3
C4	*B3	R16	*C3
C5	*B3	R17	*C2
C6	*B3	R18	*B3
C7	B3	R19	*C2
C8	*B3	R20	*B3
C9	*B2	R21	*A3
C10	*A3	R22	*A3
C11	*B3	R23	*B3
C12	B3	R24	A1
C13	A3	R25	A1
C14	B3	R26	*C1
C15	B3	R27	*C1
C16	A3	R28	*C1
C17	*B2	R29	*C2
C18	*A3	R30	*C2
C19	*B3	R31	*C1
C20	*C3	R32	*C2
C21	*C1		
C22	B3	RB1	A3
C23	*B3	RB2	*B3
C24	B3	RB3	*B3
C25	*B3	RB4	*B3
C26	*A3	RB5	*C3
C27	A3	RB6	*C3
C28	*B1		

*:B SIDE

CL1	B3
CL2	B3
CL3	B1
CL4	A3
CL5	A1
CL6	C1
CL7	C1
CL8	C1
CL9	C1
CL11	B1
CL12	B1
CL13	A1
CL14	B1
CL15	B1
CL16	B1
CL17	B3
CL18	C3
CL19	C3
CL20	C3
CL22	A3
CL23	A3
CL24	A3
CL25	A3
CL26	A3

CN1	B3
CN2	A1
CN3	*A1
CN4	B1
CN5	*C1

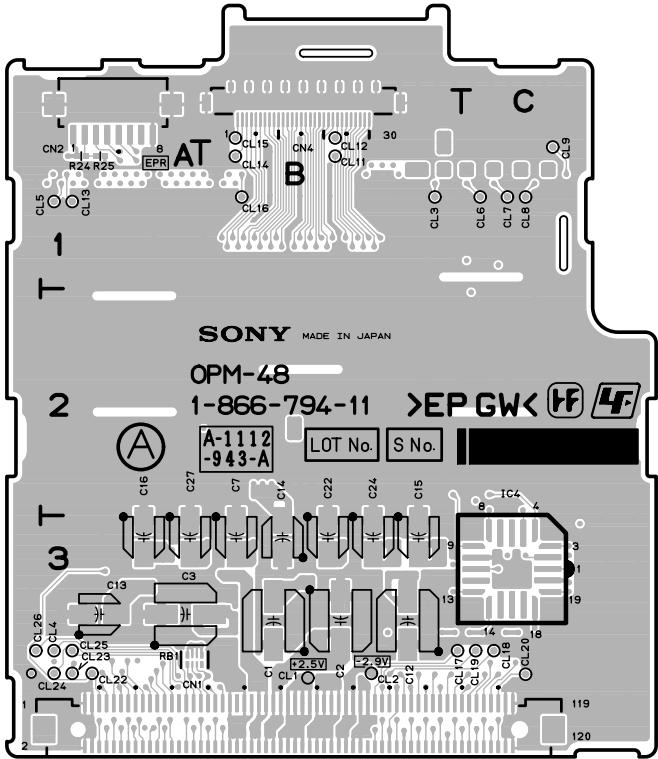
D303	*C1
D304	*B1

IC1	*B3
IC2	*B3
IC3	*B3
IC4	C3
IC5	*C1

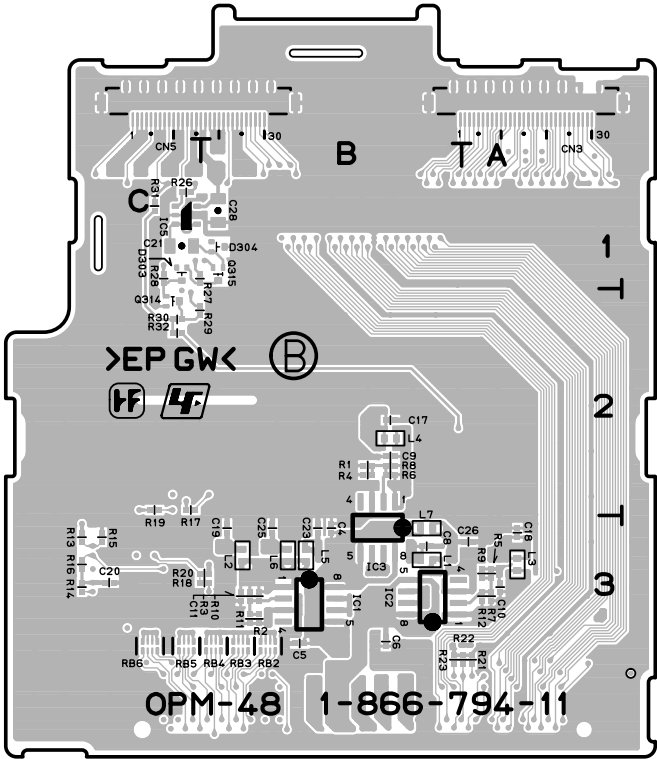
L1	*B3
L2	*B3
L3	*A3
L4	*B2
L5	*B3
L6	*B3
L7	*B3

Q314	*C2
Q315	*B1

R1	*B2
R2	*B3
R3	*B3
R4	*B2
R5	*A3
R6	*B2
R7	*A3
R8	*B2
R9	*A3
R10	*B3
R11	*B3
R12	*A3



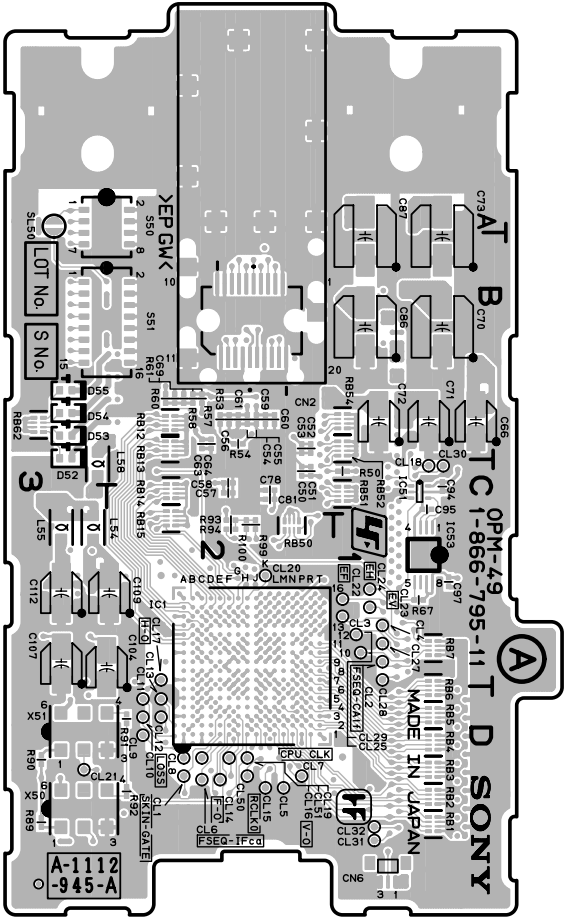
OPM-48 (HDC-X310/X310K) -A SIDE-
SUFFIX: -11



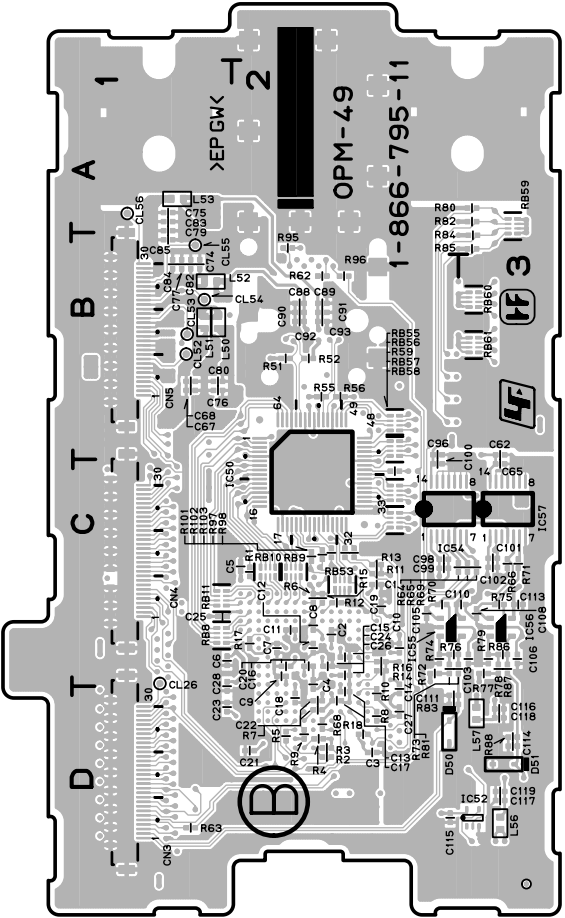
OPM-48 (HDC-X310/X310K) -B SIDE-
SUFFIX: -11

OPM-49 (1-866-795-11) (HDC-X310/X310K)

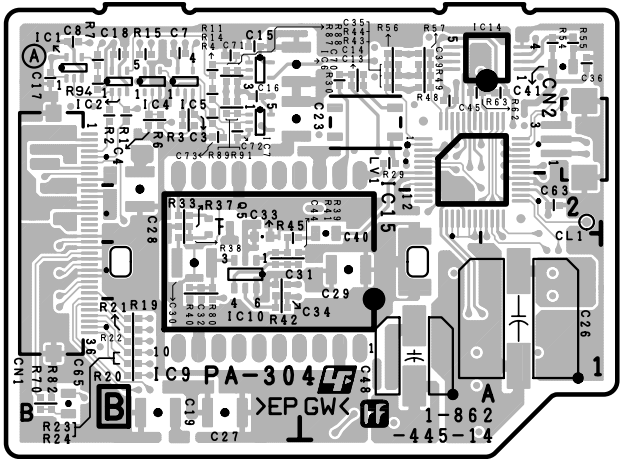
C1	*C2	C114	*D3	R13	*C2	SL50	A3
C2	*C2	C115	*D2	R14	*C2		
C3	*D2	C116	*D3	R15	*C2	X50	D3
C4	*C2	C117	*D3	R16	*C2	X51	D3
C5	*C2	C118	*D3	R17	*C2		
C6	*C1	C119	*D3	R18	*D2		
C7	*C2			R50	C1		
C8	*C2	CL1	D2	R51	*B2		
C9	*C2	CL2	C1	R52	*B2		
C10	*C2	CL3	C1	R53	B2		
C11	*C2	CL4	C1	R54	B2		
C12	*C2	CL5	D2	R55	*B2		
C13	*D2	CL6	D2	R56	*B2		
C14	*D2	CL7	D2	R57	B2		
C15	*C2	CL8	D2	R58	B2		
C16	*C2	CL9	D2	R59	*C2		
C17	*D2	CL10	D2	R60	B2		
C18	*D2	CL11	D2	R61	B2		
C19	*C2	CL12	D2	R62	*B2		
C20	*C2	CL13	D2	R63	*D1		
C21	*D2	CL14	D2	R64	*C3		
C22	*D2	CL15	D2	R65	*C3		
C23	*D1	CL16	D2	R66	*C3		
C24	*C2	CL17	C2	R67	C1		
C25	*C1	CL18	C1	R68	*D2		
C26	*C2	CL19	D2	R69	*C3		
C27	*D2	CL20	C2	R70	*C2		
C28	*D1	CL21	D3	R71	*C3		
C50	C2	CL22	C1	R72	*C2		
C51	C2	CL23	C1	R73	*C2		
C52	B2	CL24	C1	R74	*C2		
C53	B2	CL25	C1	R75	*C3		
C54	B2	CL26	*C1	R76	*C2		
C55	B2	CL27	C1	R77	*C3		
C56	B2	CL28	C1	R78	*C3		
C57	C2	CL29	C1	R79	*C3		
C58	C2	CL30	C1	R80	*A3		
C59	B2	CL31	D1	R81	*C3		
C60	B2	CL32	D1	R82	*A3		
C61	B2	CL50	D2	R83	*D2		
C62	*B3	CL51	D2	R84	*B3		
C63	B2	CL52	*B1	R85	*B3		
C64	B2	CL53	*B1	R86	*C3		
C65	*C3	CL54	*B1	R87	*C3		
C66	B1	CL55	*B1	R88	*D3		
C67	*B1	CL56	*A1	R89	D3		
C68	*B1			R90	D3		
C69	B2	CN2	B2	R91	D2		
C70	B1	CN3	*D1	R92	D2		
C71	B1	CN4	*C1	R93	C2		
C72	B1	CN5	*B1	R94	C2		
C73	B1	CN6	D1	R95	*B2		
C74	*B1			R96	*B2		
C75	*A1	D50	*D2	R97	*C2		
C76	*B1	D51	*D3	R98	*C2		
C77	*B1	D52	B3	R99	C2		
C78	C2	D53	B3	R100	C2		
C79	*A1	D54	B3	R101	*C2		
C80	*B1	D55	B3	R102	*C2		
C81	C2			R103	*C2		
C82	*B1	IC1	C2				
C83	*A1	IC50	*C2	RB1	D1		
C84	*B1	IC51	C1	RB2	D1		
C85	*B1	IC52	*D3	RB3	D1		
C86	B1	IC53	C1	RB4	D1		
C87	B1	IC54	*C2	RB5	D1		
C88	*B2	IC55	*C2	RB6	D1		
C89	*B2	IC56	*C3	RB7	C1		
C90	*B2	IC57	*C3	RB8	*C1		
C91	*B2			RB9	*C2		
C92	*B2	L50	*B1	RB10	*C2		
C93	*B2	L51	*B1	RB11	*C1		
C94	C1	L52	*B1	RB12	B2		
C95	C1	L53	*A1	RB13	B2		
C96	*B2	L54	C3	RB14	C2		
C97	C1	L55	C3	RB15	C2		
C98	*C2	L56	*D3	RB50	C2		
C99	*C2	L57	*D3	RB51	C1		
C100	*C2	L58	C3	RB52	B1		
C101	*C3			RB53	*C2		
C102	*C3	R1	*C2	RB54	B1		
C103	*C3	R2	*D2	RB55	*B2		
C104	C3	R3	*D2	RB56	*B2		
C105	*C2	R4	*D2	RB57	*C2		
C106	*C3	R5	*D2	RB58	*C2		
C107	C3	R6	*C2	RB59	*A3		
C108	*C3	R7	*D2	RB60	*B3		
C109	C2	R8	*D2	RB61	*B3		
C110	*C3	R9	*D2	RB62	B3		
C111	*D2	R10	*D2				
C112	C3	R11	*C2	S50	A3		
C113	*C3	R12	*C2	S51	B3		



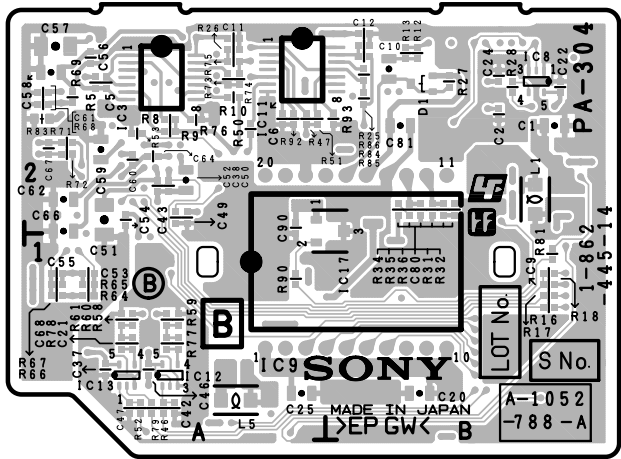
OPM-49 (HDC-X310/X310K) -A SIDE-
SUFFIX: -11



