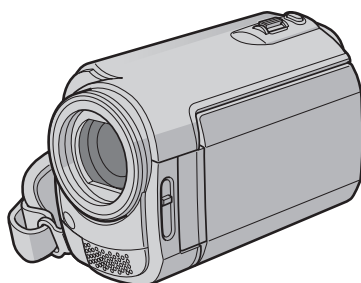




SERVICE MANUAL

HARD DISK CAMCORDER

**GZ-MG330HEK, GZ-MG330HER,
GZ-MG330HEX, GZ-MG330HEZ,
GZ-MG335HEK, GZ-MG335HER,
GZ-MG335HEX, GZ-MG335HEZ,
GZ-MG340HEX, GZ-MG365HEK,
GZ-MG365HER, GZ-MG365HEX,
GZ-MG365HEZ**



GZ-MG330HEKM, GZ-MG330HERM, GZ-MG330HEXM,
GZ-MG330HEZM, GZ-MG340HEXM [M8E302]
GZ-MG335HEKM, GZ-MG335HERM
GZ-MG335HEXM, GZ-MG335HEZM [M8E304]
GZ-MG365HEKM, GZ-MG365HERM
GZ-MG365HEXM, GZ-MG365HEZM [M8E308]

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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SPECIFICATION

■Camcorder

For General	Power supply		DC 11 V (Using AC Adapter) DC 7.2 V (Using battery pack)
	Power consumption		Approx. 2.7 W* * When the LED light is off and the monitor backlight is set to [STANDARD] mode.
	Dimensions (W × H × D)		133 mm × 68 mm × 54 mm
	Weight		Approx. 315 g (incl. grip belt) Approx. 360 g (incl. battery and grip belt)
	Operating temperature		0°C to 40°C
	Operating humidity		35% to 80%
	Storage temperature		-20°C to 50°C
	Pickup		1/6" (800,000 pixels) CCD
	Lens		F 1.8 to 4.0, f = 2.2 mm to 77 mm, 35:1 power zoom lens
	Filter diameter		Ø30.5 mm
	LCD monitor		2.7" diagonally measured, LCD panel/TFT active matrix system
	Speaker		Monaural
	LED Light		Within 1.5 m (recommended shooting distance)
For Video/Audio	Format		SD-VIDEO
	Recording/Playback format	Video	MPEG-2
		Audio	Dolby Digital (2 ch)
	Signal format		PAL standard
	Recording mode (video)		ULTRA FINE: 720 × 576 pixels, 8.5 Mbps (VBR) FINE: 720 × 576 pixels, 5.5 Mbps (VBR) NORMAL: 720 × 576 pixels, 4.2 Mbps (VBR) ECONOMY: 352 × 288 pixels, 1.5 Mbps (VBR)
	Recording mode (audio)		ULTRA FINE: 48 kHz, 384 kbps FINE: 48 kHz, 384 kbps NORMAL: 48 kHz, 256 kbps ECONOMY: 48 kHz, 128 kbps
For Still image	Format		JPEG
	Image size		1 mode (640 × 480)
	Picture quality		2 modes (FINE/STANDARD)
For connectors	USB	Camera	mini USB type A and B, USB 2.0 compliant
		Everio dock	mini USB type B, USB 2.0 compliant

■AC Adapter

Power requirement	AC 110 V to 240 V, 50 Hz/60 Hz
Output	DC 11 V, 1 A

■Remote Control

Power supply	DC 3 V
Battery life	Approx. 1 year (depending on the frequency of use)
Operating distance	Within 5 m
Operating temperature	0°C to 40°C
Dimensions (W × H × D)	42 mm × 14.5 mm × 91 mm
Weight	Approx. 30 g (incl. battery)

Design and specifications subject to change without notice.

* GZ-MG330 model does not include the remote control.

SECTION 1 PRECAUTIONS

1.1 SAFTY PRECAUTIONS

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

1.1.1 Precautions during Servicing

- (1) Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- (2) Parts identified by the  symbol and shaded () parts are critical for safety. Replace only with specified part numbers.

NOTE :

Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- (3) Fuse replacement caution notice.
Caution for continued protection against fire hazard.
Replace only with same type and rated fuse(s) as specified.
- (4) Use specified internal wiring. Note especially:
 - Wires covered with PVC tubing
 - Double insulated wires
 - High voltage leads
- (5) Use specified insulating materials for hazardous live parts.
Note especially:
 - Insulation Tape
 - PVC tubing
 - Spacers
 - Insulation sheets for transistors
 - Barrier
- (6) When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

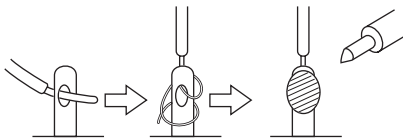


Fig.1-1-1

- (7) Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- (8) Check that replaced wires do not contact sharp edged or pointed parts.
- (9) When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

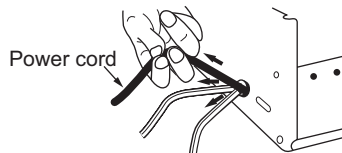


Fig.1-1-2

- (10) Also check areas surrounding repaired locations.
- (11) Products using cathode ray tubes (CRTs) In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray

emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

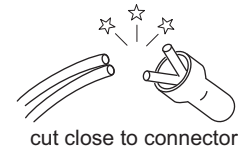
- (12) Crimp type wire connector In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

• **Connector part number** :E03830-001

• **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.

• **Replacement procedure**

- a) Remove the old connector by cutting the wires at a point close to the connector. Important : Do not reuse a connector (discard it).



cut close to connector

Fig.1-1-3

- b) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

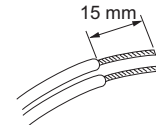


Fig.1-1-4

- c) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

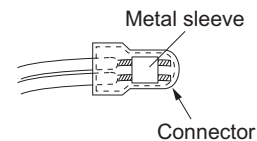


Fig.1-1-5

- d) As shown in Fig.1-1-6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

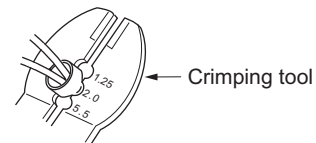


Fig.1-1-6

- e) Check the four points noted in Fig.1-1-7.

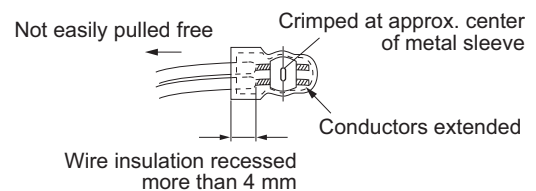


Fig.1-1-7

1.1.2 Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

(1) Insulation resistance test

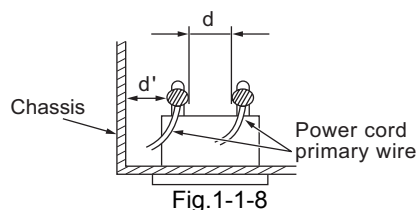
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

(2) Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See Fig.1-1-11 below.

(3) Clearance distance

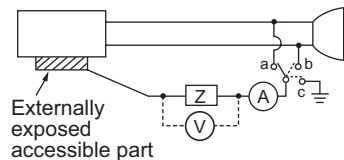
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See Fig.1-1-11 below.



(4) Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

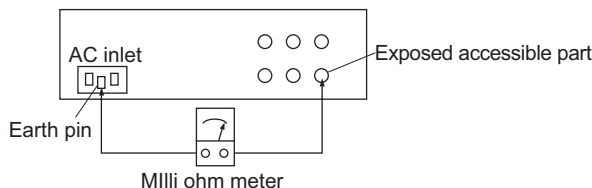
Measuring Method : (Power ON) Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig.1-1-9 and following Fig.1-1-12.



(5) Grounding (Class 1 model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.). Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See Fig.1-1-10 and grounding specifications.



Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	$Z \leq 0.1 \text{ ohm}$
Europe & Australia	$Z \leq 0.5 \text{ ohm}$

Fig.1-1-10

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	$R \geq 1 \text{ M}\Omega/500 \text{ V DC}$	AC 1 kV 1 minute	$d, d' \geq 3 \text{ mm}$
100 to 240 V			AC 1.5 kV 1 minute	$d, d' \geq 4 \text{ mm}$
110 to 130 V	USA & Canada	$1 \text{ M}\Omega \leq R \leq 12 \text{ M}\Omega/500 \text{ V DC}$	AC 1 kV 1 minute	$d, d' \geq 3.2 \text{ mm}$
110 to 130 V 200 to 240 V	Europe & Australia	$R \geq 10 \text{ M}\Omega/500 \text{ V DC}$	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	$d \geq 4 \text{ mm}$ $d' \geq 8 \text{ mm}$ (Power cord) $d' \geq 6 \text{ mm}$ (Primary wire)

Fig.1-1-11

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	$1 \text{ k}\Omega$	$i \leq 1 \text{ mA rms}$	Exposed accessible parts
110 to 130 V	USA & Canada	$0.15 \mu\text{F}$ and $1.5 \text{ k}\Omega$	$i \leq 0.5 \text{ mA rms}$	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	$2 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Antenna earth terminals
		$50 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Other terminals

Fig.1-1-12

NOTE :

These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 DIFFERENCE LIST

The following table indicate main different points between models GZ-MG330HEK, GZ-MG330HER, GZ-MG330HEX, GZ-MG330HEZ, GZ-MG335HEK, GZ-MG335HER, GZ-MG335HEX, GZ-MG335HEZ, GZ-MG340HEX, GZ-MG365HEK, GZ-MG365HER, GZ-MG365HEX, and GZ-MG365HEZ.

MODEL NAME	GZ-MG330HEK	GZ-MG330HER	GZ-MG330HEX	GZ-MG330HEZ	GZ-MG335HEK
HDD	30GB	30GB	30GB	30GB	30GB
LED LIGHT	NO	NO	NO	NO	YES
EVERIO DOCK	NO	NO	NO	NO	YES(CU-VC4U)
AC-ADAPTER	AP-V14E	AP-V17E	AP-V17E	AP-V17E	AP-V14E
AC CORD	YES(BS)	NO	NO	NO	YES(BS)
REMOTE CONTROL UNIT	NO	NO	NO	NO	YES(RM-V751US)

MODEL NAME	GZ-MG335HER	GZ-MG335HEX	GZ-MG335HEZ	GZ-MG340HEX	GZ-MG365HEK
HDD	30GB	30GB	30GB	40GB	60GB
LED LIGHT	YES	YES	YES	NO	YES
EVERIO DOCK	YES(CU-VC4U)	YES(CU-VC4U)	YES(CU-VC4U)	NO	YES(CU-VC4U)
AC-ADAPTER	AP-V17E	AP-V17E	AP-V17E	AP-V17E	AP-V14E
AC CORD	NO	NO	NO	NO	YES(BS)
REMOTE CONTROL UNIT	YES(RM-V751US)	YES(RM-V751US)	YES(RM-V751US)	YES(RM-V751US)	YES(RM-V751US)

MODEL NAME	GZ-MG365HER	GZ-MG365HEX	GZ-MG365HEZ
HDD	60GB	60GB	60GB
LED LIGHT	YES	YES	YES
EVERIO DOCK	YES(CU-VC4U)	YES(CU-VC4U)	YES(CU-VC4U)
AC-ADAPTER	AP-V17E	AP-V17E	AP-V17E
AC CORD	NO	NO	NO
REMOTE CONTROL UNIT	YES(RM-V751US)	YES(RM-V751US)	YES(RM-V751US)

2.2 REPLACING HDD

< "Warning screen">

NOTE1) After HDD replacement, format the HDD first.

When the power is turned on after the HDD replacement, the below "Warning screen" is displayed.

Be sure to format the HDD following the messages.

Be sure to turn off the power once after the formatting.

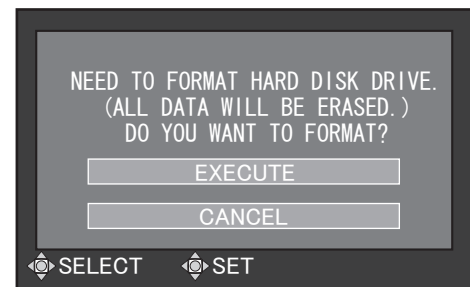
If the HDD recording is started without being turned off the power, normal recording cannot be performed although the recording will start.

NOTE2)

The picture title data needs to be written in the HDD.

Download the data and writing procedure from JS-NET.

Note that the picture title is a thumbnail image used in Creating Playlist including Titles and saved in the space where users cannot see.



2.3 SERVICE FOR EVERIO DOCK (CU-VD4)

2.3.1 Service repair parts

This unit mainly consists of CABINET PARTS and two BOARD ASSYS.

The main service repair parts are as follows.

For details of service repair parts, please refer to the parts list.

- CABINET PARTS
- BOARD ASSYS
(CDL JACK BOARD ASSY & CDL CN BOARD ASSY)
- Some electrical parts

2.3.2 Disassembly

1. Removing the TOP CASE (Refer to Fig.2-3-1)

Remove the 4 screws (1-4), and then remove the TOP CASE.

2. Removing the HOLDER (Refer to Fig.2-3-2)

Take out the CDL CN BOARD ASSY from the BOTTOM CASE.

Pull out the HOLDER from the connector by releasing the 4 hooks holding the HOLDER one by one.

Note) During the procedure, be careful in handling the SPRING.

3. Removing the SPRING (Refer to Fig.2-3-3)

Release the CDL CN BOARD ASSY as shown in the figure, and take out the SPRING from the BOTTOM CASE.

4. Removing the CDL CN BOARD ASSY/ CDL JACK BOARD ASSY (Refer to Fig.2-3-4)

Release the lock of CN2, and remove the CDL CN BOARD ASSY while pulling out the FPC.

Release one hook, and remove the CDL JACK BOARD ASSY.

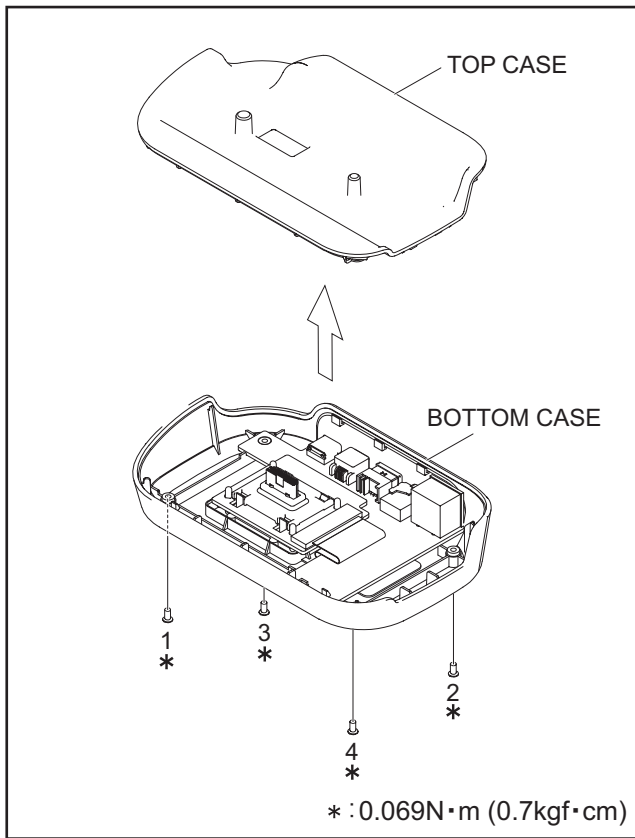


Fig.2-3-1

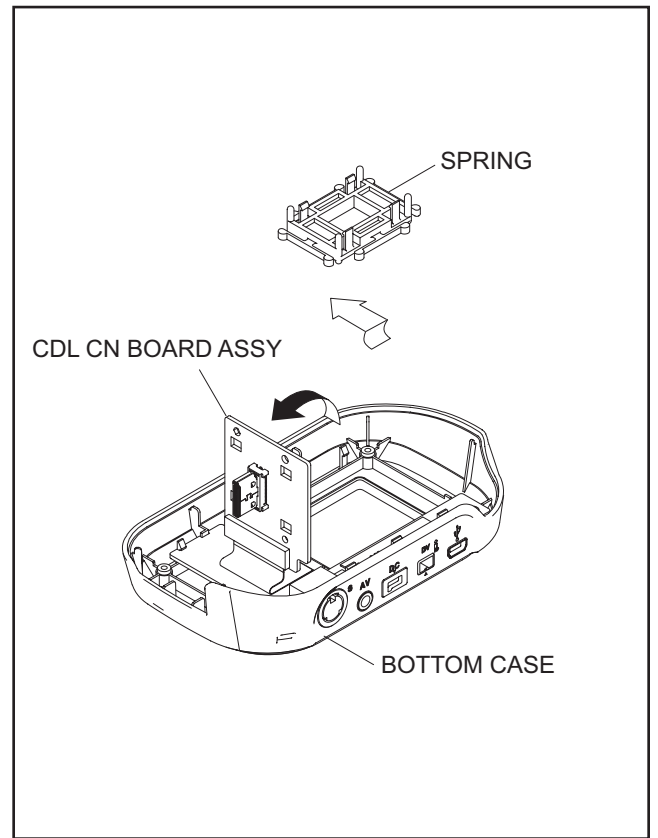


Fig.2-3-3

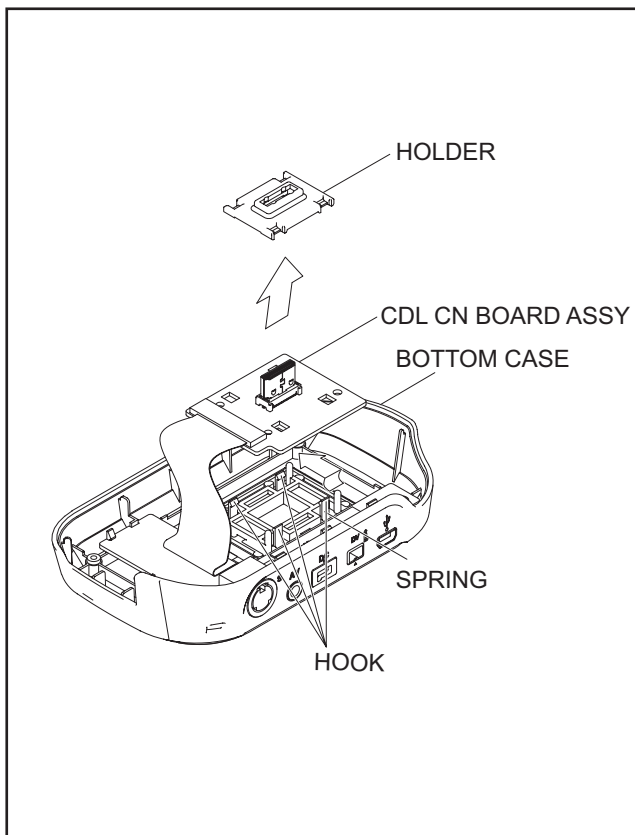


Fig.2-3-2

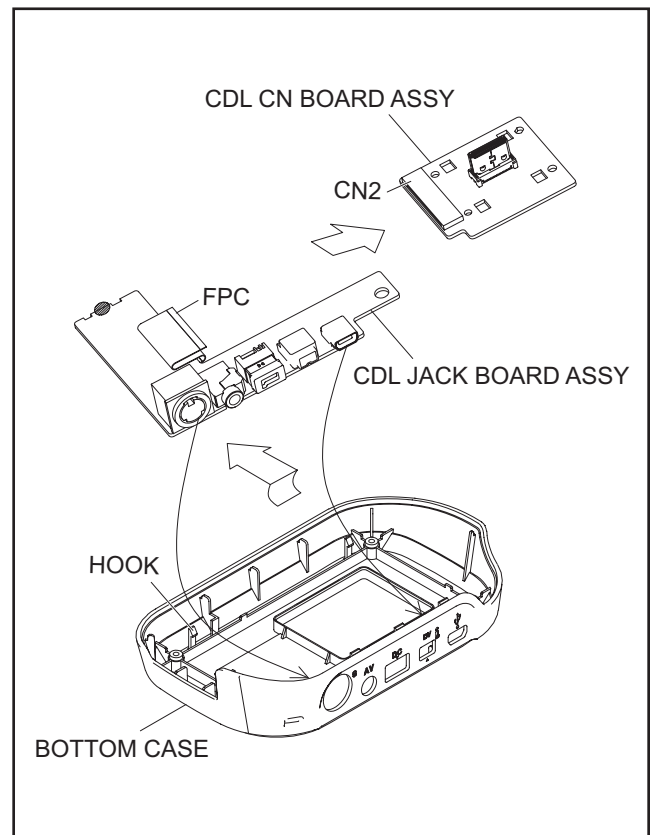


Fig.2-3-4

SECTION 3 DISASSEMBLY

3.1 BEFORE ASSEMBLY AND DISASSEMBLY

3.1.1 Precautions

- Be sure to disconnect the power supply unit prior to mounting and soldering of parts.
- Prior to removing a component part that needs to disconnect its connector(s) and its screw(s), first disconnect the wire(s) from the connector(s), and then remove the screw(s).
- When connecting/disconnecting wires, pay enough attention not to damage the connectors.
- When inserting the flat wire to the connector, pay attention to the direction of the flat wire.
- Be careful in removing the parts to which some spacer or shield is attached for reinforcement or insulation.
- When replacing chip parts (especially IC parts), first remove the solder completely to prevent peeling of the pattern.
- Tighten screws properly during the procedures. Unless otherwise specified, tighten screws at a torque of 0.088N·m (0.9kgf·cm). However, as this is a required value at the time of production, use the value as a measuring stick when proceeding repair services. (See "SERVICE NOTE" as for tightening torque.)

3.1.2 Destination of connectors

Two kinds of double-arrows in connection tables respectively show kinds of connector/wires.

↔ : Flat wire ↔ : Wire ↔ : Board to board (B-B)
 □ : The connector of the side to remove

CONN. No.	CONNECTOR					PIN No.
CN2a	MAIN	CN101	↔	MONI BW	CN761	40
CN2b	MAIN	CN103	↔	MINI BW	CN762	10

3.1.3 Disconnection of connectors (Wires)

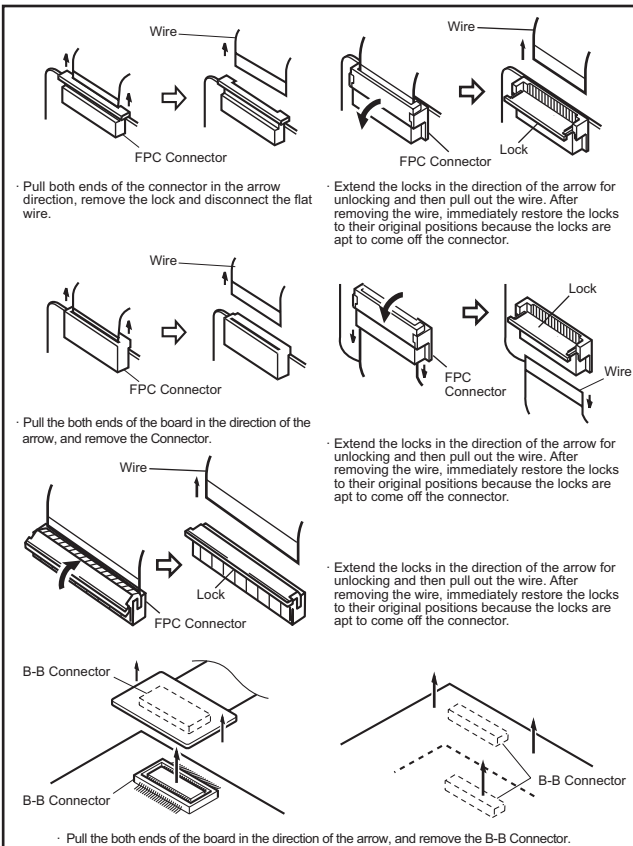


Fig.3-1-1

3.1.4 Tools required for disassembly and assembly

Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	

Fig.3-1-2

• Torque driver

Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.

• Bit

This bit is slightly longer than those set in conventional torque drivers.

• Tweezers

To be used for removing and installing parts and wires.

• Chip IC replacement jig

To be used for replacement of IC.

• Cleaning cloth

Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

3.2 ASSEMBLY AND DISASSEMBLY OF MAIN PARTS

3.2.1 Assembly and disassembly

When reassembling, perform the step(s) in reverse order.

STEP No.	PART	Fig. No.	POINT	NOTE
[1]	TOP COVER ASSY	C1	4(S1a), 3(L1a), CN1a	-
[2]	UPPER ASSY (Inc. VF ASSY, SPEAKER/MONITOR)	C2-1	(S2a), 2(S2b), 3(S2c) 2(SD1a), L2, CN2a, b	-
[8]	E.VF UNIT(B/W)	C2-2	2(S8), L8, CN8a	NOTE 8
(*1)	(*2)	(*3)	(*4)	(*5)

(*1) Order of steps in Procedure

When reassembling, preform the step(s) in the reverse order. These numbers are also used as the identification (location) No. of parts Figures.

(*2) Part to be removed or installed.

(*3) Fig. No. showing Procedure or Part Location.

(*4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.

S = Screw L = Lock, Release, Hook
 SD = Solder CN = Connector

[Example]

- 4 (S1a) = Remove 4 S1a screws.
- 3 (L1a) = Disengage 3 L1a hooks.
- 2 (SD1a) = Unsolder 2 SD1a points.
- CN1a = Remove a CN1a connector.

(*5) Adjustment information for installation.

3.2.2 Assembly/Dissassembly of cabinet parts and electrical parts

● Disassembly procedure

STEP No.	PART NAME	Fig. No.	POINT	NOTE
[1]	B.COVER ASSY	3-2-1	3(S1),2(L1a), 3(L1b)	NOTE1
[2]	WINDOW(IR)	3-2-2	GRIP BELT, S2,2(L2a),3(L2b),L2c	NOTE2a,b
[3]	TOP COVER ASSY	3-2-3	3(S3),JACK COVER(AV), S3,3(L3a),3(L3b),3(L3c)	NOTE3
[4]	HDD COVER ASSY	3-2-4	2(S4), L4a,b	-
[5]	HDD	3-2-5	CN5	NOTE5a,b,c,d,e,f
[6]	HDD CASE	3-2-6	5(S6),L6a,b	-
[7]	REAR COVER ASSY	3-2-7	CN7a,b,3(S7),L7a,3(L7b)	NOTE7
[8]	ZOOM UNIT		2(S8), L8	NOTE8
[9]	REAR BOARD ASSY		L9a,2(L9b)	NOTE9
[10]	UPPER ASSY	3-2-8	CN10, 2(S10), L10a,b	NOTE10a,b
[11]	FRONT ASSY	3-2-9	CN11,S11, L11a,b	NOTE11a,b
[12]	MIC	3-2-10	S12, L12a, L12b, PLATE(MIC)	NOTE12
[13]	MAIN BOARD ASSY	3-2-11	CN13a,b, 2(S13)	NOTE13
[14]	OP BLOCK ASSY	3-2-12	3(S14)	NOTE14a,b
[15]	ORNAMENT(TOP)	3-2-13	2(S15), L15a, 3(L15b)	NOTE15a,b
[16]	OPE BOARD ASSY	3-2-14-1 3-2-14-2	CN16a,b, S16, 2(L16a), 2(L16b), 3(S16)	NOTE16a,b
[17]	SPEAKER		S17, L17a,b, 2(L17c), BKT(SPK)	NOTE17
[18]	MONITOR ASSY	3-2-15	S18a, L18a, 2(S18b), 2(L18b)	NOTE18

NOTE1:

When removing the BOTTOM COVER ASSY, open and pull up the COVER (SD).

NOTE2a:

Pull out the GRIP BELT from the hook and leave it released before removing the HDD COVER ASSY.

NOTE2b:

During the procedure, be careful not to damage the parts.

NOTE3:

When attaching, be careful not to pinch the parts.

NOTE5a:

During the procedure, be careful in handling the parts. Pay special attention not to give any external shock to the HDD.

NOTE5b:

When the HDD is replaced, be sure to refer to Replacing HDD in "SECTION2 SPECIFIC SERVICE INSTRUCTIONS" for the procedure after HDD replacement.

NOTE5c:

Be careful as the RUBBER SPACERS on both sides are easily come off when the HDD is removed from the main unit.

NOTE5d:

When connecting the FPC to the connector, insert the FPC straight into the connector. When locking the connector, be careful not to give so much load that it bends the board.

NOTE5e:

In this procedure, the FPC connected to the HDD connector is not removed.

If the FPC is removed due to broken wire, be careful in attachment direction.

Pay attention as wrong attachment could damage the HDD.

NOTE5f:

Be careful with the wiring.

NOTE7:

When removing the REAR COVER ASSY, remove the ZOOM UNIT together with the REAR BOARD ASSY.

NOTE8:

When attaching, first adjust the AV jack position, and then carefully adjust the DC jack position.

NOTE9:

During the procedure, be careful not to touch or damage the battery terminal.

NOTE10a:

When removing, release the connector lock, and then pull out the FPC together with the UPPER ASSY.

NOTE10b:

Please refer to Fig.3-2-13 and the following procedure for removing the UPPER ASSY.

NOTE11a:

When attaching, be careful in handling the JACK COVER (USB) ASSY.

NOTE11b:

When attaching, be careful with the wiring (MIC).

