DSC-H2

SERVICE MANUAL

LEVEL 3

Ver. 1.3 2006. 10
Revision History

How to use
Acrobat Reader

Internal memory
ON BOARD

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model
Argentina Model
Hong Kong Model
Korea Model
Tourist Model

Link

- SERVICE NOTE
- PRINTED WIRING BOARDS
- SCHEMATIC DIAGRAMS
- REPAIR PARTS LIST

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note :** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DIGITAL STILL CAMERA

SONY®

DSC-H2_L3
9-876-937-11

Sony EMCS Co.

2006J1600-1

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SAFETY CHECK-OUT

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

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Keep the temperature of the soldering iron around 270˚C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the 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

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

CAUTION :
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

TABLE OF CONTENTS

1. SERVICE NOTE

1-1. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY

The data can be copied/erased by the operations on the Setup screen. (When erasing the data, execute formatting the internal memory.)

Note: 1 When replacing the SY-150 board, erase the data in internal memory of the board before replacement.
Note: 2 When replacing the SY-150 board or the IC202 on the SY-150 board, execute formatting and initialize the internal memory after replacement.

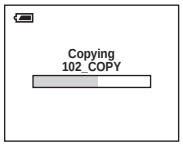
Method for Copying the Data in Internal Memory

Copy

Copies all images in the internal memory to a "Memory Stick".

	OK	See the following procedure.
✓	Cancel	Cancels the copying.

① Insert a "Memory Stick" having 32 MB or larger capacity.
② Select [OK] with ▲ on the control button, then press ●.
The message "All data in internal memory will be copied Ready?" appears.
③ Select [OK] with ▲ , then press ●.
Copying starts.



Use batteries with enough capacity or the AC Adaptor (not supplied). If you attempt to copy image files using batteries with little remaining capacity, the batteries may run out, causing copying to fail or possibly corrupting the data.
You cannot copy individual images.
The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the "Memory Stick" after copying, then execute the [Format] command in Internal Memory Tool.
You cannot select a folder copied on a "Memory Stick".
The setting of (Print order) marks is not copied even when you copy data.

Method for Formatting the Internal Memory

Format

Formats the internal memory.
Note that formatting irrevocably erases all data in the internal memory, including even protected images.

	OK	See the following procedure.
✓	Cancel	Cancels the formatting.

① Select [OK] with ▲ on the control button, then press ●.
The message "All data in internal memory will be erased Ready?" appears.
② Select [OK] with ▲, then press ●.
The format is complete.

• PROCESS AFTER FIXING FLASH ERROR

When "FLASH error" (Self-diagnosis Code E : 91 : **) occurs, to prevent any abnormal situation caused by high voltage, setting of the flash is changed automatically to disabling charge and flash setting.
After fixing, this setting needs to be deactivated. Flash error code can be initialized by the operations on the Setup screen.

Method for Initializing the Flash Error Code

Initialize

Initializes the setting to the default setting.

	OK	See the following procedure.
✓	Cancel	Cancels the resetting.

① Select [OK] with ▲ on the control button, then press ●.
The message "Initialize all settings Ready?" appears.
② Select [OK] with ▲, then press ●.
The settings are reset to the default setting.
Make sure that the power is not disconnected during resetting.

4-2. SCHEMATIC DIAGRAMS

Link

4-2. SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μμF. 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. kΩ=1000 Ω, MΩ=1000 kΩ.
- Caution when replacing chip parts.
  New parts must be attached after removal of chip.
  Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

Example C541 22U TA A L452 10UH 2520

Kinds of capacitor
Temperature characteristics
External dimensions (mm)

- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
  In such cases, the unused circuits may be indicated.
- Parts with * differ according to the model/destination.
  Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
  XEDIT → $\overline{\text{EDIT}}$ PB/XREC → PB/$\overline{\text{REC}}$
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B– Line
- : IN/OUT direction of (+,–) B LINE.
- : adjustment for repair.

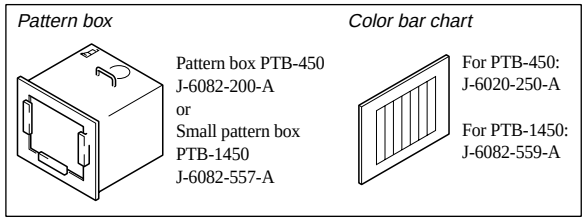
(Measuring conditions voltage)

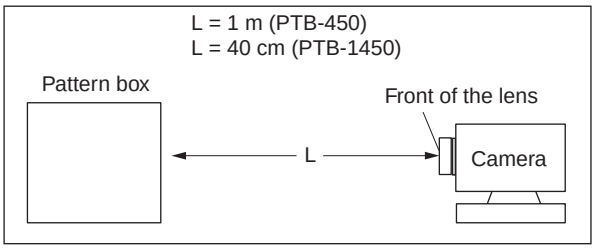
- Voltages are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values.
  (VOM of DC 10 MΩ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

Precautions for Replacement of imager

- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
  In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

1. Connection





2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

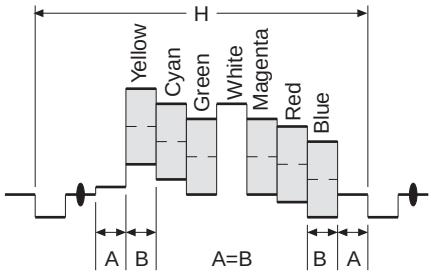


Fig. a (Video output terminal output waveform)

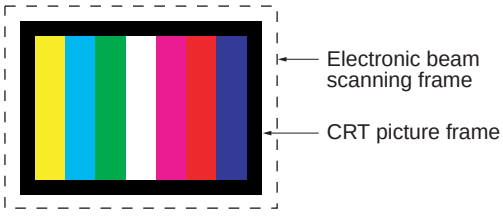


Fig.b (Picture on monitor TV)

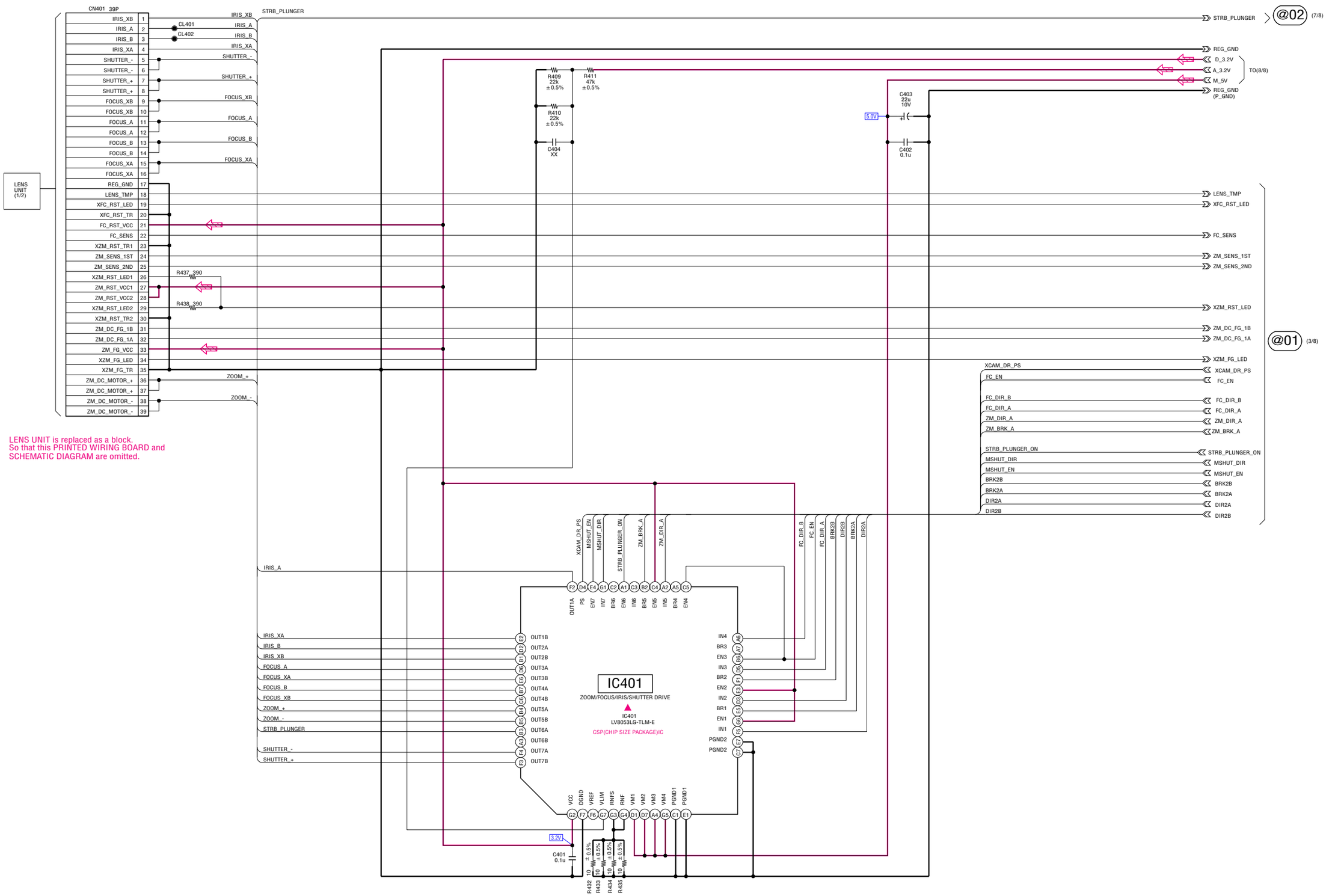
When indicating parts by reference number, please include the board name.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note :** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SY-150 BOARD(1/8)
LENS DRIVE
XX MARK:NO MOUNT

▲:Voltage measurement of the CSP IC and the Transistors with ▲ mark,is not possible.

LENS UNIT is replaced as a block.
So that this PRINTED WIRING BOARD and SCHEMATIC DIAGRAM are omitted.



SY-150 BOARD(2/8)

CAMERA A/D CONV.TIMING GENERATOR

XX MARK:NO MOUNT

▲ :Voltage measurement of the CSP IC and the Transistors with ▲ mark,is not possible.

NO MARK:REC/PB MODE
R :REC MODE
P :PB MODE

CN301 39P

TO CD-621 FLEXIBLE BOARD (PAGE 4-19 of LEVEL 2)

VSUB 1, CSUB 2, REG_GND 3, RAMDOM_TRIGGER 4, REG_GND 5, H2A 6, REG_GND 7, H2B 8, REG_GND 9, H1B 10, REG_GND 11, H1A 12, REG_GND 13, RG 14, REG_GND 15, REG_GND 16, REG_GND 17, CAM_-7.5V_CD 18, REG_GND 19, CCD_OUT 20, REG_GND 21, CAM_15V_CD 22, REG_GND 23, REG_GND 24, REG_GND 25, V5A 26, V1A 27, V5B 28, V1B 29, VHLD 30, V2 31, V6 32, V3A 33, V7A 34, V3B 35, V7B 36, VST 37, V8 38, V4 39

R310 18, R311 1, R312 1, R313 1, R314 1
C307 0.1u
FB309 0
R309 27
R318 0, R319 0, R320 0, R321 0

VST, V8, V7B, V7A, V6, V5B, V5A, V4, V3B, V3A, V2, V1B, V1A, R309 27, CCD_OUT, RG, (H2B)H4, (H2A)H2, (H1B)H3, (H1A)H1

CP301

A/D CONV.S/H,TIMING GENERATOR

▲CP301
1.2mmP-74P
CSP(CHIP SIZE PACKAGE)IC
CP301(CH-169 BOARD) (PAGE 4-39)

Note:The pin number of CP301 on SY-150 board corresponds to the number from CL001 to CL074 on CH-169 board.

Note:CP301(CH-169 board)is included in SY-150 complete board.