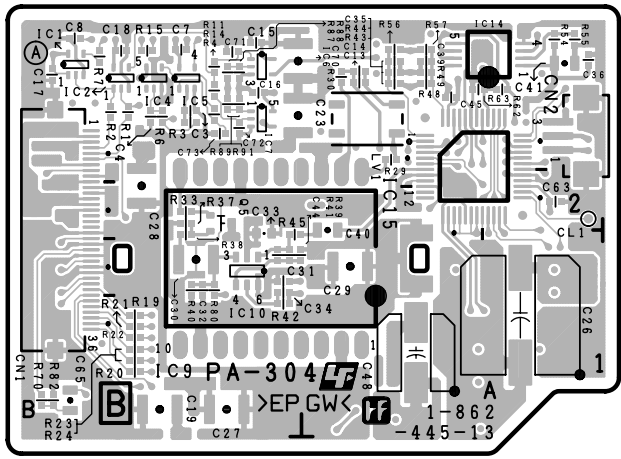
OPM-49 (HDC-X310/X310K) -B SIDE-
SUFFIX: -11



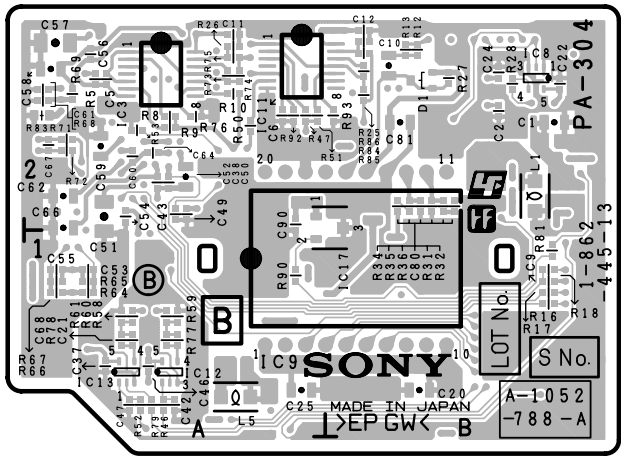
PA-304 -A SIDE-
SUFFIX: -14



PA-304 -B SIDE-
SUFFIX: -14



PA-304 -A SIDE-
SUFFIX: -13



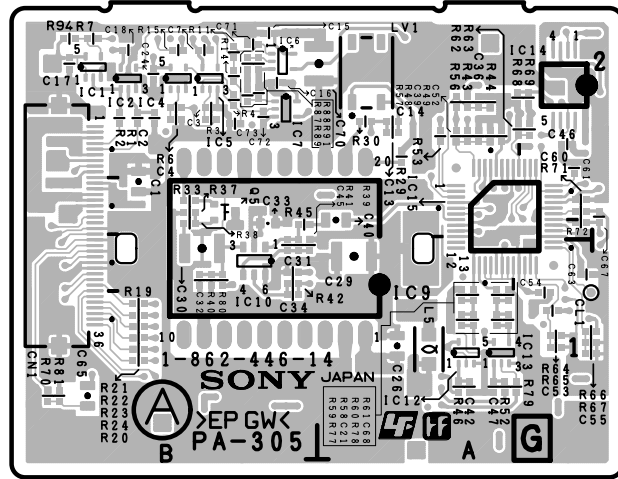
PA-304 -B SIDE-
SUFFIX: -13

PA-304 (1-862-445-14)

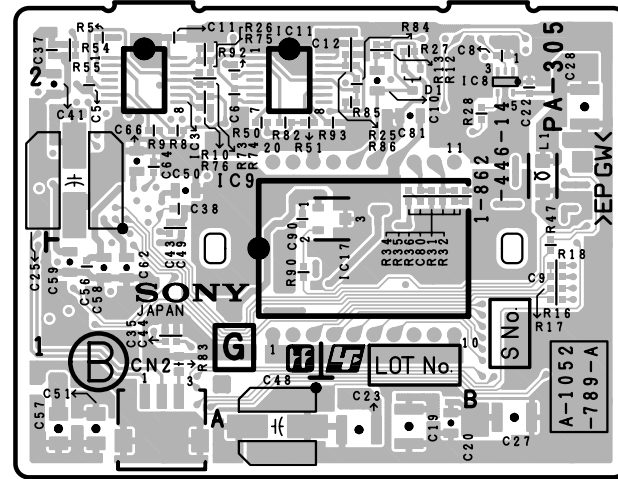
C1	*B2	C32	B1	C63	A2	IC11	*A2	R18	*B1	R49	A2	R80	B1
C2	*B2	C33	B1	C64	*A2	IC12	*A1	R19	B1	R50	*A2	R81	*B1
C3	B2	C34	B1	C65	B1	IC13	*A1	R20	B1	R51	*A2	R82	B1
C4	B2	C35	A2	C66	*A2	IC14	A2	R21	B1	R52	*A1	R83	*A2
C5	*A2	C36	A2	C67	*A2	IC15	A2	R22	B1	R53	*A2	R84	*B2
C6	*A2	C37	*A1	C68	*A1	IC17	*B2	R23	B1	R54	A2	R85	*B2
C7	B2	C38	*A2	C70	B2			R24	B1	R55	A2	R86	*B2
C8	B2	C39	A2	C71	B2	L1	*B2	R25	*B2	R56	A2	R87	B2
C9	*B1	C40	A1	C72	B2	L5	*A1	R26	*A2	R57	A2	R88	B2
C10	*B2	C41	A2	C73	B2			R27	*B2	R58	*A1	R89	B2
C11	*A2	C42	*A1	C80	*B2	LV1	A2	R28	*B2	R59	*A1	R90	*A1
C12	*B2	C43	*A2	C81	*B2			R29	A2	R60	*A1	R91	B2
C13	A2	C44	B1	C90	*A2	Q5	B2	R30	A2	R61	*A1	R92	*A2
C14	A2	C45	A2					R31	*B2	R62	A2	R93	*B2
C15	B2	C46	*A1	CL1	A2	R1	B2	R32	*B2	R63	A2	R94	B2
C16	B2	C47	*A1			R2	B2	R33	B2	R64	*A1	*:B SIDE	
C17	B2	C48	A1	CN1	B1	R3	B2	R34	*B2	R65	*A1		
C18	B2	C49	*A2	CN2	A2	R4	B2	R35	*B2	R66	*A1		
C19	B1	C50	*A2			R5	*A2	R36	*B2	R67	*A1		
C20	*B1	C51	*A2	D1	*B2	R6	B2	R37	B2	R68	*A2		
C21	*A1	C52	*A2			R7	B2	R38	B1	R69	*A2		
C22	*B2	C53	*A1	IC1	B2	R8	*A2	R39	B1	R70	B1		
C23	B2	C54	*A2	IC2	B2	R9	*A2	R40	B1	R71	*A2		
C24	*B2	C55	*A1	IC3	*A2	R10	*A2	R41	B1	R72	*A2		
C25	*A1	C56	*A2	IC4	B2	R11	B2	R42	B1	R73	*A2		
C26	A1	C57	*A2	IC5	B2	R12	*B2	R43	A2	R74	*A2		
C27	B1	C58	*A2	IC6	B2	R13	*B2	R44	A2	R75	*A2		
C28	B2	C59	*A2	IC7	B2	R14	B2	R45	B1	R76	*A2		
C29	A1	C60	*A2	IC8	*B2	R15	B2	R46	*A1	R77	*A1		
C30	B1	C61	*A2	IC9	*A1	R16	*B1	R47	*A2	R78	*A1		
C31	B1	C62	*A2	IC10	B1	R17	*B1	R48	A2	R79	*A1		

PA-304 (1-862-445-13)

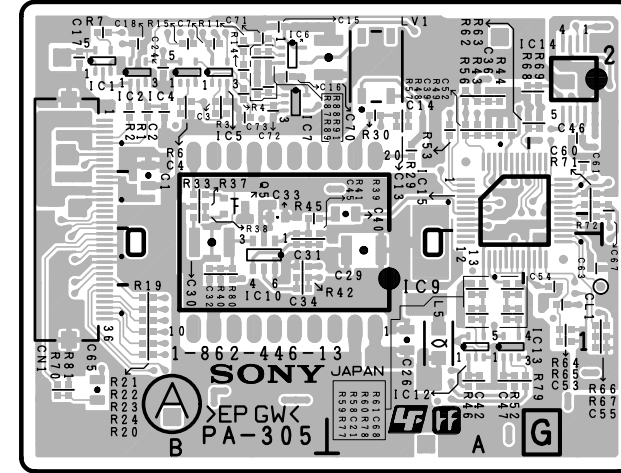
C1	*B2	C32	B1	C63	A2	IC11	*A2	R18	*B1	R49	A2	R80	B1
C2	*B2	C33	B1	C64	*A2	IC12	*A1	R19	B1	R50	*A2	R81	*B1
C3	B2	C34	B1	C65	B1	IC13	*A1	R20	B1	R51	*A2	R82	B1
C4	B2	C35	A2	C66	*A2	IC14	A2	R21	B1	R52	*A1	R83	*A2
C5	*A2	C36	A2	C67	*A2	IC15	A2	R22	B1	R53	*A2	R84	*B2
C6	*A2	C37	*A1	C68	*A1	IC17	*B2	R23	B1	R54	A2	R85	*B2
C7	B2	C38	*A2	C70	B2			R24	B1	R55	A2	R86	*B2
C8	B2	C39	A2	C71	B2	L1	*B2	R25	*B2	R56	A2	R87	B2
C9	*B1	C40	A1	C72	B2	L5	*A1	R26	*A2	R57	A2	R88	B2
C10	*B2	C41	A2	C73	B2			R27	*B2	R58	*A1	R89	B2
C11	*A2	C42	*A1	C80	*B2	LV1	A2	R28	*B2	R59	*A1	R90	*A1
C12	*B2	C43	*A2	C81	*B2			R29	A2	R60	*A1	R91	B2
C13	A2	C44	B1	C90	*A2	Q5	B2	R30	A2	R61	*A1	R92	*A2
C14	A2	C45	A2					R31	*B2	R62	A2	R93	*B2
C15	B2	C46	*A1	CL1	A2	R1	B2	R32	*B2	R63	A2	*:B SIDE	
C16	B2	C47	*A1			R2	B2	R33	B2	R64	*A1		
C17	B2	C48	A1	CN1	B1	R3	B2	R34	*B2	R65	*A1		
C18	B2	C49	*A2	CN2	A2	R4	B2	R35	*B2	R66	*A1		
C19	B1	C50	*A2			R5	*A2	R36	*B2	R67	*A1		
C20	*B1	C51	*A2	D1	*B2	R6	B2	R37	B2	R68	*A2		
C21	*A1	C52	*A2			R7	B2	R38	B1	R69	*A2		
C22	*B2	C53	*A1	IC1	B2	R8	*A2	R39	B1	R70	B1		
C23	B2	C54	*A2	IC2	B2	R9	*A2	R40	B1	R71	*A2		
C24	*B2	C55	*A1	IC3	*A2	R10	*A2	R41	B1	R72	*A2		
C25	*A1	C56	*A2	IC4	B2	R11	B2	R42	B1	R73	*A2		
C26	A1	C57	*A2	IC5	B2	R12	*B2	R43	A2	R74	*A2		
C27	B1	C58	*A2	IC6	B2	R13	*B2	R44	A2	R75	*A2		
C28	B2	C59	*A2	IC7	B2	R14	B2	R45	B1	R76	*A2		
C29	A1	C60	*A2	IC8	*B2	R15	B2	R46	*A1	R77	*A1		
C30	B1	C61	*A2	IC9	*A1	R16	*B1	R47	*A2	R78	*A1		
C31	B1	C62	*A2	IC10	B1	R17	*B1	R48	A2	R79	*A1		



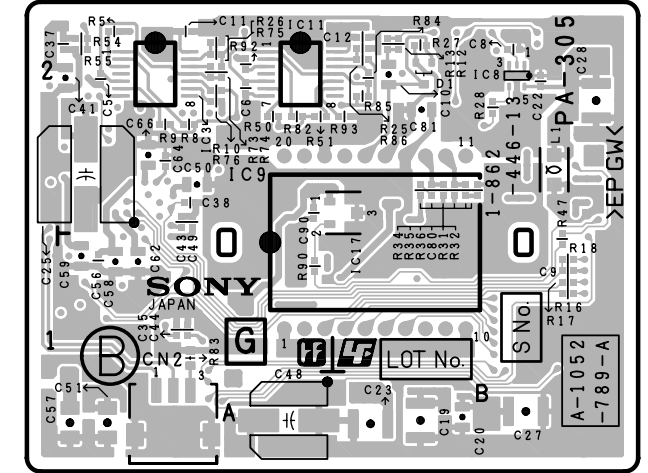
PA-305 -A SIDE-SUFFIX: -14



PA-305 -B SIDE-
SUFFIX: -14



PA-305 -A SIDE-SUFFIX: -13



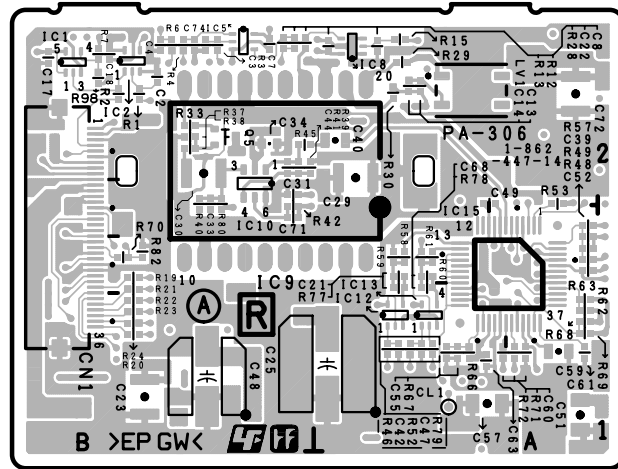
PA-305 -B SIDE-
SUFFIX: -13

PA-305 (1-862-446-14)