NOTE12:

When attaching, be careful with the wiring (MIC).

NOTE13:

Be careful with the wiring.

NOTE14a:

During the procedure, be careful in handling the parts.

NOTE14b:

Refer to 3.2.3 Assembly/Disassembly of [14] OP BLOCK ASSY/
CCD BOARD ASSY.

NOTE15a:

During the procedure, turn the MONITOR ASSY 90°, so that
it does not interfere with the procedure.

NOTE15b:

During the procedure, be careful not to damage the parts.

NOTE16a:

When removing, remove the screw No.32 first to release the
FPC, and then pull out the FPC from the connector.

NOTE16b:

When attaching, be careful with the wiring.

NOTE17:

When attaching, be careful with the wiring.

NOTE18:

Refer to 3.2.4 Disassembly of [18] MONITOR ASSY.

● Destination of connectors

CN. No.	CONNECTOR					PIN No.
CN5	MAIN	CN102	↔	HDD	-	40
CN7a	MAIN	CN104	↔	ZOOM UNIT	-	12
CN7b	MAIN	CN103	↔	REAR	CN601	32
CN10	MAIN	CN101	↔	OPE	CN401	30
CN11	MAIN	CN107	↔	MIC	-	4
CN13a	MAIN	CN105	↔	CCD	CN5001	22
CN13b	MAIN	CN106	↔	OP BLOCK	-	25
CN16a	OPE	CN403	↔	SPEAKER	-	2
CN16b	OPE	CN402	↔	MONITOR	CN7601	22/23

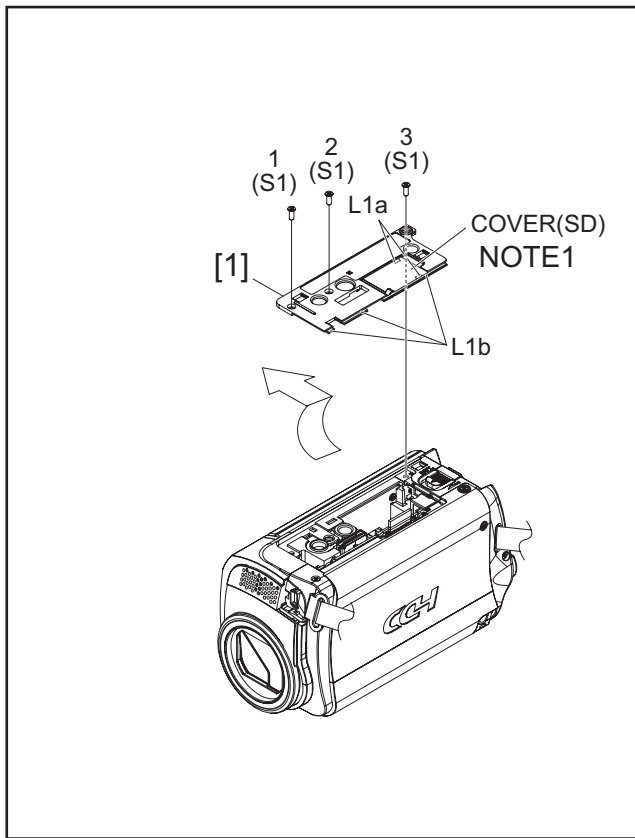


Fig.3-2-1

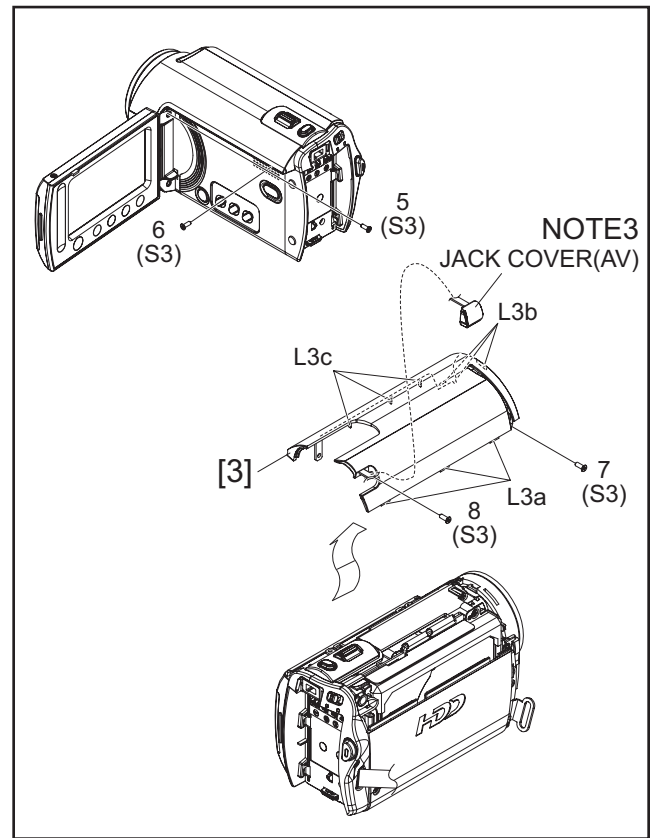


Fig.3-2-3

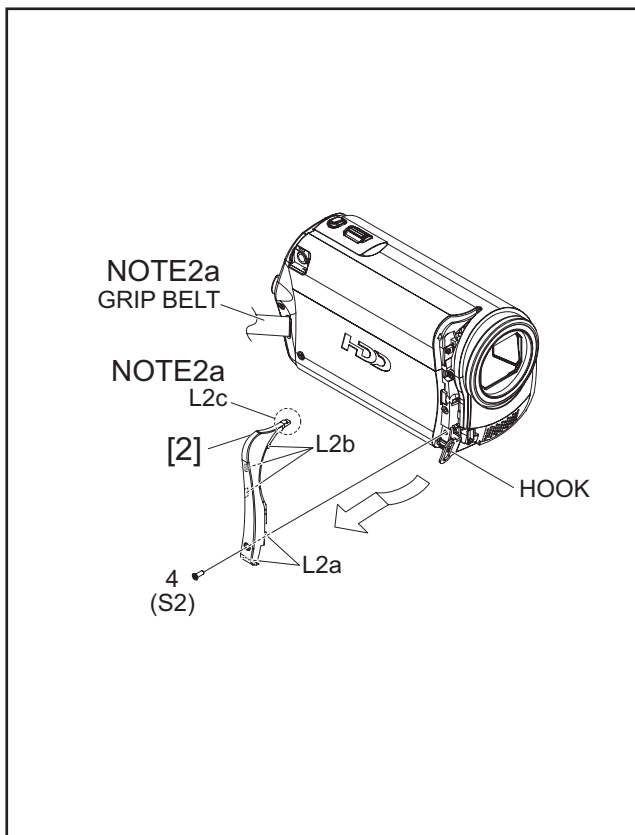


Fig.3-2-2

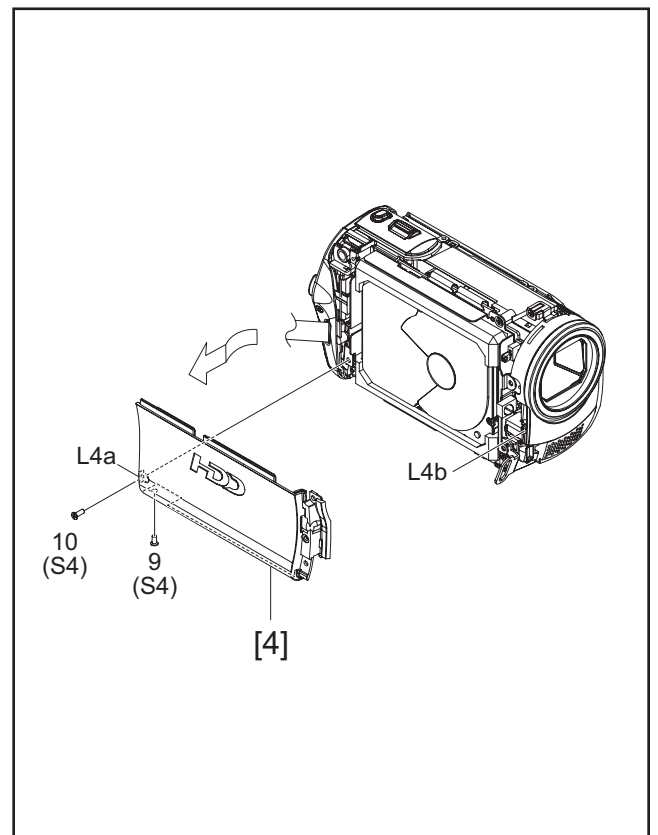


Fig.3-2-4

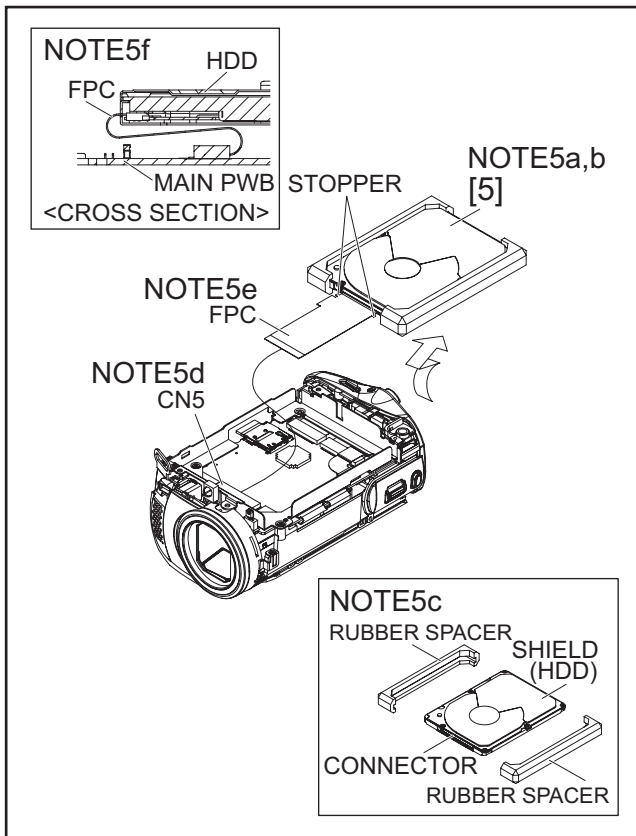


Fig.3-2-5

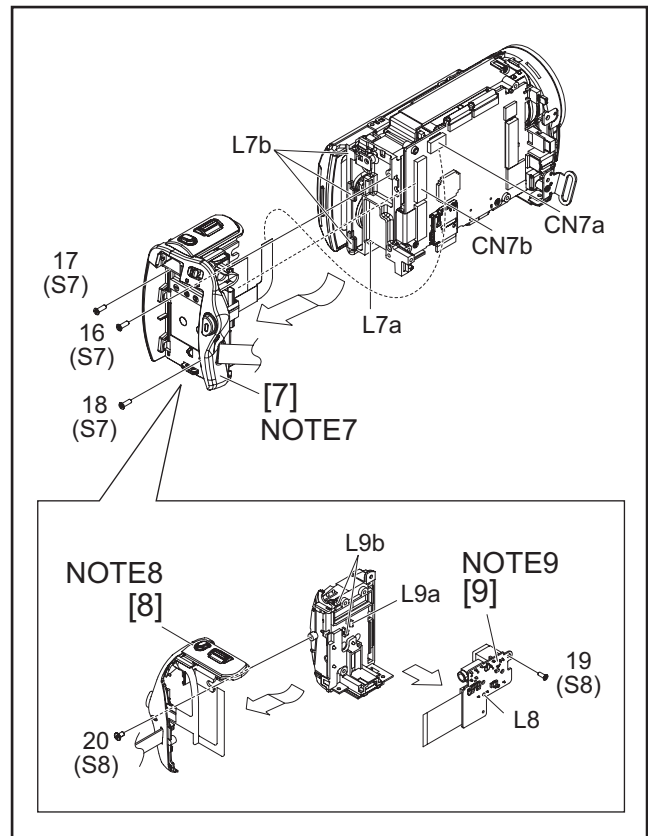


Fig.3-2-7

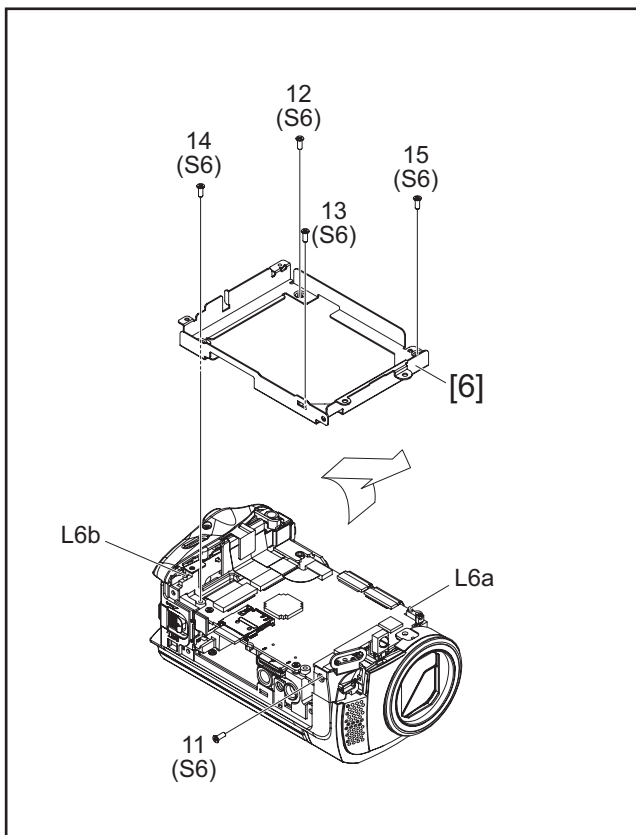


Fig.3-2-6

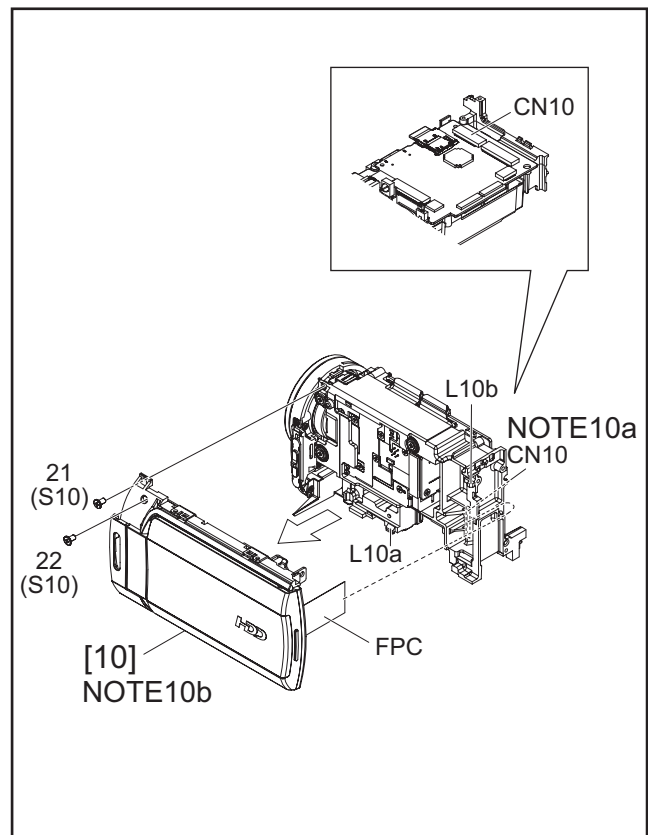


Fig.3-2-8

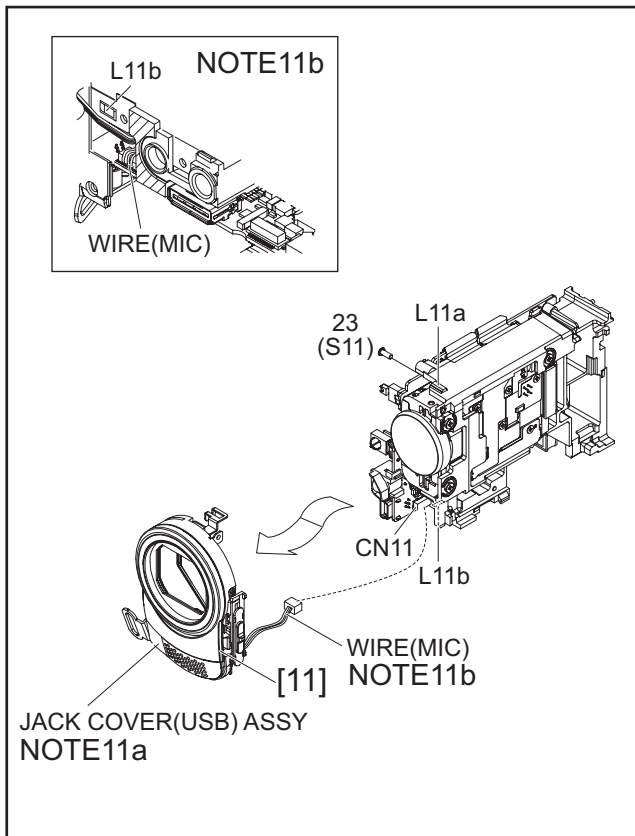


Fig.3-2-9

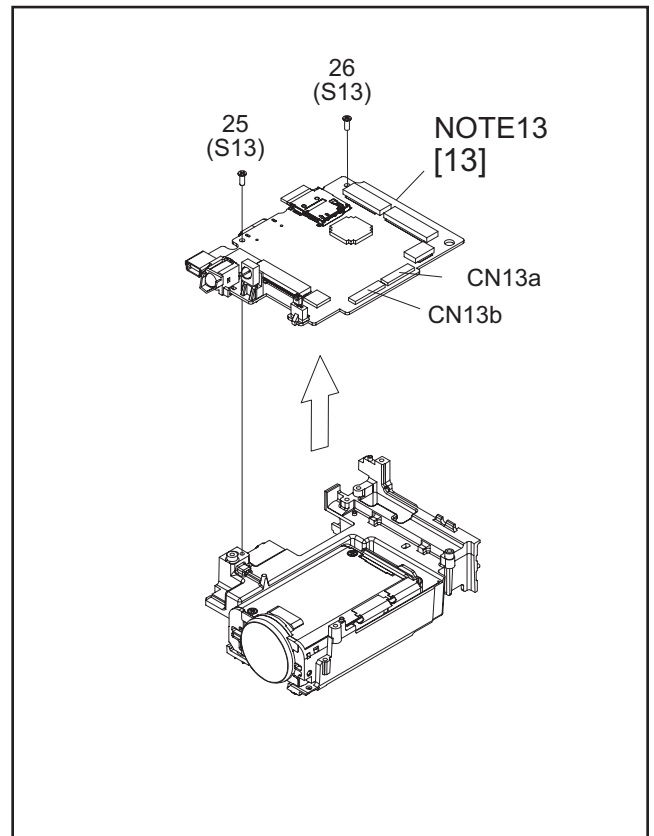


Fig.3-2-11

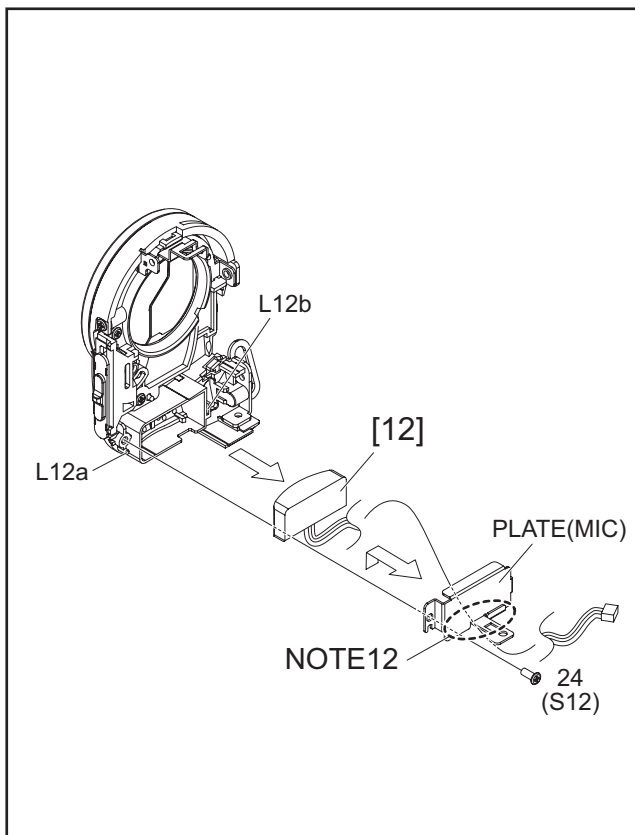


Fig.3-2-10

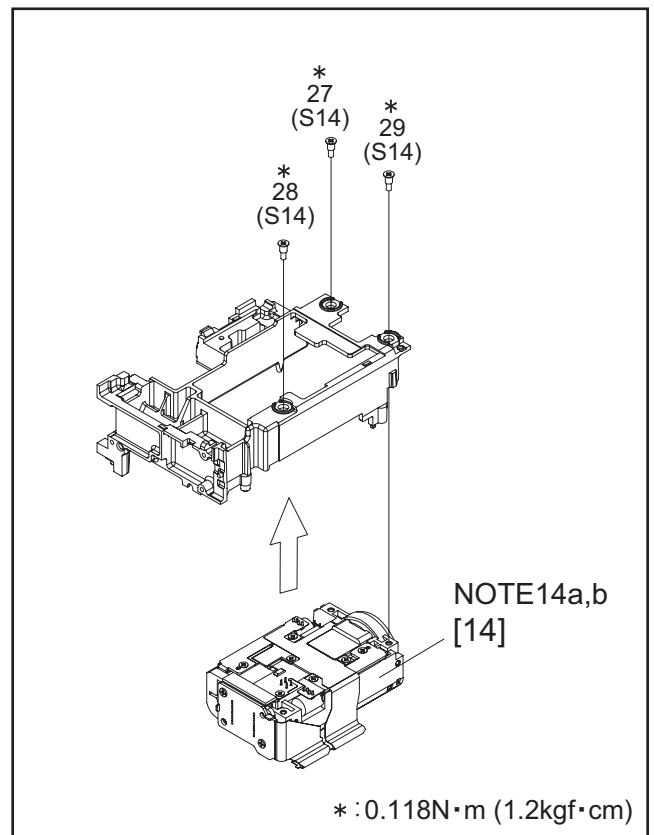


Fig.3-2-12

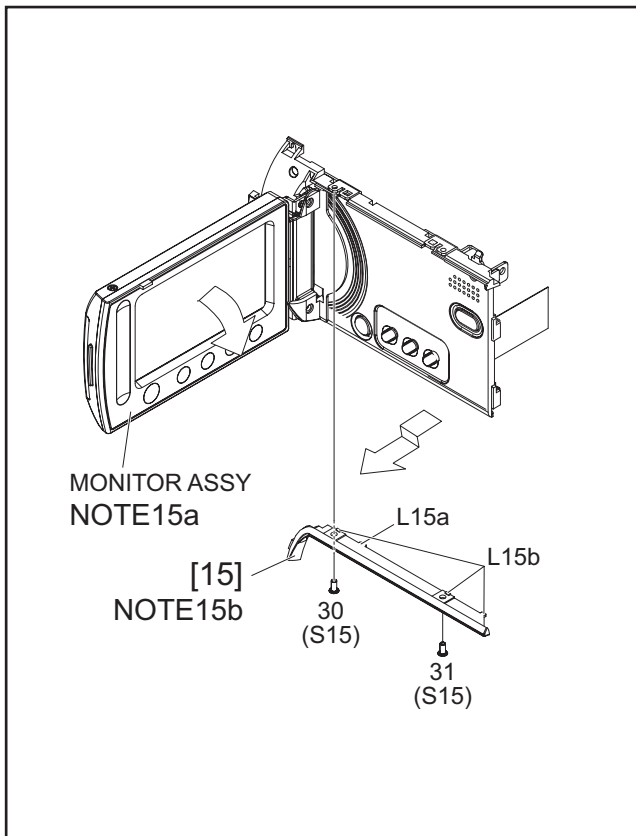


Fig.3-2-13

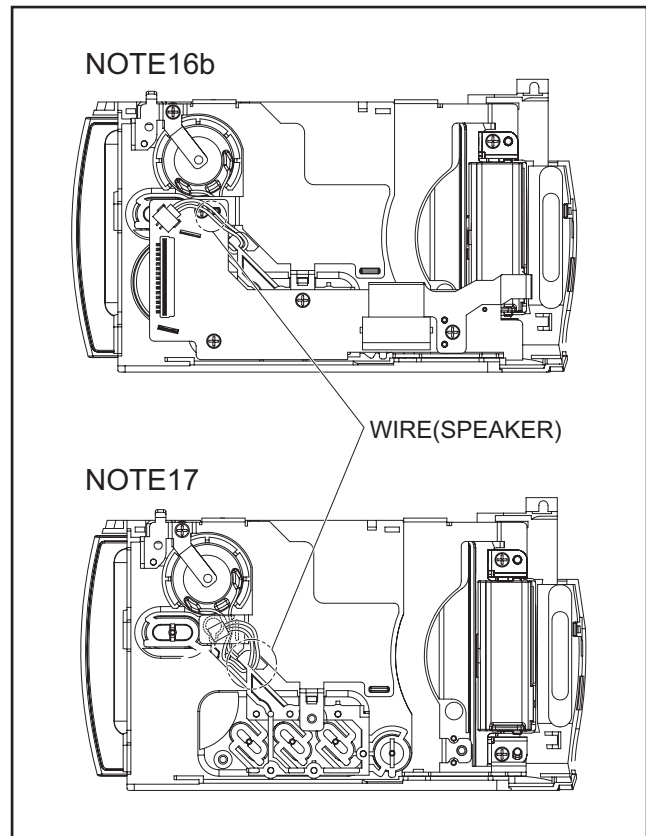


Fig.3-2-14-2

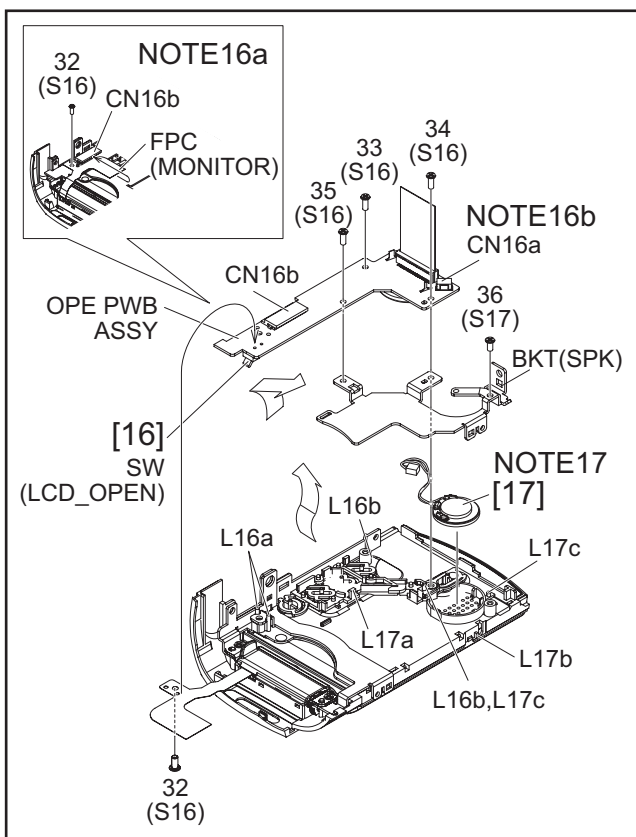


Fig.3-2-14-1

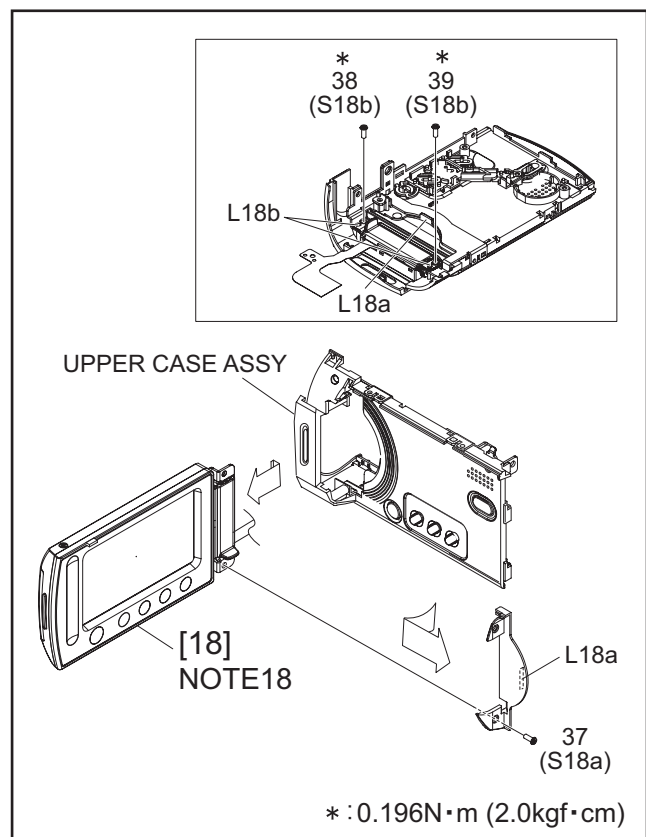


Fig.3-2-15

* : 0.196N·m (2.0kgf·cm)

3.2.3 Assembly/Disassembly of [14] OP BLOCK ASSY/CCD BOARD ASSY

●Precautions

- (1) Be careful in handling the CCD IMAGE SENSOR, OPTICAL LPF and the LENS components.
Pay special attention to the surfaces to protect them from stains, dust, or scratches.
If the surfaces are soiled with finger prints or other stains, wipe them off with silicon paper, clean chamois leather, or recommended cleaning cloth.
- (2) The CCD IMAGE SENSOR may have been shipped with a protective sheet attached to the transmitting glass.
When replacing the CCD IMAGE SENSOR, do not peel off this sheet from the new part until immediately before it is mounted in the OP BLOCK ASSY.