V10(VHLD), SUSCK(SUB), CA_AD00 D0, CA_AD01 D1, CA_AD02 D2, CA_AD03 D3, CA_AD04 D4, CA_AD05 D5, CA_AD06 D6, CA_AD07 D7, CA_AD08 D8, CA_AD09 D9, CA_AD10 D10, CA_AD11 D11, CA_AD12 D12, CA_AD13 D13, SYNC(* ID), MSHUT(* WEN), JL303, JL304

DRVSS, GND, GND, RGVDD, GND, GND, GND, (GND)HL, GND, GND, GND, GND, GND, GND, GND, (* DLLSL)NC, (AVSA)TCVSS, (AVDA)TCVDD

STROB(* XFE_CS), SL(XTG_CS), XCAM_SSI, XCAM_SCK, XCAM_RESET, VSUB(* CLPOB), NC(* CLPDM), CA_HR, CA_VR, TG_CKI, MCK, CAM_-7.5V, VM, CAM_15V, TG3V, FE3V, HVDD, HVDD, DRV3V

C313 XX, C314 0.1u, C315 100u 6.3V, C316 47u 6.3V, C317 47u 6.3V, R322 XX

C305 XX, C309 XX, C310 XX, C311 XX, R316 0

JL305, JL301, JL302

XCS_FE, SAN1_SO, XSAN1_SCK, XSAN_RST_OUT, CA_HD, CA_FD, CLKTGO

L302 10uH, L303 100uH, L304 10uH, FB308 0uH

3.2V, 2.9V, 2.9V

IC301
3.3V REG

R302 3300
R301 1800
R8.7/P0, R8.7/P0
Q301 RN1904FE(TPLR3) VSUB

VSUB_CONT_POST, VSUB_CONT_PRE

12.1V, L301 100uH

D301 MA2S111-(K8).SO

C301 0.1u 50V, R304 100k, C303 1u 35V BJ, C304 3.3u 35V TA B, C302 10u 10V TA A

C306 22u 16V TA B, R308 100k, FB301 0uH, -7.5V

C308 3.3u 35V TA B, FB302 0uH, 12.2V

IC301 R1114Q331D-TR-FA
CE, VSS, VIN, VOUT
C318 1u B 10V, C319 1u B 10V

CA_AD00 CA_AD01 CA_AD02 CA_AD03 CA_AD04 CA_AD05 CA_AD06 CA_AD07 CA_AD08 CA_AD09 CA_AD10 CA_AD11 CA_AD12 CA_AD13 → @03 (3/8)

CA_HD, XCS_FE

CLKTGO, VSUB_CONT_POST, VSUB_CONT_PRE → @04 (3/8,5/8,7/8)

SAN1_SO, XSAN1_SCK

XSAN_RST_OUT → @05 (3/8,4/8,6/8,7/8)

CA_FD → @06 (3/8,6/8)

CAM_2.9V, CAM_3.2V, ST_5V, CAM_15V, CAM_-7.5V, REG_GND (8/8)

SY-150 BOARD(3/8)

CAMERA DSP,SYSTEM CONTROL

XX MARK:NO MOUNT

▲:Voltage measurement of the CSP IC and the Transistors with ▲ mark,is not possible.

IC101
CAMERA DSP,SYSTEM CONTROL

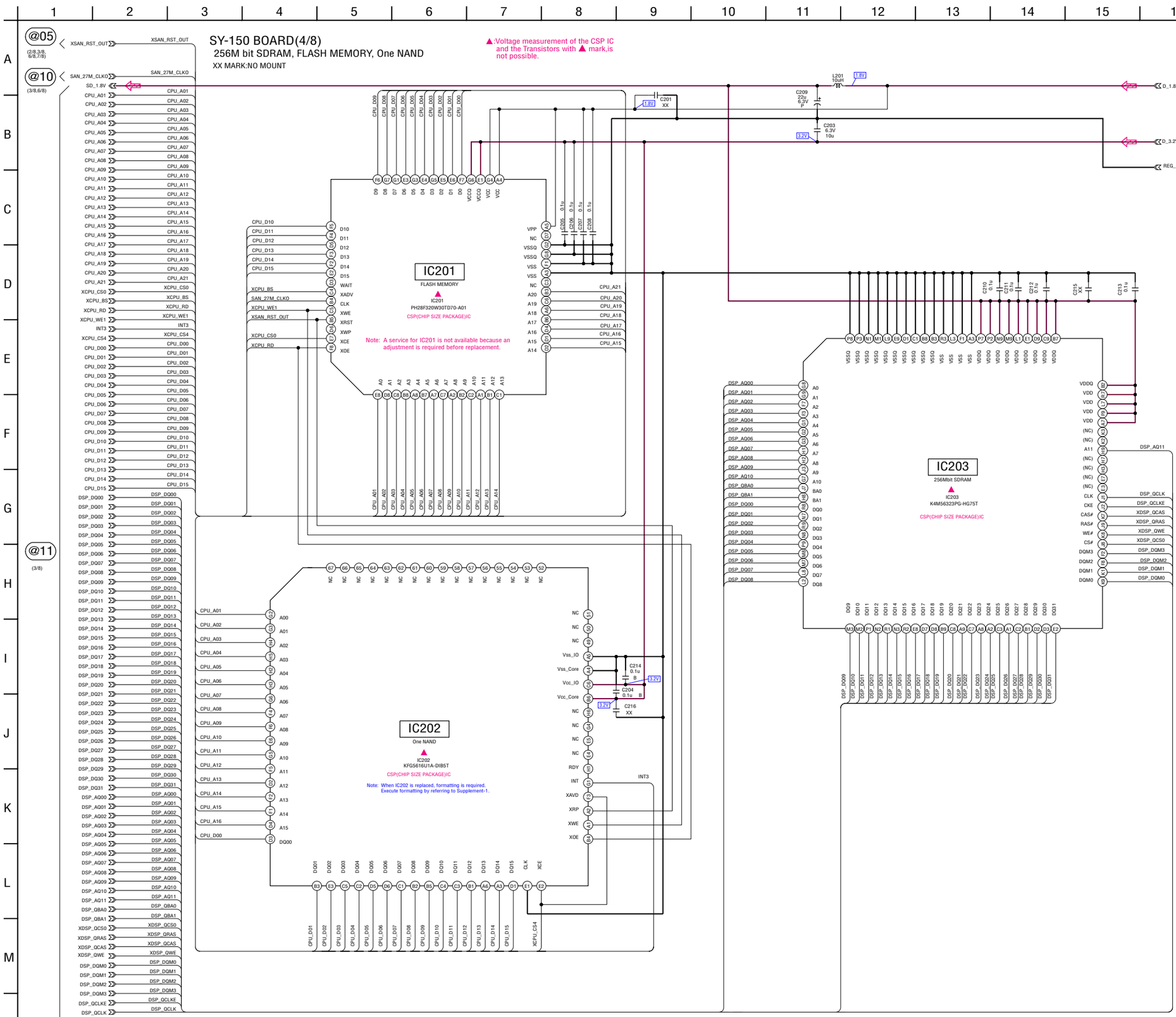
▲ IC101
CXD3188AGG-T6
CSP(CHIP SIZE PACKAGE)IC

SY-150 BOARD(4/8)

256M bit SDRAM, FLASH MEMORY, One NAND

XX MARK:NO MOUNT

▲:Voltage measurement of the CSP IC and the Transistors with ▲ mark,is not possible.



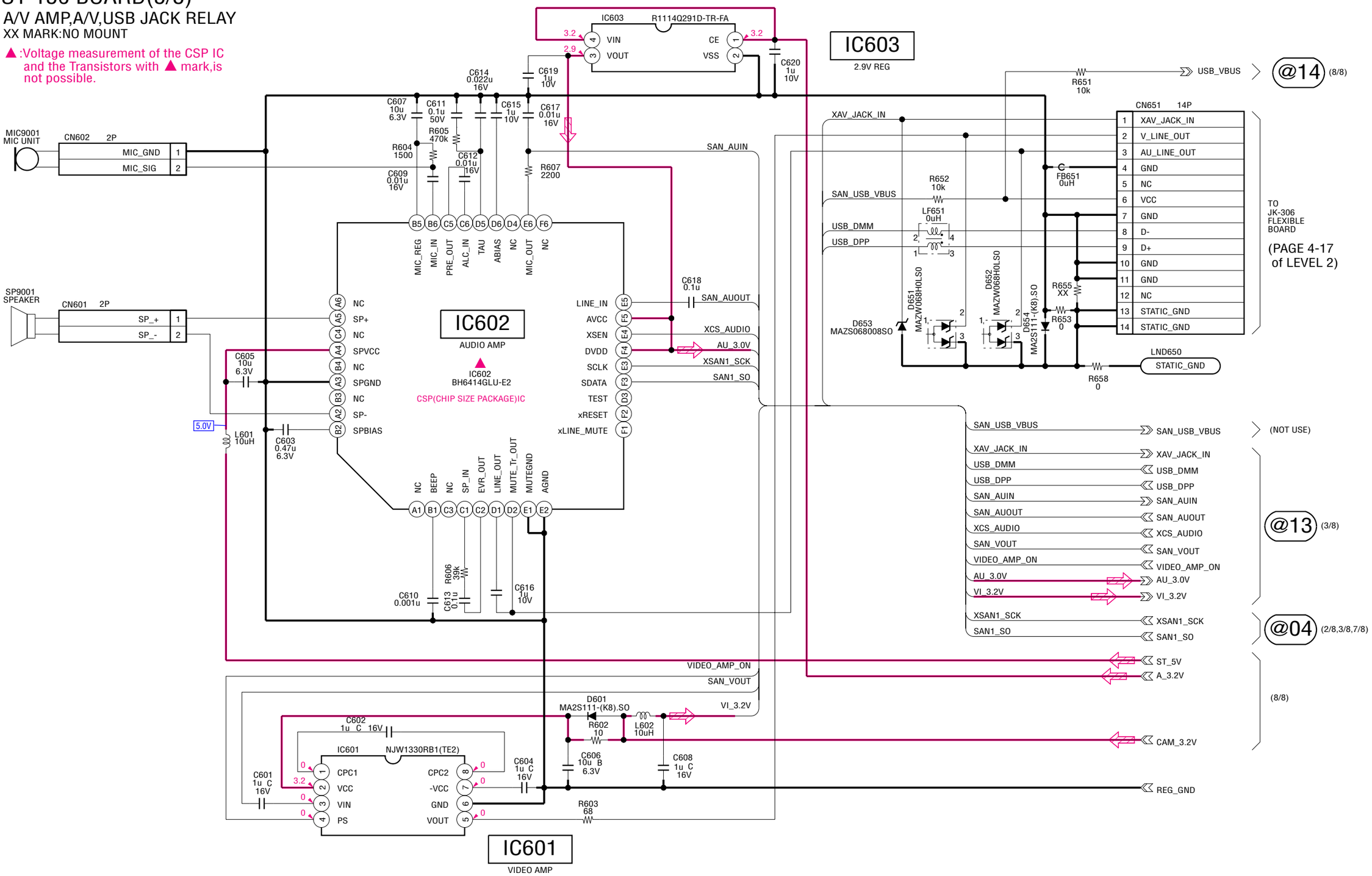
@05 (2/8,3/8, 5/8,7/8)
@10 (3/8,6/8)
@11 (3/8)

SY-150 BOARD(5/8)

A/V AMP,A/V,USB JACK RELAY

XX MARK:NO MOUNT

▲:Voltage measurement of the CSP IC and the Transistors with ▲ mark,is not possible.