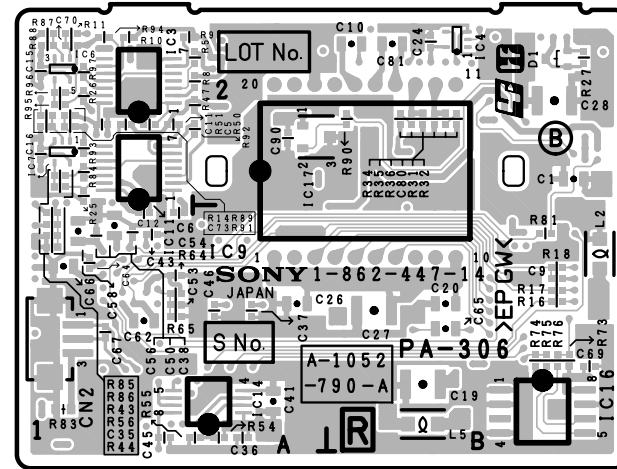
C1	B2	C32	B1	C63	A1	IC11	*A2	R18	*B1	R49	A2	R80	B
C2	B2	C33	B2	C64	*A2	IC12	A1	R19	B1	R50	*A2	R81	B
C3	B2	C34	B1	C65	B1	IC13	A1	R20	B1	R51	*A2	R82	*A
C4	B2	C35	*A1	C66	*A2	IC14	A2	R21	B1	R52	A1	R83	*A
C5	*A2	C36	A2	C67	A2	IC15	A2	R22	B1	R53	A2	R84	*B
C6	*A2	C37	*A2	C68	A1	IC17	*B2	R23	B1	R54	*A2	R85	*B
C7	B2	C38	*A2	C70	A2			R24	B1	R55	*A2	R86	*B
C8	*B2	C39	A2	C71	B2	L1	*B2	R25	*B2	R56	A2	R87	B
C9	*B1	C40	A2	C72	B2	L5	A1	R26	*A2	R57	A2	R88	B
C10	*B2	C41	*A2	C73	B2			R27	*B2	R58	A1	R89	B
C11	*A2	C42	A1	C80	*B2	LV1	A2	R28	*B2	R59	A1	R90	*A
C12	*B2	C43	*A2	C81	*B2			R29	A2	R60	A1	R91	B
C13	A2	C44	*A1	C90	*A2	Q5	B2	R30	A2	R61	A1	R92	*A
C14	A2	C45	B1					R31	*B2	R62	A2	R93	*B
C15	B2	C46	A2	CL1	A1	R1	B2	R32	*B2	R63	A2	R94	B
C16	B2	C47	A1			R2	B2	R33	B2	R64	A1		
C17	B2	C48	*A1	CN1	B2	R3	B2	R34	*B2	R65	A1	*:B	SIDE
C18	B2	C49	*A2	CN2	*A1	R4	B2	R35	*B2	R66	A1		
C19	*B1	C50	*A2			R5	*A2	R36	*B2	R67	A1		
C20	*B1	C51	*A1	D1	*B2	R6	B2	R37	B2	R68	A2		
C21	A1	C52	A2			R7	B2	R38	B2	R69	A2		
C22	*B2	C53	A1	IC1	B2	R8	*A2	R39	B1	R70	B1		
C23	*B1	C54	A1	IC2	B2	R9	*A2	R40	B1	R71	A2		
C24	B2	C55	A1	IC3	*A2	R10	*A2	R41	B1	R72	A2		
C25	*A2	C56	*A1	IC4	B2	R11	B2	R42	B1	R73	*A2		
C26	A1	C57	*A1	IC5	B2	R12	*B2	R43	A2	R74	*A2		
C27	*B1	C58	*A1	IC6	B2	R13	*B2	R44	A2	R75	*A2		
C28	*B2	C59	*A1	IC7	B2	R14	B2	R45	B2	R76	*A2		
C29	A1	C60	A2	IC8	*B2	R15	B2	R46	A1	R77	A1		
C30	B1	C61	A2	IC9	*A1	R16	*B1	R47	*B1	R78	A1		
C31	B1	C62	*A1	IC10	B1	R17	*B1	R48	A2	R79	A1		

PA-305 (1-862-446-13)

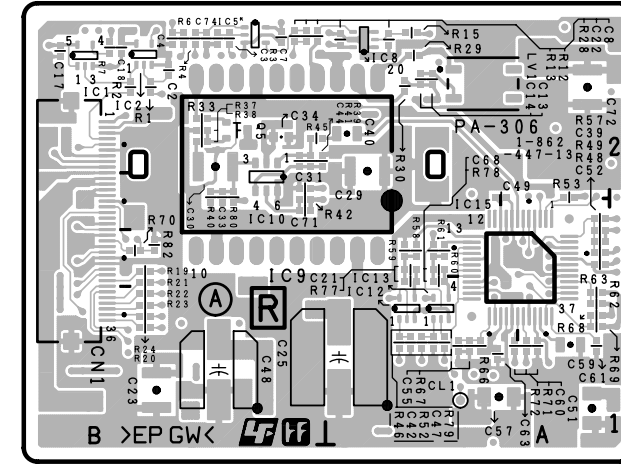
C1	B2	C32	B1	C63	A1	IC11	*A2	R18	*B1	R49	A2	R80	B
C2	B2	C33	B2	C64	*A2	IC12	A1	R19	B1	R50	*A2	R81	B
C3	B2	C34	B1	C65	B1	IC13	A1	R20	B1	R51	*A2	R82	*A
C4	B2	C35	*A1	C66	*A2	IC14	A2	R21	B1	R52	A1	R83	*A
C5	*A2	C36	A2	C67	A2	IC15	A2	R22	B1	R53	A2	R84	*B
C6	*A2	C37	*A2	C68	A1	IC17	*B2	R23	B1	R54	*A2	R85	*B
C7	B2	C38	*A2	C70	A2			R24	B1	R55	*A2	R86	*B
C8	*B2	C39	A2	C71	B2	L1	*B2	R25	*B2	R56	A2	R87	B
C9	*B1	C40	A2	C72	B2	L5	A1	R26	*A2	R57	A2	R88	B
C10	*B2	C41	*A2	C73	B2			R27	*B2	R58	A1	R89	B
C11	*A2	C42	A1	C80	*B2	LV1	A2	R28	*B2	R59	A1	R90	*A
C12	*B2	C43	*A2	C81	*B2			R29	A2	R60	A1	R91	B
C13	A2	C44	*A1	C90	*A2	Q5	B2	R30	A2	R61	A1	R92	*A
C14	A2	C45	B1					R31	*B2	R62	A2	R93	*B
C15	B2	C46	A2	CL1	A1	R1	B2	R32	*B2	R63	A2		
C16	B2	C47	A1			R2	B2	R33	B2	R64	A1		*:B SIDE
C17	B2	C48	*A1	CN1	B2	R3	B2	R34	*B2	R65	A1		
C18	B2	C49	*A2	CN2	*A1	R4	B2	R35	*B2	R66	A1		
C19	*B1	C50	*A2			R5	*A2	R36	*B2	R67	A1		
C20	*B1	C51	*A1	D1	*B2	R6	B2	R37	B2	R68	A2		
C21	A1	C52	A2			R7	B2	R38	B2	R69	A2		
C22	*B2	C53	A1	IC1	B2	R8	*A2	R39	B1	R70	B1		
C23	*B1	C54	A1	IC2	B2	R9	*A2	R40	B1	R71	A2		
C24	B2	C55	A1	IC3	*A2	R10	*A2	R41	B1	R72	A2		
C25	*A2	C56	*A1	IC4	B2	R11	B2	R42	B1	R73	*A2		
C26	A1	C57	*A1	IC5	B2	R12	*B2	R43	A2	R74	*A2		
C27	*B1	C58	*A1	IC6	B2	R13	*B2	R44	A2	R75	*A2		
C28	*B2	C59	*A1	IC7	B2	R14	B2	R45	B2	R76	*A2		
C29	A1	C60	A2	IC8	*B2	R15	B2	R46	A1	R77	A1		
C30	B1	C61	A2	IC9	*A1	R16	*B1	R47	*B1	R78	A1		
C31	B1	C62	*A1	IC10	B1	R17	*B1	R48	A2	R79	A1		



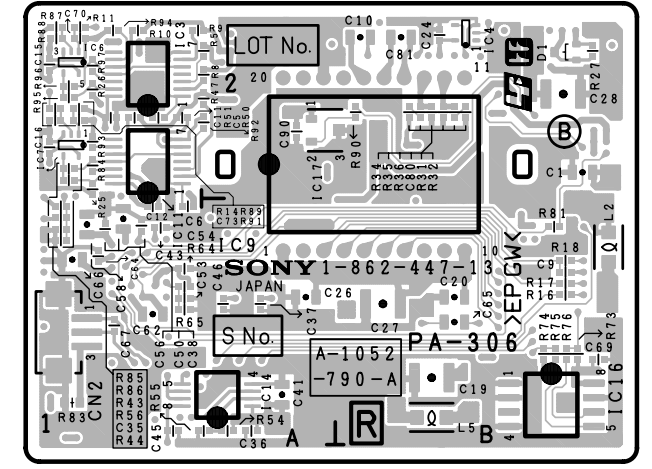
PA-306 -A SIDE-SUFFIX: -14



PA-306 -B SIDE-
SUFFIX: -14



PA-306 -A SIDE-SUFFIX: -13



PA-306 -B SIDE-
SUFFIX: -13

PA-306 (1-862-447-14)

C1	*B2	C33	B2	C64	*A1	IC10	B2	R16	*B1	R47	*A2	R78	A
C2	B2	C34	B2	C65	*B1	IC11	*A2	R17	*B1	R48	A1	R79	A
C3	B2	C35	*A1	C66	*A1	IC12	A1	R18	*B1	R49	A1	R80	A
C4	B2	C36	*A1	C67	*A1	IC13	A1	R19	B1	R50	*A2	R81	*
C5	*A2	C37	*A1	C68	A1	IC14	*A1	R20	B1	R51	*A2	R82	B
C6	*A1	C38	*A1	C69	*B1	IC15	A1	R21	B1	R52	A1	R83	*
C7	B2	C39	A1	C70	*A2	IC16	*B1	R22	B1	R53	A2	R84	*
C8	A2	C40	A2	C71	B1	IC17	*A2	R23	B1	R54	*A1	R85	*A
C9	*B1	C41	*A1	C72	A2			R24	B1	R55	*A1	R86	*A
C10	*B2	C42	A1	C73	*A2	L2	*B1	R25	*A2	R56	*A1	R87	*
C11	*A2	C43	*A1	C74	B2	L5	*B1	R26	*A2	R57	A1	R88	*
C12	*A1	C44	B2	C80	*B2			R27	*B2	R58	A1	R89	*
C13	A2	C45	*A1	C81	*B2	LV1	A2	R28	B2	R59	A1	R90	*
C14	A2	C46	*A1	C90	*A2			R29	A2	R60	A1	R91	*
C15	*A2	C47	A1			Q5	B2	R30	A2	R61	A1	R92	*A
C16	*A2	C48	B1	CL1	A1			R31	*B2	R62	A1	R93	*
C17	B2	C49	A2			R1	B2	R32	*B2	R63	A1	R94	*
C18	B2	C50	*A1	CN1	B1	R2	B2	R33	B2	R64	*A1	R95	*
C19	*B1	C51	A1	CN2	*A1	R3	B2	R34	*B2	R65	*A1	R96	*
C20	*B1	C52	A1			R4	B2	R35	*B2	R66	A1	R97	*
C21	A1	C53	*A1	D1	*B2	R5	*A2	R36	*B2	R67	A1	R98	B
C22	A2	C54	*A1			R6	B2	R37	B2	R68	A1		
C23	B1	C55	A1	IC1	B2	R7	B2	R38	B2	R69	A1	*:B	SIDE
C24	*B2	C56	*A1	IC2	B2	R8	*A2	R39	B2	R70	B1		
C25	A1	C57	A1	IC3	*A2	R9	*A2	R40	B2	R71	A1		
C26	*A1	C58	*A1	IC4	*B2	R10	*A2	R41	B2	R72	A1		
C27	*B1	C59	A1	IC5	B2	R11	*A2	R42	B1	R73	*B1		
C28	*B2	C60	A1	IC6	*A2	R12	B2	R43	*A1	R74	*B1		
C29	A2	C61	A1	IC7	*A2	R13	B2	R44	*A1	R75	*B1		
C30	B2	C62	*A1	IC8	A2	R14	*A2	R45	B2	R76	*B1		
C31	B2	C63	A1	IC9	*A1	R15	A2	R46	A1	R77	A1		

*:B SIDE

PA-306 (1-862-447-13)

C1	*B2	C33	B2	C64	*A1	IC10	B2	R16	*B1	R47	*A2	R78	A1
C2	B2	C34	B2	C65	*B1	IC11	*A2	R17	*B1	R48	A1	R79	A1
C3	B2	C35	*A1	C66	*A1	IC12	A1	R18	*B1	R49	A1	R80	B2
C4	B2	C36	*A1	C67	*A1	IC13	A1	R19	B1	R50	*A2	R81	*B1
C5	*A2	C37	*A1	C68	A1	IC14	*A1	R20	B1	R51	*A2	R82	B1
C6	*A1	C38	*A1	C69	*B1	IC15	A1	R21	B1	R52	A1	R83	*A1
C7	B2	C39	A1	C70	*A2	IC16	*B1	R22	B1	R53	A2	R84	*A2
C8	A2	C40	A2	C71	B1	IC17	*A2	R23	B1	R54	*A1	R85	*A2
C9	*B1	C41	*A1	C72	A2			R24	B1	R55	*A1	R86	*A2
C10	*B2	C42	A1	C73	*A2	L2	*B1	R25	*A2	R56	*A1	R87	*A2
C11	*A2	C43	*A1	C74	B2	L5	*B1	R26	*A2	R57	A1	R88	*A2
C12	*A1	C44	B2	C80	*B2			R27	*B2	R58	A1	R89	*A2
C13	A2	C45	*A1	C81	*B2	LV1	A2	R28	B2	R59	A1	R90	*B2
C14	A2	C46	*A1	C90	*A2			R29	A2	R60	A1	R91	*A2
C15	*A2	C47	A1			Q5	B2	R30	A2	R61	A1	R92	*A2
C16	*A2	C48	B1	CL1	A1			R31	*B2	R62	A1	R93	*A2
C17	B2	C49	A2			R1	B2	R32	*B2	R63	A1	R94	*A2
C18	B2	C50	*A1	CN1	B1	R2	B2	R33	B2	R64	*A1	R95	*A2
C19	*B1	C51	A1	CN2	*A1	R3	B2	R34	*B2	R65	*A1	R96	*A2
C20	*B1	C52	A1			R4	B2	R35	*B2	R66	A1	R97	*A2
C21	A1	C53	*A1	D1	*B2	R5	*A2	R36	*B2	R67	A1		
C22	A2	C54	*A1			R6	B2	R37	B2	R68	A1	*:B	SIDE
C23	B1	C55	A1	IC1	B2	R7	B2	R38	B2	R69	A1		
C24	*B2	C56	*A1	IC2	B2	R8	*A2	R39	B2	R70	B1		
C25	A1	C57	A1	IC3	*A2	R9	*A2	R40	B2	R71	A1		
C26	*A1	C58	*A1	IC4	*B2	R10	*A2	R41	B2	R72	A1		
C27	*B1	C59	A1	IC5	B2	R11	*A2	R42	B1	R73	*B1		
C28	*B2	C60	A1	IC6	*A2	R12	B2	R43	*A1	R74	*B1		
C29	A2	C61	A1	IC7	*A2	R13	B2	R44	*A1	R75	*B1		
C30	B2	C62	*A1	IC8	A2	R14	*A2	R45	B2	R76	*B1		
C31	B2	C63	A1	IC9	*A1	R15	A2	R46	A1	R77	A1		