●Disassembly of OP BLOCK ASSY / CCD BOARD ASSY

- (1) Unsolder the 20 soldered points (SD14a) of the CCD BOARD ASSY.
- (2) Remove the 2 screws (1,2), and then remove the CCD BOARD ASSY, SHIELD(CCD) and the CCD BASE ASSY.

NOTE14a:

When removing the CCD BASE ASSY, be careful in handling as the CCD IMAGE SENSOR may be removed together with the SHEET and the OP LPF attached.

NOTE14b:

Replace the CCD IMAGE SENSOR as a CCD BASE ASSY, not as a single part replacement.

- (3) Remove the SHEET and OP LPF.

●Assembly of OP BLOCK ASSY / CCD BOARD ASSY

- (1) Set the OP LPF first, and then the SHEET to the OP BLOCK ASSY.

NOTE14c:

Be careful with the attachment direction of the OP LPF.

- (2) Attach the CCD BASE ASSY first, then the SHEET, SHIELD(CCD) and the CCD BOARD ASSY so that the SHEET stays in place, and then tighten with the 2 screws (1,2).
- (3) Solder the 20 points (SD14a) on the CCD BOARD ASSY.

●Replacement of service repair parts

The service repair parts for the OP BLOCK ASSY are as listed below.

When replacing parts, be careful not to cut the FPCs or damage any parts by soldering (excessive heat).

- (1) FOCUS MOTOR UNIT
- (2) ZOOM MOTOR UNIT
- (3) AUTO IRIS UNIT

NOTE 14d:

The IRIS MOTOR UNIT includes the FPC ASSY and two sensors.

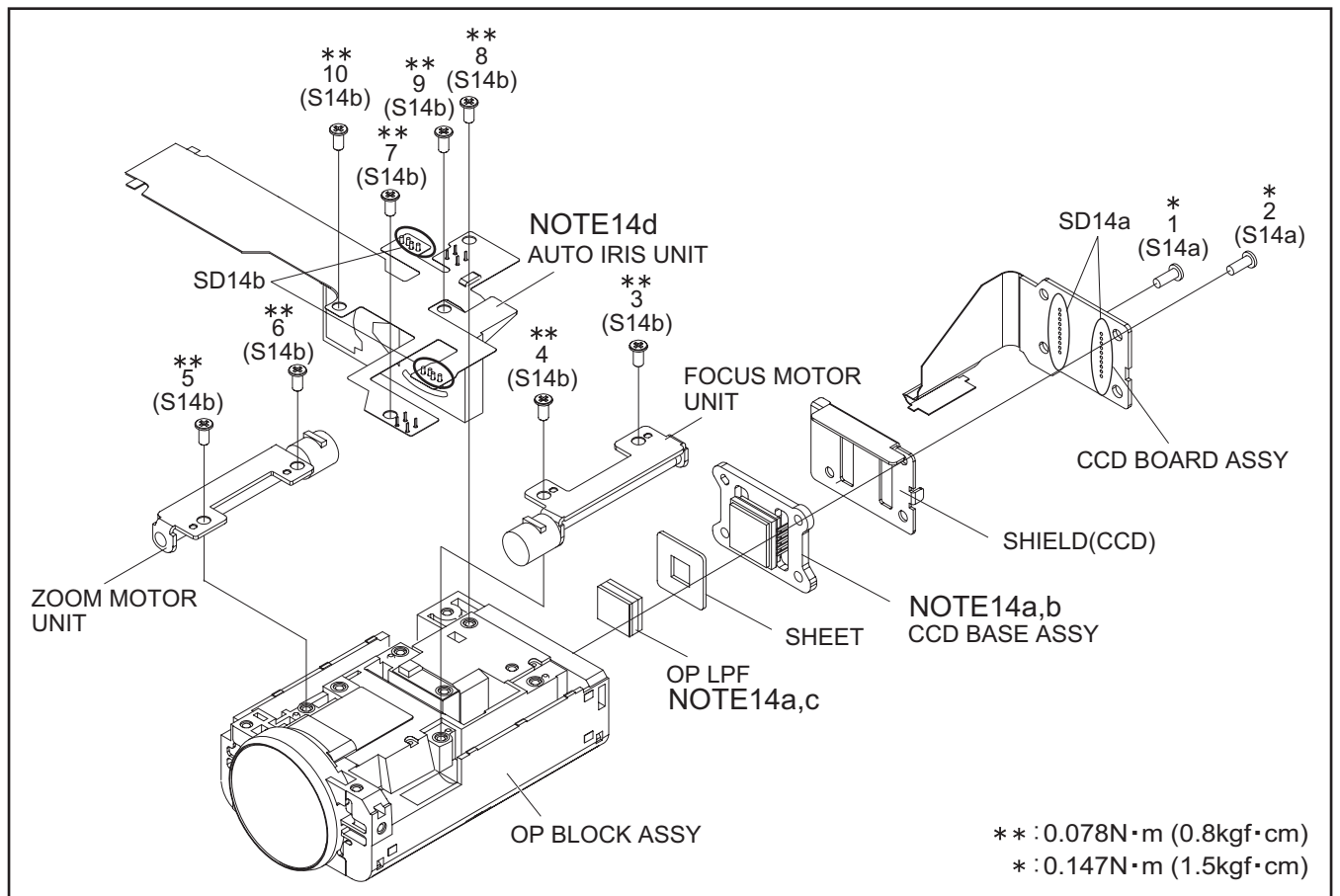


Fig.3-2-16

3.2.4 Disassembly of [18] MONITOR ASSY

●CAUTIONS

- (1) During the procedure, be careful in handling the LCD MODULE and other parts. Pay special attention not to damage or stain the monitor screen.
If fingerprints are left on the screen, wipe them with clean chamois leather or a cleaning cloth.

● Removing MONITOR ASSY

- (1) Remove the screw (1).
- (2) Turn the HINGE UNIT ASSY 90°, and remove the 2 screws (2,3).
- (3) Remove the MONI.COVER ASSY by removing the 7 hooks (L18a-g).
- (4) Release the lock of the connector (CN18a), and remove the HINGE UNIT by lifting it up.

NOTE18a:

During the procedure, be careful in handling the FPC.

- (5) Release the lock of the connectors (CN18b,c), and pull out the FPC.
- (6) Remove the screw (4), and remove the MONITOR BOARD ASSY.

NOTE18b:

During the procedure, be careful in handling the FPC.

- (7) Remove the SHEET (M.REF), LIGHT GUIDE, SHEET(M/DIFF), and the SHEET(BEF).

NOTE18c:

When attaching, insert one side of the SHEET (M/DIFF) under the LCD CASE RIB.

NOTE18d:

When attaching, insert each tab on both sides of the SHEET (M.REF) into the LCD CASE notch.

- (8) Remove the LCD CASE, SPACER(LCD), LCD MODULE, SPACER(LCD) and the LCD BKT ASSY.

NOTE18e:

During the procedure, handle the five parts (LCD CASE, SPACER(LCD), LCD MODULE, SPACER(LCD) and the LCD BKT ASSY) together.

NOTE18f:

The SENSOR BOARD ASSY is originally affixed to the MONI.CASE ASSY using jigs and they have structures difficult to replace.

If replacement is required, please refer to the NOTE and follow the operation procedure.

●Assembly/Disambly of MONITOR ASSY/SENSOR BOARD ASSY

Operation procedure

- Removing the part which is to be reused

- (1) Remove the SENSOR BOARD ASSY from the MONI.CASE ASSY by gradually peeling off from the HINGE ASSY side.

NOTE18g:

During the procedure, be careful not to break or deform the parts or warp the SENSOR BOARD.

- (2) Completely peel off the remaining tape pieces of the D. FACE TAPE left on the part to be reused (MONI.CASE ASSY or SENSOR BOARD ASSY).

NOTE18h:

Make sure that there are no D. FACE TAPE pieces or foreign substances left on the surfaces. If necessary, clean the surfaces using alcohol etc.

- Affixing the D. FACE TAPE to the SENSOR BOARD
(1) Affix the D. FACE TAPE to the SENSOR BOARD ASSY.

NOTE18j:

Securely fix the D. FACE TAPE, and then affix the SENSOR BOARD ASSY to the D. FACE TAPE by adjusting the four frames of the SENSOR BOARD ASSY to the frame of the D. FACE TAPE. Evenly press over the paper backing of each long / short side of the L shape.

- (2) Peel off the paper backing.

NOTE18k:

When removing the paper backing, check that there are no foreign substances or air bubbles on the tape. If there are foreign substances etc., completely remove them and continue the affixing procedure.

- Affixing the SENSOR BOARD ASSY to the MONI. CASE
(1) Affix the SENSOR BOARD ASSY to the MONI. CASE

NOTE18m:

When affixing, adjust the position of the long side of the L shape to avoid misalignment, and then press evenly.

Be sure to press hard for 10 seconds or more on each long/ short side of the L shape for even adhesion.

During the procedure, be careful to prevent foreign substances or air bubbles from entering.

- (2) After the replacement, make sure that there are no broken or deformed parts or any abnormalities.

Use the service software for the operation check of the touch sensor sensitivity.

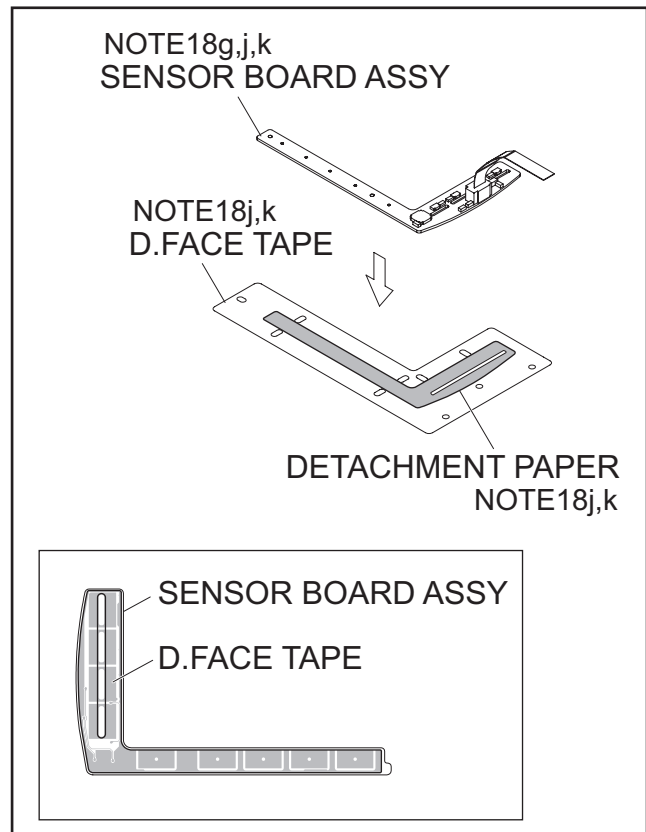


Fig.3-2-17

●**Removing HINGE UNIT ASSY**

- (1) Remove the screw (5), and remove the HINGE COVER(U).
- (2) Remove the HINGE COVER(L).
- (3) Remove the MAGNET.

NOTE18n:

During the procedure, be careful in handling the FPC.
During the procedure, be careful in handling the MAGNET.

When attaching, set the N pole outside as shown in the figure. Be careful when removing as there is no marking.

NOTE18p:

During the procedure, be careful in handling the FPC.

NOTE18q:

The FPC, with its connection to the MONITOR BOARD ASSY facing inward, is rolled around the axis (shaft) of the HINGE UNIT ASSY rotation 2.5 rounds (2.5times).

*: 0.118 N·m (1.2kgf·cm)

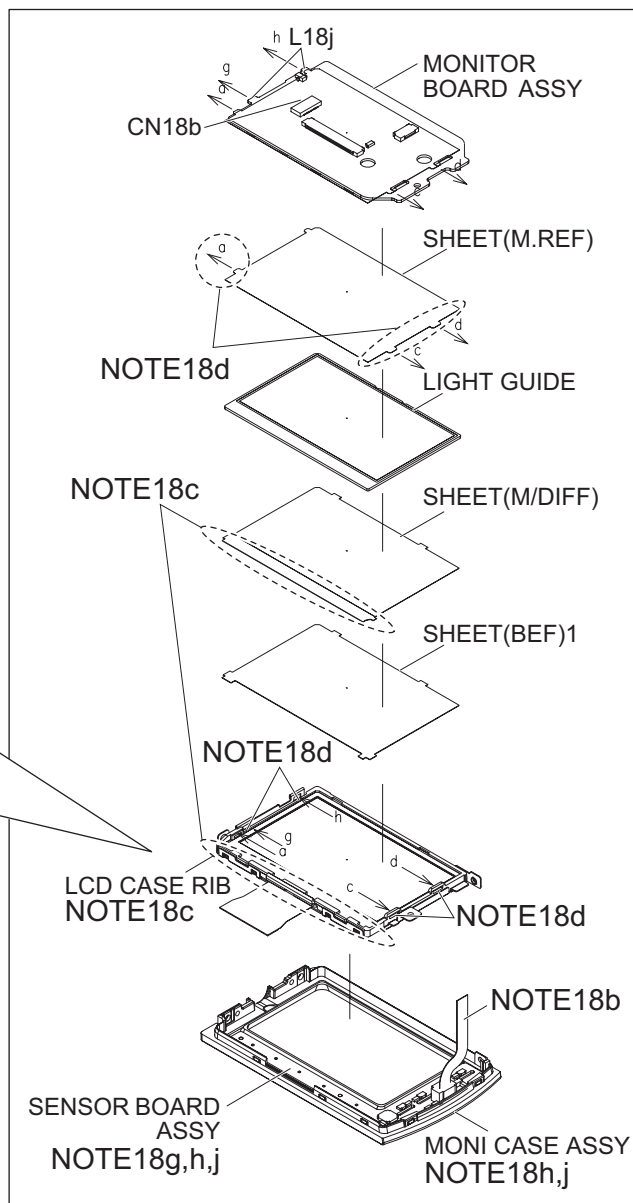
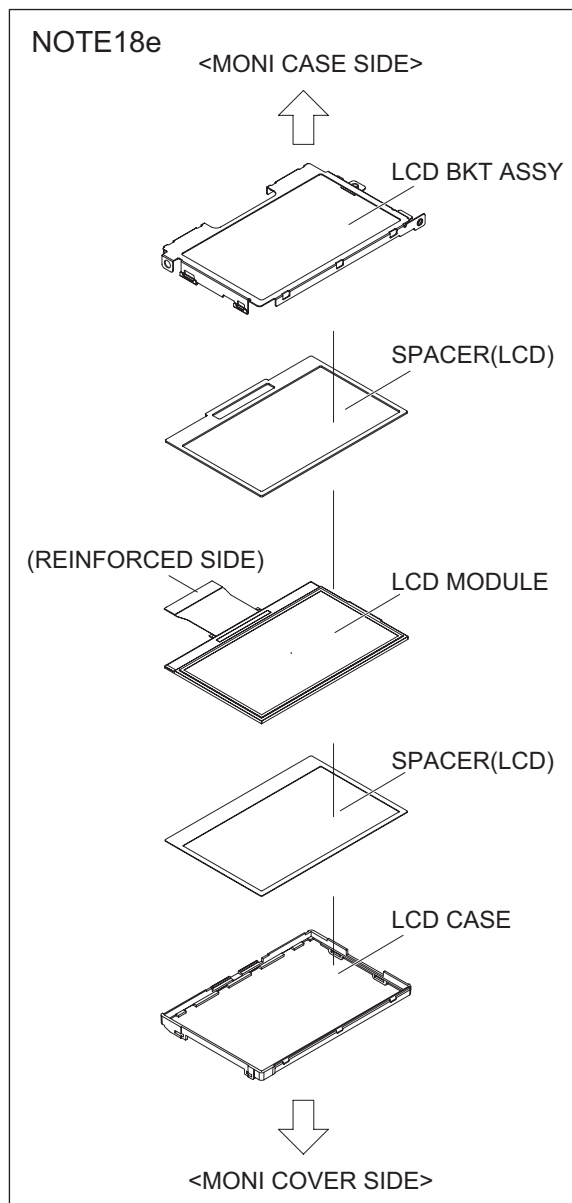
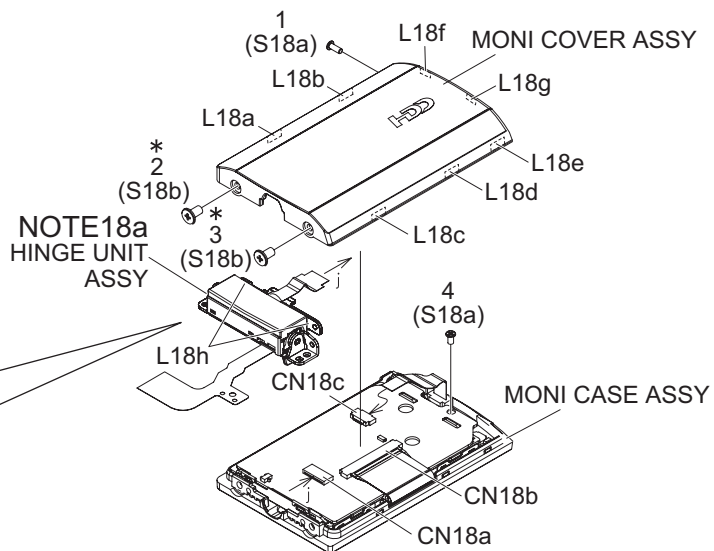
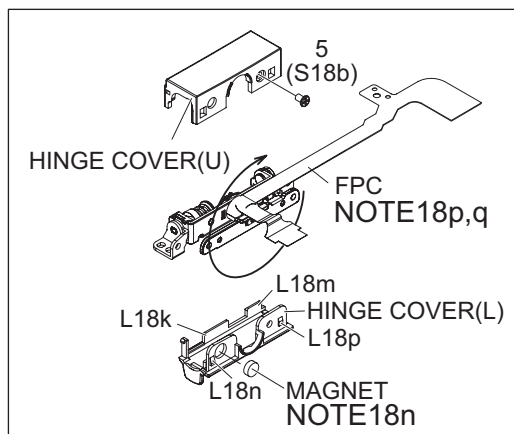


Fig.3-2-18

SECTION 4 ADJUSTMENT

4.1 PREPARATION

4.1.1 Precaution

Camera system and deck system of this model are specially adjusted by using PC.

However, if parts such as the following are replaced, an adjustment is required. The adjustment must be performed in a Service Center equipped with the concerned facilities.

- EEP ROM (IC1005 of MAIN board)
- OP BLOCK ASSEMBLY
- MONITOR ASSEMBLY

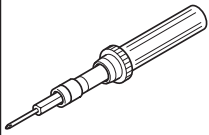
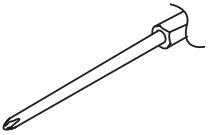
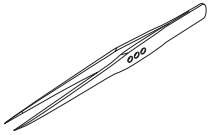
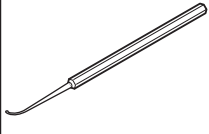
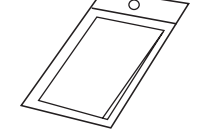
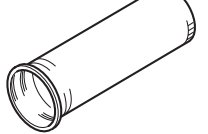
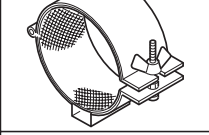
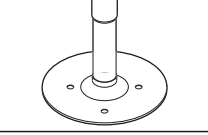
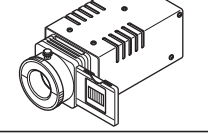
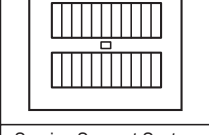
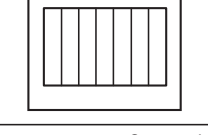
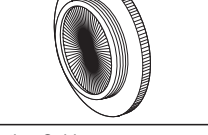
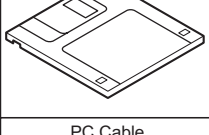
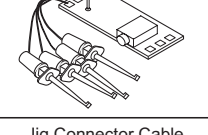
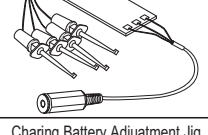
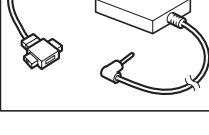
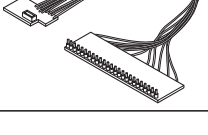
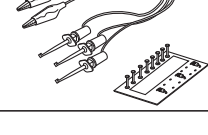
In the event of malfunction with electrical circuits, first find a defective portion with the aid of proper test instruments as shown in the following electrical adjustment procedure, and then commence necessary repair/ replacement/adjustment.

- In observing chip TP, use IC clips, etc. to avoid any stress. Prior to replacement of chip parts (especially IC), remove the solder completely to prevent peeling of the pattern.
- Use a patch cord if necessary. As for a patch cord, see the BOARD INTERCONNECTIONS.
- Since connectors are fragile, carefully handle them in disconnecting and connecting the FPC.

4.1.2 Required test equipment

- Personal computer (for Windows)
- Color TV monitor
- Oscilloscope (dual-trace type, observable 100MHz or higher frequency). The one observable 300 MHz or higher frequency is recommended.
- Digital voltmeter
- DC power supply or AC adapter
- Frequency counter (with threshold level adjuster)

4.1.3 Tools required for adjustment

Torque Driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC Replacement Jig PTS40844-2	Cleaning Cloth KSMM-01	INF Adjustment Lens YTU92001B
		
INF Adjustment Lens Holder YTU94087	Mini Stand YTU93108	Light Box Assembly YTU93096B
		
Gray Scale Chart YTU94133A	Color Bar Chart YTU94133C	Focus Chart YTU92001-018
		
Service Support System YTU94057-109	Communication Cable YTU93111-1	
		
PC Cable QAM0099-005	Jig Connector Cable YTU93106D	Charing Battery Adjustment Jig YTU93112A
		

• Torque Driver

Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.

• Bit

This bit is slightly longer than those set in conventional torque drivers.

• Tweezers

To be used for removing and installing parts and wires.

• Chip IC Replacement Jig

To be used for adjustment of the camera system.

• Cleaning Cloth

Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

- **INF Adjustment Lens**

To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.

- **INF Adjustment Lens Holder**

To be used together with the Camera stand for operating the Videocamera in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring. For the usage of the INF lens holder, refer to the Service Bulletin No. YA-SB-10035.

- **Mini Stand**

To be used together with the INF adjustment lens holder. For the usage of the Mini stand, refer to the Service Bulletin No. YA-SB-10035.

- **Light Box Assembly**

To be used for adjustment of the camera system. For the usage of the Light box assembly, refer to the Service Bulletin No. YA-SB-10035.

- **Gray Scale Chart**

To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.

- **Color Bar Chart**

To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.

- **Focus Chart**

To be used for adjustment of the camera system. For the usage of the INF adjustment lens, refer to the Service Bulletin No. YA-SB-10035.

- **Service Support System**

To be used for adjustment with a personal computer. Software can be downloaded also from JS-net.

- **Communication Cable**

Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.

- **PC Cable**

To be used to connect the Videocamera and a personal computer with each other when a personal computer issued for adjustment.

- **Jig Connector Cable**

Connected to JIG CONNECTOR of the main board and used for electrical adjustment, etc.

- **Charging Battery Adjustment Jig**

This Jig is used for the adjustment of the camcorders that have Main Body battery charging function.

4.2 JIG CONNECTOR CABLE CONNECTION

■ Connection procedure

NOTE

- Be sure to turn the power "OFF", when connecting the JIG CONNECTOR CABLE.

If the JIG CONNECTOR CABLE is connected with the power "ON", communication error may occur.

- Remove the 3 screws (1-3), and then remove the B.COVER ASSY.

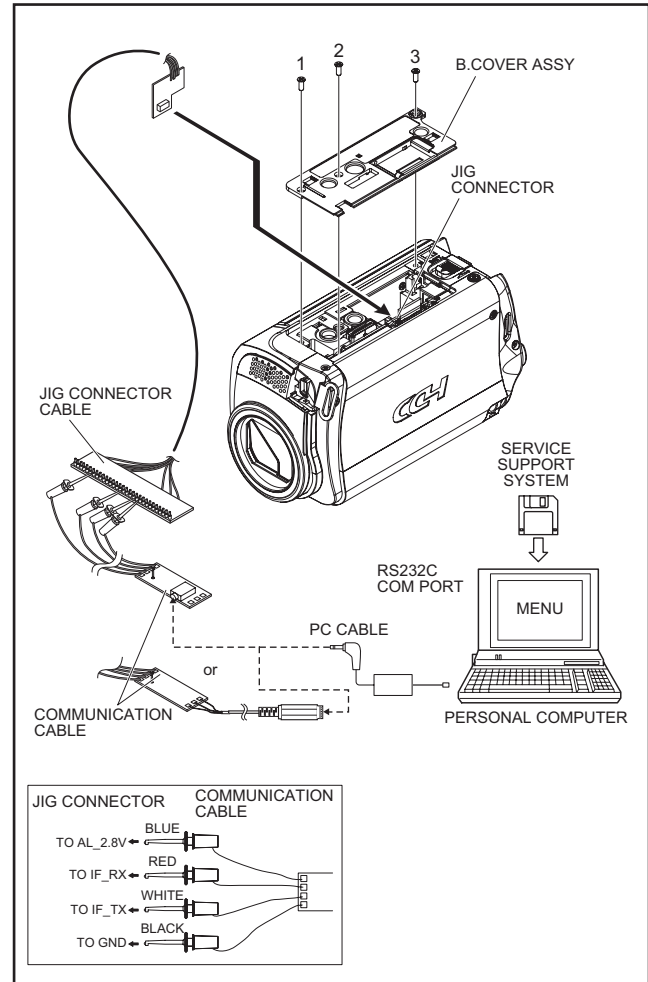


Fig.4-2-1

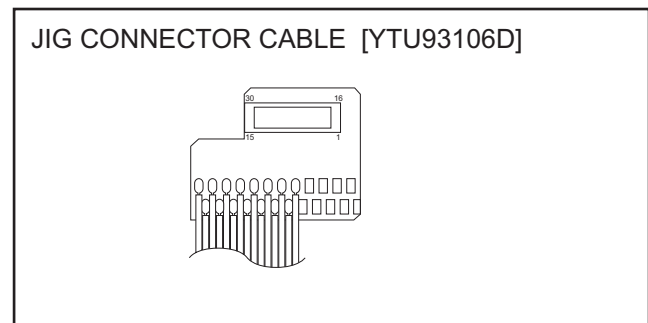


Fig.4-2-2

■ Jig connector diagrams

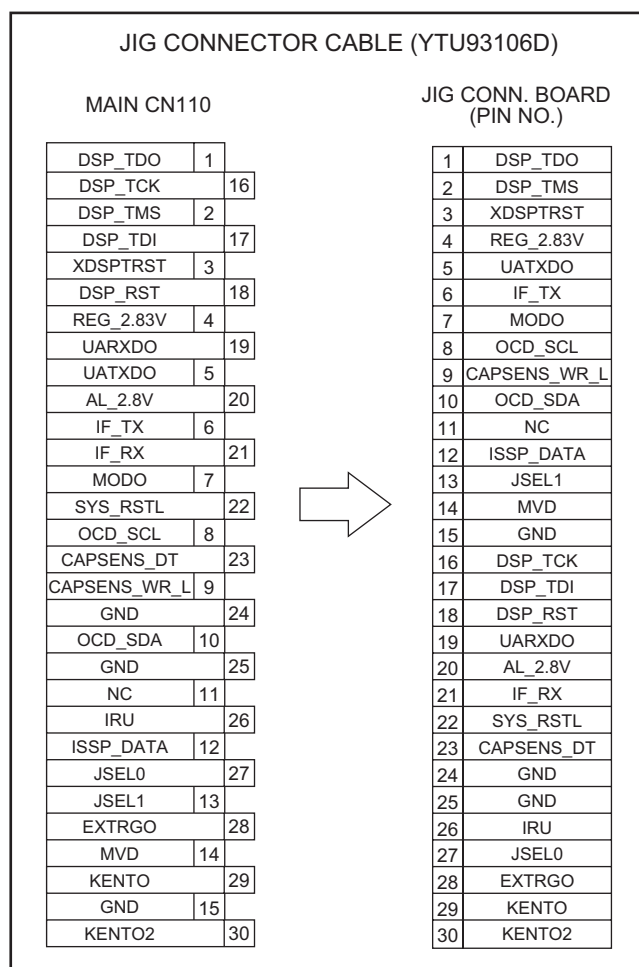


Fig.4-2-3

SECTION 5 TROUBLE SHOOTING

5.1 SERVICE NOTE

CABINET PARTS AND ELECTRICAL PARTS(1)