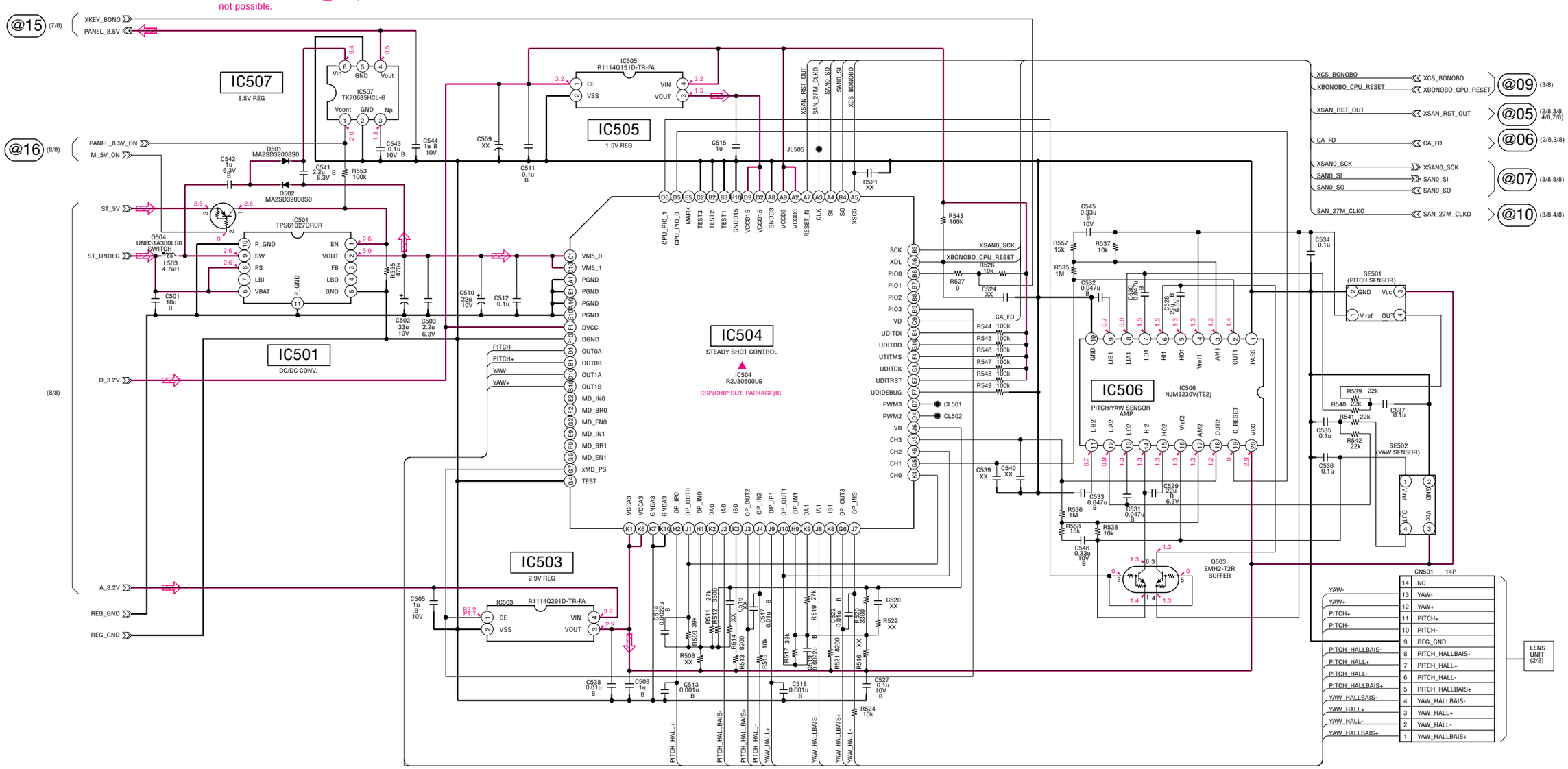


SY-150 BOARD(6/8)
STEADY SHOT CONTROL

XX MARK:NO MOUNT

NO MARK:REC/PB MODE
R :REC MODE
P :PB MODE

▲:Voltage measurement of the CSP IC and the Transistors with ▲ mark,is not possible.



LENS UNIT is replaced as a block.
So that this PRINTED WIRING BOARD and SCHEMATIC DIAGRAM are omitted.

SY-150 BOARD(7/8)

CONNECTOR

XX MARK:NO MOUNT

EVF UNIT is replaced as a block.
So that this PRINTED WIRING BOARD and SCHEMATIC DIAGRAM are omitted.

CN704 14P

MODE_DIAL0	14	MODE_DIAL0
A_3.2V	13	A_3.2V (8/8)
MODE_DIAL1	12	MODE_DIAL1
JOG_A	11	JOG_A
JOG_B	10	JOG_B
XAE_LOCK_SW	9	XAE_LOCK_SW
KEY_AD2	8	KEY_AD2
REG_GND	7	
XSHUTTER_SW	6	XSHUTTER_SW
XPWR_LED	5	XPWR_LED
D_3.2V	4	
XPWR_ON	3	XPWR_ON
KEY_BONO	2	XKEY_BONO
XPLAY_SW	1	XPLAY_SW

TO CONTROL SWITCH BLOCK (MODE DIAL) (PAGE 4-15 of LEVEL 2)

CN706 12P

REG_GND	12	
REG_GND	11	
MS_VCC	10	MS_VCC (8/8)
REG_GND	9	
MS_CLK	8	MS_CLK
MS_D3	7	MS_D3
XMS_IN	6	XMS_IN
MS_D2	5	MS_D2
MS_D0	4	MS_D0
MS_D1	3	MS_D1
MS_BS	2	MS_BS
REG_GND	1	

C704 0.1u B

TO MS-030 FLEXIBLE FLAT CABLE (PAGE 4-21 of LEVEL 2)

CN701 12P

REG_GND	12	
REG_GND	11	
REG_GND	10	
REG_GND	9	
ST_5V	8	
STRB_CHG	7	STRB_CHG
XSTRB_FULL	6	XSTRB_FULL
STRB_CHG_CONT	5	STRB_CHG_CONT
STRB_ON	4	STRB_ON
ST_UNREG	3	ST_UNREG (8/8)
ST_UNREG	2	
ST_UNREG	1	

TO ST-003 FLEXIBLE FLAT CABLE (PAGE 4-22 of LEVEL 2)

CN705 10P

REG_GND	10	
REG_GND	9	
STRB_PLUNGER	8	STRB_PLUNGER @02 (1/8)
STRB_PLUNGER	7	
REG_GND	6	
XSTRB_POPUP	5	XSTRB_POPUP
XAF_LED	4	
D_3.2V	3	D_3.2V (8/8)
REG_GND	2	
XLENS_COVER_SENSE	1	XLENS_COVER_SENSE

REG_GND

TO AF-105 FLEXIBLE BOARD (PAGE 4-17 of LEVEL 2)

@17 (8/8)

@05 (2/8,3/8, 4/8,6/8)

@04 (2/8,3/8, 5/8)

@12 (3/8)

@15 (6/8)

LCD_CK_1

R749 0

R750 XX

R748 XX

IC702 XX

C718 XX

C717 XX

PANEL_2.9V

L701 10uH

IC701 R1114Q251D-TR-FA

CE, GND, VDD, VOUT

C701 4.7u 6.3V B

C706 0.1u

C707 10u 6.3V B

IC701 2.5V REG

ST_5V, BL_L, BL_H

L702 10uH

C716 22u 10V TA

C702 XX

C705 0.01u

XSAN_RST_OUT, SAN1_SO, XSAN1_SCK, XCS_EVF, XCS_PANEL

JL701

LCD_D0 … LCD_D7, LCD_HD, LCD_VD, LCD_CK

FB701 0uH

LCD_CK_1

KEY_AD0, KEY_AD1, XACCESS_LED

MODE_DIAL0, MODE_DIAL1, JOG_A, JOG_B, XAE_LOCK_SW, KEY_AD2, XSHUTTER_SW, XPWR_LED, MS_CLK, MS_D0, MS_D1, MS_D2, MS_D3, MS_BS, STRB_CHG, XSTRB_FULL, STRB_CHG_CONT, STRB_ON, XSTRB_POPUP, XLENS_COVER_SENSE, P_ADJ

PANEL_8.5V, XKEY_BONO

R747 0

CN703 22P

22	2.5V	
21	GND	
20	NRESET	
19	CLOCK	XSAN_RST_OUT
18	HSYNC	LCD_HD
17	VSYNC	LCD_VD
16	VALID	
15	DATA0	LCD_D0
14	DATA1	LCD_D1
13	DATA2	LCD_D2
12	DATA3	LCD_D3
11	LED5V	
10	DARA4	LCD_D4
9	DATA5	LCD_D5
8	DATA6	LCD_D6
7	DATA7	LCD_D7
6	SDAT	SAN1_SO
5	NC	
4	SCLK	XSAN1_SCK
3	SEN	
2	GND	
1	5.0V	

LCD9002 EVF UNIT

CN702 33P

33	BL_L	
32	BL_L	
31	BL_H	
30	BL_H	
29	NC	
28	XSANN_RST_OUT	XSAN_RST_OUT
27	XCS_PNAEL	
26	REG_GND	
25	SAN1_SO	SAN1_SO
24	XSAN1_SCK	XSAN1_SCK
23	REG_GND	
22	LCD_HD	LCD_HD
21	LCD_VD	LCD_VD
20	REG_GND	
19	REG_GND	
18	LCD_CK	LCD_CK_1
17	REG_GND	
16	REG_GND	
15	LCD_D6	LCD_D6
14	LCD_D7	LCD_D7
13	LCD_D4	LCD_D4
12	LCD_D5	LCD_D5
11	LCD_D2	LCD_D2
10	LCD_D3	LCD_D3
9	REG_GND	
8	KEY_AD0	
7	KEY_AD1	
6	D_3.2V	
5	REG_GND	
4	PANEL_8.5V	
3	REG_GND	
2	REG_GND	
1	XACCESS_LED	

TO SW-478 FLEXIBLE BOARD (PAGE 4-20 of LEVEL 2)

• Refer to page 4-3 for mark ⚠.

SY-150 BOARD(8/8)

DC/DC CONVERTER

XX MARK:NO MOUNT

▲:Voltage measurement of the CSP IC and the Transistors with ▲ mark,is not possible.

NO MARK:REC/PB MODE
R :REC MODE
P :PB MODE

BT9001 BATTERY TERMINAL
CN001 4P
UNREG 1
UNREG 2
REG_GND 3
REG_GND 4
C001 XX
C002 XX
F002 2A 36V
FB001 0uH
REG_GND
LND001 STATIC_GND
R072 0
F001 2A 36V
(6/8,7/8) ST_UNREG
R002 470
D001 MA2SD32008S0
BT001 (LITHIUM BATTERY) (SECONDARY)
R001 33
C003 1u 10V
C004 0.22u 10V B
C005 0.22u 10V
R043 XX
C006 10u 10V C
C014 10u 6.3V
C049 22u 6.3V C
L001 10uH
C017 22u 6.3V A TA
L011 10uH
C015 22u 6.3V
C016 22u 6.3V
L004 4.7uH
C021 1u 16V B
C022 XX
C027 10u 6.3V
MS_PWR_ON
R011 XX
R057 0

IC001
DC/DC CONVERTER
▲ IC001
SC901571VOR2
CSP(CHIP SIZE PACKAGE)IC

XCS_DD
XSAN0_SCK
SAN0_SO
SAN0_SI
XDD_RST_OUT
XPWR_OFF
XPWR_ON
XPLAY_SW
C012 XX
JL001
C064 XX
X001 32.768kHz
C010 10p CH
C011 12p CH 50V
R005 10M
R004 330k

PG8
UNREG1-1
UNREG1-2
C8L2
C8L1
C8H1
C8H2
VO8
VO7
C7H2
C7H1
C7L2
C7L1
PG7
CE
SCLK
SI
SO
XRESET
XPWROFF
XPWRON1
XPWRON2
RTCBAT
OSCI
OSCO

LDO1 VFB1 MS_PWR MS_PWR_IN VO1-2 VO1-1 LH1-4 LH1-3 LH1-2 LH1-1 PG1-5 PG1-4 PG1-3 PG1-2 PG1-1 LL1-2 LL1-1 PWR1-3 PWR1-2 PWR1-1 DTG1 MS_PWR_ON REG1F1 LDO3IN LDO3

TEST
LDO2IN
LDO2
PORTB
PORTA
LED1
PGLED
IREF
VREF
VDADJ
UNREGMON
PWR56OUT2
PWR56OUT1
UNREG2-2
UNREG2-1
GT6
VREF6
VFB6
REG4F2
PG5-2
PG5-1
LX5-4
LX5-3
LX5-2
LX5-1

C028 1u 10V
C029 10u 6.3V
R018 100k ± 0.5%
C030 XX
C056 XX
R058 XX
R068 10k
C063 0.047u 10V B
R059 1M
C033 1u 10V
R032 10
C054 XX
R023 47k
R016 10k
R017 0
C051 XX
L006 4.7uH
C031 4.7u 25V C
C038 1u 10V B
L009 4.7uH
D003 MA2SD32008S0
Q004 CPH5802-TL-E-S SWITCHING
R076 0
R074 0
C040 4.7u 16V
R075 0
C053 XX

VEE
REG2
VCC
REG1
IC002 XX
CTL2
STB
GND
CTL1
R060 XX
C052 XX
R061 XX
R062 XX
R063 XX
R064 XX

XMSIN AGND AGND DGND VBUSIN REG1F2 VFB2 PG2 LX2 PWR2 REG2F1 PG3 LX3 VO3 VL3 RS3 REG2F2 VFB4 PSG4 TG4 LX4 BG4 VFB5 VO5 REG4F1

C065 XX
R020 1M ± 0.5%
C034 0.022u 16V B
C018 10u 6.3V
L003 4.7uH
R012 0
C023 100u 16V B
C022 10u 16V B
L005 4.7uH
D002 MA2S32008S0
R013 10
C020 1u B 10V
R044 XX
F003 0.63A 32V
C025 1u 25V
L008 4.7uH
C035 1u 10V
D007 XX
D006 XX
C055 0.47u 35V
R029 33
Q002 CPH5812-S-TL-E
R030 10
Q001 MCH3405-TL-E
R031 100k
C057 0.1u 10V
C036 10u 6.3V
Q003 MTM231230LSO
Q001.002.003 5V REG