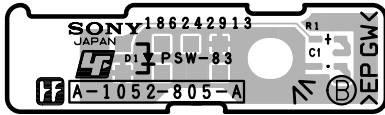
*:B SIDE

PSW-83 (1-862-429-13)

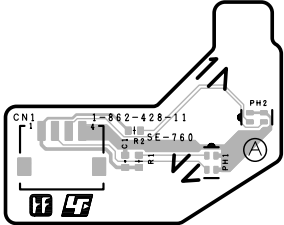
C1 *A1
CN1 A1
D1 A1
R1 *A1
S1 A1
*:B SIDE



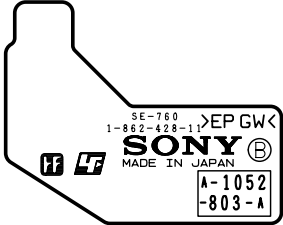
PSW-83 -A SIDE-
SUFFIX: -13



PSW-83 -B SIDE-
SUFFIX: -13



SE-760 -A SIDE-
SUFFIX: -11



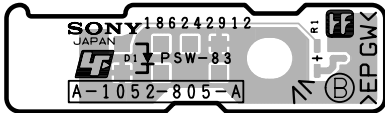
SE-760 -B SIDE-
SUFFIX: -11

PSW-83 (1-862-429-12)

CN1 A1
D1 A1
R1 *A1
S1 A1
*:B SIDE



PSW-83 -A SIDE-
SUFFIX: -12

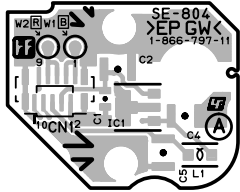


PSW-83 -B SIDE-
SUFFIX: -12

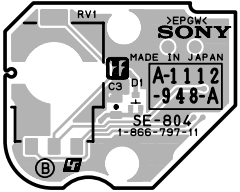
SE-804 (1-866-797-11) (HKC-SV1)

C1 A1 W1 A1
C2 A1 W2 A1
C3 *A1
C4 A1 *:B SIDE
C5 A1

CN1 A1
D1 *A1
IC1 A1
L1 A1
RV1 *A1



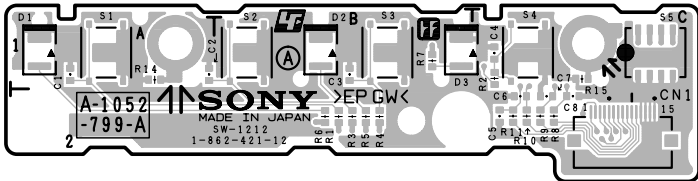
SE-804 (HKC-SV1) -A SIDE-
SUFFIX: -11



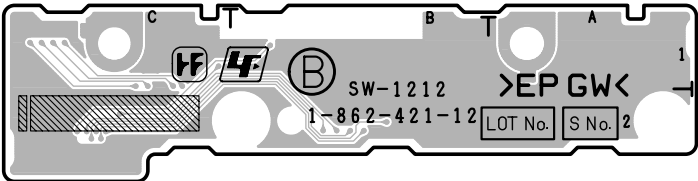
SE-804 (HKC-SV1) -B SIDE-
SUFFIX: -11

SW-1212 (1-862-421-12)

C1 A1 R3 B2
C2 A1 R4 B2
C3 B1 R5 B2
C4 C1 R6 B2
C5 C2 R7 B1
C6 C2 R8 C2
C7 C2 R9 C2
C8 C2 R10 C2
CN1 C2 R11 C2
D1 A1 R14 A1
D2 B1 S1 A1
D3 B1 S2 B1
R1 B2 S3 B1
R2 C1 S4 C1
S5 C1



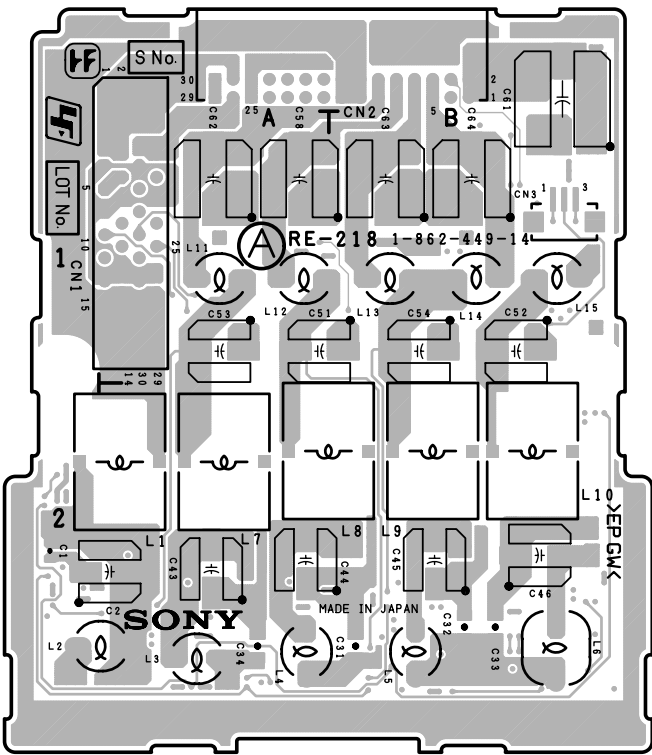
SW-1212 -A SIDE-
SUFFIX: -12



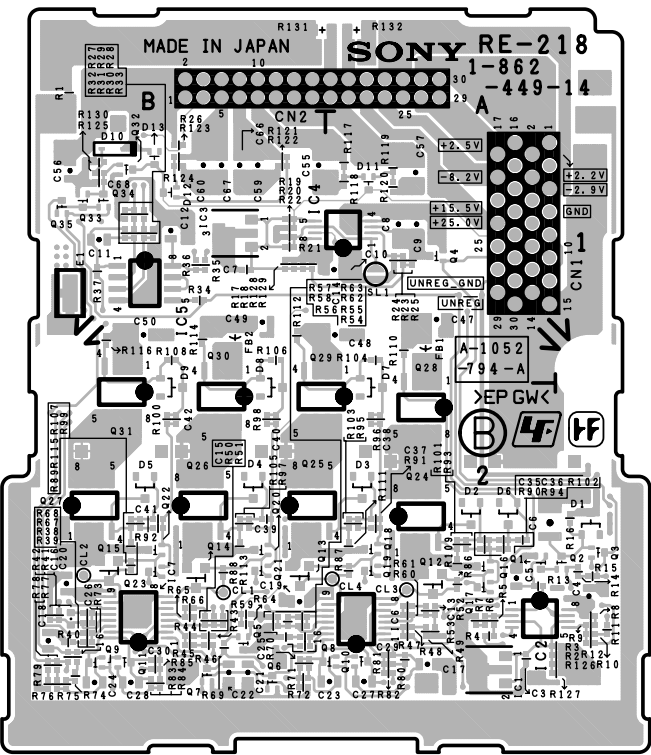
SW-1212 -B SIDE-
SUFFIX: -12

RE-218 (1-862-449-14)

C1	A2	C45	B2	D12	*B1	Q13	*B2
C2	A2	C46	B2	D13	*B1	Q14	*B2
C3	*A2	C47	*A1			Q15	*B2
C4	*A2	C48	*A1	E1	*B1	Q16	*A2
C5	*A2	C49	*B1			Q17	*A2
C6	*A2	C50	*B1	FB1	*A1	Q18	*A2
C7	*B1	C51	A1	FB2	*B1	Q19	*A2
C8	*A1	C52	B1			Q20	*B2
C9	*A1	C53	A1	IC1	*A2	Q21	*B2
C10	*A1	C54	B1	IC2	*A2	Q22	*B2
C11	*B1	C55	*B1	IC3	*B1	Q23	*B2
C12	*B1	C56	*B1	IC4	*A1	Q24	*B2
C13	*A2	C57	*A1	IC5	*B1	Q25	*B2
C14	*B2	C58	A1	IC6	*A2	Q26	*B2
C15	*B2	C59	*B1	IC7	*B2	Q27	*B2
C16	*B2	C60	*B1			Q28	*A2
C17	*A2	C61	B1	L1	A2	Q29	*B2
C18	*B2	C62	A1	L2	A2	Q30	*B2
C19	*B2	C63	B1	L3	A2	Q31	*B2
C20	*B2	C64	B1	L4	A2	Q32	*B1
C21	*B2	C66	*B1	L5	B2	Q33	*B1
C22	*B2	C67	*B1	L6	B2	Q34	*B1
C23	*A2	C68	*B1	L7	A2	Q35	*B1
C24	*B2			L8	A2		
C25	*B2	CL1	*B2	L9	B2	R1	*B1
C26	*B2	CL2	*B2	L10	B2	R2	*A2
C27	*A2	CL3	*A2	L11	A1	R3	*A2
C28	*B2	CL4	*A2	L12	A1	R4	*A2
C29	*A2			L13	B1	R5	*A2
C30	*B2	CN1	A1	L14	B1	R6	*A2
C31	B2	CN2	B1	L15	B1	R7	*A2
C32	B2	CN3	B1			R8	*A2
C33	B2			Q1	*A2	R9	*A2
C34	A2	D1	*A2	Q2	*A2	R10	*A2
C35	*A2	D2	*A2	Q3	*A1	R11	*A2
C36	*A2	D3	*A2	Q4	*A1	R12	*A2
C37	*A2	D4	*B2	Q5	*B2	R13	*A2
C38	*A2	D5	*B2	Q6	*B2	R14	*A2
C39	*B2	D6	*A2	Q7	*B2	R15	*A2
C40	*B2	D7	*A2	Q8	*A2	R16	*A2
C41	*B2	D8	*B2	Q9	*B2	R17	*B1
C42	*B2	D9	*B2	Q10	*A2	R18	*B1
C43	A2	D10	*B1	Q11	*B2	R19	*B1
C44	A2	D11	*A1	Q12	*A2	R20	*B1



RE-218 -A SIDE-
SUFFIX: -14



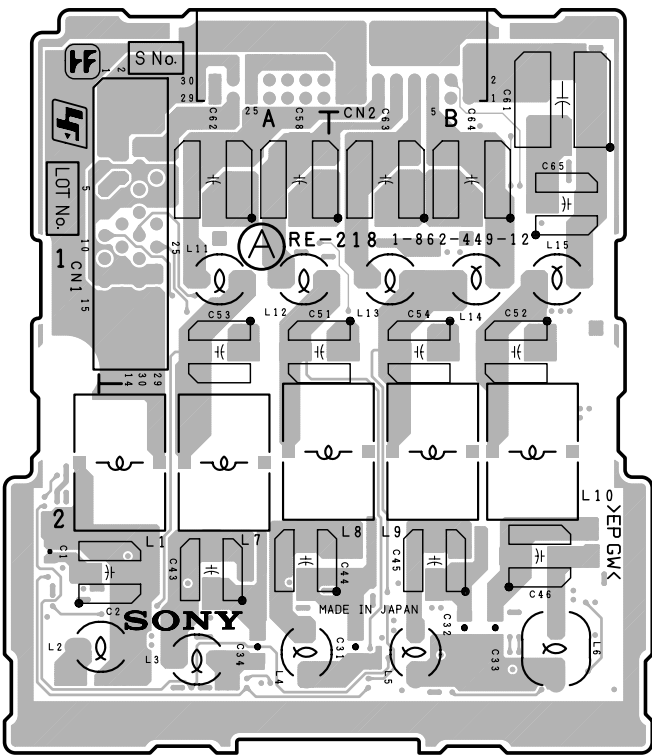
RE-218 -B SIDE-
SUFFIX: -14

R21	*B1	R65	*B2	R109	*A2
R22	*B1	R66	*B2	R110	*A1
R23	*A1	R67	*B2	R111	*A2
R24	*A1	R68	*B2	R112	*B1
R25	*A1	R69	*B2	R113	*B2
R26	*B1	R70	*B2	R114	*B1
R27	*B1	R71	*B2	R115	*B2
R28	*B1	R72	*B2	R116	*B1
R29	*B1	R73	*B2	R117	*A1
R30	*B1	R74	*B2	R118	*A1
R31	*B1	R75	*B2	R119	*A1
R32	*B1	R76	*B2	R120	*A1
R33	*B1	R77	*B2	R121	*B1
R34	*B1	R78	*B2	R122	*B1
R35	*B1	R79	*B2	R123	*B1
R36	*B1	R80	*A2	R124	*B1
R37	*B1	R81	*A2	R125	*B1
R38	*B2	R82	*A2	R126	*A2
R39	*B2	R83	*B2	R127	*A2
R40	*B2	R84	*B2	R128	*B1
R41	*B2	R85	*B2	R129	*B1
R42	*B2	R86	*A2	R130	*B1
R43	*B2	R87	*A2	R131	*B1
R44	*B2	R88	*B2	R132	*A1
R45	*B2	R89	*B2		
R46	*B2	R90	*A2	SL1	*A1
R47	*A2	R91	*A2		
R48	*A2	R92	*B2		
R49	*A2	R93	*A2		
R50	*B2	R94	*A2		
R51	*B2	R95	*A2		
R52	*A2	R96	*A2		
R53	*A2	R97	*B2		
R54	*B2	R98	*B2		
R55	*B2	R99	*B2		
R56	*B2	R100	*B2		
R57	*B2	R101	*A2		
R58	*B2	R102	*A2		
R59	*B2	R103	*A2		
R60	*A2	R104	*A1		
R61	*A2	R105	*B2		
R62	*B2	R106	*B1		
R63	*B2	R107	*B2		
R64	*B2	R108	*B1		

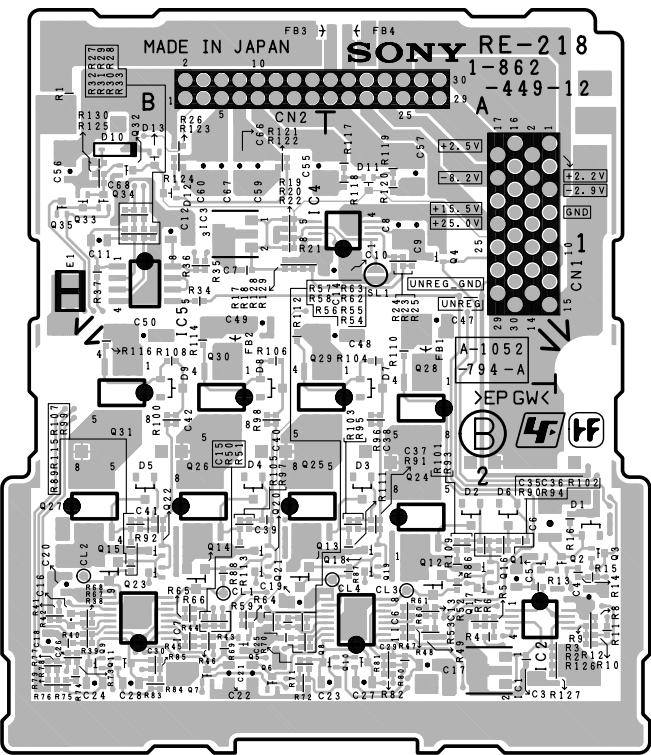
:B SIDE

RE-218 (1-862-449-12)