Symbol No.	[1]	[2]	[3]			[4]	[5]	[6]			[7]	[8]	[9]	[10]	[11]											
Removing order of screw	1	2	3	4	5	6	7	8	9	10	-	11	12	13	14	15	16	17	18	19	20	-	21	22	23	
Place to stick screw	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Reference drawing (Fig.No.)	3-2-1	3-2-2	3-2-3			3-2-4			3-2-5			3-2-6			3-2-7						3-2-8			3-2-9		
Screw tightening torque	a											-	a						a							

CABINET PARTS AND ELECTRICAL PARTS(2)

Symbol No.	[12]	[13]	[14]	[15]	[16]	[17]	[18]
Removing order of screw	24	25	26	27	28	29	30
Place to stick screw	**	**			*	*	*
Reference drawing (Fig.No.)	3-2-10	3-2-11	3-2-12	3-2-13	3-2-14-1	3-2-15	3-2-16
Screw tightening torque	a						b

[14]OP BLOCK ASSY/CCD BOARD ASSY

Symbol No.	[14]
Removing order of screw	1
Place to stick screw	2
Reference drawing (Fig.No.)	3-2-16
Screw tightening torque	d

[18]MONITOR ASSY

[18]
1
2
3
4
5
*
*
3-2-17
a

2.3 CRADLE

Symbol No.	-
Removing order of screw	1
Place to stick screw	2
Reference drawing (Fig.No.)	2-3-1
Screw tightening torque	f

NOTE:

- 1) * and ** (This mark shows where to attach the screws) : Do not reuse the screws because the screw lock bond was applied to prevent the screws from loosening.
Prepare the specified screws and use them in place of the removed screws.
- 2) Tightening torque for the screws
 - There are setting limits of the torque value for the torque driver. If the value exceeds the setting value, take it as a rough measurement (reference value), and tighten the screw manually.
 - The specified torque value is a recommended value of the initial assembly. Therefore, set the value below the specified torque value in the assembling procedure. Be careful not to break either the screws or the screw holes.

a : 0.088N·m (0.9kgf·cm) b : 0.118N·m (1.2kgf·cm) c : 0.196N·m (2.0kgf·cm)
d : 0.147N·m (1.5kgf·cm) e : 0.078N·m (0.8kgf·cm) f : 0.069N·m (0.7kgf·cm)



Victor Company of Japan, Limited
Camcorder Category 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

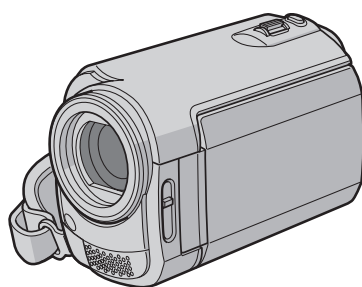


SCHEMATIC DIAGRAMS

HARD DISK CAMCORDER

**GZ-MG330HEK, GZ-MG330HER,
GZ-MG330HEX, GZ-MG330HEZ,
GZ-MG335HEK, GZ-MG335HER,
GZ-MG335HEX, GZ-MG335HEZ,
GZ-MG340HEX, GZ-MG365HEK,
GZ-MG365HER, GZ-MG365HEX,
GZ-MG365HEZ**

CD-ROM No.SML200802



GZ-MG330HEKM, GZ-MG330HERM, GZ-MG330HEXM,
GZ-MG330HEZM, GZ-MG340HEXM [M8E302]
GZ-MG335HEKM, GZ-MG335HERM
GZ-MG335HEXM, GZ-MG335HEZM [M8E304]
GZ-MG365HEKM, GZ-MG365HERM
GZ-MG365HEXM, GZ-MG365HEZM [M8E308]

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components indentified by the symbol  are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

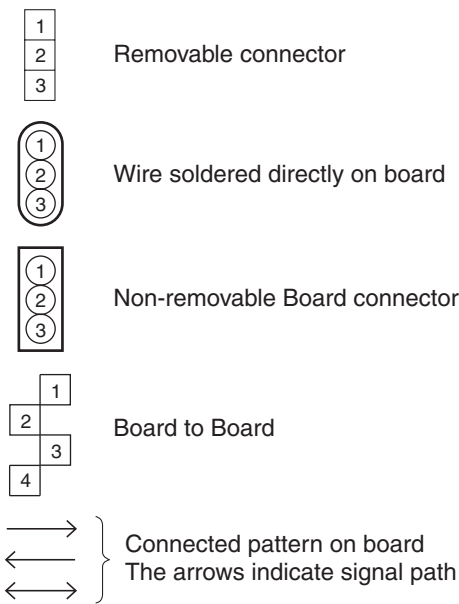
- Unless otherwise specified.
- 1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
Chip resistors are 1/16 W.
K: KΩ(1000Ω), M: MΩ (1000KΩ)
 - 2) All capacitance values are in μF, (P: PF).
 - 3) All inductance values are in μH, (m: mH).
 - 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

- AUX : Active at high.
 $\overline{\text{AUX}}$ or AUX(L) : Active at low.

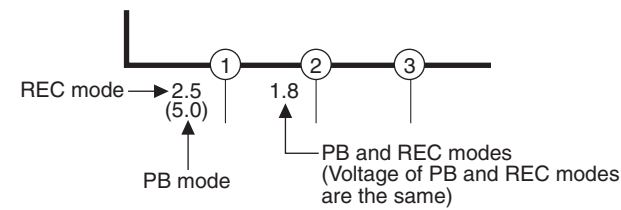
3. Interpreting Connector indications



Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

- 1) Regulator (DC/DC CONV) circuits
REC : Colour bar signal.
PB : Alignment tape (Colour bar).
— : Unmeasurable or unnecessary to measure.
- 2) Indication on schematic diagram
Voltage indications for REC and PB mode on the schematic diagram are as shown below.

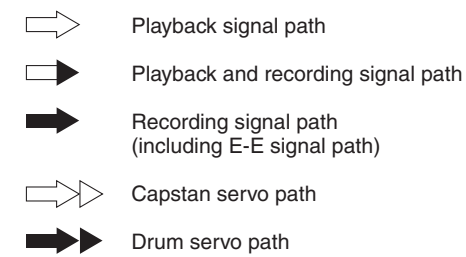


Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

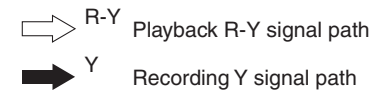
5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.



(Example)



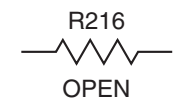
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



CIRCUIT BOARD NOTES

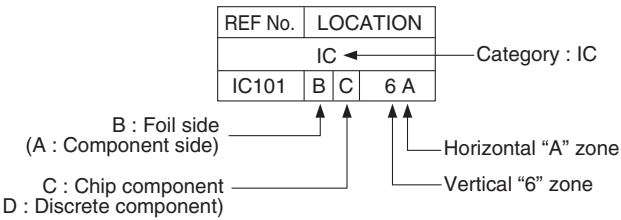
1. Foil and Component sides

- 1) Foil side (B side) :
Parts on the foil side seen from foil face (pattern face) are indicated.
- 2) Component side (A side) :
Parts on the component side seen from component face (parts face) indicated.

Parts location are indicated by guide scale on the circuit board.

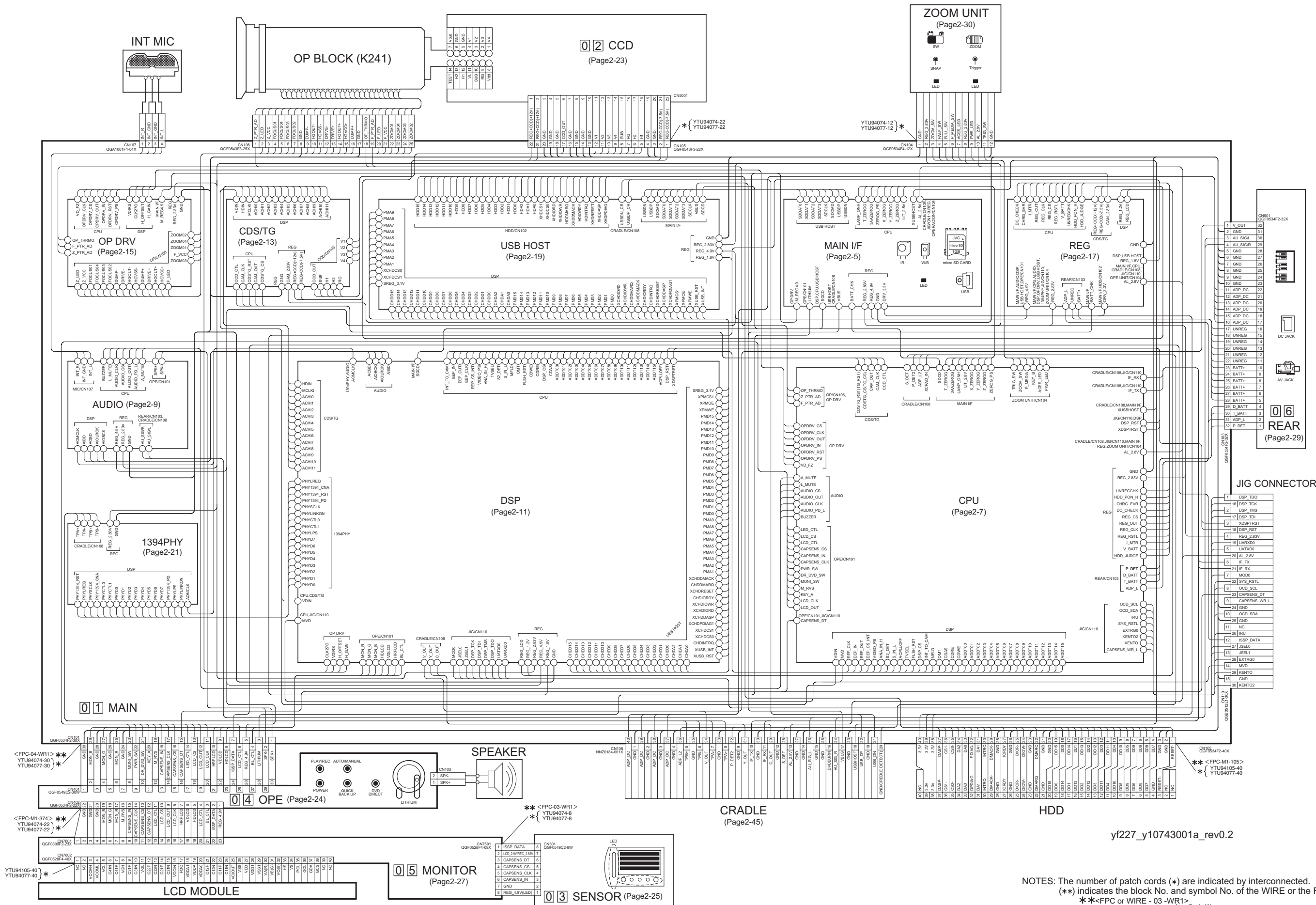
2. Parts location guides

Parts location are indicated by guide scale on the circuit board.

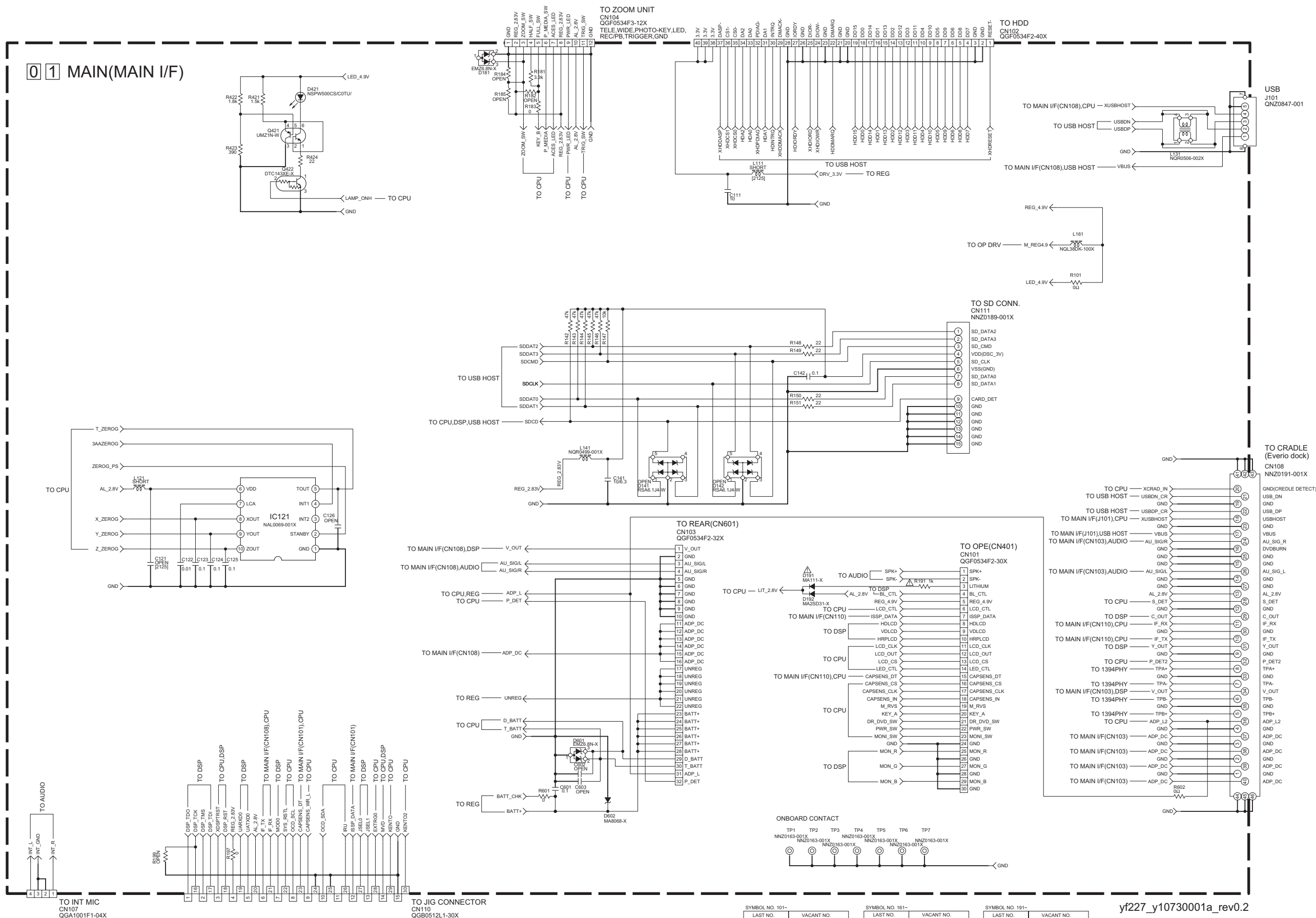


Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

BOARD INTERCONNECTION

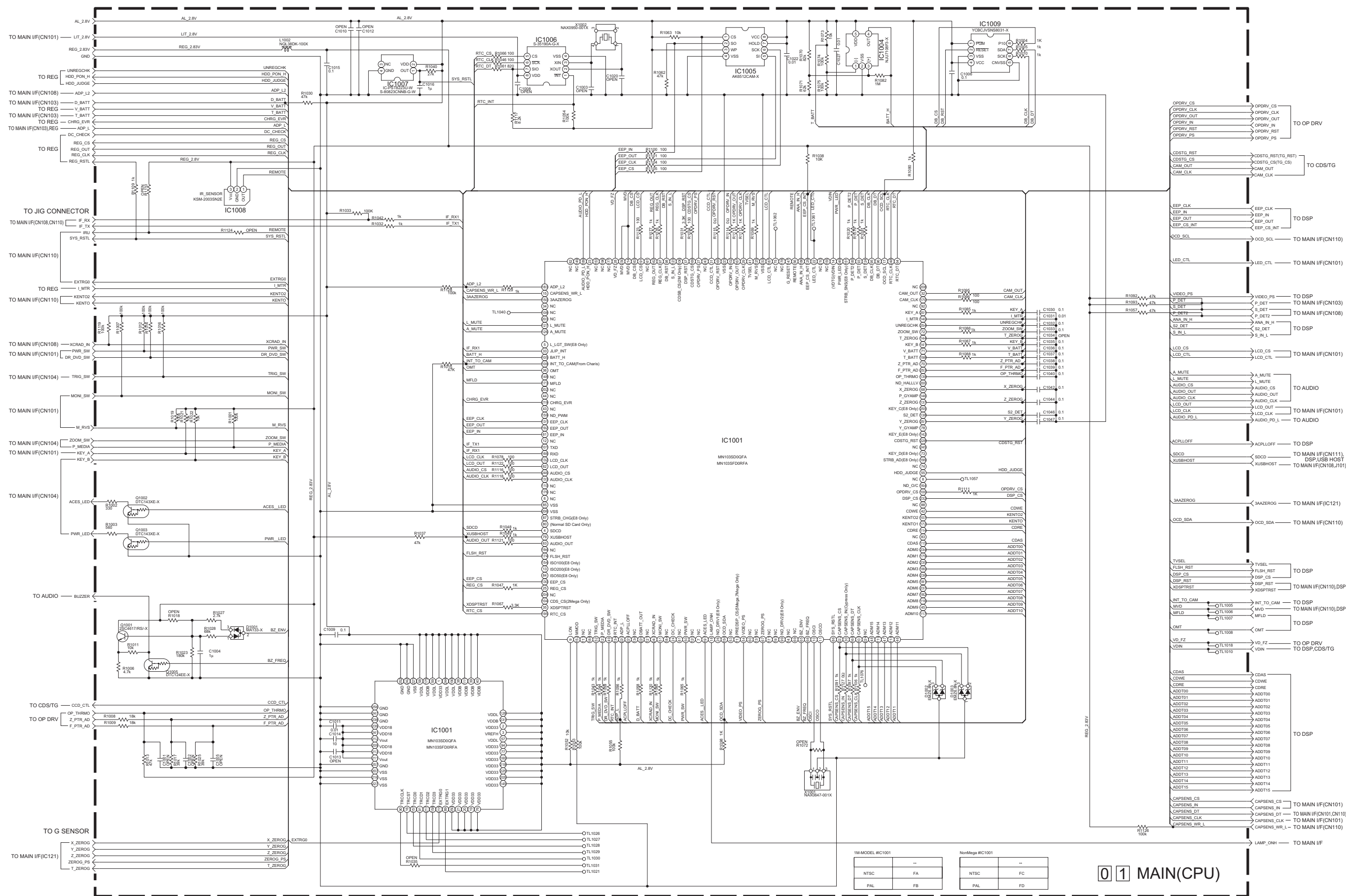


■ MAIN(MAIN I/F) SCHEMATIC DIAGRAM



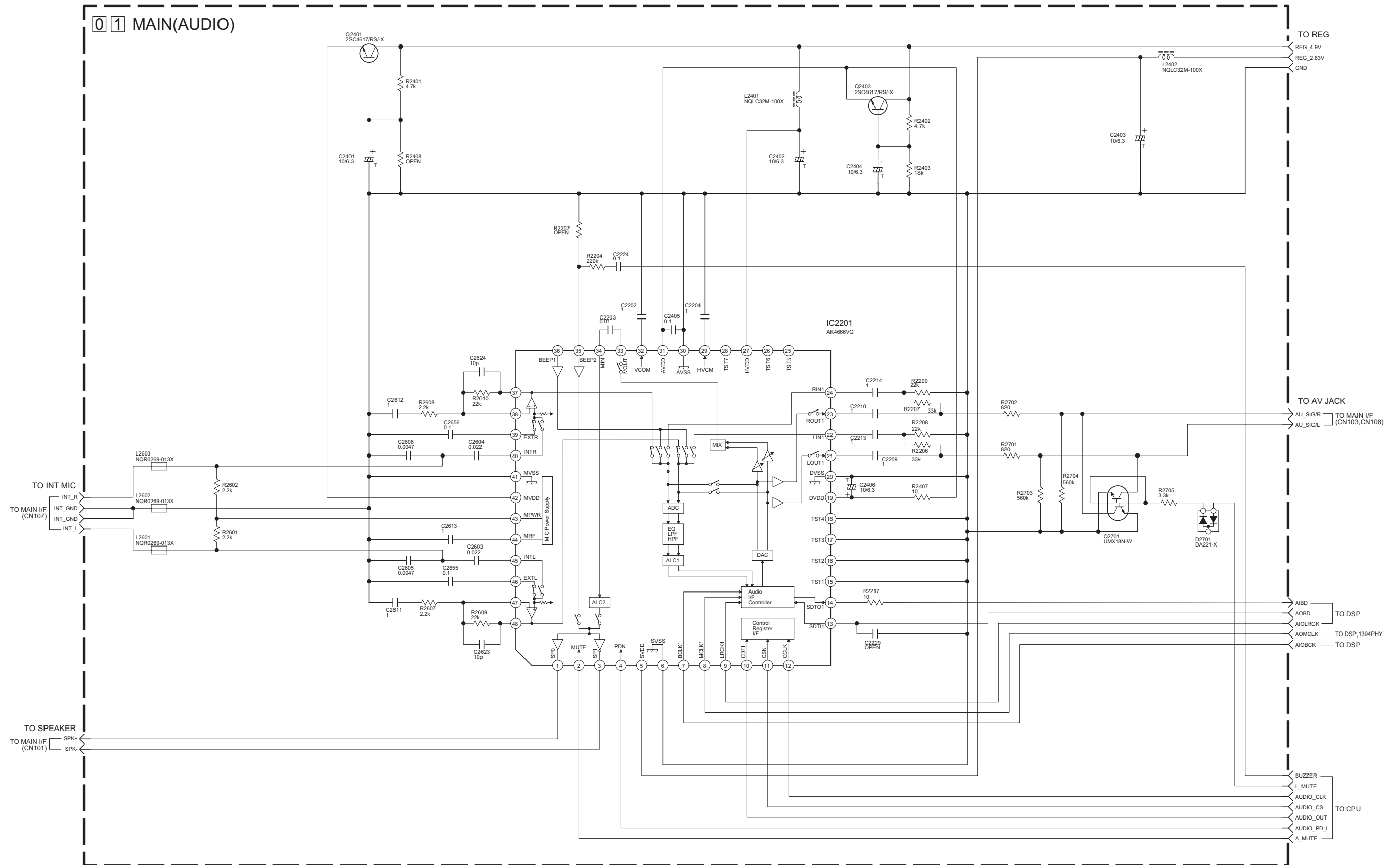
NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

■ MAIN(CPU) SCHEMATIC DIAGRAM



NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

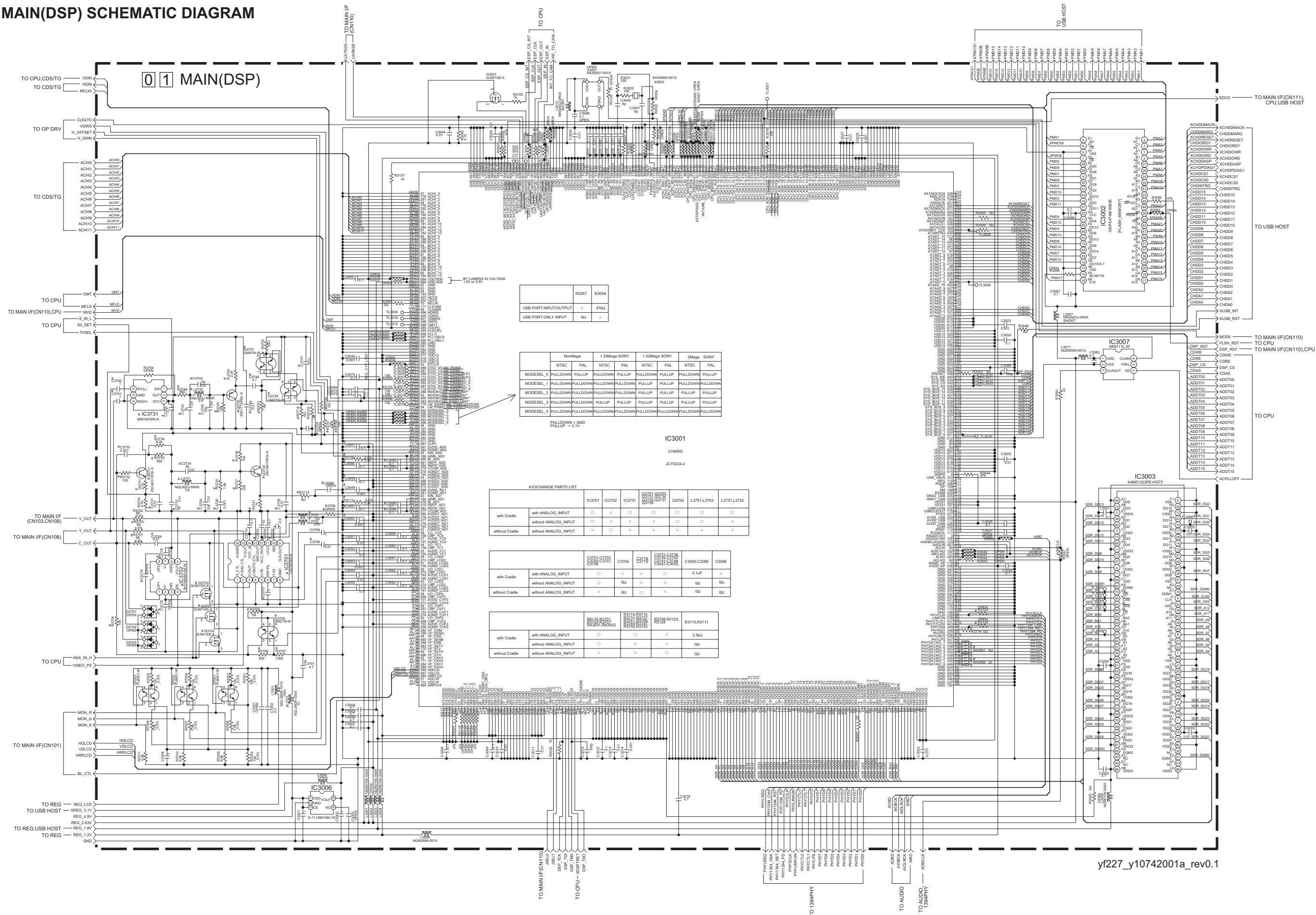
■ MAIN(AUDIO) SCHEMATIC DIAGRAM



yf227_y20455001a_rev0.1

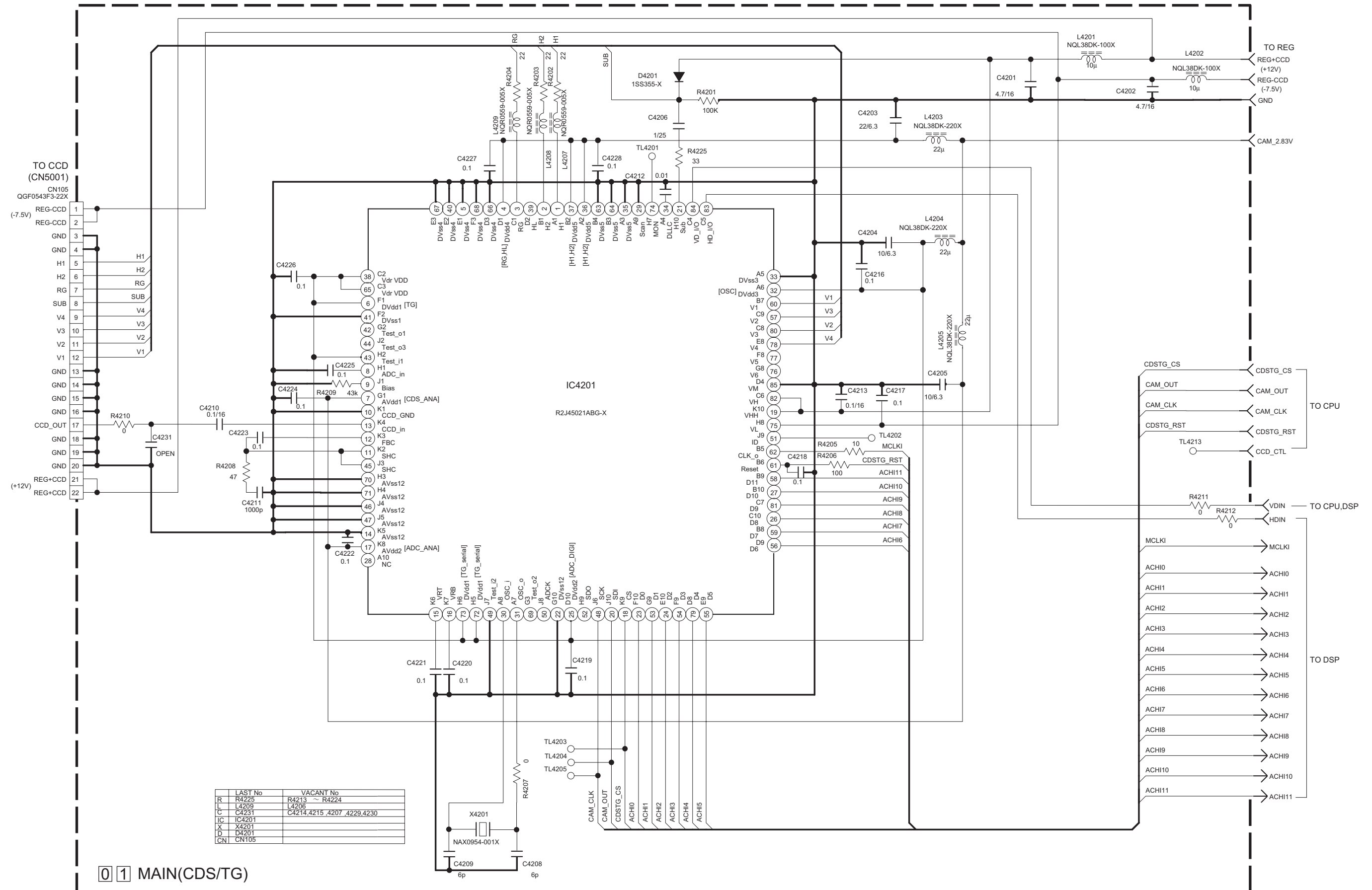
NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