MS_VCC (7/8)
D_3.2V (1/8,3/8, 4/8,6/8,7/8)
CAM_3.2V (2/8,5/8)
R046 XX
SP_3.2V (NOT USE)
A_3.2V (1/8,3/8, 5/8,6/8,7/8)
CAM_2.9V (2/8)
PANEL_2.9V (7/8)
D_1.8V (4/8)
SAN0_SI
XSAN0_SCK
SAN0_SO
@07 (3/8,6/8)
XCS_DD
EVER_SRAM
BATT_SENS
XDD_RST_OUT
XPWR_OFF
MS_PWR_ON
@08 (3/8)
XMS_IN
XPLAY_SW
XPWR_ON
XAF_LED
@17 (7/8)
USB_VBUS
@14 (5/8)
PANEL_8.5V_ON
M_5V_ON
@16 (6/8)
CAM_-7.5V (2/8)
-7.5V_ON (NOT USE)
CAM_15V (2/8)
ST_5V (2/8,5/8,6/8,7/8)
M_5V (1/8)
REG_GND
REG_GND
BL_L
BL_H
(7/8)
D_1.2V (3/8)

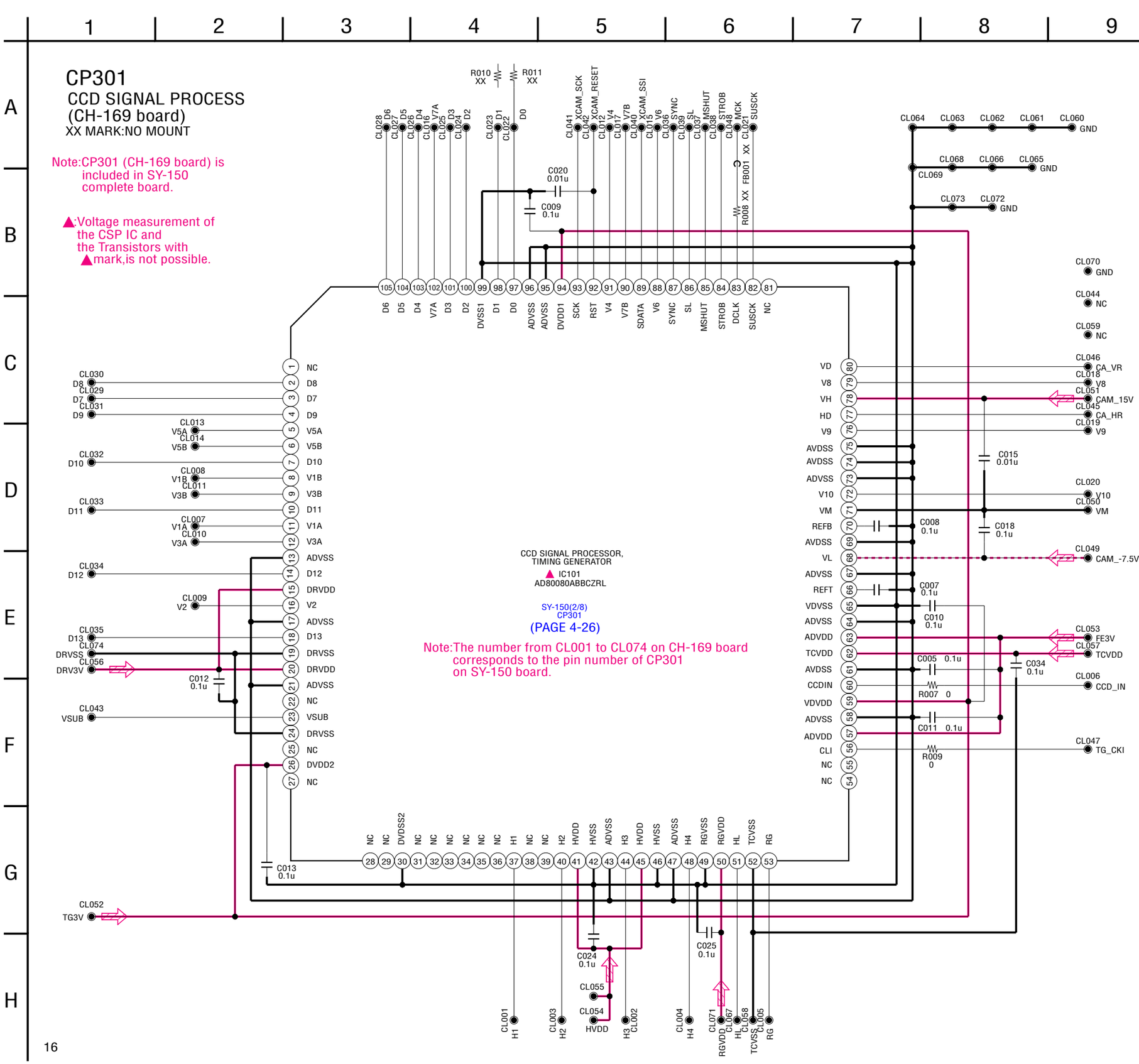
CP301

CCD SIGNAL PROCESS (CH-169 board)

XX MARK:NO MOUNT

Note:CP301 (CH-169 board) is included in SY-150 complete board.

▲:Voltage measurement of the CSP IC and the Transistors with ▲mark,is not possible.



4-3. PRINTED WIRING BOARDS

Link

- SY-150 BOARD (SIDE A)
- SY-150 BOARD (SIDE B)
- CH-169 BOARD
- COMMON NOTE FOR PRINTED WIRING BOARDS
- MOUNTED PARTS LOCATION

4-3. PRINTED WIRING BOARDS

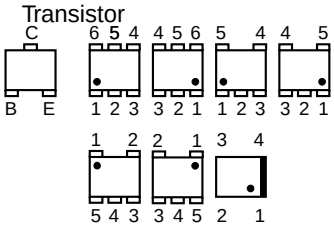
THIS NOTE IS COMMON FOR WIRING BOARDS
(In addition to this, the necessary note is printed in each block)

(For printed wiring boards)

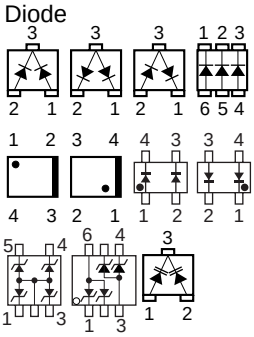
- : Uses unleaded solder.
- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- : panel designation

- Chip parts.

Transistor



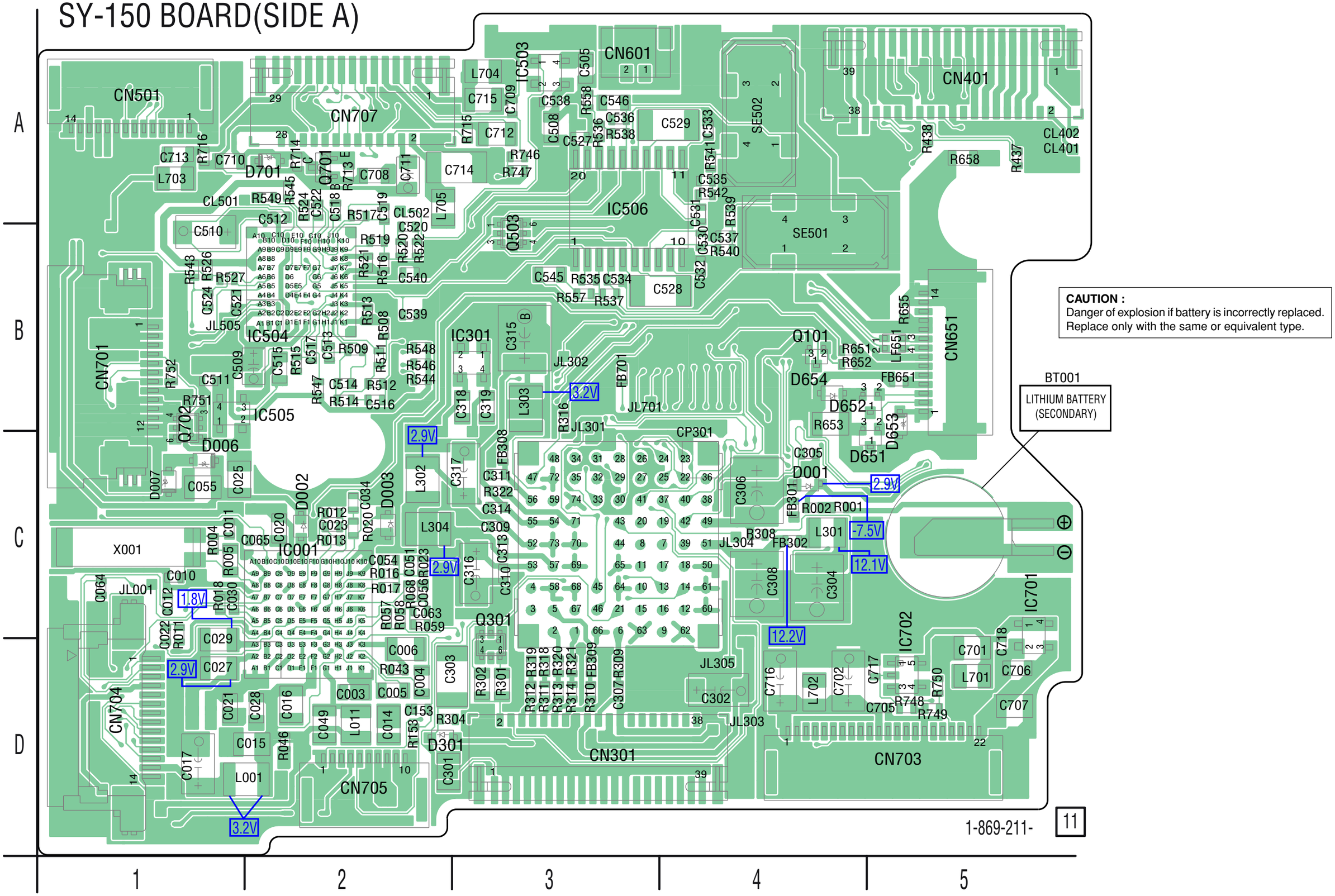
Diode



SY-150 (8 layers) • : Uses unleaded solder.

Note:CP301(CH-169 board) is not included in this COMPLETE of SY-150 board.

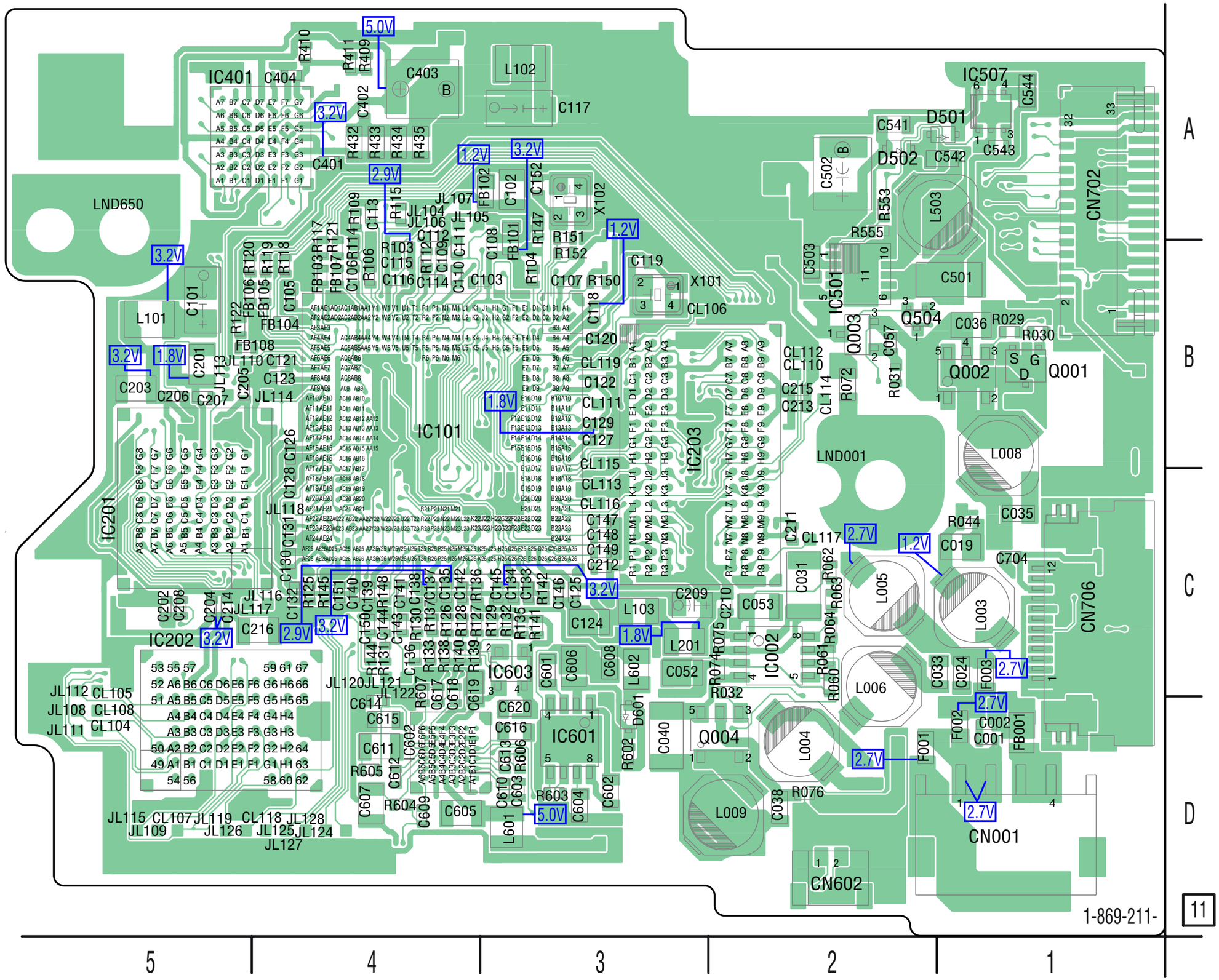
SY-150 BOARD(SIDE A)



DSC-H2_L3

SY-150 (8 layers) • : Uses unleaded solder.