C1	A2	C45	B2	D12	*B1	Q11	*B2
C2	A2	C46	B2	D13	*B1	Q12	*A2
C3	*A2	C47	*A1			Q13	*B2
C4	*A2	C48	*A1	E1	*B1	Q14	*B2
C5	*A2	C49	*B1			Q15	*B2
C6	*A2	C50	*B1	FB1	*A1	Q16	*A2
C7	*B1	C51	A1	FB2	*B1	Q17	*A2
C8	*A1	C52	B1	FB3	*B1	Q18	*A2
C9	*A1	C53	A1	FB4	*A1	Q19	*A2
C10	*A1	C54	B1			Q20	*B2
C11	*B1	C55	*B1	IC1	*A2	Q21	*B2
C12	*B1	C56	*B1	IC2	*A2	Q22	*B2
C13	*A2	C57	*A1	IC3	*B1	Q23	*B2
C14	*B2	C58	A1	IC4	*A1	Q24	*A2
C15	*B2	C59	*B1	IC5	*B1	Q25	*B2
C16	*B2	C60	*B1	IC6	*A2	Q26	*B2
C17	*A2	C61	B1	IC7	*B2	Q27	*B2
C18	*B2	C62	A1			Q28	*A2
C19	*B2	C63	B1	L1	A2	Q29	*B2
C20	*B2	C64	B1	L2	A2	Q30	*B2
C21	*B2	C65	B1	L3	A2	Q31	*B2
C22	*B2	C66	*B1	L4	A2	Q32	*B1
C23	*A2	C67	*B1	L5	B2	Q33	*B1
C24	*B2	C68	*B1	L6	B2	Q34	*B1
C25	*B2			L7	A2	Q35	*B1
C26	*B2	CL1	*B2	L8	A2		
C27	*A2	CL2	*B2	L9	B2	R1	*B1
C28	*B2	CL3	*A2	L10	B2	R2	*A2
C29	*A2	CL4	*A2	L11	A1	R3	*A2
C30	*B2			L12	A1	R4	*A2
C31	B2	CN1	A1	L13	B1	R5	*A2
C32	B2	CN2	B1	L14	B1	R6	*A2
C33	B2			L15	B1	R7	*A2
C34	A2	D1	*A2			R8	*A2
C35	*A2	D2	*A2	Q1	*A2	R9	*A2
C36	*A2	D3	*A2	Q2	*A2	R10	*A2
C37	*A2	D4	*B2	Q3	*A2	R11	*A2
C38	*A2	D5	*B2	Q4	*A1	R12	*A2
C39	*B2	D6	*A2	Q5	*B2	R13	*A2
C40	*B2	D7	*A2	Q6	*B2	R14	*A2
C41	*B2	D8	*B2	Q7	*B2	R15	*A2
C42	*B2	D9	*B2	Q8	*A2	R16	*A2
C43	A2	D10	*B1	Q9	*B2	R17	*B1
C44	A2	D11	*A1	Q10	*A2	R18	*B1



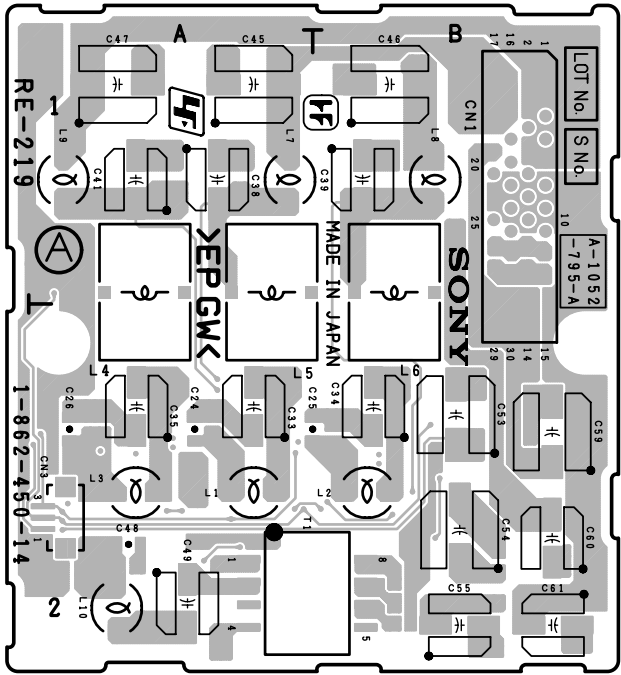
RE-218 -A SIDE-
SUFFIX: -12



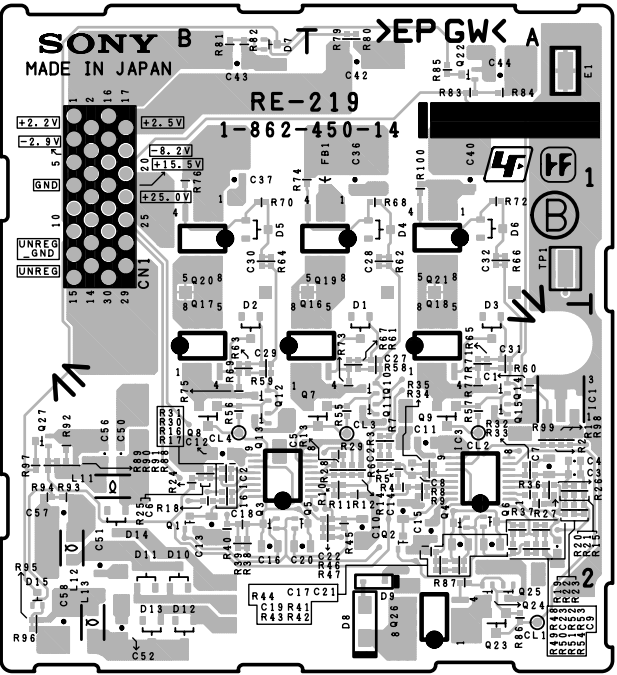
RE-218 -B SIDE-
SUFFIX: -12

R19	*B1	R63	*B2	R107	*B2
R20	*B1	R64	*B2	R108	*B1
R21	*B1	R65	*B2	R109	*A2
R22	*B1	R66	*B2	R110	*A1
R23	*A1	R67	*B2	R111	*A2
R24	*A1	R68	*B2	R112	*B1
R25	*A1	R69	*B2	R113	*B2
R26	*B1	R70	*B2	R114	*B1
R27	*B1	R71	*B2	R115	*B2
R28	*B1	R72	*B2	R116	*B1
R29	*B1	R73	*B2	R117	*A1
R30	*B1	R74	*B2	R118	*A1
R31	*B1	R75	*B2	R119	*A1
R32	*B1	R76	*B2	R120	*A1
R33	*B1	R77	*B2	R121	*B1
R34	*B1	R78	*B2	R122	*B1
R35	*B1	R79	*B2	R123	*B1
R36	*B1	R80	*A2	R124	*B1
R37	*B1	R81	*A2	R125	*B1
R38	*B2	R82	*A2	R126	*A2
R39	*B2	R83	*B2	R127	*A2
R40	*B2	R84	*B2	R128	*B1
R41	*B2	R85	*B2	R129	*B1
R42	*B2	R86	*A2	R130	*B1
R43	*B2	R87	*A2		
R44	*B2	R88	*B2	SL1	*A1
R45	*B2	R89	*B2		
R46	*B2	R90	*A2		
R47	*A2	R91	*A2		
R48	*A2	R92	*B2		
R49	*A2	R93	*A2		
R50	*B2	R94	*A2		
R51	*B2	R95	*A2		
R52	*A2	R96	*A2		
R53	*A2	R97	*B2		
R54	*B2	R98	*B2		
R55	*B2	R99	*B2		
R56	*B2	R100	*B2		
R57	*B2	R101	*A2		
R58	*B2	R102	*A2		
R59	*B2	R103	*A2		
R60	*A2	R104	*A1		
R61	*A2	R105	*B2		
R62	*B2	R106	*B1		

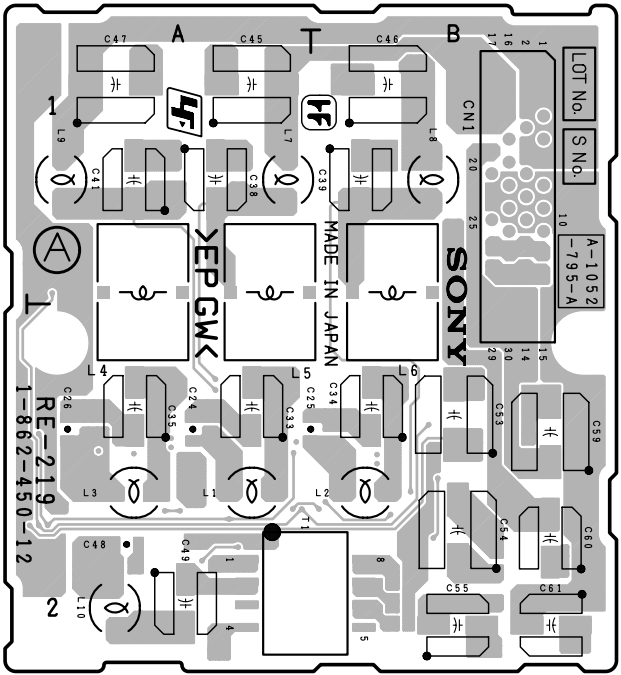
:B SIDE



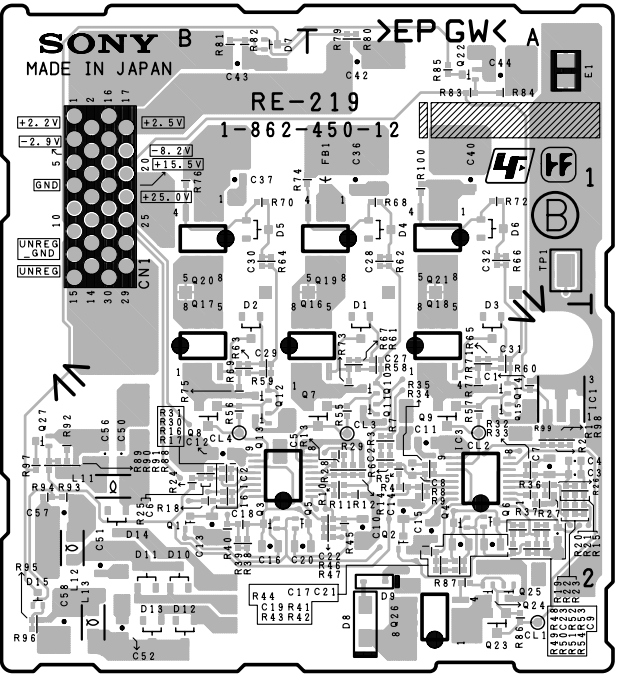
RE-219 -A SIDE-
SUFFIX: -14



RE-219 -B SIDE-
SUFFIX: -14



RE-219 -A SIDE-
SUFFIX: -12



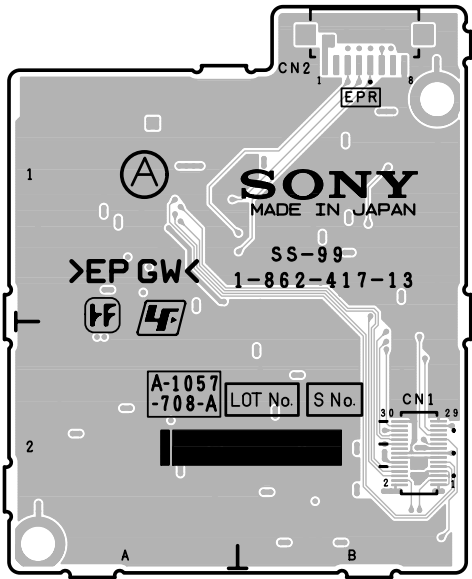
RE-219 -B SIDE-
SUFFIX: -12

RE-219 (1-862-450-14)

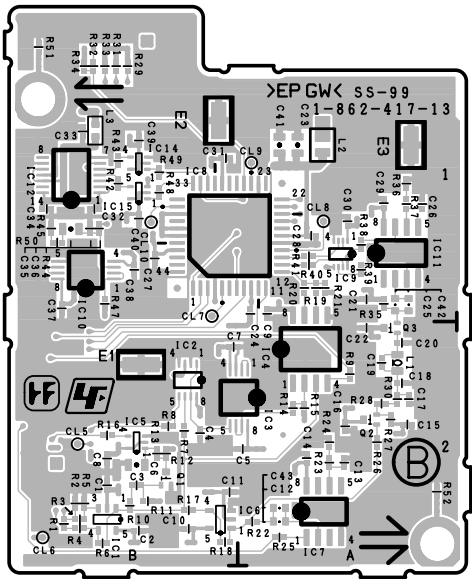
C1	*A2	C42	*A1	D13	*B2	Q16	*A2	R29	*A2	R70	*B1
C2	*A2	C43	*B1	D14	*B2	Q17	*B2	R30	*B2	R71	*A2
C3	*A2	C44	*A1	D15	*B2	Q18	*A2	R31	*B2	R72	*A1
C4	*A2	C45	A1			Q19	*A1	R32	*A2	R73	*A2
C5	*A2	C46	B1	E1	*A1	Q20	*B1	R33	*A2	R74	*A1
C6	*B2	C47	A1			Q21	*A1	R34	*A2	R75	*B2
C7	*A2	C48	A2	FB1	*A1	Q22	*A1	R35	*A2	R76	*B1
C8	*A2	C49	A2			Q23	*A2	R36	*A2	R77	*A2
C9	*A2	C50	*B2	IC1	*A2	Q24	*A2	R37	*A2	R79	*A1
C10	*A2	C51	*B2	IC2	*B2	Q25	*A2	R38	*B2	R80	*A1
C11	*A2	C52	*B2	IC3	*A2	Q26	*A2	R39	*B2	R81	*B1
C12	*B2	C53	B2			Q27	*B2	R40	*B2	R82	*B1
C13	*B2	C54	B2	L1	A2			R41	*A2	R83	*A1
C14	*A2	C55	B2	L2	B2	R1	*A2	R42	*A2	R84	*A1
C15	*A2	C56	*B2	L3	A2	R2	*A2	R43	*A2	R85	*A1
C16	*B2	C57	*B2	L4	A1	R3	*A2	R44	*A2	R86	*A2
C17	*A2	C58	*B2	L5	A1	R4	*A2	R45	*A2	R87	*A2
C18	*B2	C59	B2	L6	B1	R5	*A2	R46	*A2	R88	*B2
C19	*A2	C60	B2	L7	A1	R6	*A2	R47	*A2	R89	*B2
C20	*B2	C61	B2	L8	B1	R7	*A2	R48	*A2	R90	*B2
C21	*A2			L9	A1	R8	*A2	R49	*A2	R91	*B2
C22	*A2	CL1	*A2	L10	A2	R9	*A2	R50	*A2	R92	*B2
C23	*A2	CL2	*A2	L11	*B2	R10	*A2	R51	*A2	R93	*B2
C24	A2	CL3	*A2	L12	*B2	R11	*A2	R52	*A2	R94	*B2
C25	A2	CL4	*B2	L13	*B2	R12	*A2	R53	*A2	R95	*B2
C26	A2					R13	*A2	R54	*A2	R96	*B2
C27	*A2	CN1	B1	Q1	*B2	R14	*A2	R55	*A2	R97	*B2
C28	*A1	CN3	A2	Q2	*A2	R15	*A2	R56	*B2	R98	*A2
C29	*B2			Q3	*B2	R16	*B2	R57	*A2	R99	*A2
C30	*B1	D1	*A2	Q4	*A2	R17	*B2	R58	*A2	R100	*A1
C31	*A2	D2	*B2	Q5	*B2	R18	*B2	R59	*B2		
C32	*A1	D3	*A2	Q6	*A2	R19	*A2	R60	*A2		
C33	A2	D4	*A1	Q7	*A2	R20	*A2	R61	*A2		
C34	B2	D5	*B1	Q8	*B2	R21	*A2	R62	*A1		
C35	A2	D6	*A1	Q9	*A2	R22	*A2	R63	*B2		
C36	*A1	D7	*B1	Q10	*A2	R23	*A2	R64	*B1		
C37	*B1	D8	*A2	Q11	*A2	R24	*B2	R65	*A2		
C38	A1	D9	*A2	Q12	*B2	R25	*B2	R66	*A1		
C39	B1	D10	*B2	Q13	*B2	R26	*A2	R67	*A2		
C40	*A1	D11	*B2	Q14	*A2	R27	*A2	R68	*A1		
C41	A1	D12	*B2	Q15	*A2	R28	*A2	R69	*B2		