■ MAIN(DSP) SCHEMATIC DIAGRAM



NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

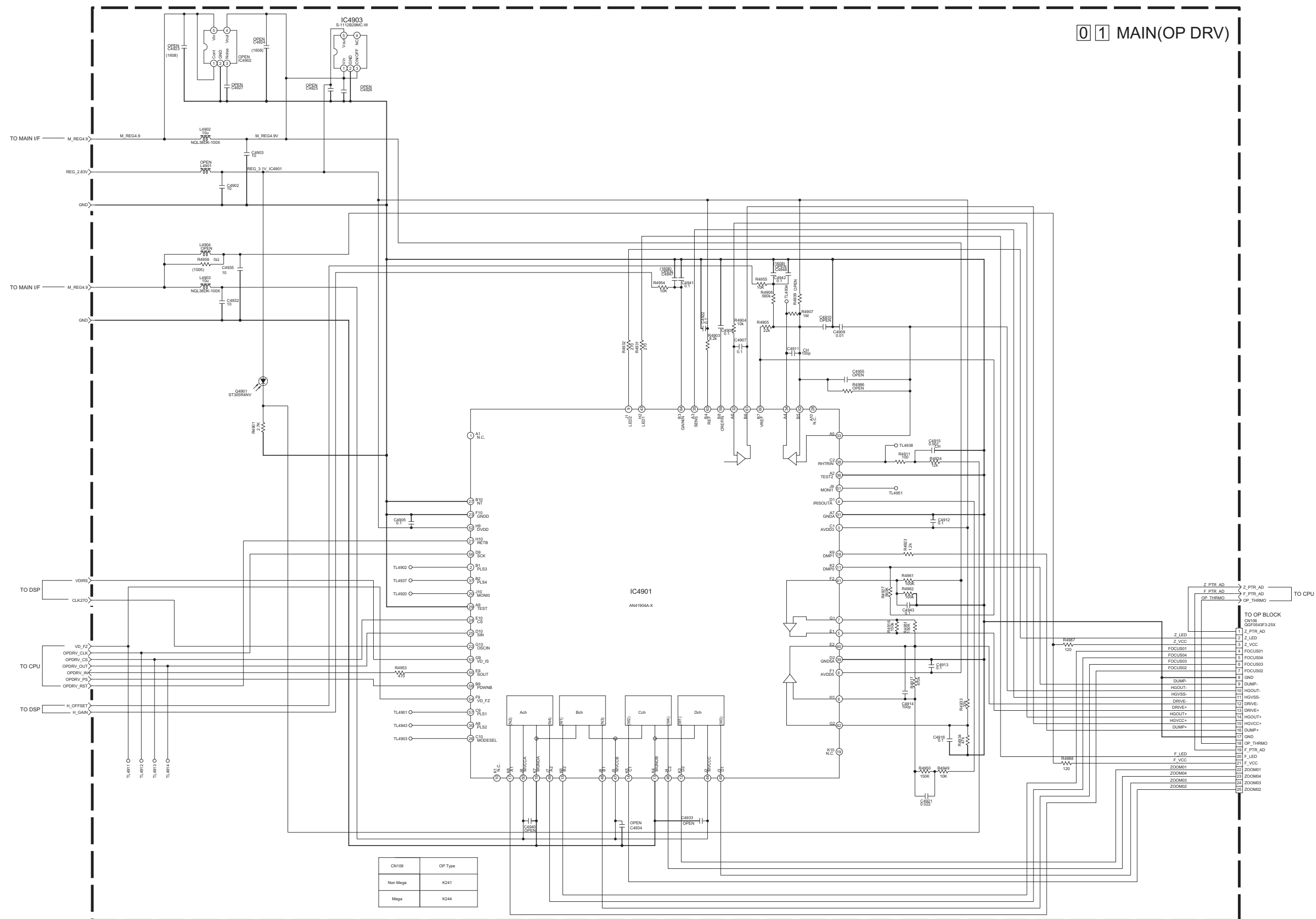
■ MAIN(CDS/TG) SCHEMATIC DIAGRAM



NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

yf227_y30404001a_rev0.1

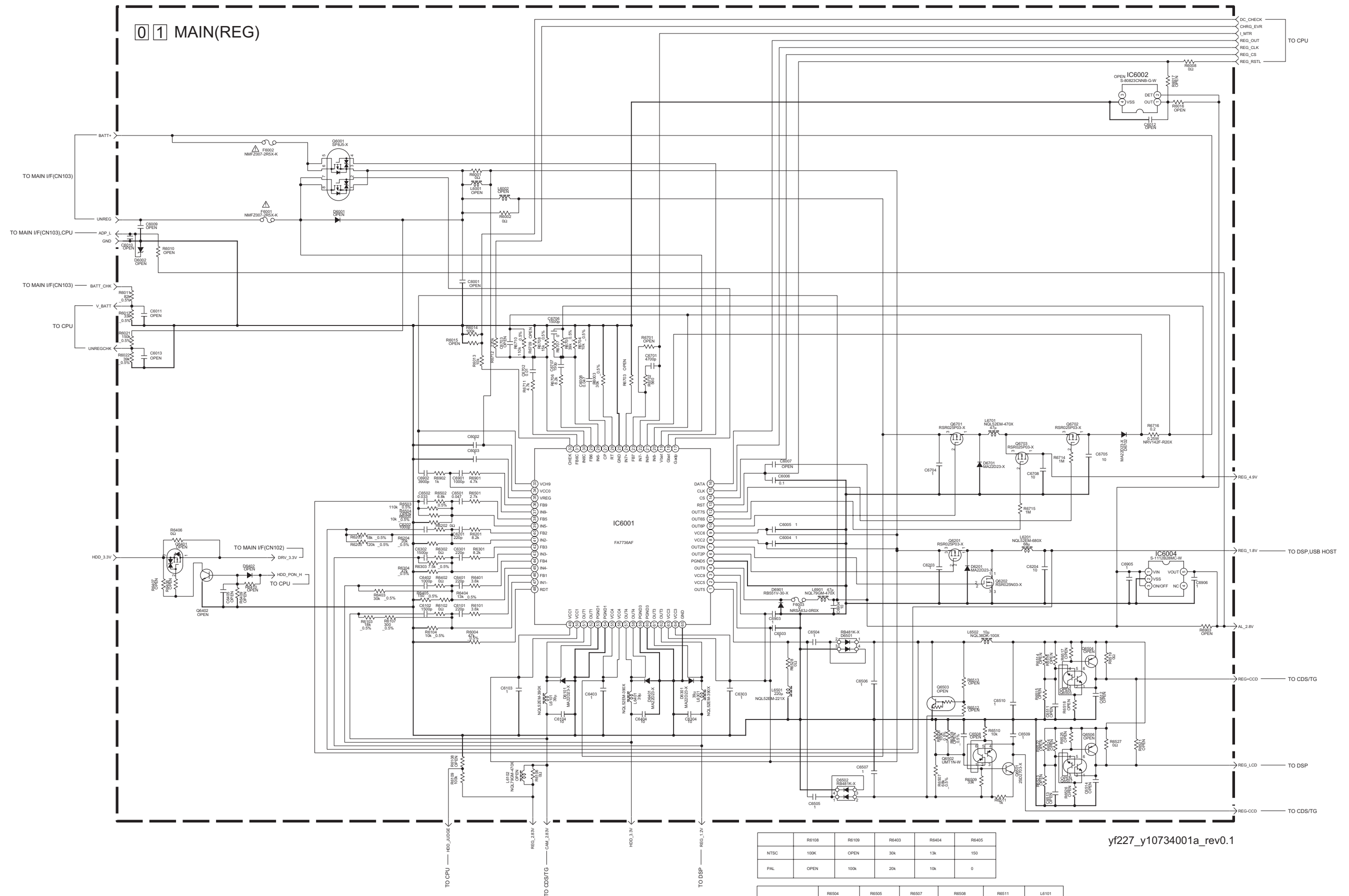
■ MAIN(OP DRV) SCHEMATIC DIAGRAM



NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

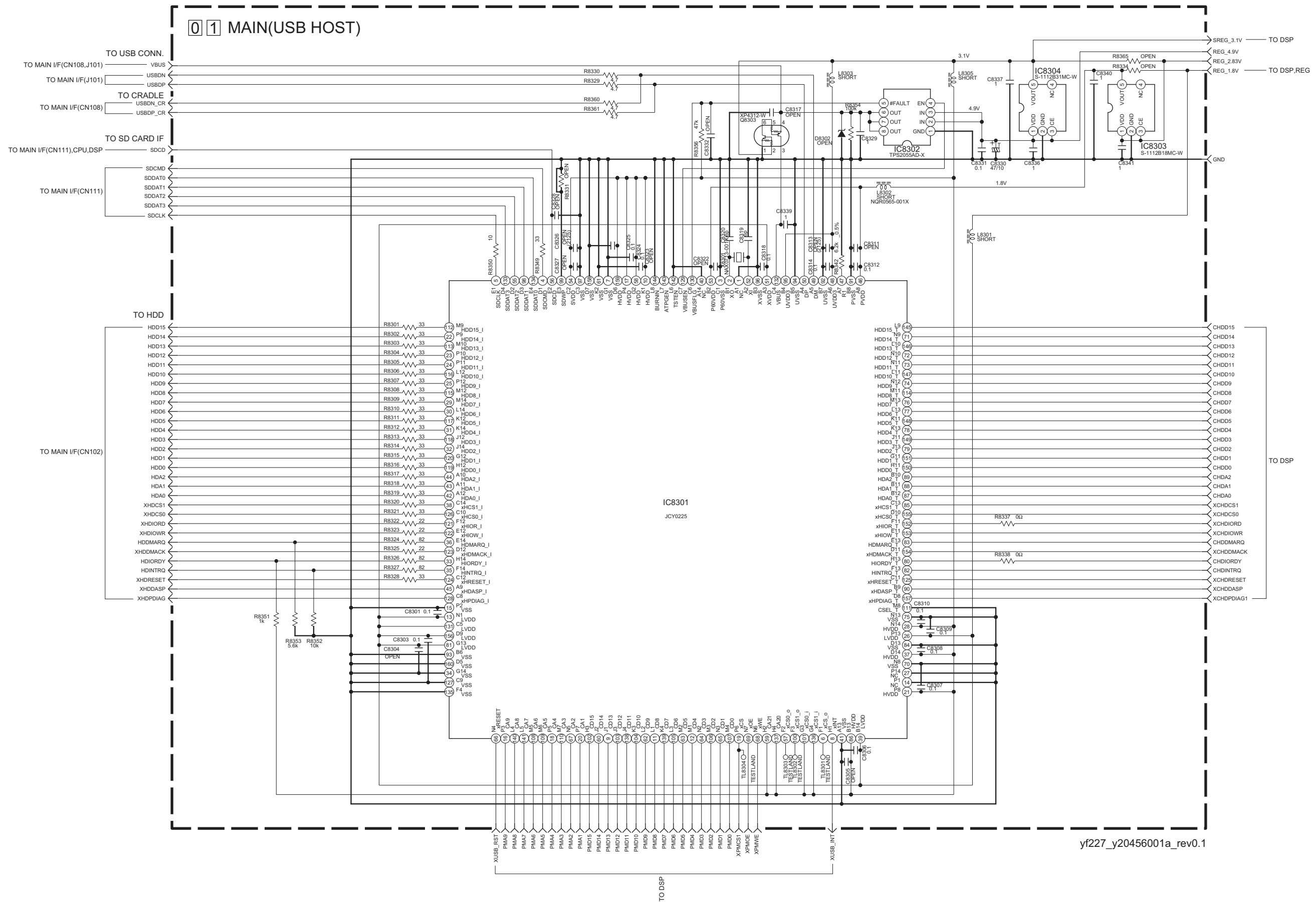
yf227_y10733001a_rev0.2

■ MAIN(REG) SCHEMATIC DIAGRAM



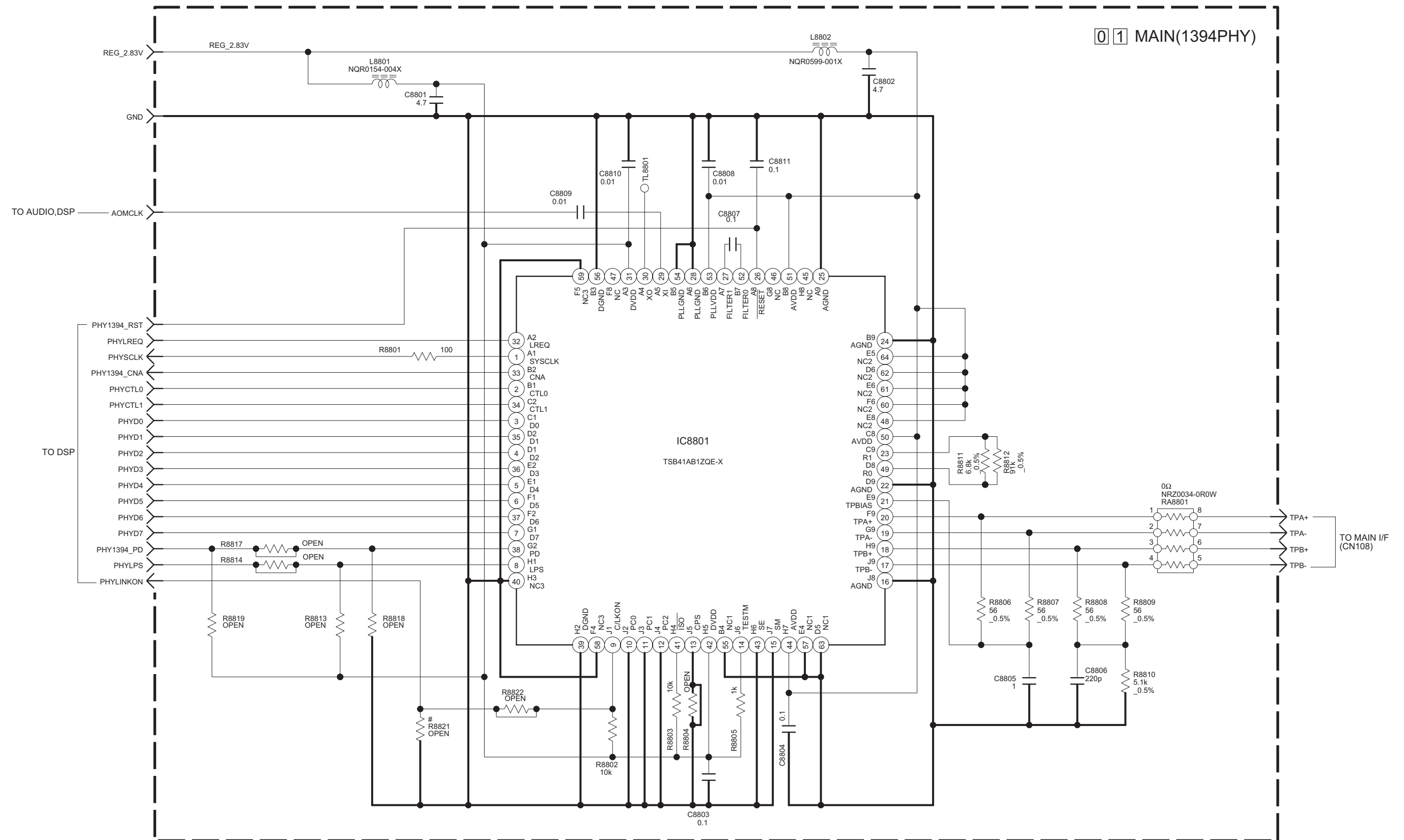
NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

■ MAIN(USB HOST) SCHEMATIC DIAGRAM



NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

■ MAIN(1394PHY) SCHEMATIC DIAGRAM

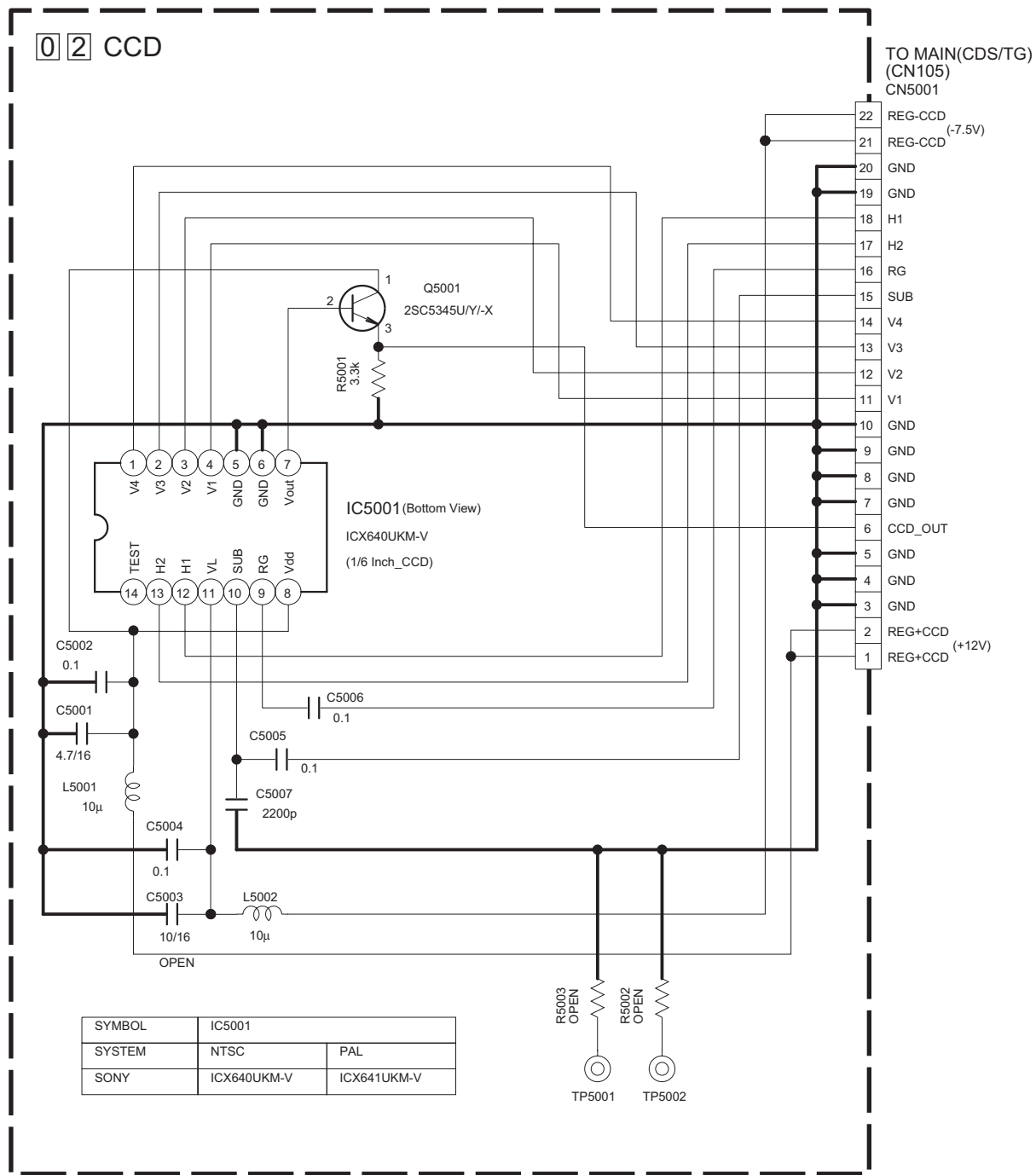


yf227_y30399001a_rev0.1

#EXCHANGE PARTS WITHOUT CRADLE		
R8821	OPEN →	0 Ω

NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

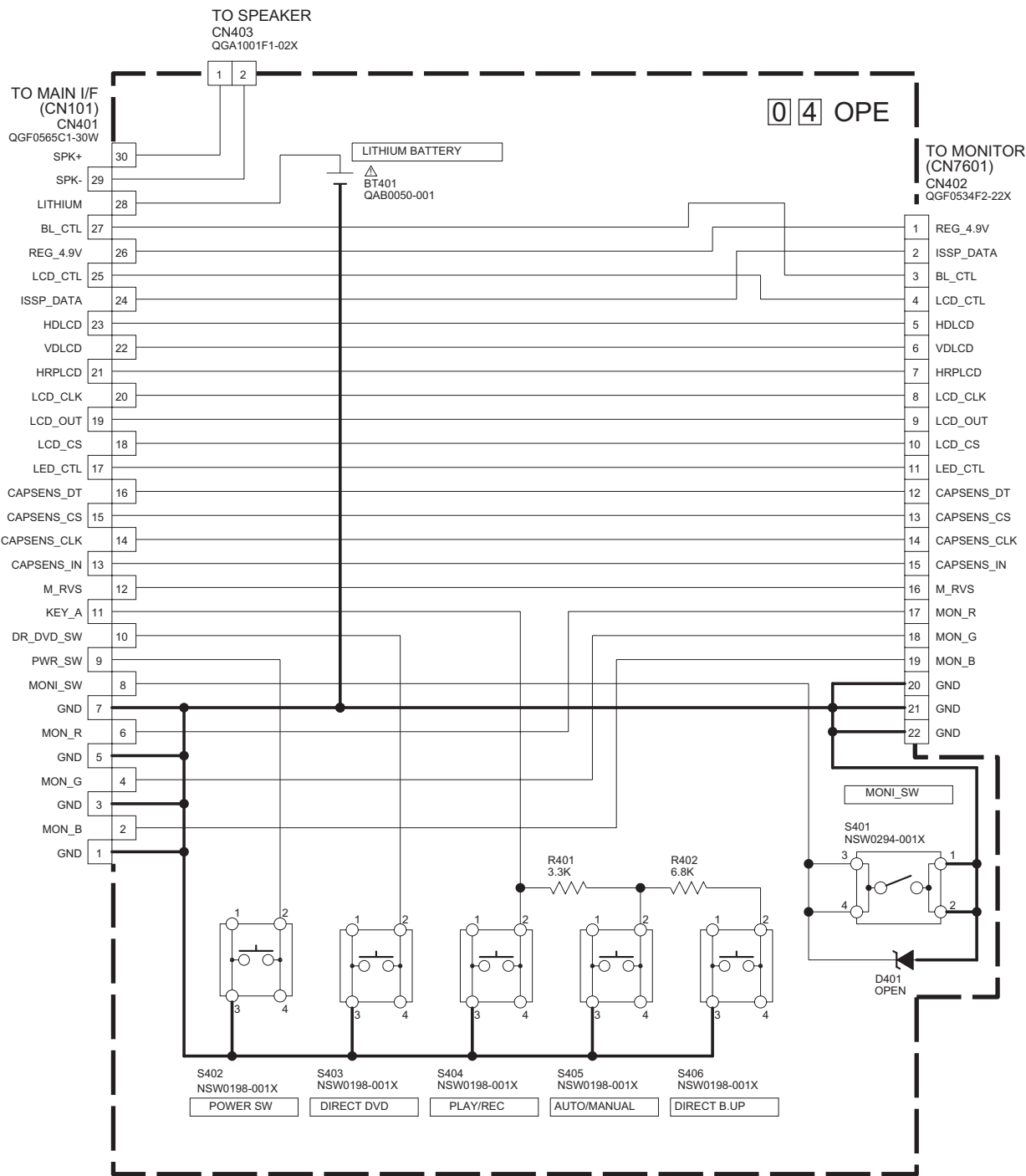
■ CCD SCHEMATIC DIAGRAM



yf227_y40198001a_rev0.1

NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. IC5001 is incorporated in the CCD base assembly .
When IC5001 needs replacement, replace the CCD base assembly in whole because it cannot be replaced alone.

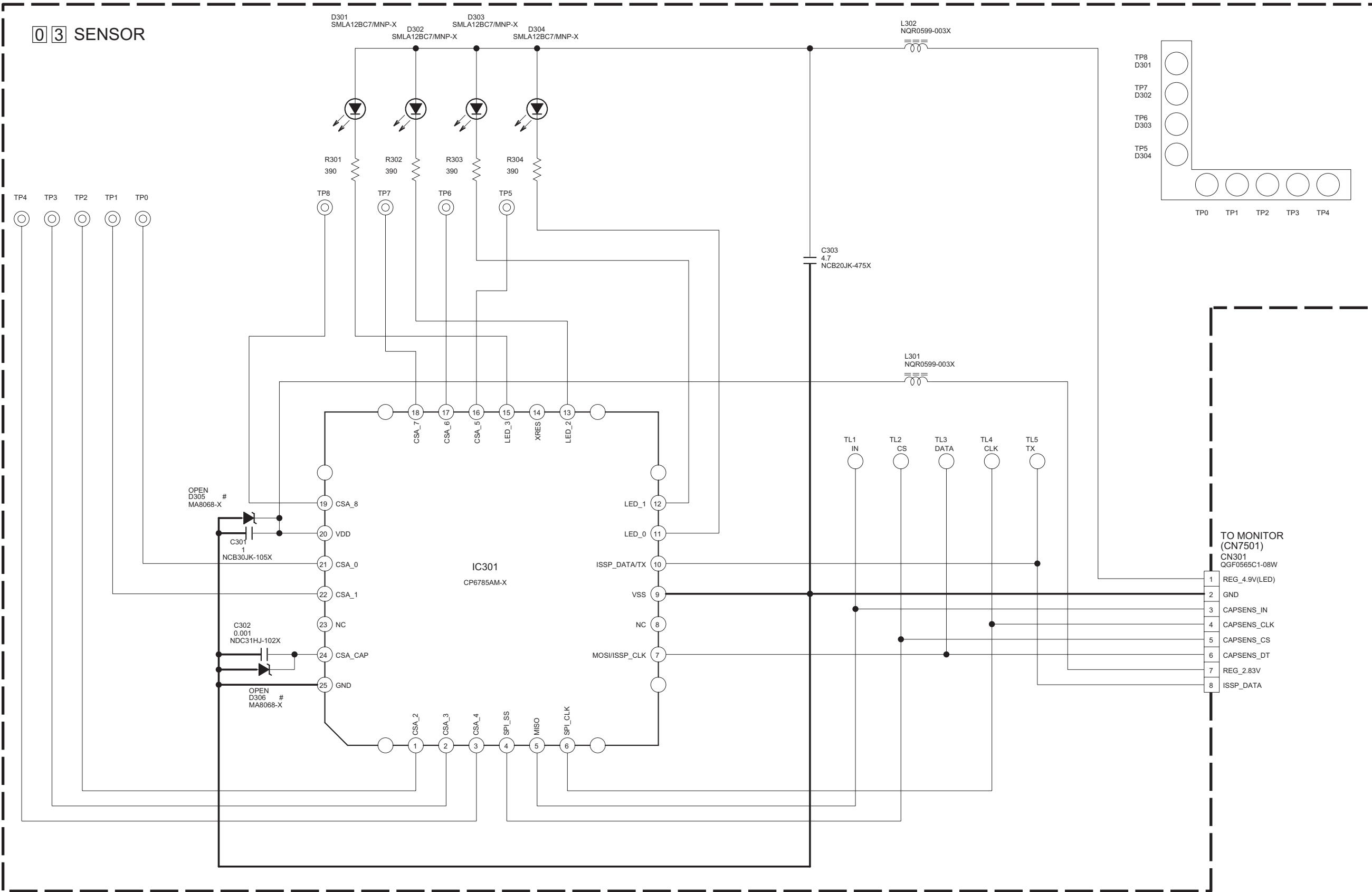
■ OPE SCHEMATIC DIAGRAM



yf227_y40197001a_rev0.1

NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

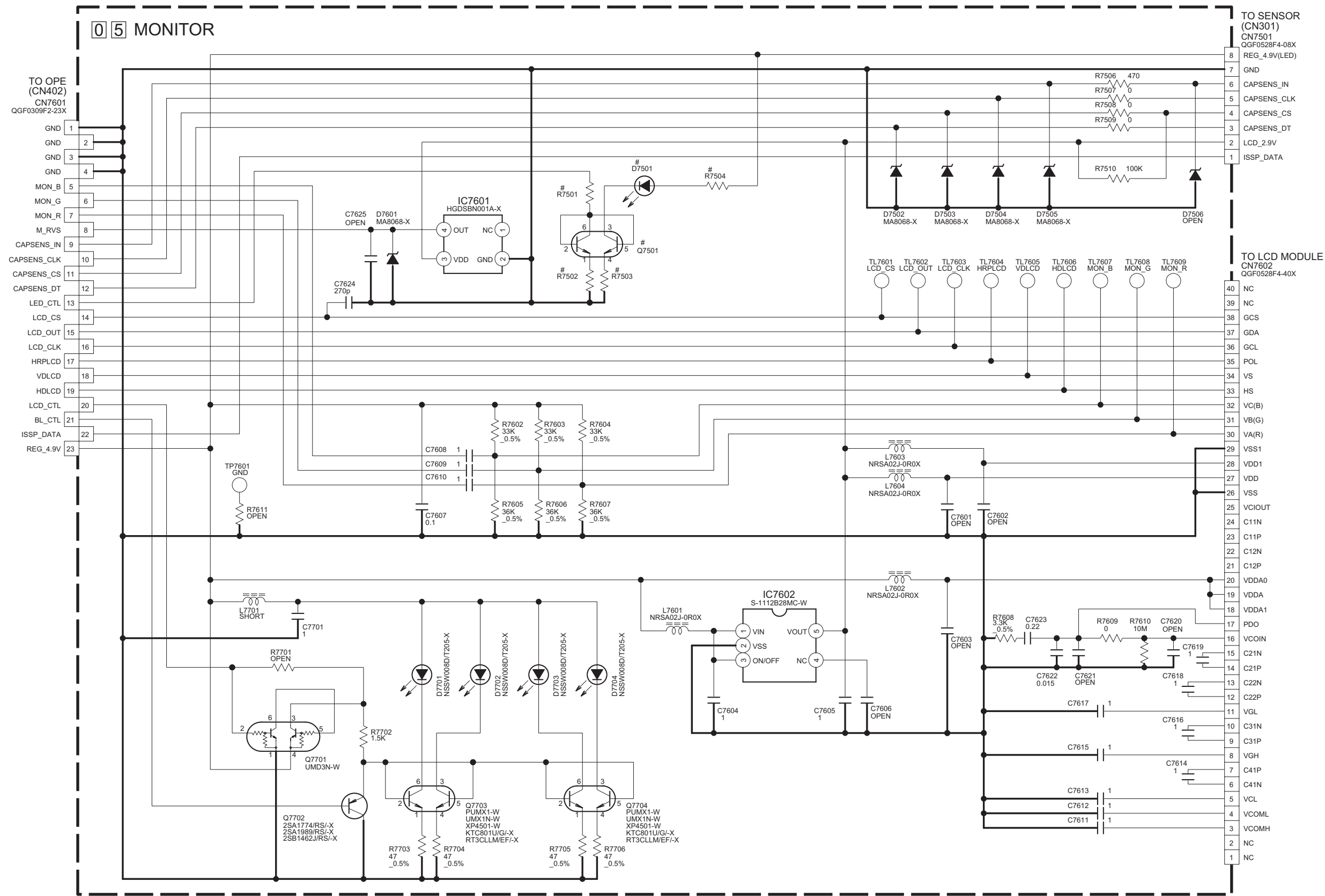
■
 SENSOR SCHEMATIC DIAGRAM



#DIFFERENT PARTS			
	ASS'Y NO.	D305	D306
M8E3	LYA10121-01A1	NO SYMBOL	NO SYMBOL
	LYA10121-01B1	OPEN	OPEN
M8E8	LYA10129-01A1	OPEN	OPEN

NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

■ MONITOR SCHEMATIC DIAGRAM

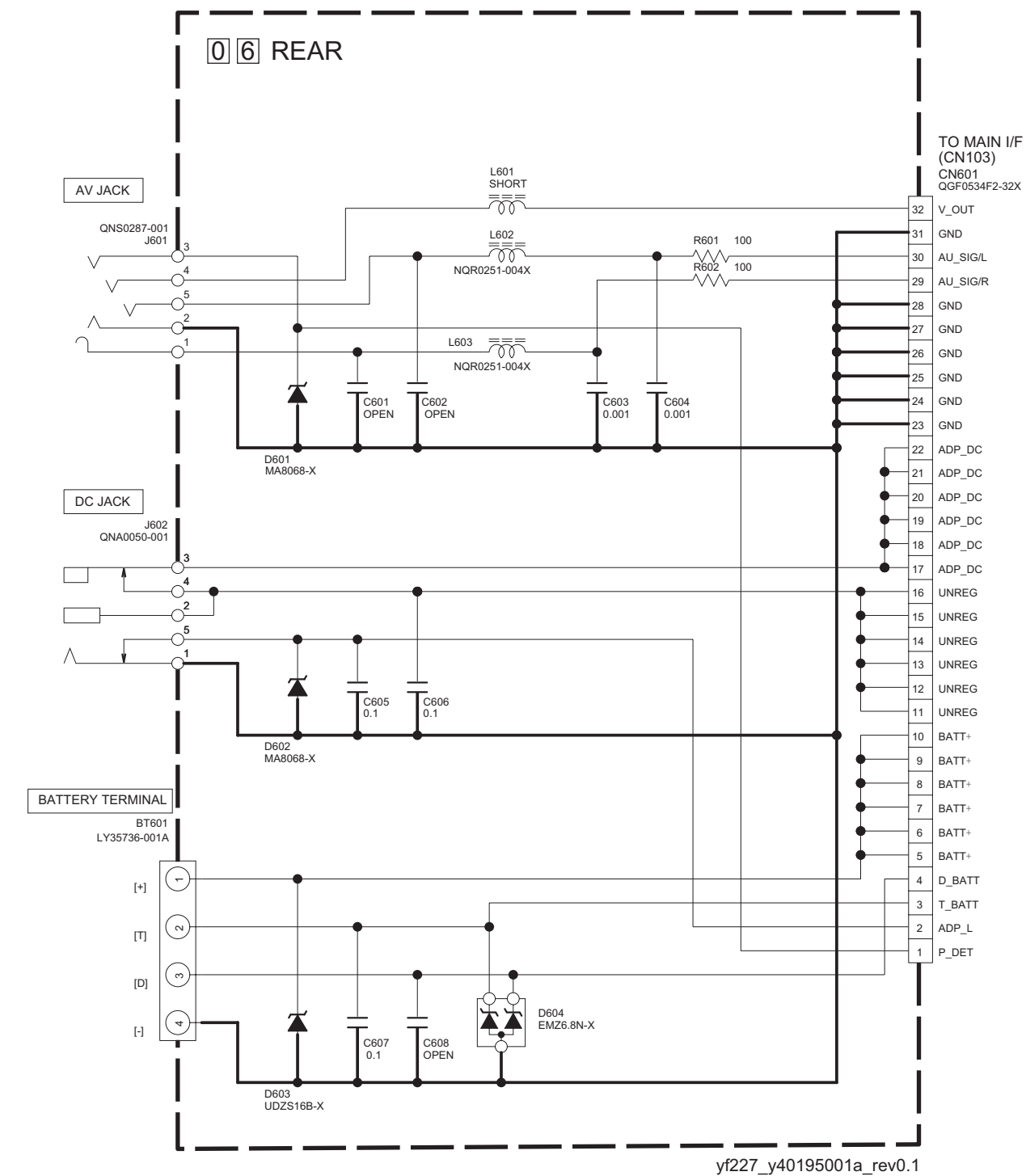


Difference Table

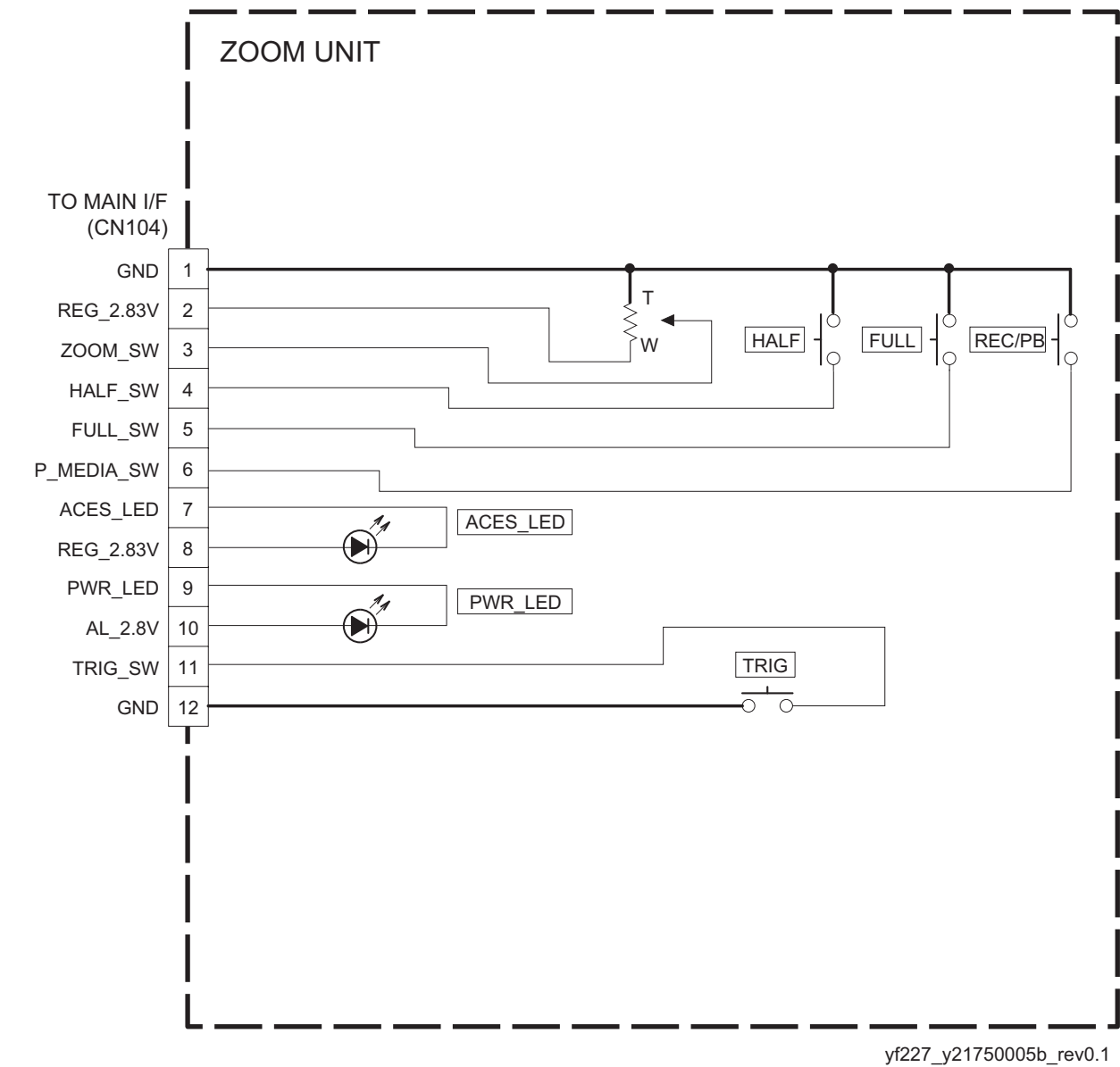
	R7501	R7502	R7503	R7504	D7501	Q7501
without HDD Illumi	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
with HDD Illumi	3.3K	1K	39	0Ω	SMLA12BC7/NP/-X	PUMX1-W etc.

NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

REAR SCHEMATIC DIAGRAM



ZOOM UNIT SCHEMATIC DIAGRAM



NOTE: For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

NOTES :1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2.The schematic diagram is only for reference. Avoid replacing individual parts.
Replace the entire unit only.

■ MAIN CIRCUIT BOARD

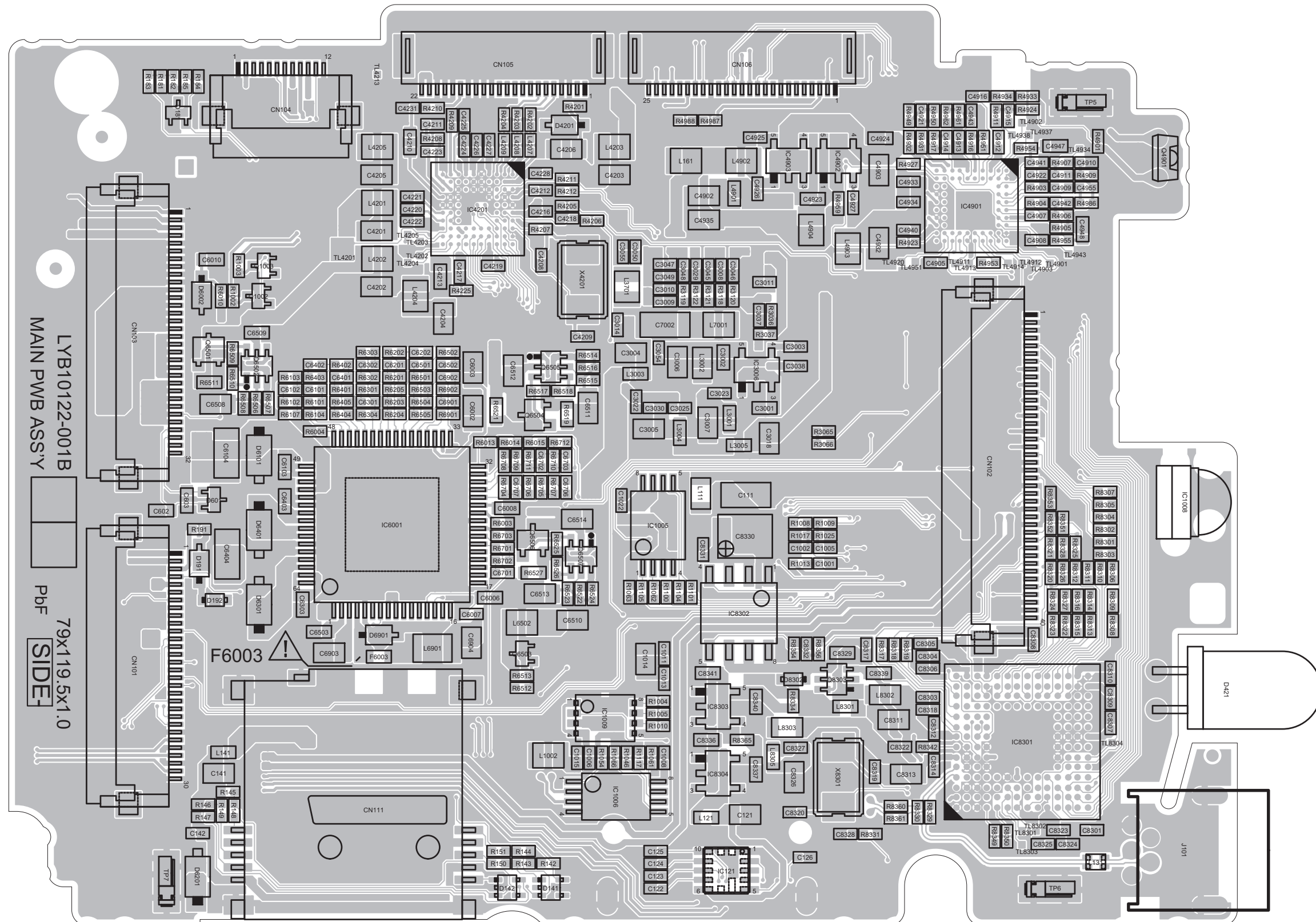
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
POUR UNE PROTECTION PERMANENTE CONTRE LES RISQUE D'INCENDIE,
REMPLACER LES FUSIBLES PAR UN AUTRE DE MEME TYPE ET DE MEME TENSION.

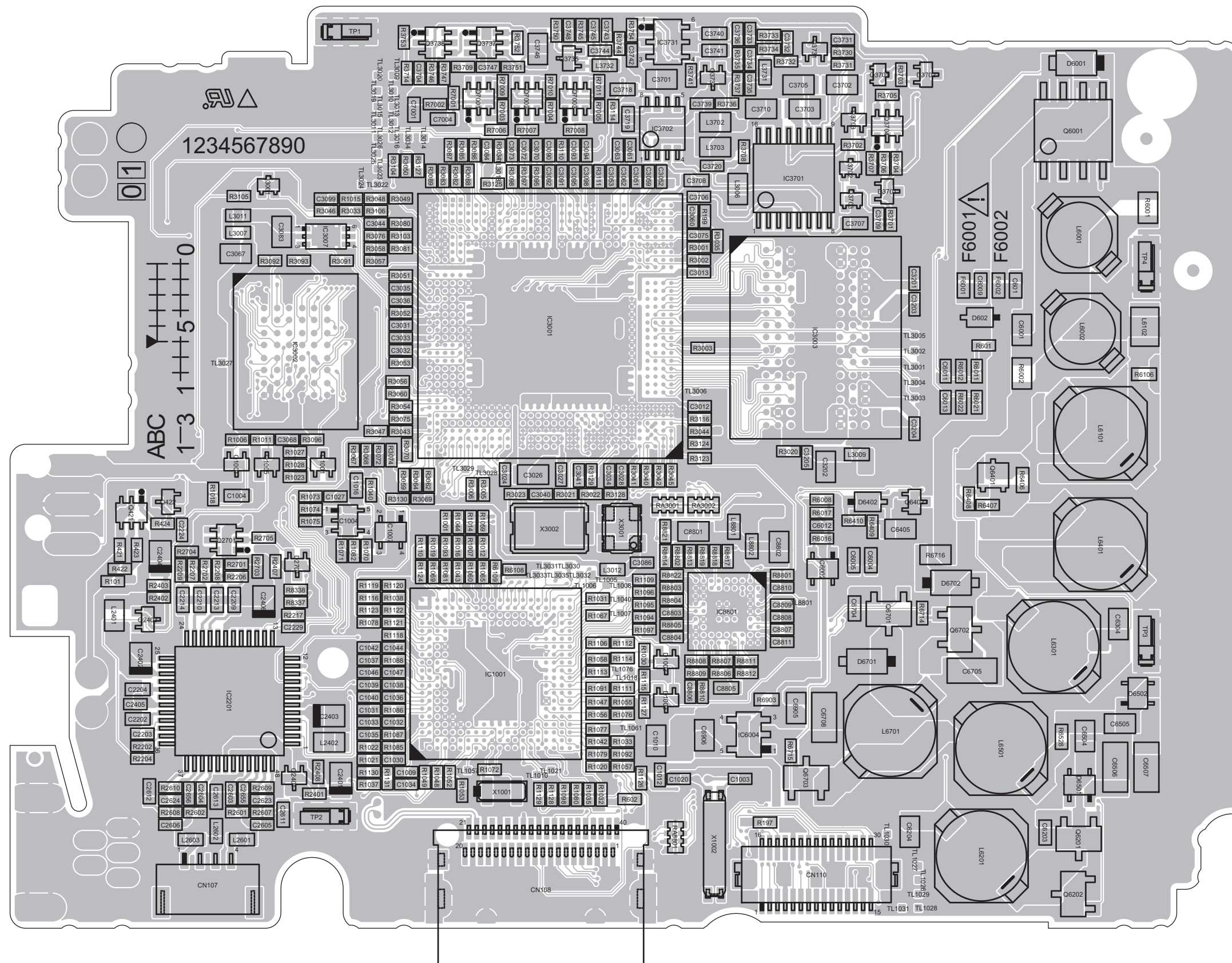
<01>MAIN
LYB10222-001B

FOIL SIDE(B)



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

COMPONENT SIDE(A)

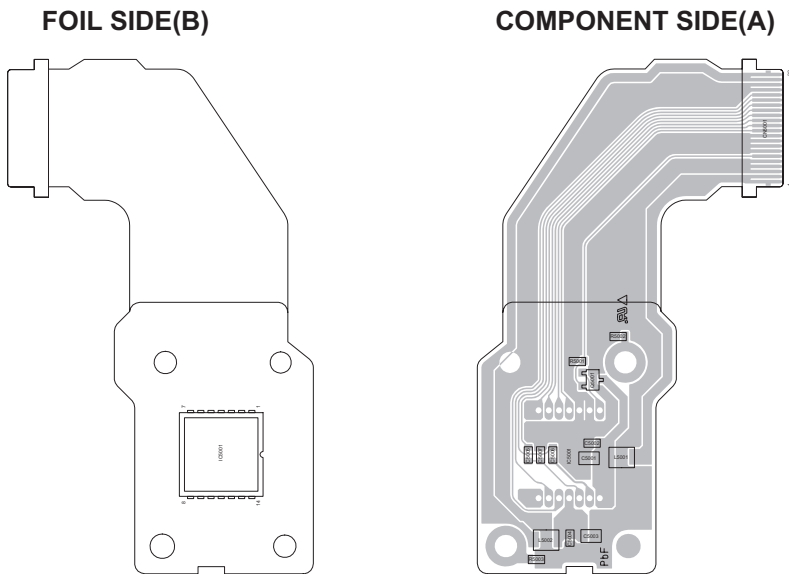


CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
POUR UNE PROTECTION PERMANENTE CONTRE LE RISQUE D'INCENDIE,
REPLACER LES FUSIBLES PAR UN AUTRE DE MÊME TYPE ET DE MÊME TENSION.

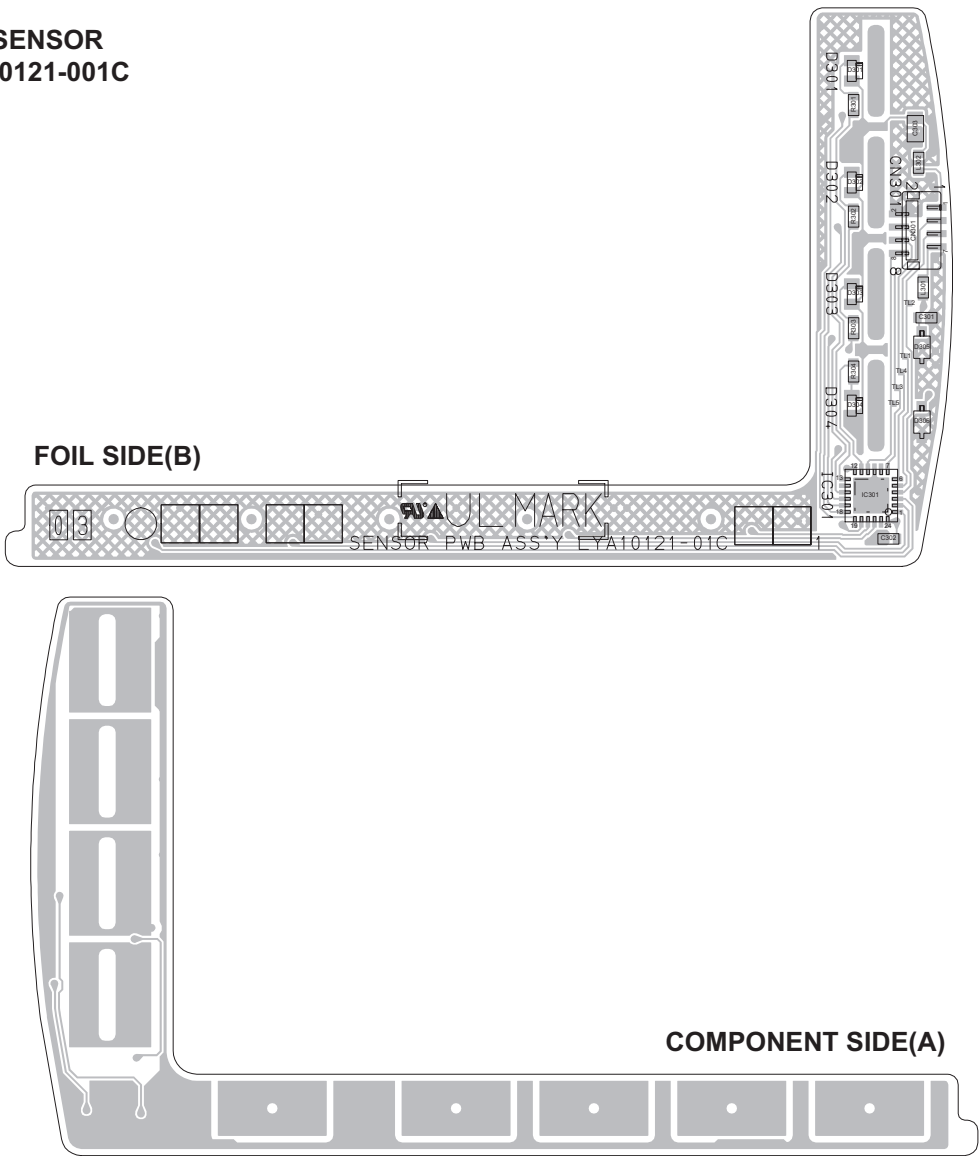
■ **CCD,SENSOR,OPE AND MONITOR CIRCUIT BOARDS**

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

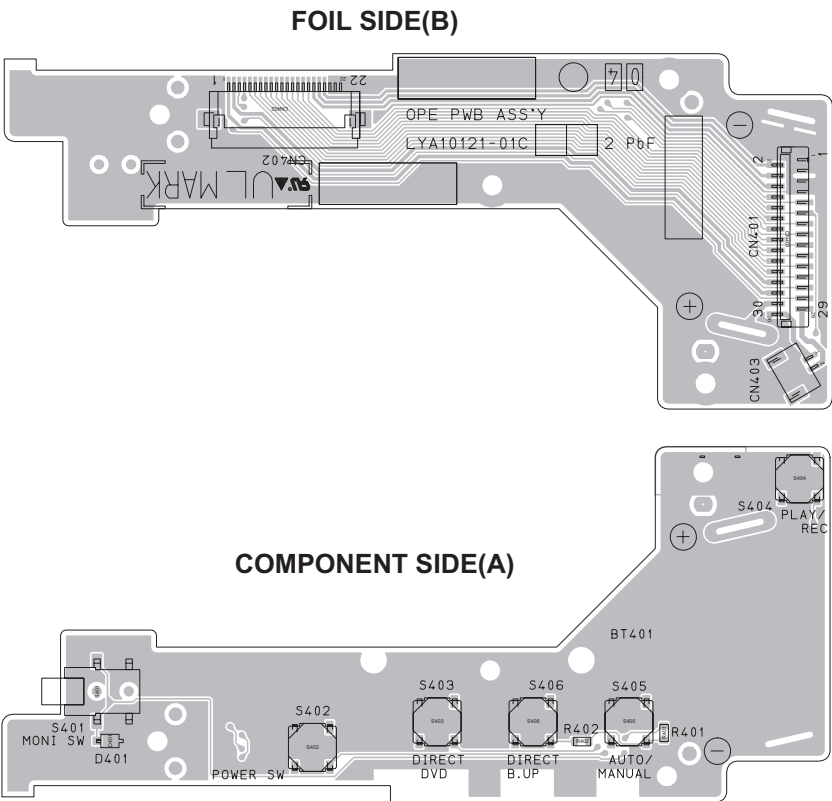
<02>CCD
LYB10120-001B



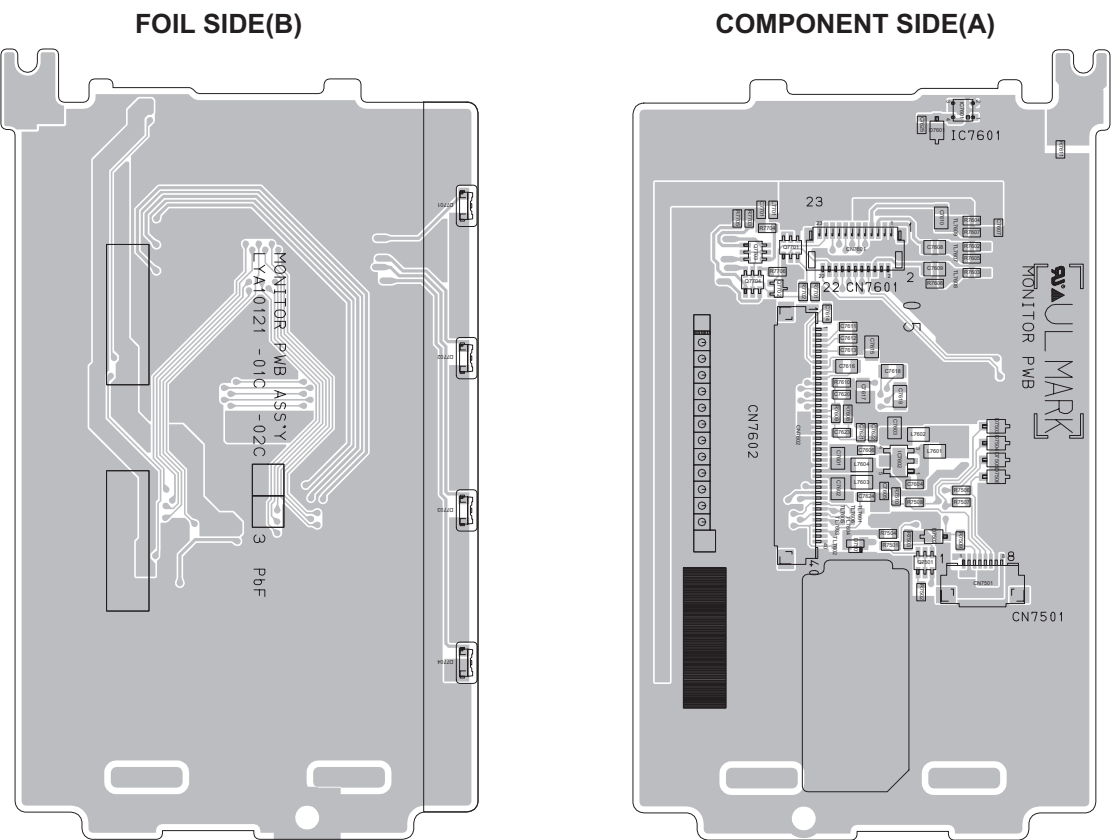
<03>SENSOR
LYB10121-001C



<04>OPE
LYB10121-001C



<05>MONITOR
LYB10121-001C

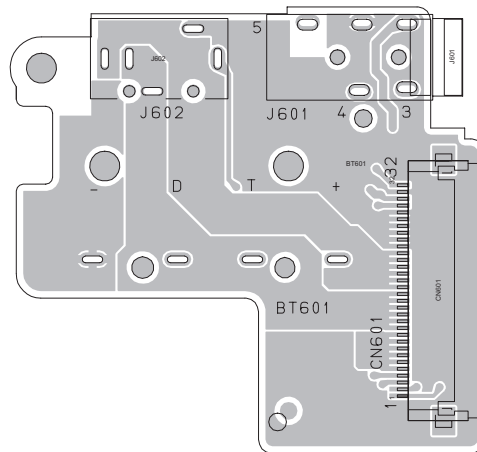


■ REAR CIRCUIT BOARD

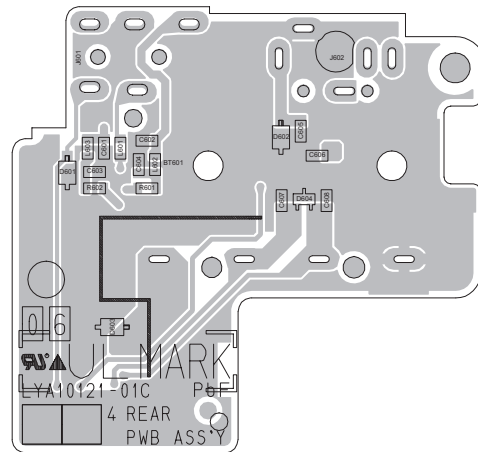
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