SY-150 BOARD(SIDE B)

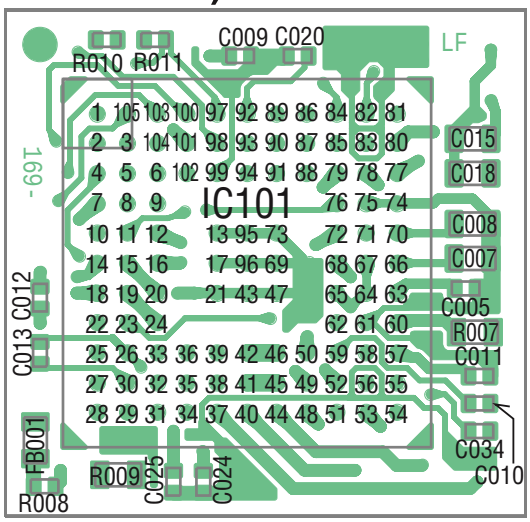


CH-169 (8 layers)

- : Uses unleaded solder.

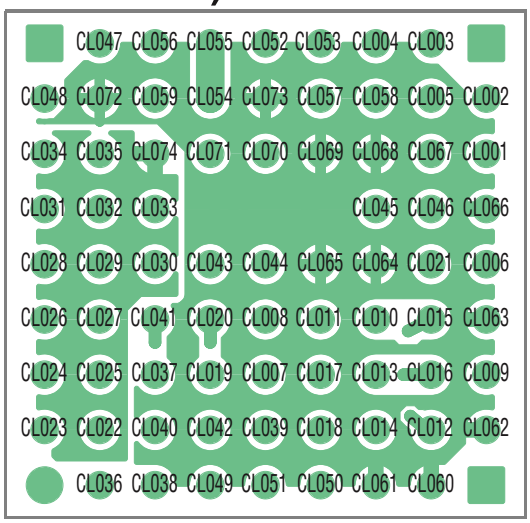
Note: CP301 (CH-169 board) is included in SY-150 complete board.

CP301 (CH-169 board) (SIDE A)



1-865-271- 11

(SIDE B)



1-865-271- 11

4-4. MOUNTED PARTS LOCATION

no mark : side A
* mark : side B

SY-150 BOARD

* C001	D-1	* C144	C-4	* C543	A-1	D301	D-2	* L003	C-1	* R122	B-5	R557	B-3		
* C002	D-1	* C145	C-3	* C544	A-1	* D501	A-1	* L004	D-2	* R125	C-4	R558	A-3		
C003	D-2	* C146	C-3	C545	B-3	* D502	A-2	* L005	C-2	* R126	C-4	* R602	D-3		
C004	D-2	* C147	C-3	C546	A-3	* D601	D-3	* L006	C-2	* R127	C-4	* R603	D-3		
C005	D-2	* C148	C-3	* C601	C-3	D651	C-4	* L008	B-1	* R128	C-4	* R604	D-4		
C006	D-2	* C149	C-3	* C602	D-3	D652	B-4	* L009	D-2	* R129	C-3	* R605	D-4		
C010	C-1	* C150	C-4	* C603	D-3	D653	B-5	L011	D-2	* R130	C-4	* R606	D-3		
C011	C-1	* C151	C-4	* C604	D-3	D654	B-4	* L101	B-5	* R131	C-4	* R607	C-4		
C012	C-1	* C152	A-3	* C605	D-4	D701	A-2	* L102	A-3	* R132	C-3	R651	B-4		
C014	D-2	C153	D-2	* C606	C-3			* L103	C-3	* R133	C-4	R652	B-4		
C015	D-2	* C201	B-5	* C607	D-4	* F001	D-2	* L201	C-3	* R135	C-3	R653	B-4		
C016	D-2	* C202	C-5	* C608	C-3	* F002	D-1	L301	C-4	* R136	C-4	R655	B-5		
C017	D-1	* C203	B-5	* C609	D-4	* F003	C-1	L302	C-2	* R137	C-4	R658	A-5		
* C019	C-1	* C204	C-5	* C610	D-3			L303	B-3	* R138	C-4	R713	A-2		
C020	C-2	* C205	B-5	* C611	D-4	* FB001	D-1	L304	C-2	* R139	C-4	R714	A-2		
C021	D-1	* C206	B-5	* C612	D-4	* FB101	A-3	* L503	A-2	* R140	C-4	R715	A-3		
C022	C-1	* C207	B-5	* C613	D-3	* FB102	A-3	* L601	D-3	* R141	C-3	R716	A-1		
C023	C-2	* C208	C-5	* C614	D-4	* FB103	B-4	* L602	C-3	* R142	C-3	R746	A-3		
* C024	C-1	* C209	C-3	* C615	D-4	* FB104	B-4	L701	D-5	* R144	C-4	R747	A-3		
C025	C-1	* C210	C-2	* C616	D-3	* FB105	B-4	L702	D-4	* R145	C-4	R748	D-5		
C027	D-1	* C211	C-2	* C617	C-4	* FB106	B-4	L703	A-1	* R147	A-3	R749	D-5		
C028	D-2	* C212	C-3	* C618	C-4	* FB107	B-4	L704	A-3	* R148	C-4	R750	D-5		
C029	C-1	* C213	B-2	* C619	C-4	* FB108	B-4	L705	A-2	* R150	B-3	R751	B-1		
C030	C-1	* C214	C-5	* C620	D-3	FB301	C-4			* R151	A-3	R752	B-1		
* C031	C-2	* C215	B-2	C701	D-5	FB302	C-4	LF651	B-5	* R152	B-3				
* C033	C-2	* C216	C-4	C702	D-4	FB308	C-3			R153	D-2	SE501	B-4		
C034	C-2	C301	D-2	* C704	C-1	FB309	D-3	* LND001	B-2	R301	D-3	SE502	A-4		
* C035	C-1	C302	D-4	C705	D-5	FB651	B-5	* LND650	A-5	R302	D-3				
* C036	B-1	C303	D-2	C706	D-5	FB701	B-3			R304	D-2	X001	C-1		
* C038	D-2	C304	C-4	C707	D-5			* Q001	B-1	R308	C-4	* X101	B-3		
* C040	D-3	C305	C-4	C708	A-2	IC001	C-2	* Q002	B-1	R309	D-3	* X102	A-3		
C049	D-2	C306	C-4	C709	A-3	* IC002	C-2	* Q003	B-2	R310	D-3				
C051	C-2	C307	D-3	C710	A-1	* IC101	B-4	* Q004	D-2	R311	D-3				
* C052	C-3	C308	C-4	C711	A-2	* IC201	C-5	Q101	B-4	R312	D-3				
* C053	C-2	C309	C-3	C712	A-3	* IC202	C-5	Q301	C-3	R313	D-3				
C054	C-2	C310	C-3	C713	A-1	* IC203	B-3	Q503	B-3	R314	D-3				
C055	C-1	C311	C-3	C714	A-3	IC301	B-3	* Q504	B-2	R316	B-3				
C056	C-2	C313	C-3	C715	A-3	* IC401	A-5	Q701	A-2	R318	D-3				
* C057	B-2	C314	C-3	C716	D-4	* IC501	B-2	Q702	B-1	R319	D-3				
C063	C-2	C315	B-3	C717	D-5	IC503	A-3			R320	D-3				
C064	C-1	C316	C-3	C718	D-5	IC504	B-2	R001	C-4	R321	D-3				
C065	C-2	C317	C-3			IC505	B-2	R002	C-4	R322	C-3				
* C101	B-5	C318	B-3	* CL104	D-5	IC506	A-3	R004	C-1	* R409	A-4				
* C102	A-3	C319	B-3	* CL105	C-5	* IC507	A-1	R005	C-1	* R410	A-4				
* C103	B-3	* C401	A-4	* CL106	B-3	* IC601	D-3	R011	C-1	* R411	A-4				
* C105	B-4	* C402	A-4	* CL107	D-5	* IC602	D-4	R012	C-2	* R432	A-4				
* C106	B-4	* C403	A-4	* CL108	D-5	* IC603	C-3	R013	C-2	* R433	A-4				
* C107	B-3	* C404	A-4	* CL110	B-2	IC701	C-5	R016	C-2	* R434	A-4				
* C108	A-3	* C501	B-1	* CL111	B-3	IC702	C-5	R017	C-2	* R435	A-4				
* C109	B-4	* C502	A-2	* CL112	B-2			R018	C-1	R437	A-5				
* C110	B-4	* C503	B-2	* CL113	C-3	JL001	C-1	R020	C-2	R438	A-5				
* C111	A-4	C505	A-3	* CL114	B-2	* JL104	A-4	R023	C-2	R508	B-2				
* C112	A-4	C508	A-3	* CL115	B-3	* JL105	A-4	* R029	B-1	R509	B-2				
* C113	A-4	C509	B-1	* CL116	C-3	* JL106	A-4	* R030	B-1	R511	B-2				
* C114	B-4	C510	B-1	* CL117	C-2	* JL107	A-4	* R031	B-2	R512	B-2				
* C115	B-4	C511	B-1	* CL118	D-4	* JL108	D-5	* R032	C-2	R513	B-2				
* C116	B-4	C512	A-2	* CL119	B-3	* JL109	D-5	R043	D-2	R514	B-2				
* C117	A-3	C513	B-2	CL401	A-5	* JL110	B-4	* R044	C-1	R515	B-2				
* C118	B-3	C514	B-2	CL402	A-5	* JL111	D-5	R046	D-2	R516	B-2				
* C119	B-3	C515	B-2	CL501	A-1	* JL112	C-5	R057	C-2	R517	A-2				
* C120	B-3	C516	B-2	CL502	A-2	* JL113	B-5	R058	C-2	R519	B-2				
* C121	B-4	C517	B-2			* JL114	B-4	R059	C-2	R520	B-2				
* C122	B-3	C518	A-2	* CN001	D-1	* JL115	D-5	* R060	C-2	R521	B-2				
* C123	B-4	C519	A-2	CN301	D-3	* JL116	C-4	* R061	C-2	R522	B-2				
* C124	C-3	C520	B-2	CN401	A-5	* JL117	C-4	* R062	C-2	R524	A-2				
* C125	C-3	C521	B-1	CN501	A-1	* JL118	C-4	* R063	C-2	R526	B-1				
* C126	B-4	C522	A-2	CN601	A-3	* JL119	D-5	* R064	C-2	R527	B-1				
* C127	B-3	C524	B-1	* CN602	D-2	* JL120	C-4	R068	C-2	R535	B-3				
* C128	C-4	C527	A-3	CN651	B-5	* JL121	C-4	* R072	B-2	R536	A-3				
* C129	B-3	C528	B-4	CN701	B-1	* JL122	C-4	* R074	C-2	R537	B-3				
* C130	C-4	C529	A-4	* CN702	A-1	* JL124	D-4	* R075	C-2	R538	A-3				
* C131	C-4	C530	B-4	CN703	D-5	* JL125	D-4	* R076	D-2	R539	A-4				
* C132	C-4	C531	A-4	CN704	D-1	* JL126	D-5	* R103	B-4	R540	B-4				
* C133	C-3	C532	B-4	CN705	D-2	* JL127	D-4	* R104	B-3	R541	A-4				
* C134	C-3	C533	A-4	* CN706	C-1	* JL128	D-4	* R106	B-4	R542	A-4				
* C135	C-4	C534	B-3	CN707	A-2	JL301	B-3	* R109	A-4	R543	B-1				
* C136	C-4	C535	A-4			JL302	B-3	* R112	B-4	R544	B-2				
* C137	C-4	C536	A-3	CP301	B-4	JL303	D-4	* R114	A-4	R545	A-2				
* C138	C-4	C537	B-4			JL304	C-4	* R115	A-4	R546	B-2				
* C139	C-4	C538	A-3	D001	C-4	JL305	D-4	* R117	A-4	R547	B-2				
* C140	C-4	C539	B-2	D002	C-2	JL505	B-1	* R118	B-4	R548	B-2				
* C141	C-4	C540	B-2	D003	C-2	JL701	B-3	* R119	B-4	R549	A-2				
* C142	C-4	* C541	A-2	D006	C-1			* R120	B-4	* R553	A-2				
* C143	C-4	* C542	A-1	D007	C-1	L001	D-2	* R121	A-4	* R555	A-2				