RE-219 (1-862-450-12)

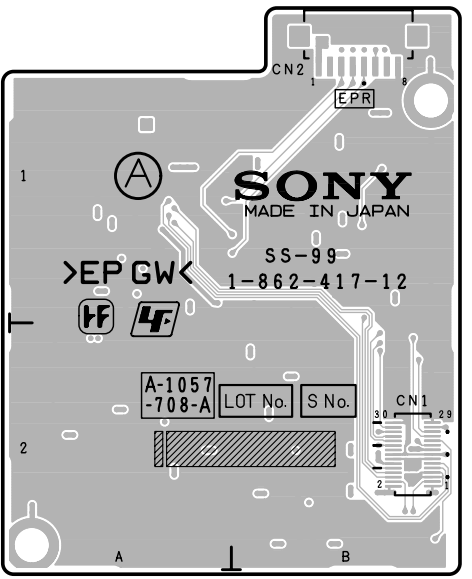
C1	*A2	C42	*A1	D14	*B2	Q17	*B2	R30	*B2	R71	*A2
C2	*A2	C43	*B1	D15	*B2	Q18	*A2	R31	*B2	R72	*A1
C3	*A2	C44	*A1			Q19	*A1	R32	*A2	R73	*A2
C4	*A2	C45	A1	E1	*A1	Q20	*B1	R33	*A2	R74	*A1
C5	*A2	C46	B1			Q21	*A1	R34	*A2	R75	*B2
C6	*B2	C47	A1	FB1	*A1	Q22	*A1	R35	*A2	R76	*B1
C7	*A2	C48	A2			Q23	*A2	R36	*A2	R77	*A2
C8	*A2	C49	A2	IC1	*A2	Q24	*A2	R37	*A2	R79	*A1
C9	*A2	C50	*B2	IC2	*B2	Q25	*A2	R38	*B2	R80	*A1
C10	*A2	C51	*B2	IC3	*A2	Q26	*A2	R39	*B2	R81	*B1
C11	*A2	C52	*B2			Q27	*B2	R40	*B2	R82	*B1
C12	*B2	C53	B2	L1	A2			R41	*A2	R83	*A1
C13	*B2	C54	B2	L2	B2	R1	*A2	R42	*A2	R84	*A1
C14	*A2	C55	B2	L3	A2	R2	*A2	R43	*A2	R85	*A1
C15	*A2	C56	*B2	L4	A1	R3	*A2	R44	*A2	R86	*A2
C16	*B2	C57	*B2	L5	A1	R4	*A2	R45	*A2	R87	*A2
C17	*A2	C58	*B2	L6	B1	R5	*A2	R46	*A2	R88	*B2
C18	*B2	C59	B2	L7	A1	R6	*A2	R47	*A2	R89	*B2
C19	*A2	C60	B2	L8	B1	R7	*A2	R48	*A2	R90	*B2
C20	*B2	C61	B2	L9	A1	R8	*A2	R49	*A2	R91	*B2
C21	*A2			L10	A2	R9	*A2	R50	*A2	R92	*B2
C22	*A2	CL1	*A2	L11	*B2	R10	*A2	R51	*A2	R93	*B2
C23	*A2	CL2	*A2	L12	*B2	R11	*A2	R52	*A2	R94	*B2
C24	A2	CL3	*A2	L13	*B2	R12	*A2	R53	*A2	R95	*B2
C25	A2	CL4	*B2			R13	*A2	R54	*A2	R96	*B2
C26	A2					R14	*A2	R55	*A2	R97	*B2
C27	*A2	CN1	B1	Q1	*B2	R15	*A2	R56	*B2	R98	*A2
C28	*A1			Q2	*A2	R16	*B2	R57	*A2	R99	*A2
C29	*B2	D1	*A2	Q3	*B2	R17	*B2	R58	*A2	R100	*A1
C30	*B1	D2	*B2	Q4	*B2	R18	*B2	R59	*B2		
C31	*A2	D3	*A2	Q5	*A2	R19	*A2	R60	*A2		
C32	*A1	D4	*A1	Q6	*A2	R20	*A2	R61	*A2		
C33	A2	D5	*B1	Q7	*B2	R21	*A2	R62	*A1		
C34	B2	D6	*A1	Q8	*A2	R22	*A2	R63	*B2		
C35	A2	D7	*B1	Q9	*A2	R23	*A2	R64	*B1		
C36	*A1	D8	*A2	Q10	*A2	R24	*B2	R65	*A2		
C37	*B1	D9	*A2	Q11	*B2	R25	*B2	R66	*A1		
C38	A1	D10	*B2	Q12	*B2	R26	*A2	R67	*A2		
C39	B1	D11	*B2	Q13	*A2	R27	*A2	R68	*A1		
C40	*A1	D12	*B2	Q14	*A2	R28	*A2	R69	*B2		
C41	A1	D13	*B2	Q15	*A2	R29	*A2	R70	*B1		



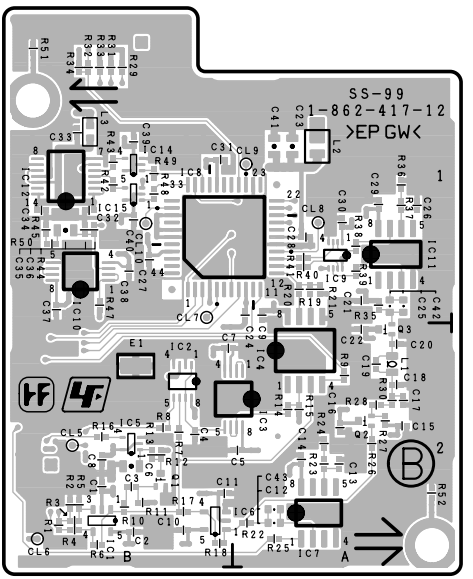
SS-99 -A SIDE-
SUFFIX: -13



SS-99 -B SIDE-
SUFFIX: -13



SS-99 -A SIDE-
SUFFIX: -12



SS-99 -B SIDE-
SUFFIX: -12

SS-99 (1-862-417-13)

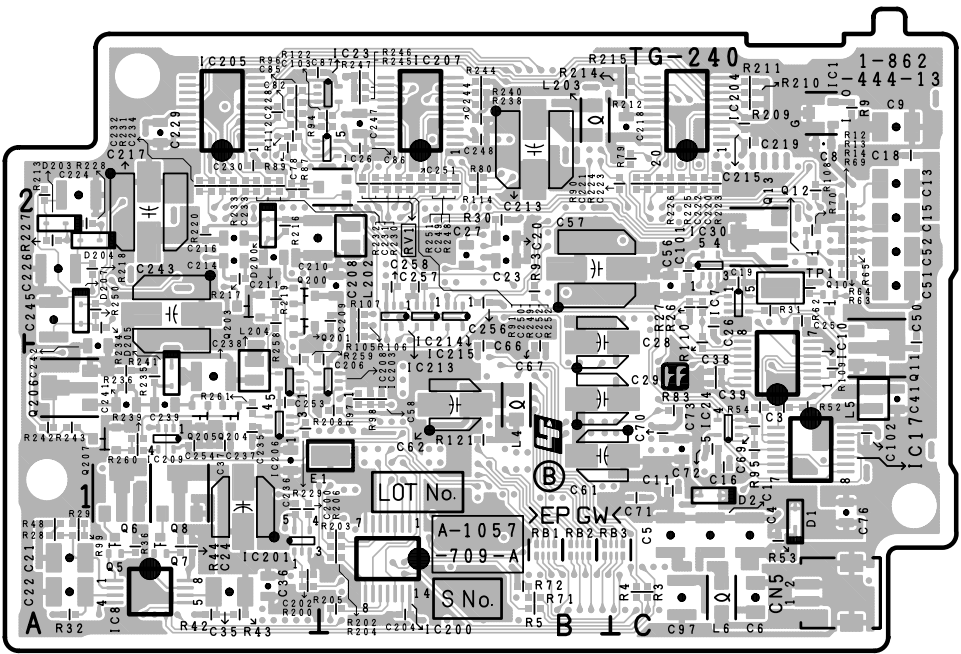
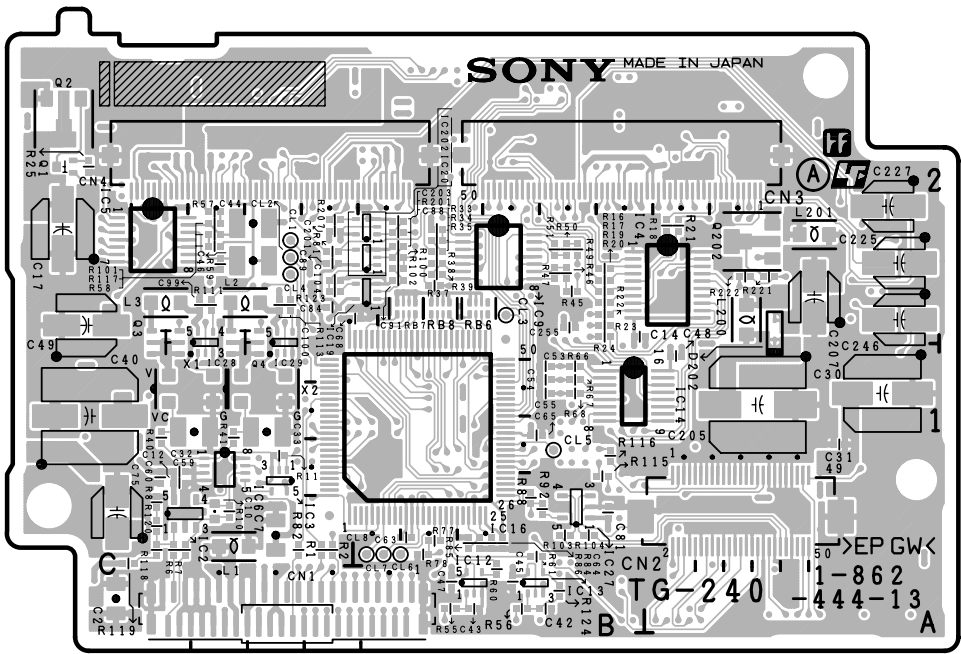
C1	*A2	C38	*A1	L2	*B1	R31	*A1
C2	*A2	C39	*A1	L3	*A1	R32	*A1
C3	*A2	C40	*A1			R33	*A1
C4	*A2	C41	*B1	Q1	*A2	R34	*A1
C5	*B2	C42	*B1	Q2	*B2	R35	*B1
C6	*A2	C43	*B2	Q3	*B2	R36	*B1
C7	*A2					R37	*B1
C8	*A2	CL5	*A2	R1	*A2	R38	*B1
C9	*B1	CL6	*A2	R2	*A2	R39	*B1
C10	*A2	CL7	*A1	R3	*A2	R40	*B1
C11	*A2	CL8	*B1	R4	*A2	R41	*B1
C12	*B2	CL9	*B1	R5	*A2	R42	*A1
C13	*B2	CL10	*A1	R6	*A2	R43	*A1
C14	*B2			R7	*A2	R44	*A1
C15	*B2	CN1	A2	R8	*A2	R45	*A1
C16	*B2	CN2	A1	R9	*B2	R47	*A1
C17	*B2			R10	*A2	R48	*A1
C18	*B2	E1	*A2	R11	*A2	R49	*A1
C19	*B2	E2	*A1	R12	*A2	R50	*A1
C20	*B2	E3	*B1	R13	*A2	R51	*A1
C21	*B1			R14	*B2	R52	*B2
C22	*B2	IC1	*A2	R15	*B2		
C23	*B1	IC2	*A2	R16	*A2		
C24	*B1	IC3	*B2	R17	*A2		
C25	*B1	IC4	*B2	R18	*A2		
C26	*B1	IC5	*A2	R19	*B1		
C27	*A1	IC6	*A2	R20	*B1		
C28	*B1	IC7	*B2	R21	*B1		
C29	*B1	IC8	*A1	R22	*B2		
C30	*B1	IC9	*B1	R23	*B2		
C31	*A1	IC10	*A1	R24	*B2		
C32	*A1	IC11	*B1	R25	*B2		
C33	*A1	IC12	*A1	R26	*B2		
C34	*A1	IC14	*A1	R27	*B2		
C35	*A1	IC15	*A1	R28	*B2		
C36	*A1			R29	*A1		
C37	*A1	L1	*B2	R30	*B2		

*:B SIDE

SS-99 (1-862-417-12)

C1	*B2	C38	*B1	Q1	*B2	R34	*B1
C2	*B2	C39	*B1	Q2	*A2	R35	*A1
C3	*B2	C40	*B1	Q3	*A2	R36	*A1
C4	*B2	C41	*A1			R37	*A1
C5	*A2	C42	*A1	R1	*B2	R38	*A1
C6	*B2	C43	*A2	R2	*B2	R39	*A1
C7	*B2			R3	*B2	R40	*A1
C8	*B2	CL5	*B2	R4	*B2	R41	*A1
C9	*A1	CL6	*B2	R5	*B2	R42	*B1
C10	*B2	CL7	*B1	R6	*B2	R43	*B1
C11	*B2	CL8	*A1	R7	*B2	R44	*B1
C12	*A2	CL9	*A1	R8	*B2	R45	*B1
C13	*A2	CL10	*B1	R9	*A2	R47	*B1
C14	*A2			R10	*B2	R48	*B1
C15	*A2	CN1	B2	R11	*B2	R49	*B1
C16	*A2	CN2	B1	R12	*B2	R50	*B1
C17	*A2			R13	*B2	R51	*B1
C18	*A2	E1	*B2	R14	*A2	R52	*A2
C19	*A2			R15	*A2		
C20	*A2	IC1	*B2	R16	*B2		
C21	*A1	IC2	*B2	R17	*B2		
C22	*A2	IC3	*A2	R18	*B2		
C23	*A1	IC4	*A2	R19	*A1		
C24	*A1	IC5	*B2	R20	*A1		
C25	*A1	IC6	*B2	R21	*A1		
C26	*A1	IC7	*A2	R22	*A2		
C27	*B1	IC8	*B1	R23	*A2		
C28	*A1	IC9	*A1	R24	*A2		
C29	*A1	IC10	*B1	R25	*A2		
C30	*A1	IC11	*A1	R26	*A2		
C31	*B1	IC12	*B1	R27	*A2		
C32	*B1	IC14	*B1	R28	*A2		
C33	*B1	IC15	*B1	R29	*B1		
C34	*B1			R30	*A2		
C35	*B1	L1	*A2	R31	*B1		
C36	*B1	L2	*A1	R32	*B1		
C37	*B1	L3	*B1	R33	*B1		