<06>REAR
LYB10121-001C

COMPONENT SIDE(A)



FOIL SIDE(B)



■ VOLTAGE CHARTS

<MAIN>				<SENSOR>			
MODE PIN NO.	REC	PLAY		MODE PIN NO.	REC	PLAY	
IC121				IC301			
1	0	0		1	0	0	
2	2.8	2.8		2	0	0	
3	0	0		3	0	0	
4	0	0		4	2.8	2.8	
5	1.5	1.5		5	2.8	2.8	
6	2.8	2.8		6	0	2.8	
7	1.4	1.3		7	-	-	
8	1.4	1.3		8	-	-	
9	1.3	1.3		9	-	-	
10	1.0	1.0		10	-	-	
IC1001	-	-		11	-	-	
IC1004				12	-	-	
1	1.3	1.3		13	-	-	
2	0	0		14	-	-	
3	1.1	1.1		15	-	-	
4	0	0		16	-	-	
5	2.8	2.8		17	-	-	
IC1005				18	-	-	
1	2.7	2.7		19	-	-	
2	0	0		20	-	-	
3	2.8	2.8		21	-	-	
4	0	0		22	-	-	
5	0	0		23	-	-	
6	0	0		24	-	-	
7	2.8	2.8		25	-	-	
8	2.8	2.7					
IC1006							
1	0.1	0					
2	0.2	0.2					
3	0.5	0.4					
4	0	0					
5	0	0					
6	0	0					
7	2.7	2.9					
8	2.8	2.8					
IC1007							
1	2.7	2.8					
2	2.8	2.8					
3	0	0					
4	0	0					
IC1008							
1	2.8	2.8					
2	0	0					
3	2.8	2.8					
IC1009							
1	2.8	2.8					
2	2.7	2.8					
3	0	0					
4	2.7	2.8					
5	0	0					
6	2.7	2.8					
7	2.7	2.8					
8	2.8	2.8					
IC2201							
1	0.5	1.4					
2	0	0					
3	0.5	1.4					
4	2.8	2.7					
5	2.7	2.8					
6	0	0					
7	1.4	1.4					
8	1.4	1.5					
9	1.4	1.4					
10	0	0					
11	2.6	2.6					
12	2.7	2.8					
13	0.9	1.4					
14	0	0					
15	0	0					
16	0	0					
17	0	0					
18	0	0					
19	3.1	3.1					
20	0	0					
21	0.4	0.4					
22	1.5	1.5					
23	1.0	1.0					
24	1.5	1.5					
25	0	0					
26	0	0					
27	4.9	4.9					
28	0	0					
29	2.4	2.4					
30	0	0					
31	3.1	3.1					
32	1.5	1.6					
33	1.6	1.5					
34	1.6	1.5					
35	0	1.5					
36	1.6	1.5					
37	1.5	1.5					
38	1.5	1.5					
39	1.4	0					
40	1.4	0					
41	0	0					
42	4.2	4.5					

MODE PIN NO.	REC	PLAY
Q3001		
S	0	0
D	0	0
G	2.8	2.8
Q3704		
1	0	0
2	0	0
3	0	0
4	4.8	4.9
5	4.5	4.5
6	4.5	4.5
Q4901	-	-
Q6001		
1	11.0	11.0
2	0	0
3	11.0	11.0
4	11.0	11.0
5	0	0
6	0	0
7	0	0
8	11.0	11.0
Q6201		
S	11.0	11.0
D	1.7	1.7
G	9.6	9.6
Q6202		
S	0	0
D	1.7	1.7
G	8.7	8.8
Q6501		
E	-12.0	-12.1
C	-7.4	-7.4
B	-11.4	-11.6
Q6502		
1	-6.9	-6.9
2	-7.3	-7.4
3	-12.1	-12.1
4	-6.9	-6.9
5	-7.4	-7.5
6	-11.4	-11.7
Q6701		
S	11.0	11.0
D	4.9	4.9
G	6.1	6.1
Q6702		
S	4.9	4.9
D	0	0
G	9.8	9.8
Q6703		
S	4.9	4.9
D	4.9	4.9
G	0	0
Q7001		
1	2.7	2.7
2	3.1	3.2
3	11.9	11.9
4	7.9	7.9
5	8.5	8.5
6	8.4	8.5
Q7002		
1	2.7	2.7
2	3.3	3.3
3	11.9	11.9
4	7.9	7.9
5	8.5	8.5
6	8.5	8.5
Q7003		
1	2.7	2.7
2	3.2	3.3
3	11.9	11.9
4	7.7	7.8
5	8.4	8.5
6	8.5	8.5
Q8303		
1	0	0
2	3.1	3.1
3	0	0
4	0	0
5	0	0
6	0	0

<CCD>			
MODE PIN NO.	REC	PLAY	
Q5001			
E	8.5	7.8	
C	11.9	11.9	
B	9.2	8.5	

MODE PIN NO.	REC	PLAY
IC301		
1	0	0
2	0	0
3	0	0
4	2.8	2.8
5	2.8	2.8
6	0	2.8
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-

MODE PIN NO.	REC	PLAY
IC7601		
1	0	0
2	0	0
3	2.8	2.8
4	2.8	2.9
IC7602		
1	4.7	4.7
2	0	0
3	4.7	4.7
4	0	0
5	2.8	2.9
Q7701		
1	0	0
2	2.8	2.8
3	4.7	4.7
4	4.7	4.7
5	0	0
6	0	0
Q7702		
E	1.9	1.9
C	0	0
B	1.3	1.3
Q7703		
1	1.2	1.2
2	2.0	2.0
3	1.5	1.5
4	1.2	1.2
5	2.0	1.9
6	1.4	1.5
Q7704		
1	1.2	1.3
2	1.9	1.9
3	1.4	1.4
4	1.2	1.2
5	1.9	2.0
6	1.5	1.5

MODE PIN NO.	REC	PLAY
Q1001		
E	0	0
C	2.8	2.8
B	0	0
Q1002		
E	0	0
C	1.4	1.5
B	0	0
Q1003		
E	0	0
C	0	0
B	2.7	2.7
Q1005		
E	0	0
C	0	0
B	0	0
Q2401		
E	4.2	4.4
C	4.9	4.9
B	4.8	4.9
Q2403		
E	3.1	3.0
C	4.9	4.9
B	3.8	3.8
Q2701		
1	0	0
2	-0.1	-0.1
3	0	0
4	0	0
5	-0.2	-0.2
6	0	0

MODE PIN NO.	REC	PLAY
IC301		
1	0	0
2	0	0
3	0	0
4	2.8	2.8
5	2.8	2.8
6	0	2.8
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-

MODE PIN NO.	REC	PLAY
IC301		
1	0	0
2	0	0
3	0	0
4	2.8	2.8
5	2.8	2.8
6	0	2.8
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-

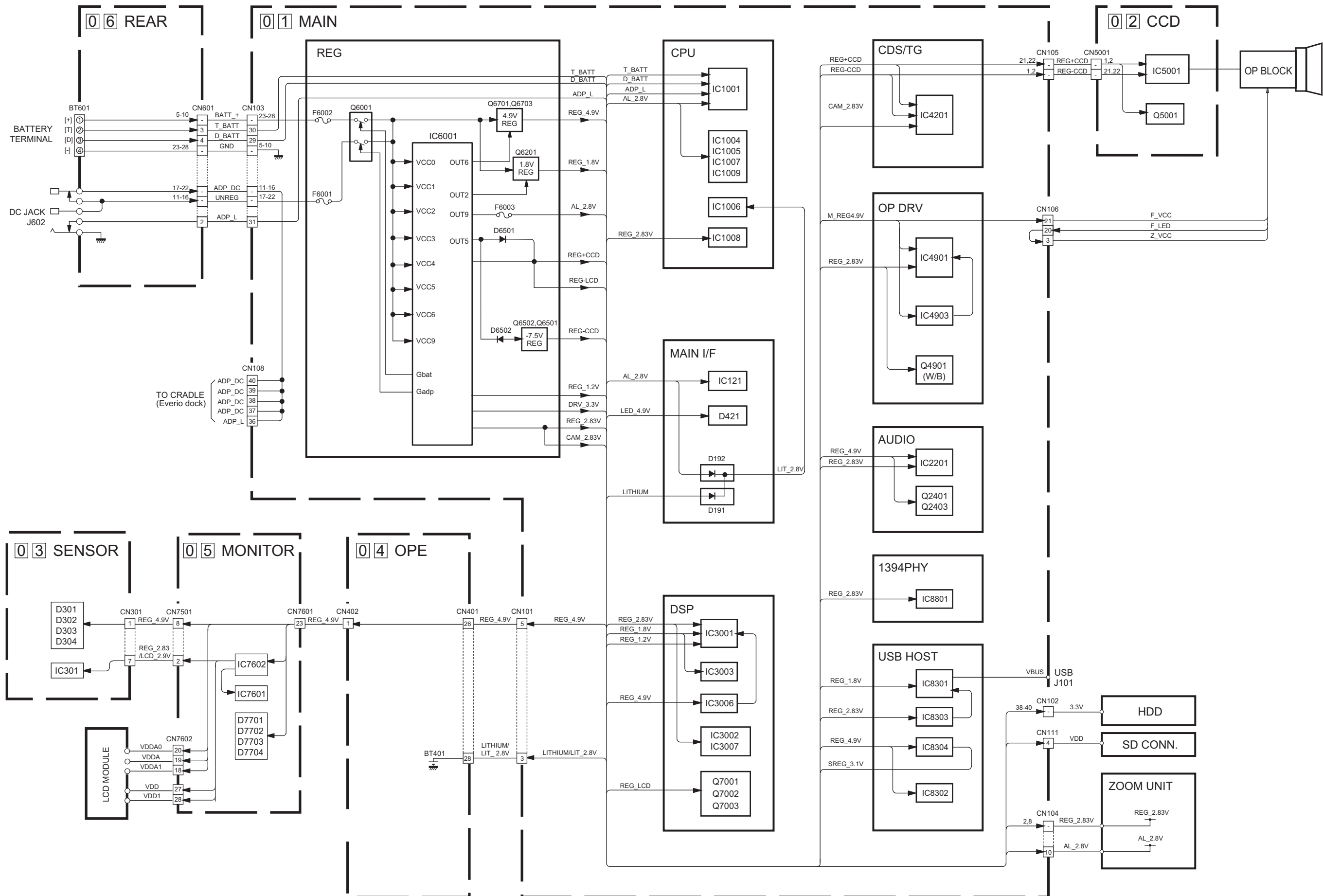
MODE PIN NO.	REC	PLAY
IC301		
1	0	0
2	0	0
3	0	0
4	2.8	2.8
5	2.8	2.8
6	0	2.8
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-

MODE PIN NO.	REC	PLAY
IC301		
1	0	0
2	0	0
3	0	0
4	2.8	2.8
5	2.8	2.8
6	0	2.8
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
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21	-	-
22	-	-
23	-	-
24	-	-
25	-	-

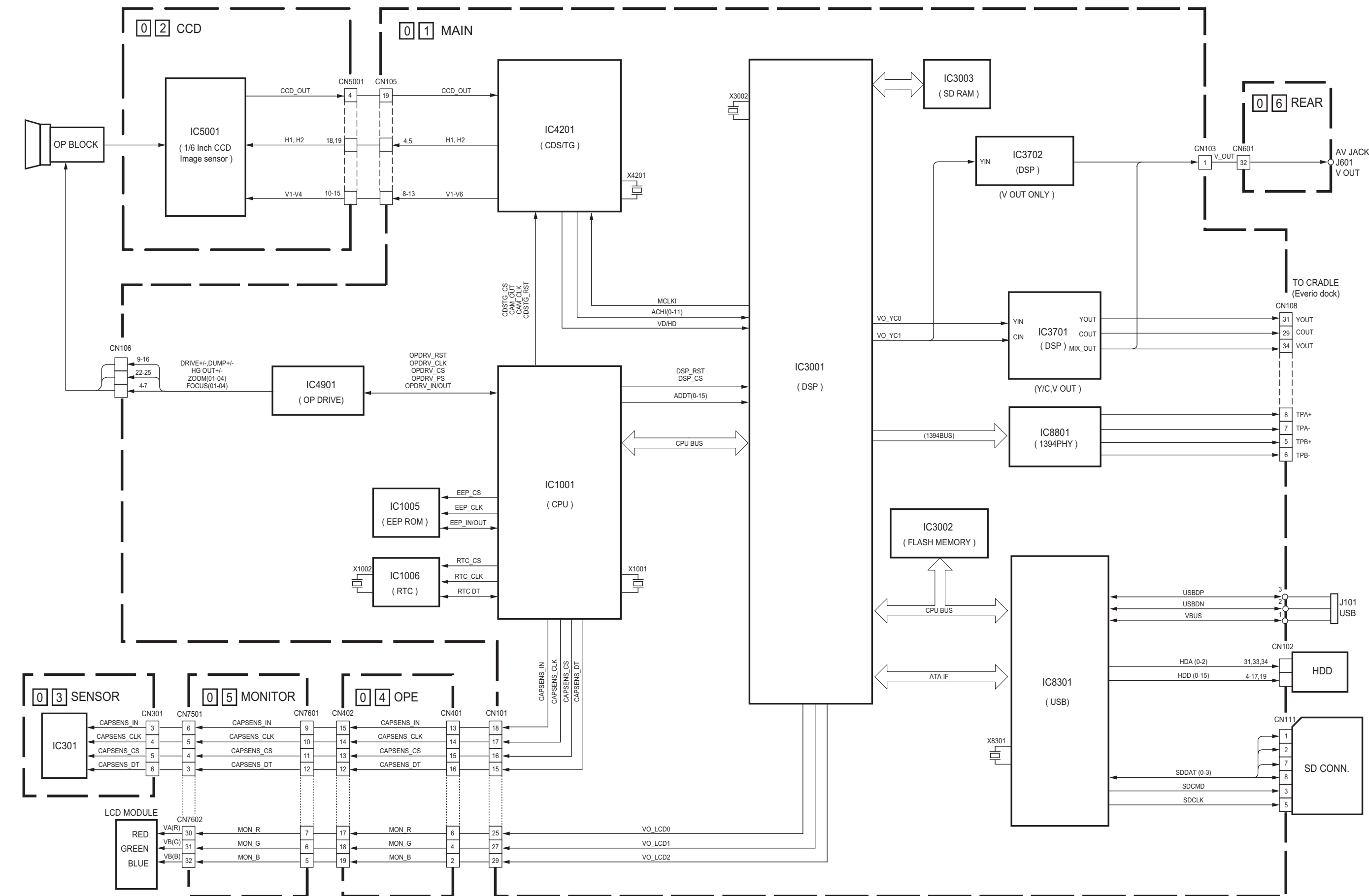
MODE PIN NO.	REC	PLAY
IC301		
1	0	0
2	0	0
3	0	0
4	2.8	2.8
5	2.8	2.8
6	0	2.8
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-

MODE PIN NO.	REC	PLAY
IC301		
1	0	0
2	0	0
3	0	0
4	2.8	2.8
5	2.8	2.8
6	0	2.8
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	

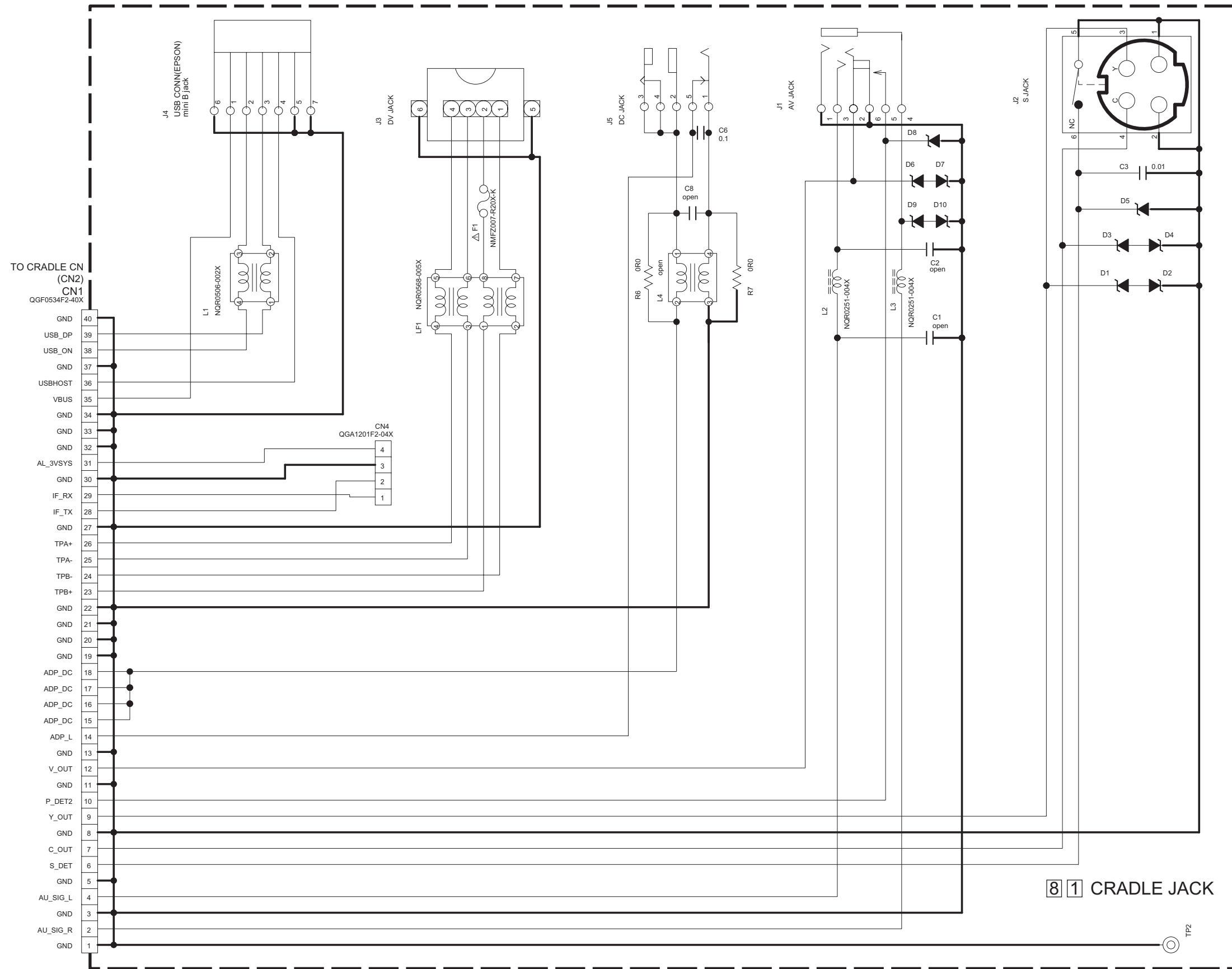
■ POWER SYSTEM BLOCK DIAGRAM



■ VIDEO SYSTEM BLOCK DIAGRAM



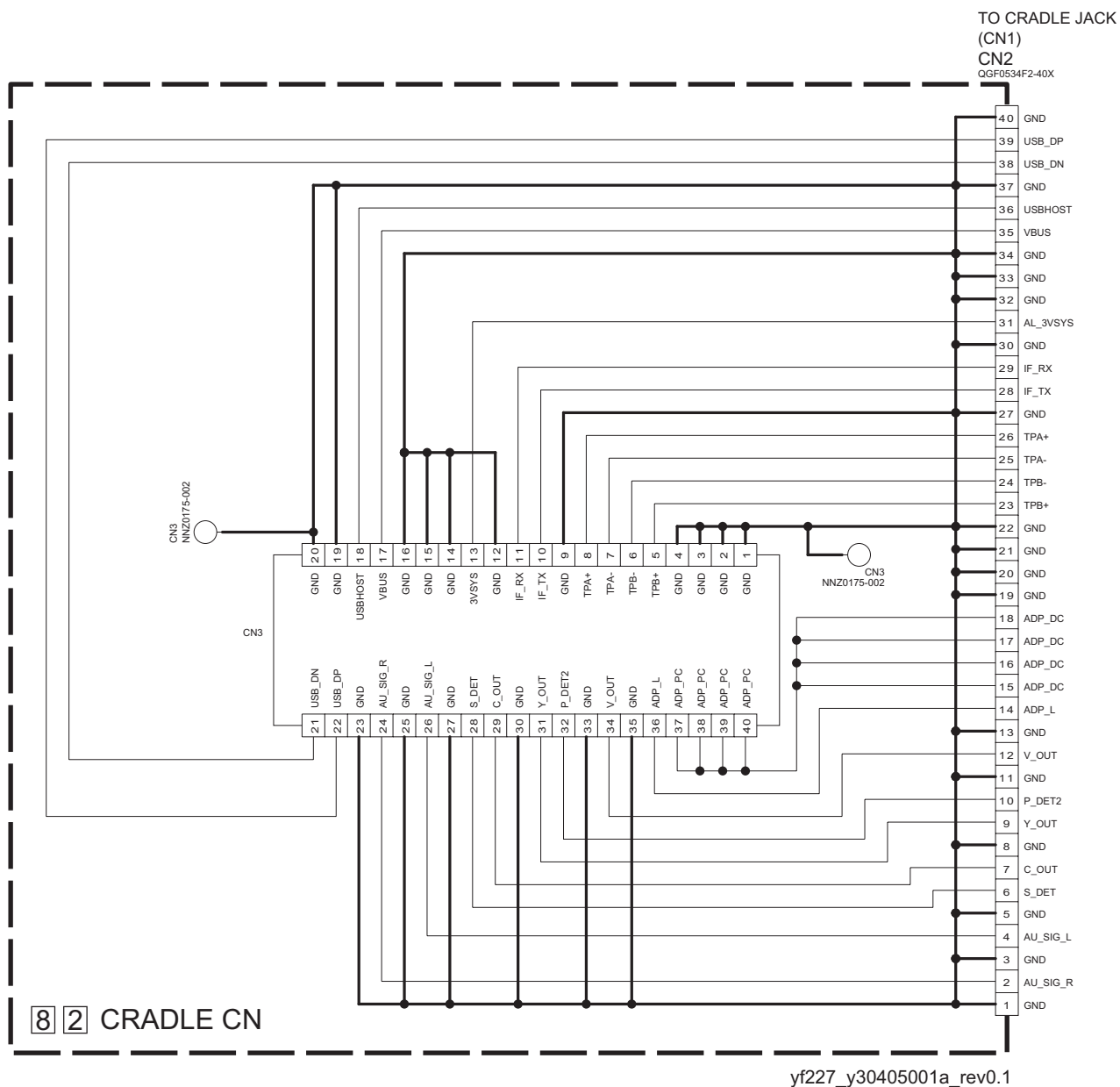
■ CRADLE JACK SCHEMATIC DIAGRAM



NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".

1. The schematic diagram is only for reference. Avoid replacing individual parts. Replace the entire unit only.

■ CRADLE CN SCHEMATIC DIAGRAM

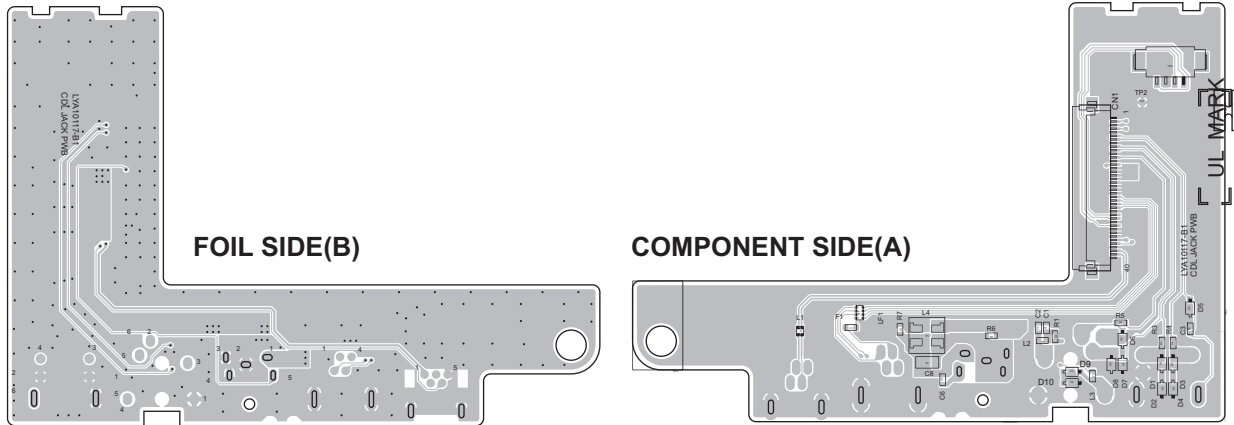


NOTES: 1. For the destination of each signal and further line connections that are cut off from this diagram, refer to "BOARD INTERCONNECTIONS".
2. The schematic diagram is only for reference. Avoid replacing individual parts.
Replace the entire unit only.

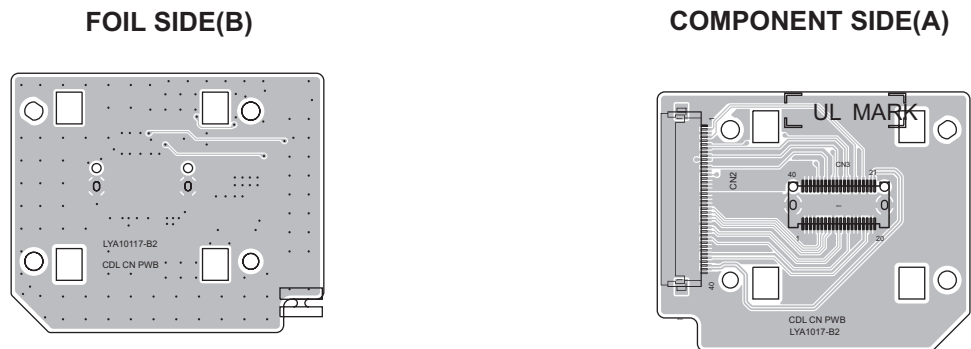
■ CRADLE JACK AND CRADLE CN CIRCUIT BOARDS

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

<81>CRADLE JACK LYB10117-001B



<82>CRADLE CN LYB10117-001B





Victor company of Japan, Limited
Camcorder Category 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YF227<Rev.001>)



Printed in Japan
VPT

PARTS LIST

SAFETY PRECAUTION

Parts identified by the $\triangle$ symbol are critical for safety. Replace only with specified part numbers.