5. REPAIR PARTS LIST

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Language that can be selected about SY-150 board

	Area	English	French	German	Spanish	Italian	Portugal	Simplified Chinese	Traditional Chinese	Arabic	Dutch	Russian	Swedish	Korean	Norwegian	Danish	Finnish	Polish	Hungarian	Czech	Persian	Thai
GP2	US CND AUS Vietnam	●	●		●	●		●	●													
GP3	AEP UK	●	●	●	●	●	●				●	●	●		●	●	●	●	●	●		
GP4	E AR JE HK CH KR	●			●		●	●	●	●				●							●	●

- Abbreviation
  AR : Argentine model
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  HK : Hong Kong model
  JE : Tourist model
  KR : Korea model

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description			
	A-1176-916-A	SY-150 BOARD, COMPLETE (SERVICE)(GP2)			
	A-1176-917-A	SY-150 BOARD, COMPLETE (SERVICE)(GP3)			
	A-1176-918-A	SY-150 BOARD, COMPLETE (SERVICE)(GP4)			
		************************************			
	(Refer to the table of page 5-1 about language of SY-150 board.)				
	(This complete board is including CP301(CH-169 board).)				
CP301	A-1106-355-A	CH-169 BOARD, COMPLETE			
		< BATTERY >			
⚠ BT001	1-756-539-21	BATTERY, LITHIUM SECONDARY			
		< CAPACITOR >			
C003	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C004	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C005	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C006	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C010	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C011	1-164-852-11	CERAMIC CHIP	12PF	5%	50V
C014	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C015	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C016	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C017	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V
C019	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C020	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
* C021	1-112-298-91	CERAMIC CHIP	1uF	10%	16V
C023	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C024	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C025	1-100-591-91	CERAMIC CHIP	1uF	10%	25V
C027	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C028	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C029	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C031	1-100-671-11	CERAMIC CHIP	4.7uF	20%	25V
C033	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C034	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C035	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C036	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C038	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C040	1-127-820-11	CERAMIC CHIP	4.7uF	10%	16V
C049	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C055	1-100-591-91	CERAMIC CHIP	1uF	10%	25V
C057	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C063	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C101	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V
C102	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C103	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C105	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C106	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C107	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C108	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C109	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C110	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C111	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C114	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C115	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C116	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C117	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V
C118	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V

Ref. No.	Part No.	Description			
C119	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C120	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C121	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C122	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C123	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C125	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C126	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C127	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C128	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C129	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C130	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C131	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C132	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C133	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C134	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C135	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C136	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C137	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C138	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C139	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C140	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C142	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C145	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C149	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C150	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C151	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C152	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C153	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C203	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C204	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C205	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C206	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C207	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C208	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C209	1-100-786-91	TANTAL. CHIP	22uF	20%	6.3V
C210	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C211	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C212	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C213	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C214	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C301	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C302	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C303	1-137-988-91	CERAMIC CHIP	1uF	10%	35V
C304	1-113-992-11	TANTAL. CHIP	3.3uF	20%	35V
C306	1-119-751-11	TANTAL. CHIP	22uF	20%	16V
C307	1-100-505-91	CERAMIC CHIP	0.1uF	20%	16V
C308	1-113-992-11	TANTAL. CHIP	3.3uF	20%	35V
C314	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C315	1-128-964-91	TANTAL. CHIP	100uF	20%	6.3V
C316	1-100-539-91	TANTAL. CHIP	47uF	20%	6.3V
C317	1-100-539-91	TANTAL. CHIP	47uF	20%	6.3V
C318	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C319	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C401	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C402	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V

Ref. No.	Part No.	Description			
C403	1-100-663-11	TANTAL. CHIP	22uF	20%	10V
C501	1-165-875-11	CERAMIC CHIP	10uF	10%	10V
C502	1-135-993-11	TANTAL. CHIP	33uF	20%	10V
C503	1-165-884-91	CERAMIC CHIP	2.2uF	10%	6.3V
C505	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C508	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C510	1-165-897-11	TANTAL. CHIP	22uF	20%	10V
C511	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C512	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C513	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C514	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C515	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C517	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C518	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C522	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C527	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C528	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V
C529	1-100-159-91	CERAMIC CHIP	22uF	10%	6.3V
C530	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C531	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C532	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C533	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C534	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C535	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C536	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C537	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C538	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C541	1-165-884-91	CERAMIC CHIP	2.2uF	10%	6.3V
C542	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C543	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C544	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C545	1-128-934-61	CERAMIC CHIP	0.33uF	10%	10V
C546	1-128-934-61	CERAMIC CHIP	0.33uF	10%	10V
C601	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C602	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C603	1-100-415-11	CERAMIC CHIP	0.47uF	10%	6.3V
C604	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C605	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C606	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C607	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C608	1-100-352-91	CERAMIC CHIP	1uF	20%	16V
C609	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C610	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C611	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C612	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C613	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C614	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C615	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C616	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C617	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C618	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C619	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C620	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C701	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V

Ref. No.	Part No.	Description			
C704	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C705	1-164-943-81	CERAMIC CHIP	0.01uF	10%	16V
C706	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C707	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C716	1-165-897-11	TANTAL. CHIP	22uF	20%	10V
		< CONNECTOR >			
CN001	1-580-057-11	PIN, CONNECTOR (SMD) 4P			
* CN301	1-816-057-51	CONNECTOR, FPC (ZIF) 39P			
* CN401	1-816-057-51	CONNECTOR, FPC (ZIF) 39P			
* CN501	1-816-645-51	FFC/FPC CONNECTOR (LIF) 14P			
CN601	1-794-375-21	PIN, CONNECTOR 2P			
CN602	1-794-375-21	PIN, CONNECTOR 2P			
* CN651	1-816-645-51	FFC/FPC CONNECTOR (LIF) 14P			
CN701	1-819-254-51	CONNECTOR, FFC/FPC (ZIF) 12P			
* CN702	1-815-333-51	CONNECTOR, FPC (ZIF) 33P			
* CN703	1-816-649-51	FFC/FPC CONNECTOR (LIF) 22P			
* CN704	1-819-257-51	CONNECTOR, FFC/FPC (ZIF) 14P			
* CN705	1-816-643-51	FFC/FPC CONNECTOR (LIF) 10P			
CN706	1-819-254-51	CONNECTOR, FFC/FPC (ZIF) 12P			
		< DIODE >			
D001	6-500-813-01	DIODE MA2SD32008S0			
D002	6-500-813-01	DIODE MA2SD32008S0			
D003	6-500-813-01	DIODE MA2SD32008S0			
D301	8-719-056-23	DIODE MA2S111-(K8).SO			
D501	6-500-813-01	DIODE MA2SD32008S0			
D502	6-500-813-01	DIODE MA2SD32008S0			
D601	8-719-056-23	DIODE MA2S111-(K8).SO			
D651	6-500-776-01	DIODE MAZW068H0LS0			
D652	6-500-776-01	DIODE MAZW068H0LS0			
D653	8-719-056-54	DIODE MAZS068008S0			
D654	8-719-056-23	DIODE MA2S111-(K8).SO			
		< FUSE >			
⚠ F001	1-576-416-21	FUSE (2A/36V)			
⚠ F002	1-576-416-21	FUSE (2A/36V)			
⚠ F003	1-576-570-21	FUSE, MICRO (1608 TYPE)(0.63A/32V)			
		< FERRITE BEAD >			
FB001	1-469-324-21	INDUCTOR (EMI FERRITE) (2012)			
FB101	1-500-284-21	INDUCTOR, FERRITE BEAD			
FB102	1-216-864-11	SHORT CHIP 0 (Note2)			
FB103	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
FB104	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
FB105	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
FB106	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
FB107	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
FB108	1-469-581-21	INDUCTOR, FERRITE BEAD (1005)			
FB301	1-469-082-21	INDUCTOR, FERRITE BEAD (1005)			
FB302	1-469-082-21	INDUCTOR, FERRITE BEAD (1005)			
FB308	1-400-331-11	FERRITE, EMI (SMD) (1005)			
FB309	1-218-990-81	SHORT CHIP 0 (Note2)			
FB651	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)			
FB701	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)			

Note 2 :
SHORT CHIP is mounted to the location where FB102 and FB309 are printed.

Ref. No.	Part No.	Description			
		< IC >			
* IC001	6-709-120-01	IC SC901571VOR2			
IC101	8-753-239-15	IC CXD3188AGG-T6			
IC201	Not supplied	IC PH28F320W30TD70-A01 (Note1)			
* IC202	6-709-151-01	IC KFG5616U1A-DIB5T (Note2)			
* IC203	6-708-803-01	IC K4M56323PG-HG75T			
IC301	6-703-977-01	IC R1114Q331D-TR-FA			
IC401	6-708-988-01	IC LV8053LG-TLM-E			
IC501	6-707-643-01	IC TPS61027DRCR			
* IC503	6-708-445-01	IC R1114Q291D-TR-FA			
* IC504	6-709-026-01	IC R2J30500LG			
* IC505	6-708-457-01	IC R1114Q151D-TR-FA			
IC506	8-759-489-19	IC uPC6756GR-8JG-E2			
* IC507	6-709-332-01	IC TK70685HCL-G			
* IC601	6-708-096-01	IC NJW1330RB1 (TE2)			
IC602	6-707-336-01	IC BH6414GLU-E2			
* IC603	6-708-445-01	IC R1114Q291D-TR-FA			
* IC701	6-708-464-01	IC R1114Q251D-TR-FA			
		< COIL >			
L001	1-469-967-21	INDUCTOR	10uH		
L003	1-456-995-22	INDUCTOR	4.7uH		
L004	1-456-995-22	INDUCTOR	4.7uH		
L005	1-456-995-22	INDUCTOR	4.7uH		
L006	1-456-995-22	INDUCTOR	4.7uH		
L008	1-456-995-22	INDUCTOR	4.7uH		
L009	1-456-995-22	INDUCTOR	4.7uH		
L011	1-469-555-21	INDUCTOR	10uH		
L101	1-469-967-21	INDUCTOR	10uH		
L102	1-469-967-21	INDUCTOR	10uH		
L201	1-400-588-11	INDUCTOR	10uH		
L301	1-469-561-21	INDUCTOR	100uH		
L302	1-469-967-21	INDUCTOR	10uH		
L303	1-400-317-21	INDUCTOR	100uH		
L304	1-469-967-21	INDUCTOR	10uH		
L503	1-456-995-22	INDUCTOR	4.7uH		
L601	1-469-555-21	INDUCTOR	10uH		
L602	1-400-588-11	INDUCTOR	10uH		
L701	1-412-006-31	INDUCTOR	10uH		
L702	1-412-006-31	INDUCTOR	10uH		
		< LINE FILTER >			
LF651	1-456-583-11	COMMON MODE CHOKE COIL			
		< TRANSISTOR >			
Q001	8-729-056-01	TRANSISTOR	MCH3405-TL-E		
Q002	6-550-351-01	TRANSISTOR	CPH5812-S-TL-E		
Q003	6-551-304-01	TRANSISTOR	MTM231230LSO		
Q004	8-729-053-76	TRANSISTOR	CPH5802-TL-E-S		
Q301	8-729-053-58	TRANSISTOR	RN1904FE (TPLR3)		
Q503	6-550-094-01	TRANSISTOR	EMH2-T2R		
Q504	6-550-239-01	TRANSISTOR	DTA144EMT2L		

Note 1 :
A service for IC201 is not available because an adjustment is required before replacement.