*:B SIDE

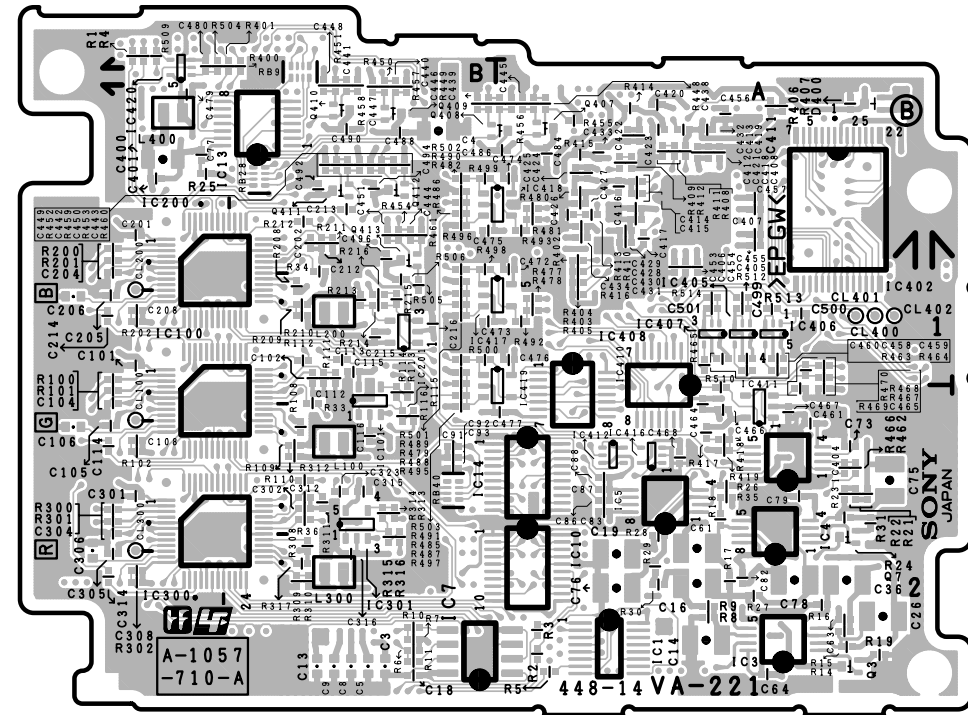


TG-240 -A SIDE-
SUFFIX: -13

TG-240 -B SIDE-
SUFFIX: -13

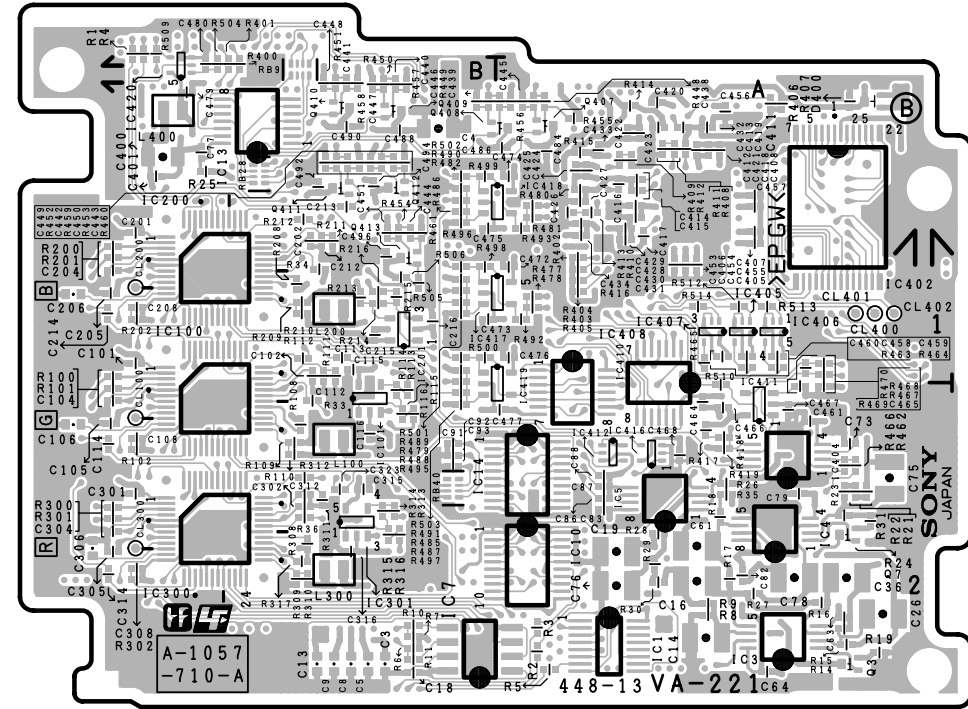
TG-240 (1-862-444-13)

C1	*C1	C49	C2	C203	B2	C252	*B2	IC16	B1	Q12	*C2	R38	B2	R89	*A2	R211	*C2	RB2	*B1
C2	C1	C50	*C2	C204	*B1	C253	*A1	IC17	*C1	Q13	*C2	R39	B2	R90	*C2	R212	*C2	RB3	*C1
C3	*C1	C51	*C2	C205	A1	C254	*A1	IC19	B2	Q200	*A2	R40	C1	R91	*C2	R213	*A2	RB6	B2
C4	*C1	C52	*C2	C206	*B1	C255	B2	IC20	B2	Q201	*A2	R41	C1	R92	B1	R214	*C2	RB7	B2
C5	*C1	C53	B1	C207	A2	C256	*B2	IC23	*B2	Q202	A2	R42	*A1	R93	*B2	R215	*C2	RB8	B2
C6	*C1	C54	B1	C208	*B2	C257	*B2	IC24	*C1	Q203	*A2	R43	*A1	R94	*A2	R216	*A2		
C7	C1	C55	B1	C209	*B2	C258	*B2	IC26	*B2	Q204	*A1	R44	*A1	R95	*C1	R217	*A2	RV1	*B2
C8	*C2	C56	*C2	C210	*A2			IC27	B1	Q205	*A1	R45	B2	R96	*A2	R218	*A2		
C9	*C2	C57	*B2	C211	*A2	CL1	C2	IC28	C2	Q206	*A1	R46	B2	R97	*B1	R219	*A2	TP1	*C2
C10	C1	C58	*B1	C213	*B2	CL2	C2	IC29	C2	Q207	*A1	R47	B2	R98	*B1	R220	*A2		
C11	*C1	C59	C1	C214	*A2	CL3	B2	IC30	*C2			R48	*A1	R99	*A1	R221	A2	X1	C1
C12	C1	C60	C1	C215	*C2	CL4	C2	IC200	*B1	R1	C1	R49	B2	R100	B2	R222	A2	X2	C1
C13	*C2	C61	*B1	C216	*A2	CL5	B1	IC201	*A1	R2	C1	R50	B2	R101	C2	R223	*C2		
C14	B2	C62	*B1	C217	*A2	CL6	B1	IC202	B2	R3	*C1	R51	B2	R102	B2	R224	*C2		
C15	*C2	C63	B1	C218	*C2	CL7	B1	IC203	*B1	R4	*C1	R52	*C1	R103	B1	R225	*C2		
C16	*C1	C64	B1	C219	*C2	CL8	B1	IC204	*C2	R5	*B1	R53	*C1	R104	B1	R226	*C2		
C17	C2	C65	B1	C220	*C2			IC205	*A2	R6	C1	R54	*C1	R105	*B2	R227	*A2		
C18	*C2	C66	*B1	C221	*C2	CN1	C1	IC206	*A1	R7	C1	R55	B1	R106	*B2	R228	*A2		
C19	*C2	C67	*B1	C222	*C2	CN2	A1	IC207	*B2	R8	C1	R56	B1	R107	*B2	R229	*A1		
C20	*B2	C68	B2	C223	*C2	CN3	B2	IC208	*A1	R9	*C2	R57	C2	R108	*C2	R230	*A2		
C21	*A1	C69	*C1	C224	*A2	CN4	C2	IC209	*A1	R10	C1	R58	C2	R109	*C1	R231	*A2		
C22	*A1	C70	*C1	C225	A2	CN5	*C1	IC213	*B2	R11	C1	R59	C2	R110	*C2	R232	*A2		
C23	*B2	C71	*C1	C226	*A2			IC214	*B2	R12	*C2	R60	B1	R111	C2	R233	*A2		
C24	*A1	C72	*C1	C227	A2	D1	*C1	IC215	*B2	R13	*C2	R61	B1	R112	*A2	R234	*A2		
C25	*C2	C73	*C1	C228	*A2	D2	*C1			R14	*C2	R62	*C2	R113	C2	R235	*A1		
C26	*C2	C75	C1	C229	*A2	D200	*A2	L1	C1	R16	B2	R63	*C2	R114	*B2	R236	*A1		
C27	*B2	C76	*C1	C230	*A2	D202	A2	L2	C2	R17	B2	R64	*C2	R115	B1	R238	*B2		
C28	*B2	C78	*A2	C231	*A2	D203	*A2	L3	C2	R18	A2	R65	*C2	R116	B1	R239	*A1		
C29	*B1	C81	B1	C232	*A2	D204	*A2	L4	*B1	R19	B2	R66	B1	R117	C2	R240	*B2		
C30	A1	C82	*A2	C233	*A2	D205	*A1	L5	*C1	R20	B2	R67	B1	R118	C1	R241	*A1		
C31	A1	C84	C2	C234	*A2	D207	*A2	L6	*C1	R21	A2	R68	B1	R119	C1	R242	*A1		
C32	C1	C85	*A2	C235	*A1			L200	A2	R22	B2	R69	*C2	R120	C1	R243	*A1		
C33	C1	C86	*B2	C236	*A1	E1	*B1	L201	A2	R23	B2	R70	*C2	R121	*B1	R244	*B2		
C35	*A1	C87	*A2	C237	*A1			L202	*B2	R24	B2	R71	*B1	R122	*B2	R245	*B2		
C36	*A1	C88	B2	C238	*A1	IC1	*C2	L203	*B2	R25	C2	R72	*B1	R123	C2	R246	*B2		
C37	*A1	C89	C2	C239	*A1	IC2	C1	L204	*A1	R26	*C2	R77	B1	R124	B1	R247	*B2		
C38	*C1	C91	B2	C241	*A1	IC3	C1			R27	*C2	R78	B1	R200	*A1	R248	*B2		
C39	*C1	C97	*C1	C242	*A1	IC4	A2	Q1	C2	R28	*A1	R79	*C2	R201	B2	R249	*B2		
C40	C1	C99	C2	C243	*A2	IC5	C2	Q2	C2	R29	*A1	R80	*B2	R202	*B1	R250	*A2		
C41	*C1	C100	C2	C244	*B2	IC6	C1	Q3	C2	R30	*B2	R81	C2	R203	*B1	R251	*B2		
C42	B1	C101	*C2	C245	*A2	IC7	*C2	Q4	C2	R31	*C2	R82	C1	R204	*B1	R252	*B2		
C43	B1	C102	*C1	C246	A2	IC8	*A1	Q5	*A1	R32	*A1	R83	*C1	R205	*B1	R258	*A2		
C44	C2	C103	*B2	C247	*B2	IC9	B2	Q6	*A1	R33	B2	R84	B1	R206	*A1	R259	*A1		
C45	B1	C104	C2	C248	*B2	IC10	*C1	Q7	*A1	R34	B2	R85	B1	R207	C2	R260	*A1		
C46	C2	C200	*A1	C249	*B2	IC12	B1	Q8	*A1	R35	B2	R86	B1	R208	*B1	R261	*A1		
C47	B1	C201	C2	C250	*B2	IC13	B1	Q10	*C2	R36	*A1	R87	*A2	R209	*C2				
C48	A1	C202	*A1	C251	*B2	IC14	B1	Q11	*C1	R37	B2	R88	B1	R210	*C2	RB1	*B1		



VA-221 -B SIDE-
SUFFIX: -14

C3	*B2	C87	*A2	C217	B1	C420	*A1	C465	*A2	CN1	B1	IC417	*A1	R9	*A2	R200	*B1	R410	*A1	R455	*A1	R500	*B1
C4	*B1	C88	*A2	C218	B1	C421	*A1	C466	*A2	CN2	B2	IC418	*A1	R10	*B2	R201	*B1	R411	*A1	R456	*A1	R501	*B1
C5	*B2	C89	*A2	C219	B1	C422	*A1	C467	*A2	CN3	A2	IC419	*A2	R11	*B2	R202	*B1	R412	*A1	R457	*B1	R502	*B1
C8	*B2	C90	A2	C220	B1	C423	*A1	C468	*A2	CN101	B2	IC420	*B1	R12	A2	R203	B1	R413	*A1	R458	*B1	R503	*B1
C9	*B2	C91	*B2	C300	B2	C424	*A1	C469	A1	CN201	B1	IC421	B1	R13	A2	R204	B1	R414	*A1	R459	*B1	R504	*B1
C13	*B2	C92	*B2	C301	*B2	C425	*A1	C470	A1	CN301	B2			R14	*A2	R205	B1	R415	*A1	R460	*B1	R505	*B1
C14	*A2	C93	*B2	C302	*B2	C426	*A1	C471	A2			L100	*B2	R15	*A2	R206	B1	R416	*A1	R461	*B1	R506	*B1
C15	A2	C100	B2	C303	B2	C427	*A1	C472	*A1	D400	*A1	L200	*B1	R16	*A2	R207	B1	R417	*A2	R462	*A2	R507	B1
C16	*A2	C101	*B1	C304	*B2	C428	*A1	C473	*B1			L300	*B2	R17	*A2	R208	*B1	R418	*A2	R463	*A1	R508	B1
C17	A2	C102	*B1	C305	*B2	C429	*A1	C474	*A1	FL100	B2	L400	*B1	R18	*A2	R209	*B1	R419	*A2	R464	*A1	R509	*B1
C18	*B2	C103	B1	C306	*B2	C430	*A1	C475	*B1	FL200	B1	L401	A1	R19	*A2	R210	*B1	R420	A1	R465	*A1	R510	*A2
C19	*A2	C104	*B2	C307	B2	C431	*A1	C476	*A1	FL300	B2			R20	A2	R211	*B1	R421	A1	R466	*A2	R511	*A2
C20	A2	C105	*B2	C308	*B2	C432	*A1	C477	*A2			Q1	A2	R21	*A2	R212	*B1	R422	B1	R467	*A1	R512	*A1
C21	A2	C106	*B2	C309	B2	C433	*A1	C478	A2	IC1	*A2	Q2	A2	R22	*A2	R213	*B1	R423	B1	R468	*A1	R513	*A1
C22	A2	C107	B2	C310	B2	C434	*A1	C479	*B1	IC2	A2	Q3	*A2	R23	*A2	R214	*B1	R424	B1	R469	*A2	R514	*A1
C23	A2	C108	*B2	C311	B2	C435	A2	C480	*B1	IC3	*A2	Q4	A2	R24	*A2	R215	*B1	R425	B1	R470	*A1		
C24	A2	C109	B1	C312	*B2	C436	B1	C481	B1	IC4	*A2	Q5	A2	R25	*B1	R216	*B1	R426	B1	R471	B1	RB1	A2
C25	A2	C110	B1	C314	*B2	C437	A2	C482	B1	IC5	*A2	Q6	A2	R26	*A2	R300	*B2	R427	A1	R472	A1	RB2	A2
C26	*A2	C111	B1	C315	*B2	C438	*A1	C483	B1	IC7	*B2	Q7	*A2	R27	*A2	R301	*B2	R428	B1	R473	B1	RB3	B2
C36	*A2	C112	*B1	C316	*B2	C439	*A1	C484	*A1	IC10	*A2	Q8	A2	R28	*A2	R302	*B2	R429	B1	R474	A1	RB4	B2
C61	*A2	C113	*B1	C317	B2	C440	*B1	C485	A1	IC13	*B1	Q9	A2	R29	*A2	R303	B2	R430	B1	R475	B2	RB5	A2
C63	*A2	C114	*B2	C318	B2	C441	*B1	C486	*A1	IC14	*A2	Q10	A2	R30	*A2	R304	B2	R431	B1	R476	A2	RB6	A2
C64	*A2	C115	*B1	C319	B2	C442	*B1	C487	A1	IC100	*B2	Q400	A1	R31	*A2	R305	B2	R432	B1	R477	*A1	RB7	B2
C65	A2	C116	*B2	C320	B2	C443	*B1	C488	*B1	IC101	*B2	Q401	A1	R32	A2	R306	B2	R433	B1	R478	*A1	RB8	B2
C66	A2	C117	B2	C323	*B2	C444	*B1	C489	B1	IC200	*B1	Q402	B1	R33	*B2	R307	B2	R434	A1	R479	*B1	RB9	*B1
C67	B2	C118	B2	C400	*B1	C445	*A1	C490	*B1	IC201	*B1	Q403	B1	R34	*B1	R308	*B2	R435	B1	R480	*A1	RB28	*B1
C68	A2	C119	B2	C401	*B1	C446	*B1	C491	B1	IC300	*B2	Q404	B1	R35	*A2	R309	*B2	R436	B1	R481	*A1	RB38	A1
C69	B2	C120	B1	C402	B1	C447	*B1	C492	*B1	IC301	*B2	Q405	B1	R36	*B2	R310	*B2	R437	B1	R482	*B1	RB39	A2
C70	A2	C200	B1	C403	A1	C448	*B1	C493	B1	IC400	B1	Q406	B1	R100	*B1	R311	*B2	R438	B1	R483	A2	RB40	*B2
C71	B2	C201	*B1	C404	A1	C449	*B1	C494	*B1	IC401	B1	Q407	*A1	R101	*B2	R312	*B2	R439	B1	R484	A2		
C72	A2	C202	*B1	C405	*A1	C450	*B1	C495	B1	IC402	*A1	Q408	*A1	R102	*B2	R313	*B2	R440	B1	R485	*B1		*:B SIDE
C73	*A2	C203	B1	C406	*A1	C451	*B1	C496	*B1	IC403	A1	Q409	*B1	R103	B2	R314	*B2	R441	A1	R486	*B1		
C74	A2	C204	*B1	C407	*A1	C452	A1	C497	B1	IC404	*A2	Q410	*B1	R104	B2	R315	*B2	R442	B1	R487	*B2		
C75	*A2	C205	*B1	C408	*A1	C453	*A1	C498	A2	IC405	*A1	Q411	*B1	R105	B1	R316	*B2	R443	B1	R488	*B1		
C76	*A2	C206	*B1	C409	A1	C454	*A1	C499	*A1	IC406	*A1	Q412	*B1	R106	B2	R317	*B2	R444	B1	R489	*B1		
C77	*B1	C207	B1	C410	A1	C455	*A1	C500	*A1	IC407	*A1	Q413	*B1	R107	B1	R400	*B1	R445	B1	R490	*B1		
C78	*A2	C208	*B1	C411	*A1	C456	*A1	C501	*A1	IC408	*A2			R108	*B2	R401	*B1	R446	B1	R491	*B1		
C79	*A2	C209	B1	C412	*A1	C457	*A1			IC409	A1	R1	*B1	R109	*B2	R402	*A1	R447	B1	R492	*A1		
C80	A2	C210	B1	C413	*A1	C458	*A1	CL100	*B2	IC410	*A2	R2	*A2	R110	*B2	R403	*A1	R448	*A1	R493	*A1		
C81	A2	C211	B1	C414	*A1	C459	*A1	CL200	*B1	IC411	*A2	R3	*A2	R111	*B1	R404	*A1	R449	*B1	R494	A1		
C82	*A2	C212	*B1	C415	*A1	C460	*A1	CL300	*B2	IC412	*A2	R4	*B1	R112	*B1	R405	*A1	R450	*B1	R495	*B1		
C83	*A2	C213	*B1	C416	*A1	C461	*A2	CL400	*A1	IC413	A1	R5	*A2	R113	*B2	R406	*A1	R451	*B1	R496	*B1		
C84	A2	C214	*B1	C417	*A1	C462	A2	CL401	*A1	IC414	A1	R6	*B2	R114	*B2	R407	*A1	R452	*B1	R497	*B2		
C85	A2	C215	*B1	C418	*A1	C463	A1	CL402	*A1	IC415	A1	R7	*B2	R115	*B2	R408	*A1	R453	*B1	R498	*B1		
C86	*A2	C216	*B1	C419	*A1	C464	*A2			IC416	*A2	R8	*A2	R116	*B2	R409	*A1	R454	*B1	R499	*B1		



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SUFFIX: -13

C3	*B2	C87	*A2	C217	B1	C420	*A1	C465	*A2	CN101	B2	IC420	*B1	R12	A2	R203	B1	R413	*A1	R458	*B1	R503	*B1
C4	*B1	C88	*A2	C218	B1	C421	*A1	C466	*A2	CN201	B1	IC421	B1	R13	A2	R204	B1	R414	*A1	R459	*B1	R504	*B1
C5	*B2	C89	A2	C219	B1	C422	*A1	C467	*A2	CN301	B2			R14	*A2	R205	B1	R415	*A1	R460	*B1	R505	*B1
C8	*B2	C90	A2	C220	B1	C423	*A1	C468	*A2			L100	*B2	R15	*A2	R206	B1	R416	*A1	R461	*B1	R506	*B1
C9	*B2	C91	*B2	C300	B2	C424	*A1	C469	A1	D400	*A1	L200	*B1	R16	*A2	R207	B1	R417	*A2	R462	*A2	R507	B1
C13	*B2	C92	*B2	C301	*B2	C425	*A1	C470	A1			L300	*B2	R17	*A2	R208	*B1	R418	*A2	R463	*A1	R508	B1
C14	*A2	C93	*B2	C302	*B2	C426	*A1	C471	A2	FL100	B2	L400	*B1	R18	*A2	R209	*B1	R419	*A2	R464	*A1	R509	*B1
C15	A2	C100	B2	C303	B2	C427	*A1	C472	*A1	FL200	B1	L401	A1	R19	*A2	R210	*B1	R420	A1	R465	*A1	R510	*A2
C16	*A2	C101	*B1	C304	*B2	C428	*A1	C473	*B1	FL300	B2			R20	A2	R211	*B1	R421	A1	R466	*A2	R511	A2
C17	A2	C102	*B1	C305	*B2	C429	*A1	C474	*A1			Q1	A2	R21	*A2	R212	*B1	R422	B1	R467	*A1	R512	*A1
C18	*B2	C103	B1	C306	*B2	C430	*A1	C475	*B1	IC1	*A2	Q2	A2	R22	*A2	R213	*B1	R423	B1	R468	*A1	R513	*A1
C19	*A2	C104	*B2	C307	B2	C431	*A1	C476	*A1	IC2	A2	Q3	*A2	R23	*A2	R214	*B1	R424	B1	R469	*A2	R514	*A1
C20	A2	C105	*B2	C308	*B2	C432	*A1	C477	*A2	IC3	*A2	Q4	A2	R24	*A2	R215	*B1	R425	B1	R470	*A1		
C21	A2	C106	*B2	C309	B2	C433	*A1	C478	A2	IC4	*A2	Q5	A2	R25	*B1	R216	*B1	R426	B1	R471	B1	RB1	A2
C22	A2	C107	B2	C310	B2	C434	*A1	C479	*B1	IC5	*A2	Q6	A2	R26	*A2	R300	*B2	R427	A1	R472	A1	RB2	A2
C23	A2	C108	*B2	C311	B2	C435	A2	C480	*B1	IC7	*B2	Q7	*A2	R27	*A2	R301	*B2	R428	B1	R473	B1	RB3	B2
C24	A2	C109	B1	C312	*B2	C436	B1	C481	B1	IC10	*A2	Q8	A2	R28	*A2	R302	*B2	R429	B1	R474	A1	RB4	B2
C25	A2	C110	B1	C314	*B2	C437	A2	C482	B1	IC13	*B1	Q9	A2	R29	*A2	R303	B2	R430	B1	R475	B2	RB5	A2
C26	*A2	C111	B1	C315	*B2	C438	*A1	C483	B1	IC14	*A2	Q10	A2	R30	*A2	R304	B2	R431	B1	R476	A2	RB6	A2
C36	*A2	C112	*B1	C316	*B2	C439	*A1	C484	*A1	IC100	*B2	Q400	A1	R31	*A2	R305	B2	R432	B1	R477	*A1	RB7	B2
C61	*A2	C113	*B1	C317	B2	C440	*B1	C485	A1	IC101	*B2	Q401	A1	R32	A2	R306	B2	R433	B1	R478	*A1	RB8	B2
C63	*A2	C114	*B2	C318	B2	C441	*B1	C486	*A1	IC200	*B1	Q402	B1	R33	*B2	R307	B2	R434	A1	R479	*B1	RB9	*B1
C64	*A2	C115	*B1	C319	B2	C442	*B1	C487	A1	IC201	*B1	Q403	B1	R34	*A1	R308	*B2	R435	B1	R480	*A1	RB28	*B1
C65	A2	C116	*B2	C320	B2	C443	*B1	C488	*B1	IC300	*B2	Q404	B1	R35	*A2	R309	*B2	R436	B1	R481	*A1	RB38	B1
C66	A2	C117	B2	C323	*B2	C444	*B1	C489	B1	IC301	*B2	Q405	B1	R36	*B2	R310	*B2	R437	B1	R482	*B1	RB39	A2
C67	B2	C118	B2	C400	*B1	C445	*A1	C490	*B1	IC400	B1	Q406	B1	R100	*B1	R311	*B2	R438	B1	R483	A2	RB40	*B2
C68	A2	C119	B2	C401	*B1	C446	*B1	C491	B1	IC401	B1	Q407	*A1	R101	*B2	R312	*B2	R439	B1	R484	A2		
C69	B2	C120	B1	C402	B1	C447	*B1	C492	*B1	IC402	*A1	Q408	*A1	R102	*B2	R313	*B2	R440	B1	R485	*B1	*:B SIDE	
C70	A2	C200	B1	C403	A1	C448	*B1	C493	B1	IC403	A1	Q409	*B1	R103	B2	R314	*B2	R441	A1	R486	*B1		
C71	B2	C201	*B1	C404	A1	C449	*B1	C494	*B1	IC404	*A2	Q410	*B1	R104	B2	R315	*B2	R442	B1	R487	*B2		
C72	A2	C202	*B1	C405	*A1	C450	*B1	C495	B1	IC405	*A1	Q411	*B1	R105	B1	R316	*B2	R443	B1	R488	*B1		
C73	*A2	C203	B1	C406	*A1	C451	*B1	C496	*B1	IC406	*A1	Q412	*B1	R106	B2	R317	*B2	R444	B1	R489	*B1		
C74	A2	C204	*B1	C407	*A1	C452	A1	C497	B1	IC407	*A1	Q413	*B1	R107	B1	R400	*B1	R445	B1	R490	*B1		
C75	*A2	C205	*B1	C408	*A1	C453	*A1	C498	A2	IC408	*A2			R108	*B2	R401	*B1	R446	B1	R491	*B1		
C76	*A2	C206	*B1	C409	A1	C454	*A1			IC409	A1	R1	*B1	R109	*B2	R402	*A1	R447	B1	R492	*A1		
C77	*B1	C207	B1	C410	A1	C455	*A1	CL100	*B2	IC410	*A2	R2	*A2	R110	*B2	R403	*A1	R448	*A1	R493	*A1		
C78	*A2	C208	*B1	C411	*A1	C456	*A1	CL200	*B1	IC411	A2	R3	*A2	R111	*B1	R404	*A1	R449	*B1	R494	A1		
C79	*A2	C209	B1	C412	*A1	C457	*A1	CL300	*B2	IC412	A2	R4	*B1	R112	*B1	R405	*A1	R450	*B1	R495	*B1		
C80	A2	C210	B1	C413	*A1	C458	*A1	CL400	*A1	IC413	A1	R5	*A2	R113	*B2	R406	*A1	R451	*B1	R496	*B1		
C81	A2	C211	B1	C414	*A1	C459	*A1	CL401	*A1	IC414	A1	R6	*B2	R114	*B2	R407	*A1	R452	*B1	R497	*B2		
C82	*A2	C212	*B1	C415	*A1	C460	*A1	CL402	*A1	IC415	A1	R7	*B2	R115	*B2	R408	*A1	R453	*B1	R498	*B1		
C83	*A2	C213	*B1	C416	*A1	C461	*A2			IC416	*A2	R8	*A2	R116	*B2	R409	*A1	R454	*B1	R499	*B1		
C84	A2	C214	*B1	C417	*A1	C462	A2	CN1	B1	IC417	*A1	R9	*A2	R200	*B1	R410	*A1	R455	*A1	R500	*B1		
C85	A2	C215	*B1	C418	*A1	C463	A1	CN2	B2	IC418	*A1	R10	*B2	R201	*B1	R411	*A1	R456	*A1	R501	*B1		
C86	*A2	C216	*B1	C419	*A1	C464	*A2	CN3	A2	IC419	*A2	R11	*B2	R202	*B1	R412	*A1	R457	*B1	R502	*B1		

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