Ref. No.	Part No.	Description			
		< RESISTOR >			
R001	1-218-935-11	RES-CHIP	33	5%	1/16W
R002	1-218-949-11	RES-CHIP	470	5%	1/16W
R004	1-218-983-11	RES-CHIP	330K	5%	1/16W
R005	1-219-570-11	METAL CHIP	10M	5%	1/10W
R007	1-218-990-81	SHORT CHIP	0		
R009	1-218-990-81	SHORT CHIP	0		
R012	1-218-990-81	SHORT CHIP	0		
R013	1-208-635-11	METAL CHIP	10	0.5%	1/16W
R016	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R017	1-218-990-81	SHORT CHIP	0		
R018	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R020	1-218-989-11	RES-CHIP	1M	5%	1/16W
R023	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R029	1-218-935-11	RES-CHIP	33	5%	1/16W
R030	1-218-929-11	RES-CHIP	10	5%	1/16W
R031	1-218-977-11	RES-CHIP	100K	5%	1/16W
R032	1-218-929-11	RES-CHIP	10	5%	1/16W
R057	1-218-990-81	SHORT CHIP	0		
R059	1-218-989-11	RES-CHIP	1M	5%	1/16W
R068	1-218-965-11	RES-CHIP	10K	5%	1/16W
R072	1-216-864-11	SHORT CHIP	0		
R074	1-218-990-81	SHORT CHIP	0		
R075	1-218-990-81	SHORT CHIP	0		
R076	1-218-990-81	SHORT CHIP	0		
R103	1-218-990-81	SHORT CHIP	0		
R106	1-208-679-11	METAL CHIP	680	0.5%	1/16W
R109	1-218-973-11	RES-CHIP	47K	5%	1/16W
R112	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R114	1-218-985-11	RES-CHIP	470K	5%	1/16W
R115	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R117	1-218-941-81	RES-CHIP	100	5%	1/16W
R118	1-218-941-81	RES-CHIP	100	5%	1/16W
R119	1-218-941-81	RES-CHIP	100	5%	1/16W
R120	1-218-941-81	RES-CHIP	100	5%	1/16W
R121	1-218-939-11	RES-CHIP	68	5%	1/16W
R122	1-218-939-11	RES-CHIP	68	5%	1/16W
R125	1-218-965-11	RES-CHIP	10K	5%	1/16W
R126	1-218-965-11	RES-CHIP	10K	5%	1/16W
R127	1-218-965-11	RES-CHIP	10K	5%	1/16W
R128	1-218-965-11	RES-CHIP	10K	5%	1/16W
R129	1-218-965-11	RES-CHIP	10K	5%	1/16W
R130	1-218-965-11	RES-CHIP	10K	5%	1/16W
R131	1-218-965-11	RES-CHIP	10K	5%	1/16W
R132	1-218-965-11	RES-CHIP	10K	5%	1/16W
R133	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R135	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R136	1-218-973-11	RES-CHIP	47K	5%	1/16W
R137	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
R138	1-218-965-11	RES-CHIP	10K	5%	1/16W
R139	1-218-965-11	RES-CHIP	10K	5%	1/16W
R140	1-218-981-11	RES-CHIP	220K	5%	1/16W
R141	1-218-981-11	RES-CHIP	220K	5%	1/16W
R144	1-218-965-11	RES-CHIP	10K	5%	1/16W
R145	1-218-965-11	RES-CHIP	10K	5%	1/16W
R148	1-218-953-11	RES-CHIP	1K	5%	1/16W

Note 2:
When IC202 is replaced, formatting is required.
Execute formatting by referring to Supplement-1.

Ref. No.	Part No.	Description			
R151	1-218-990-81	SHORT CHIP	0		
R153	1-218-965-11	RES-CHIP	10K	5%	1/16W
R301	1-218-857-11	METAL CHIP	2.7K	0.5%	1/10W
R302	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R304	1-218-977-11	RES-CHIP	100K	5%	1/16W
R308	1-218-977-11	RES-CHIP	100K	5%	1/16W
R309	1-218-990-81	SHORT CHIP	0		
R310	1-218-935-11	RES-CHIP	33	5%	1/16W
R311	1-208-455-11	RES-CHIP	5.6	5%	1/16W
R312	1-208-455-11	RES-CHIP	5.6	5%	1/16W
R313	1-208-455-11	RES-CHIP	5.6	5%	1/16W
R314	1-208-455-11	RES-CHIP	5.6	5%	1/16W
R316	1-218-990-81	SHORT CHIP	0		
R318	1-218-990-81	SHORT CHIP	0		
R319	1-218-990-81	SHORT CHIP	0		
R320	1-218-990-81	SHORT CHIP	0		
R321	1-218-990-81	SHORT CHIP	0		
R409	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R410	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R411	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R432	1-211-969-11	METAL CHIP	10	0.5%	1/10W
R433	1-211-969-11	METAL CHIP	10	0.5%	1/10W
R434	1-211-969-11	METAL CHIP	10	0.5%	1/10W
R435	1-211-969-11	METAL CHIP	10	0.5%	1/10W
R437	1-218-948-11	RES-CHIP	390	5%	1/16W
R438	1-218-948-11	RES-CHIP	390	5%	1/16W
R509	1-208-721-11	METAL CHIP	39K	0.5%	1/16W
R511	1-218-970-11	RES-CHIP	27K	5%	1/16W
R512	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R513	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W
R515	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R517	1-208-721-11	METAL CHIP	39K	0.5%	1/16W
R519	1-218-970-11	RES-CHIP	27K	5%	1/16W
R520	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R521	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W
R524	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R526	1-218-965-11	RES-CHIP	10K	5%	1/16W
R527	1-218-990-81	SHORT CHIP	0		
R535	1-218-989-11	RES-CHIP	1M	5%	1/16W
R536	1-218-989-11	RES-CHIP	1M	5%	1/16W
R537	1-218-965-11	RES-CHIP	10K	5%	1/16W
R538	1-218-965-11	RES-CHIP	10K	5%	1/16W
R539	1-218-969-11	RES-CHIP	22K	5%	1/16W
R540	1-218-969-11	RES-CHIP	22K	5%	1/16W
R541	1-218-969-11	RES-CHIP	22K	5%	1/16W
R542	1-218-969-11	RES-CHIP	22K	5%	1/16W
R543	1-218-977-11	RES-CHIP	100K	5%	1/16W
R544	1-218-977-11	RES-CHIP	100K	5%	1/16W
R545	1-218-977-11	RES-CHIP	100K	5%	1/16W
R546	1-218-977-11	RES-CHIP	100K	5%	1/16W
R547	1-218-977-11	RES-CHIP	100K	5%	1/16W
R548	1-218-977-11	RES-CHIP	100K	5%	1/16W
R549	1-218-977-11	RES-CHIP	100K	5%	1/16W
R553	1-218-977-11	RES-CHIP	100K	5%	1/16W
R555	1-218-985-11	RES-CHIP	470K	5%	1/16W
R557	1-218-967-11	RES-CHIP	15K	5%	1/16W
R558	1-218-967-11	RES-CHIP	15K	5%	1/16W
R602	1-218-929-11	RES-CHIP	10	5%	1/16W
R603	1-218-939-11	RES-CHIP	68	5%	1/16W
R604	1-218-955-11	RES-CHIP	1.5K	5%	1/16W

Ref. No.	Part No.	Description			
R605	1-218-985-11	RES-CHIP	470K	5%	1/16W
R606	1-218-972-11	RES-CHIP	39K	5%	1/16W
R607	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R651	1-218-965-11	RES-CHIP	10K	5%	1/16W
R652	1-218-965-11	RES-CHIP	10K	5%	1/16W
R653	1-216-295-91	SHORT CHIP	0		
R658	1-216-864-11	SHORT CHIP	0		
R747	1-218-990-81	SHORT CHIP	0		
R749	1-218-990-81	SHORT CHIP	0		
		< SENSOR >			
* SE501	1-479-022-51	SENSOR, ANGULAR VELOCITY (PITCH)			
* SE502	1-479-022-61	SENSOR, ANGULAR VELOCITY (YAW)			
		< VIBRATOR >			
X001	1-767-994-23	VIBRATOR, CRYSTAL (32.768kHz)			
* X101	1-813-403-21	QUARTZ CRYSTAL OSCILLATOR (12MHz)			
* X102	1-813-712-21	QUARTZ CRYSTAL OSCILLATOR (33.75MHz)			

DSC-H2

SONY

LEVEL 3

SERVICE MANUAL

Ver. 1.1 2006. 07

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model
Argentina Model
Hong Kong Model
Korea Model
Tourist Model

SUPPLEMENT-1

File this supplement-1 with the service manual.
(DI06-030)

• Addition of formatting procedure after replacement of IC202

1. SERVICE NOTE

Page	Added contents
1-1E	**Formatting Procedure after Replacement of IC202** 1. Insert an MS (Memory Stick Duo) into the machine and turn ON the power. Connect the machine to SEUS while the message “Internal memory error” is being displayed. * Because the machine is in the error state, an MS is required to make the USB communication. 2. Select page: 90, address: 32 and set data: 01. 3. Remove the MS. * When the MS is removed, “Initial format” starts. The access LED lights for 3 to 5 seconds, and the error display changes to “Format error”. 4. Select and execute “Format” from the setup menu. (The access LED lights for 15 seconds.) 5. When the access LED lights off, it indicates that the formatting is completed. Confirm to see that the error indication has disappeared. Remove the SEUS connection and turn OFF the power.

DSC-H2

SONY

LEVEL 3

SERVICE MANUAL

Ver. 1.3 2006. 10

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model
Argentina Model
Hong Kong Model
Korea Model
Tourist Model

SUPPLEMENT-2

File this supplement-2 with the service manual.
(DI06-116)

- Change of boards suffix number (SY-150)
- Change of repair parts list

• Change of repair parts list

5. REPAIR PARTS LIST

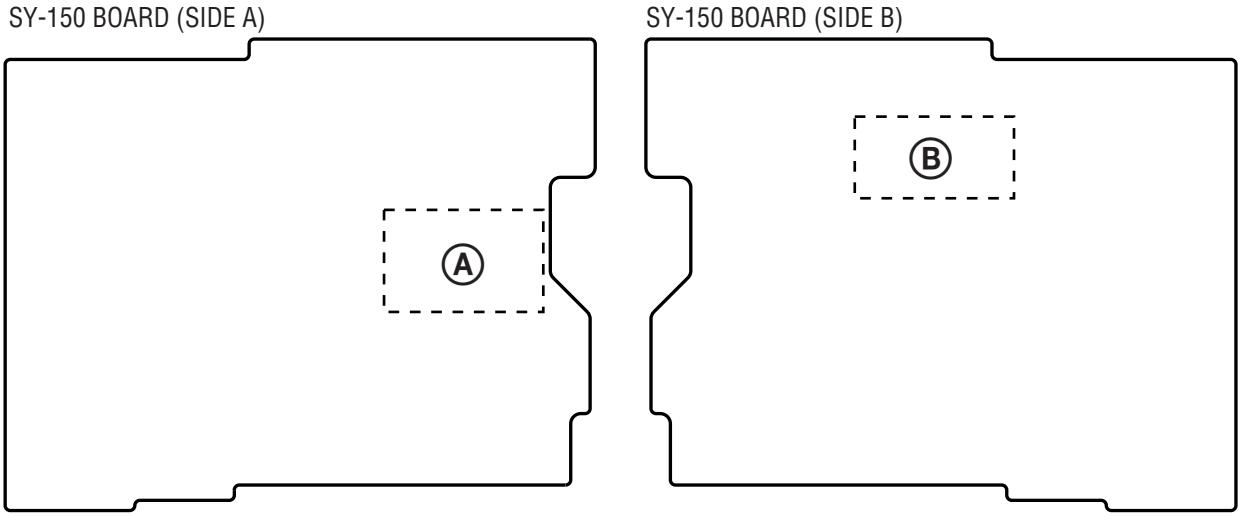
5-2. ELECTRICAL PARTS LIST

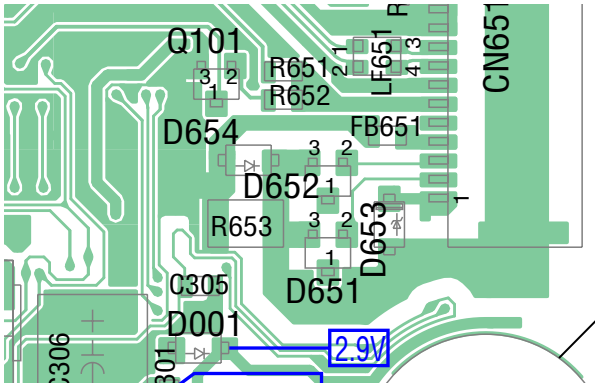
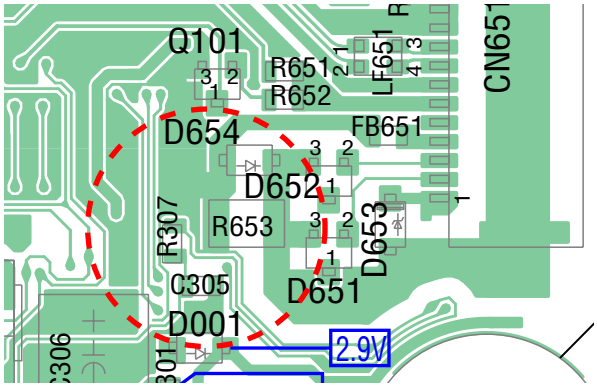
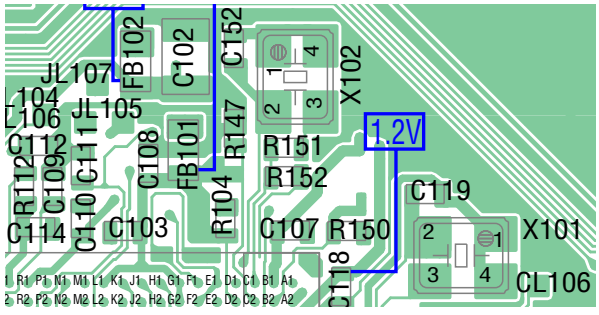
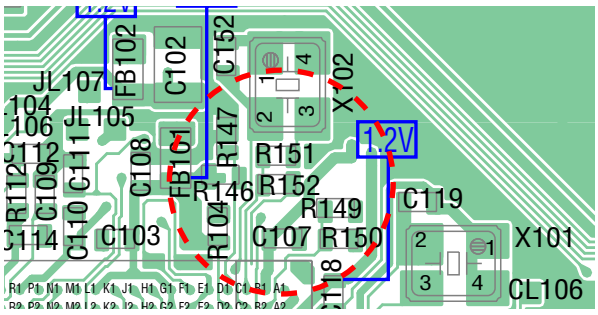
: Changed portion

Page	Before change			After change		
5-12	**SY-150 BOARD**					
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	⚠ BT001	1-756-539-21	BATTERY, LITHIUM SECONDARY	⚠ BT001	1-528-999-61	BATTERY, LITHIUM SECONDARY
5-13	FB651	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)	FB651	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
	FB701	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)	FB701	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)

Published by Kohda TEC

• **How to identify and difference points of the printed wiring boards (SY-150 BOARD)**



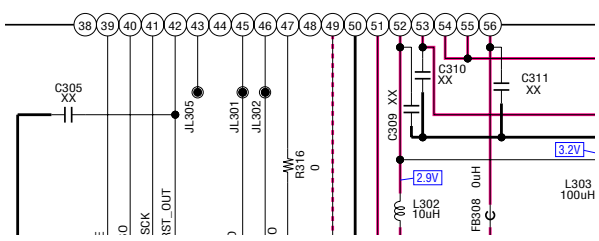
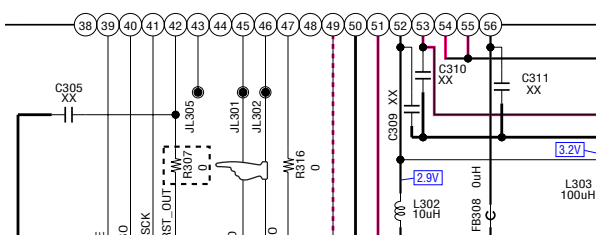
	Suffix -11	Suffix -21
Ⓐ		
Ⓑ		

• **Change of boards suffix number (SY-150)**

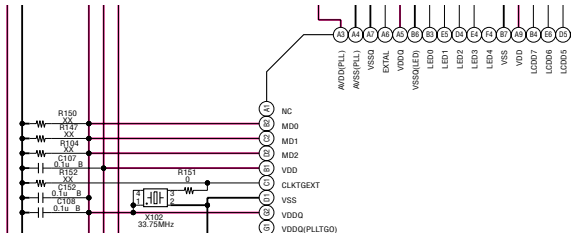
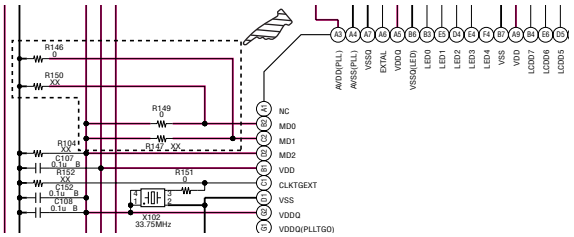
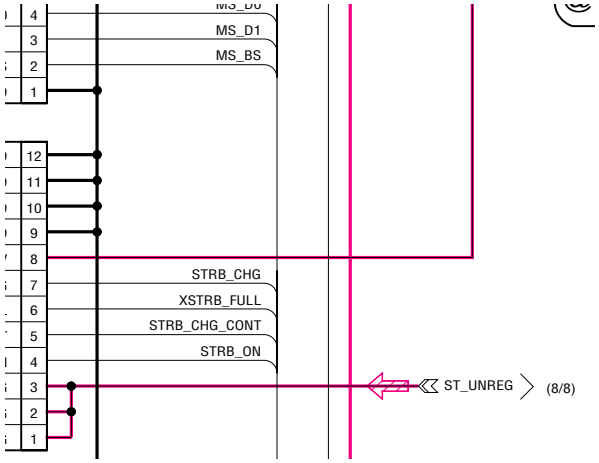
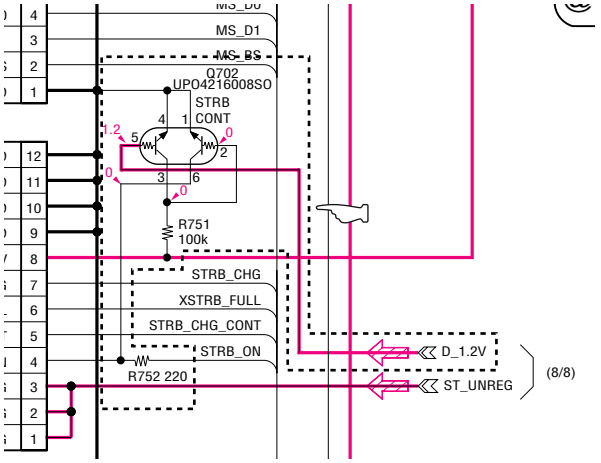
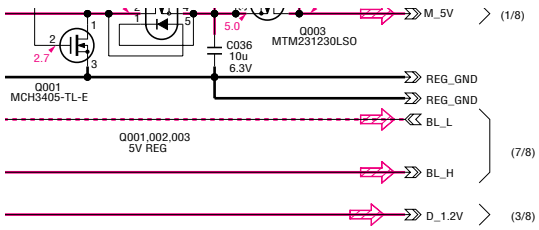
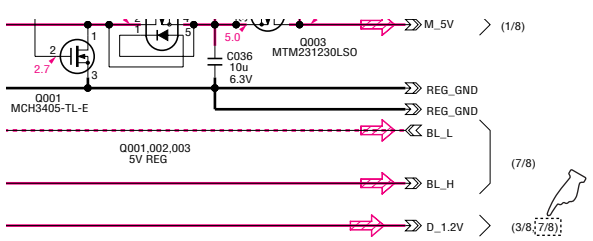
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

: Added portion

Page	Suffix -11	Suffix -21
4-26	**SY-150 BOARD (2/8) (Location: H-8)** 	

: Changed portion : Added portion

Page	Suffix -11	Suffix -21
4-27	**SY-150 BOARD (3/8) (Location: C-2 to D-3)** 	
4-35	**SY-150 BOARD (7/8) (Location: E-3 to F-4)** 	
4-38	**SY-150 BOARD (8/8) (Location: K-12)** 	

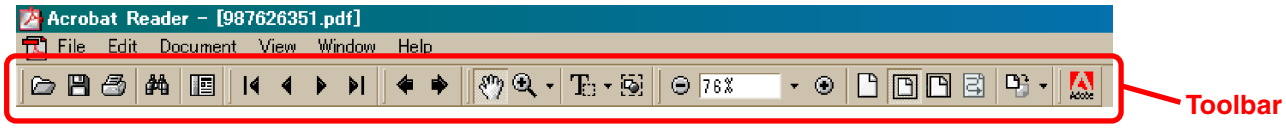
5. REPAIR PARTS LIST

5-2. ELECTRICAL PARTS LIST

: Added portion

Page	Suffix -11	Suffix -21
5-14	**SY-150 BOARD** Ref. No. Part No. Description — ———— ———— — ———— ————	Ref. No. Part No. Description Q702 8-729-054-52 TRANSISTOR UP04216008S0 R146 1-216-864-11 SHORT CHIP 0 R149 1-216-864-11 SHORT CHIP 0
5-15	— ———— ———— — ———— ————	R307 1-218-990-11 SHORT CHIP 0 R751 1-218-977-11 RES-CHIP 100K 5% 1/16W R752 1-218-945-11 RES-CHIP 220 5% 1/16W

[Description of main button functions on toolbar of the Adobe Acrobat Reader Ver5.0 (for Windows)]



Printing a text

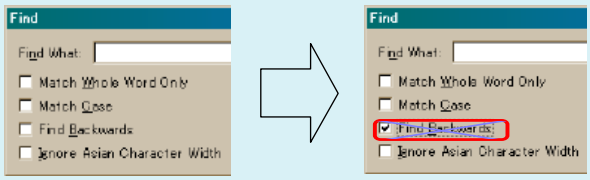
1. Click the Print button .
2. Specify a printer, print range, number of copies, and other options, and then click [OK].

Application of printing:
To set a range to be printed within a page, select the graphic selection tool and drag on the page to enclose a range to be printed, and then click the Print button.

Finding a text

1. Click the Find button .
2. Enter a character string to be found into a text box, and click the [Find]. (Specify the find options as necessary)

Application to the Service Manual:
To execute "find" from current page toward the previous pages, select the check box "Find Backward" and then click the "Find".



3. Open the find dialog box again, and click the [Find Again] and you can find the matched character strings displayed next. (Character strings entered previously are displayed as they are in the text box.)

Application to the Service Manual:
The parts on the drawing pages (block diagrams, circuit diagrams, printed circuit boards) and parts list pages in a text can be found using this find function. For example, find a Ref. No. of IC on the block diagram, and click the [Find Again] continuously, so that you can move to the Ref. No. of IC on the circuit diagram or printed circuit board diagram successively.
Note: The find function may not be applied to the Service Manual depending on the date of issue.

Switching a page

- To move to the first page, click the .
- To move to the last page, click the .
- To move to the previous page, click the .
- To move to the next page, click the .

Reversing the screens displayed once

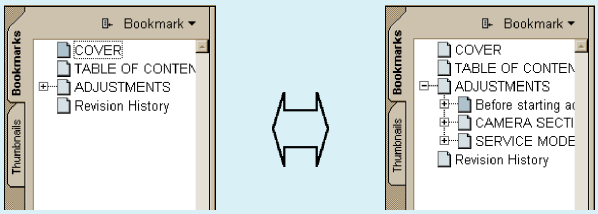
- To reverse the previous screens (operation) one by one, click the .
- To advance the reversed screens (operation) one by one, click the .

Application to the Service Manual:
This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

Moving with link

1. Select either palm tool , zoom tool , text selection tool , or graphic selection tool .
2. Place the pointer in the position in a text where the link exists (such as a button on cover and the table of contents page, or blue characters on the removal flowchart page or drawing page), and the pointer will change to the forefinger form .
3. Then, click the link. (You will go to the link destination.)

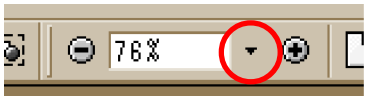
Moving with bookmark:
Click an item (text) on the bookmark pallet. and you can move to the link destination. Also, clicking can display the hidden items.
(To go back to original state, click)



Zooming or rotating the screen display

"Zoom in/out"

- Click the triangle button in the zoom control box to select the display magnification. Or, you may click or for zooming in or out.



"Rotate"

- Click rotate tool , and the page then rotates 90 degrees each.

Application to the Service Manual:
The printed circuit board diagram you see now can be changed to the same direction as the set.

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2006.02	Official Release	—	—
1.1	2006.07	Supplement-1 (DI06-030)	• Addition of formatting procedure after replacement of IC202 S.M. correction: Page 4-29, 5-14	Yes
1.2	2006.10	Correction-1	• Correction of printed wiring boards S.M. correction: Page 4-52, 4-54	Yes
1.3	2006.10	Supplement-2 (DI06-116)	• Change of boards suffix number (SY-150) • Change of repair parts list	No