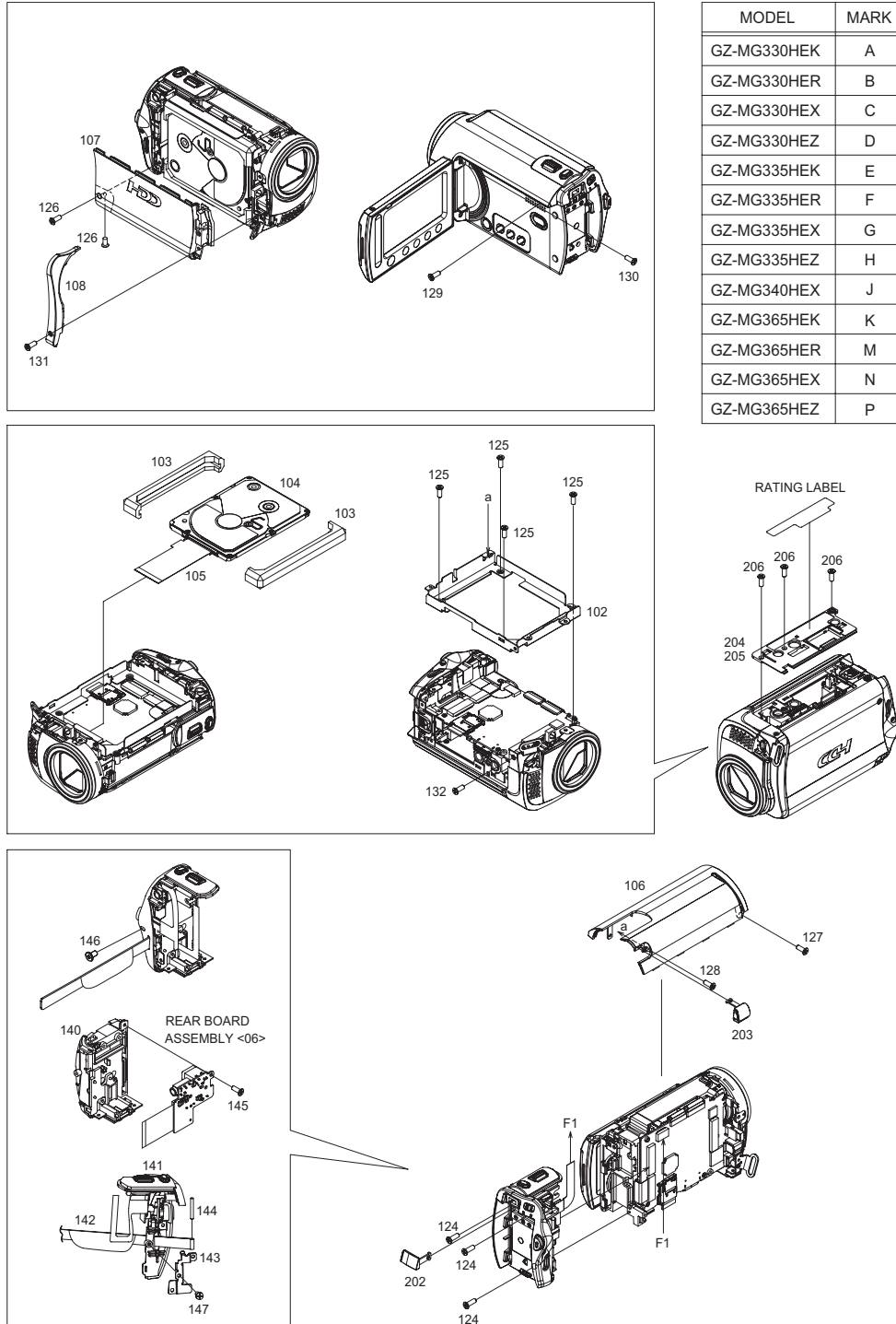
BEWARE OF BOGUS PARTS

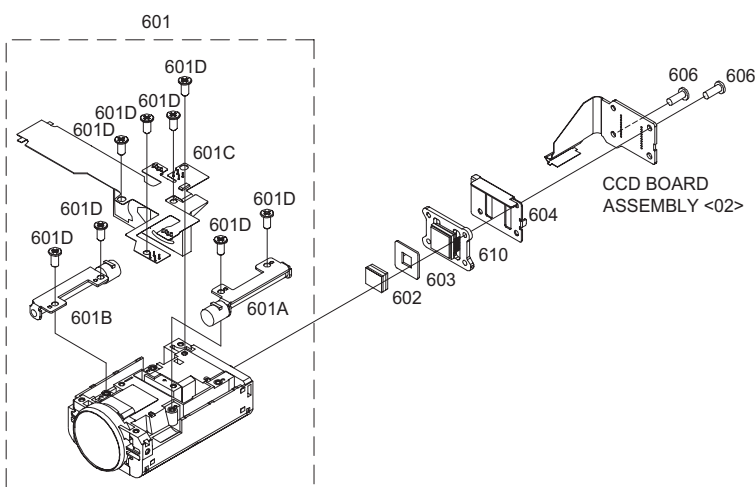
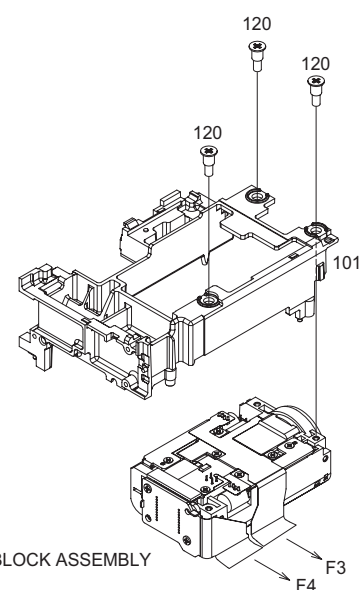
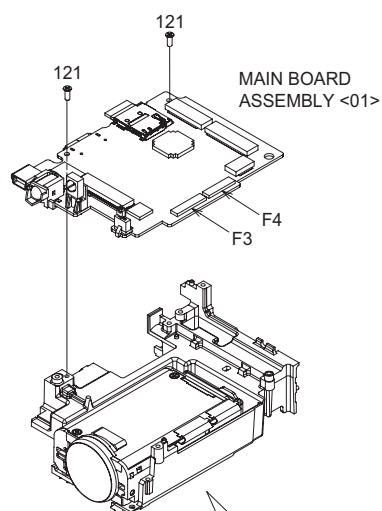
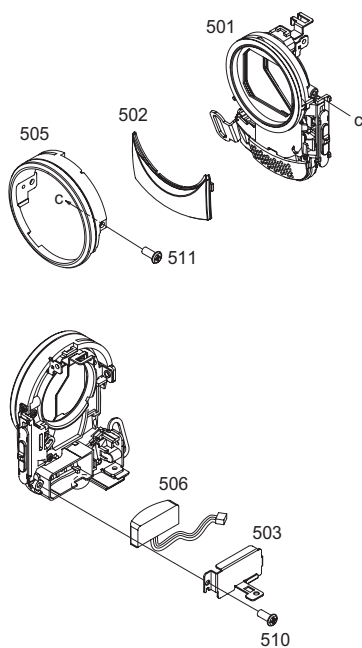
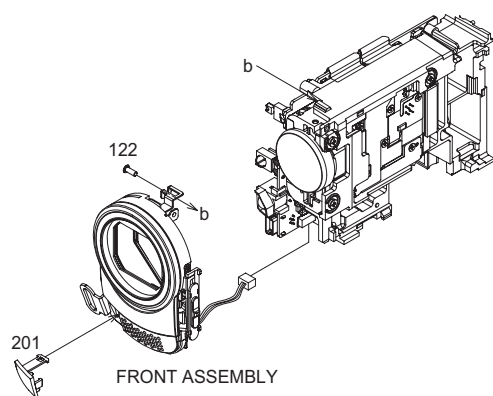
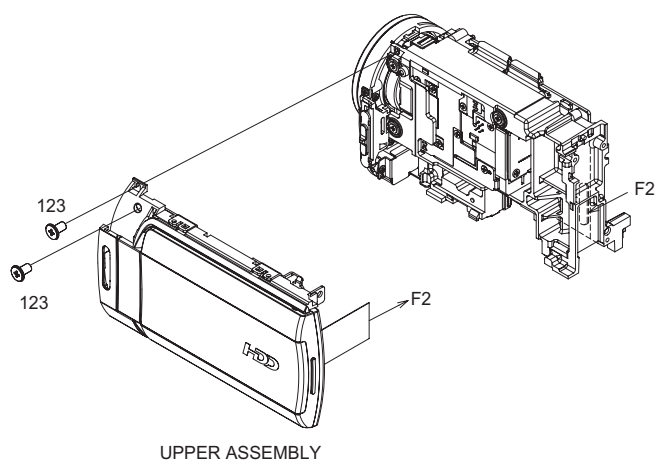
Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

1. EXPLODED VIEW

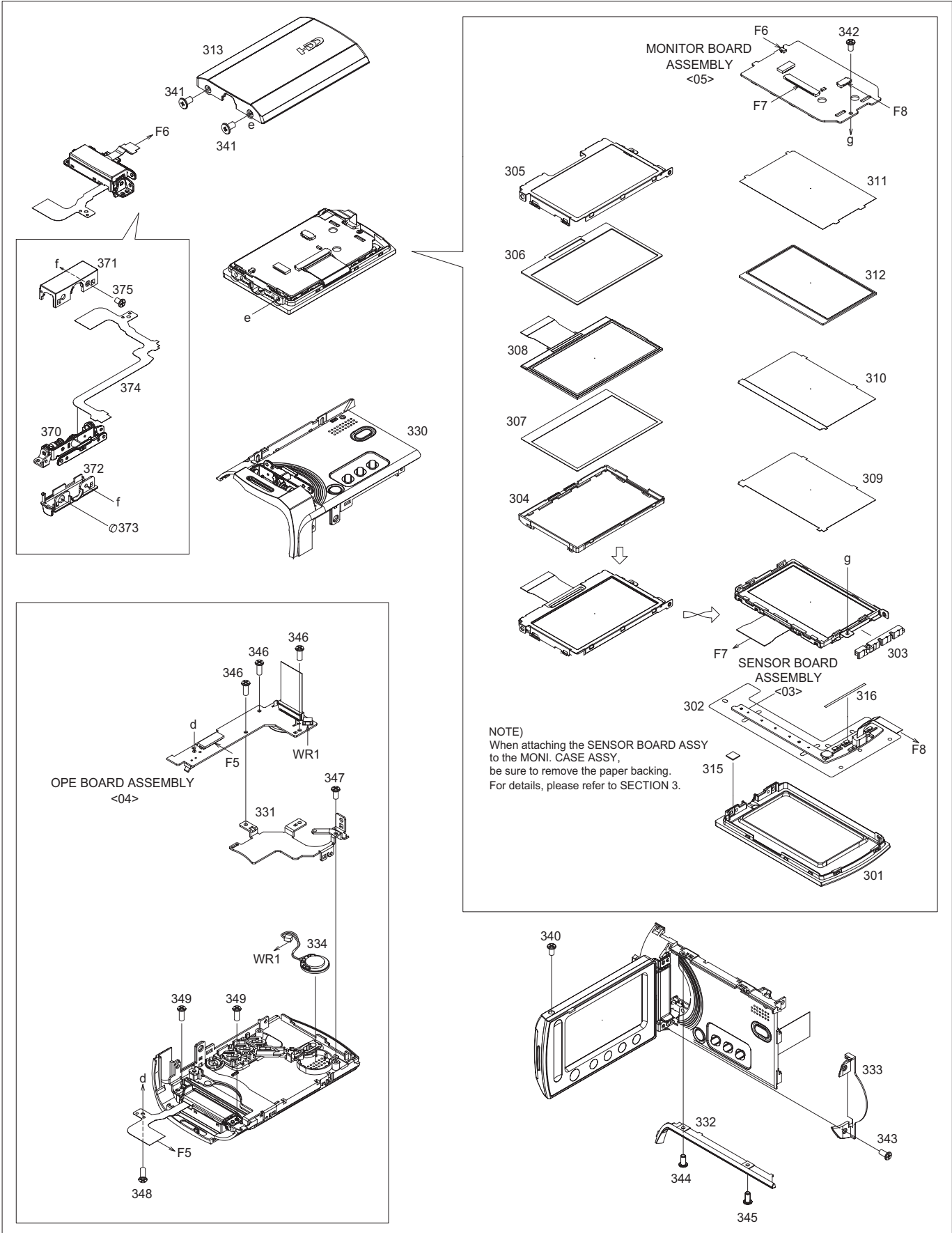
1.1 FINAL ASSEMBLY<M1>

The instruction manual to be provided with this product will differ according to the destination.

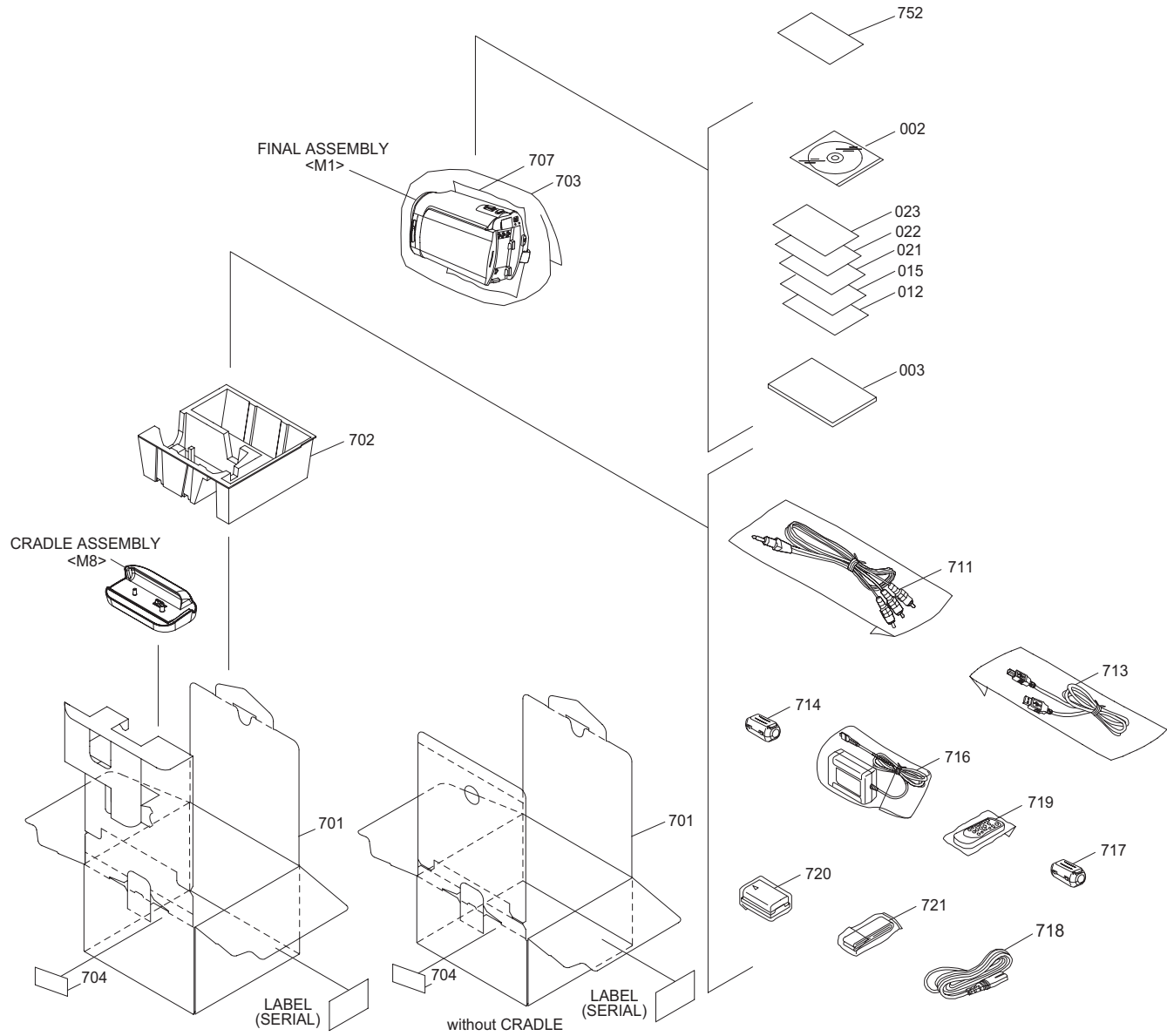




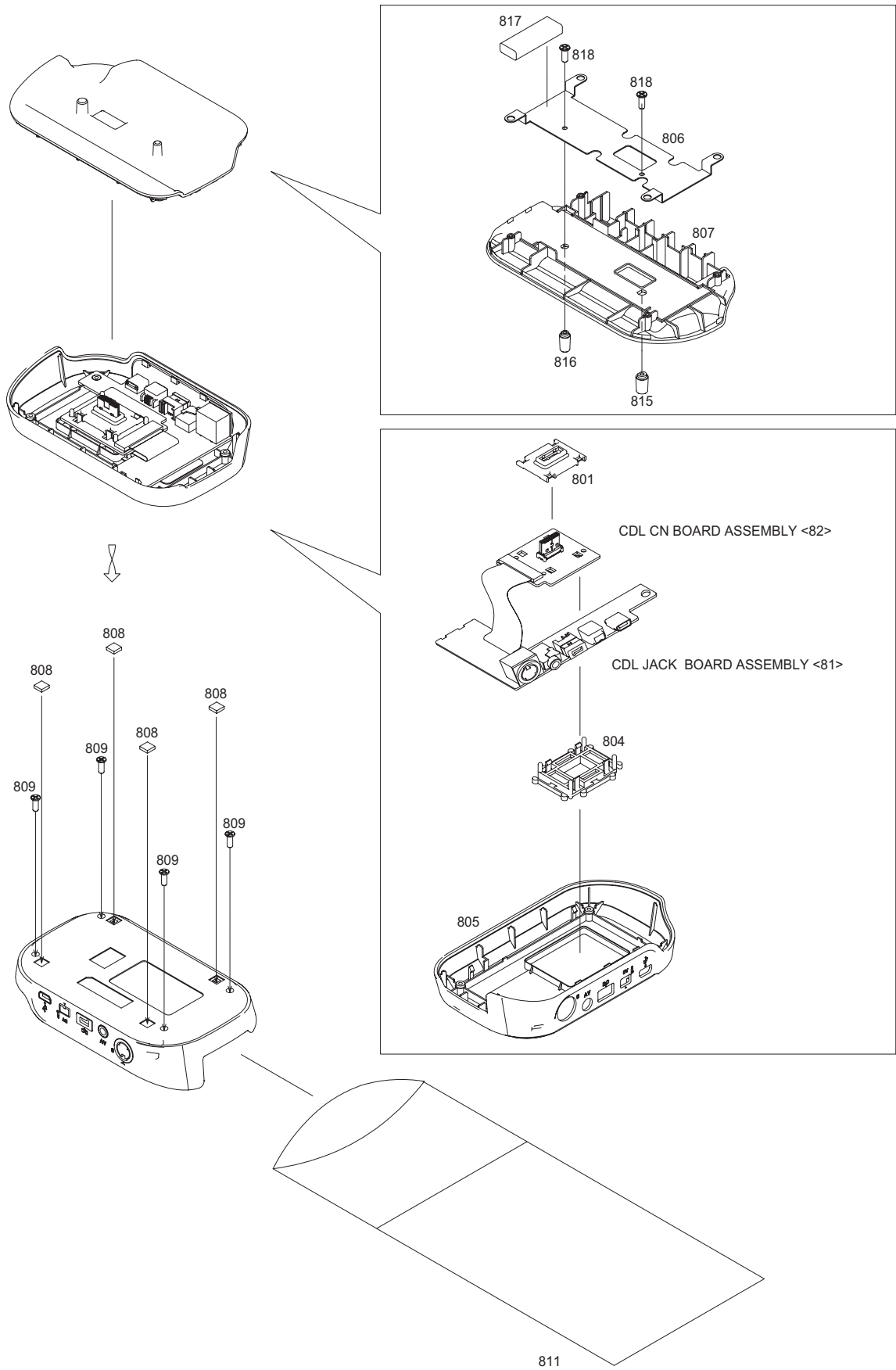
UPPER ASSEMBLY



1.2 PACKING AND ACCESSORY ASSEMBLY <M5>



1.3 CRADLE ASSEMBLY <M8>



MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
GZ-MG330HEK	A	GZ-MG330HEZ	D	GZ-MG335HEX	G	GZ-MG365HEK	K	GZ-MG365HEZ	P
GZ-MG330HER	B	GZ-MG335HEK	E	GZ-MG335HEZ	H	GZ-MG365HER	M		
GZ-MG330HEX	C	GZ-MG335HER	F	GZ-MG340HEX	J	GZ-MG365HEX	N		

2. PARTS LIST

FINAL ASSEMBLY <M1>

△ Symbol No.	Part No.	Part Name	Description	Local
101	LY36056-001B	FRAME ASSY		A,B,C,D,J
101	LY36056-002B	FRAME ASSY		EFGHKMNP
102	LY36226-001A	HDD CASE ASSY		
103	LY36064-001A	RUBBER SPACER	(x2)	
104	QAL1056-001	HDD	30G A,B,C,D,E,F,G,H	
104	QAL1056-002	HDD	40G J	
104	QAL1056-003	HDD	60G K,M,N,P	
105	QAL0906-003	FPC	MAIN-HD	
106	LY21752-002F	TOP COVER		A,B,C,D,J
106	LY36065-006F	TOP COVER ASSY		EFGHKMNP
107	LY36074-002A	HDD COVER ASSY		
108	LY21758-001B	WINDOW(IR)		
120	LY30032-021A	SPECIAL SCREW	OP-FRM(x3)	
121	LY30031-0D5A	SPECIAL SCREW	MAINP-FRM(x2)	
122	LY30031-0D5A	SPECIAL SCREW	FRONT-FRM	
123	LY30031-0D5A	SPECIAL SCREW	UPPER-FRM(x2)	
124	LY30031-0D5A	SPECIAL SCREW	REAR-FRAME(x3)	
125	LY30031-0D5A	SPECIAL SCREW	HDDCA-FRM(x4)	
126	LY30031-0D5A	SPECIAL SCREW	HDDCO-FRM(x2)	
127	LY30031-0D5A	SPECIAL SCREW	TOP-HDDCA	
128	LY30031-0D5A	SPECIAL SCREW	TOP-BKT(FR)	
129	LY30031-0D5A	SPECIAL SCREW	UPPER-TOP	
130	LY30031-0D5A	SPECIAL SCREW	COUPR-HING	
131	LY30031-0D5A	SPECIAL SCREW	IRWIN-HOOK	
132	LY30031-0D5A	SPECIAL SCREW	FRONT-HOOK	
△ 140	LY21748-002B	REAR COVER ASSY		
141	LY21750-005C	ZOOM UNIT		
142	LY21757-002B	GRIP BELT		
143	LY36063-001A	BKT(G.B.)		
144	LY36075-001A	SHAFT(G.B)		
145	LY30031-0L8B	SPECIAL SCREW	ZOOM-BATTP	
146	LY30031-0L8B	SPECIAL SCREW	ZOOM-REAR	
147	LY30031-0F5A	SPECIAL SCREW	ZOOM-BKTGB	
201	LY36066-002C	J.COV(USB) ASSY		
202	LY36069-002B	JACK COVER(DC)		
203	LY36070-002A	JACK COVER(AV)		
204	LY21814-002B	B.COVER(PAL)ASSY		EFGHKMNP
205	LY21753-004B	B.COVER(N)ASSY		A,B,C,D,J
206	LY30031-0D5A	SPECIAL SCREW	BOTCO-FRM(x3)	
301	LY36114-001B	MON.CASE ASSY		
302	LY36233-001D	D FACE TAPE		
303	LY36337-001B	LIGHT.G.S. ASSY		
304	LY21736-001A	LCD CASE		
305	LY36147-001A	LCD BKT ASSY		
306	LY35476-001A	SPACER(LCD)		
307	LY36050-001A	SPACER(LCD)		
308	QLD0486-002	LCD MODULE		
309	LY35478-001A	SHEET(BEF)1		
310	LY35480-001A	SHEET(M/DIFF)		
311	LY35481-001A	SHEET(M.REF)		
312	LY35482-001A	LIGHT GUIDE		
313	LY36051-002D	MONI.COVER ASSY		A,B,C,D,E,F,G,H
313	LY36051-017C	MONI.COVER ASSY		J
313	LY36051-009D	MONI.COVER ASSY		K,M,N,P
315	LY45291-028A	GASKET		
316	LY30035-0D3A	SPACER(A)		
330	LY21744-002G	U.CASE ASSY		
331	LY36104-001A	BKT(SPK)		
332	LY36106-002D	ORNAMENT(TOP)		
333	LY36055-002A	COVER(UPPER)		
334	QAS0543-001	SPEAKER		
340	LY30031-0E3A	SPECIAL SCREW	MCOV-LCDBK	
341	LY30031-079A	SPECIAL SCREW	MCOV-HINGE(x2)	
342	LY30031-0E3A	SPECIAL SCREW	MPWB-LCDBK	
343	LY30031-0E3A	SPECIAL SCREW	COVUP-HING	
344	LY30031-0E3A	SPECIAL SCREW	ORMT-BKTUP	
345	LY30031-0E3A	SPECIAL SCREW	ORMT-BKTSP	
346	LY30031-0L6A	SPECIAL SCREW	OPEPWB-UP(x3)	
347	LY30031-0L6A	SPECIAL SCREW	SPBKT-UP	
348	LY30031-0L6A	SPECIAL SCREW	FPC-UPPER	
349	QYSPSGT2050ZA	TAP SCREW	HING-UPPER M2 x 5mm(x2)	
370	LY21741-001D	HINGE UNIT		
371	LY21742-002A	HINGE COVER(U)		
372	LY21743-001A	HINGE COVER(L)		

△ Symbol No.	Part No.	Part Name	Description	Local
373	LY45427-001A	P.C.MAGNET		
374	QAL1037-001	FPC		
375	LY30031-0E3A	SPECIAL SCREW	H.CO.V.U-L	
501	LY36080-002D	F.COVER ASSY		EFGHKMNP
502	LY36086-004A	WINDOW(LIGHT)		A,B,C,D,J
502	LY36086-002A	WINDOW(LIGHT)		EFGHKMNP
503	LY36089-001A	PLATE(MIC)		
505	LY36090-001C	HOOD RING(NON)		
506	LY36139-001A	MIC		
510	LY30031-0L6A	SPECIAL SCREW	PLTMC-FRNT	
511	LY30031-0L6A	SPECIAL SCREW	HOODR-FRNT	
601	LY36126-001B	OP BLOCK ASSY		
601A	PTY36126-101	MOTOR UNIT	FOCUS	
601B	PTY36126-101	MOTOR UNIT	ZOOM	
601C	PTY36126-106	AUTO IRIS UNIT		
601D	PTY36126-530	SCREW	(x8)	
602	LY45275-001A	OPTICAL LPF		
603	LY45175-001A	SHEET		
604	LY36092-001A	SHIELD(CCD)		
606	LY30031-0J7A	SPECIAL SCREW	(x2)	
610	LY45541-002A	CCD BASE ASSY		

PACKING AND ACCESSORY ASSEMBLY <M5>

△ Symbol No.	Part No.	Part Name	Description	Local
002	LY35273-027C	CD ROM ASSY		A,B,C,D,J
002	LY35273-027C-S	CD ROM ASSY		EFGHKMNP
△ 003	LYT1835-001A	INST BOOK(EN)	(ENGLISH)	A,E,K
△ 003	LYT1836-001A	INST BOOK(RU.UK)	(RUSSIAN UKRAINIAN)	B,F,M
△ 003	LYT1835-002A	INST BOOK(GE.DU)	(GERMAN DUTCH)	C,G,J,N
△ 003	LYT1835-003A	INST BOOK(FR.IT)	(FRENCH ITALIAN)	C,G,J,N
△ 003	LYT1835-004A	INST BOOK(SP.PT)	(SPANISH PORTUGUESE)	C,G,J,N
△ 003	LYT1835-005A	INST BOOK(DA.FI)	(DANISH FINN)	D,H,P
△ 003	LYT1835-006A	INST BOOK(SW.NO)	(SWEDISH NORWEGIAN)	D,H,P
△ 003	LYT1835-008A	INST BOOK(CZ.HU)	(CZECH HUNGARIAN)	D,H,P
△ 003	LYT1835-009A	INST BOOK(PO)	(POLISH)	D,H,P
012	YU30878	REGI. CARD		A,E,K
015	LYT0194-001B	Q.CARD		A,E,K
021	LYT1908-002A	SHEET(ATT.)		A,B,C,D
021	LYT1908-001A	SHEET(ATT.)		EFGHKMNP
022	LY36230-002A	SHEET(ACC GUID)		A,C,E,G,J,K,N
022	LY36230-003A	SHEET(ACC GUID)		B,D,F,H,M,P
023	LY35208-001A	SHEET(E-SHOP)		A,E,K
701	LY36076-018B	PACKING CASE	PRODUCTION	A,B,C,D
701	LY36078-008B	PACKING CASE	PRODUCTION	E,F,G,H
701	LY36076-022A	PACKING CASE	PRODUCTION	J
701	LY36078-012B	PACKING CASE	PRODUCTION	K,M,N,P
702	LY21759-001B	CUSHION		
703	LY30023-024A	POLY BAG	FOR YSK	
704	-----	LABEL		
707	LY45602-001A	SHEET(G.BELT)		
711	QAM0510-001	A/V CABLE	FILTER	
713	QAM0719-001	USB CABLE		
714	QQR0491-002	FERRITE CORE	USB TDK (BLACK)	
△ 716	LY21104-001F	AC ADAPTER	AP-V14E	A,E,K
△ 716	LY21343-001B	AC ADAPTER	AP-V17E	B,C,D,F,G,H,J,M,N,P
717	QQR0491-002	FERRITE CORE	DC TDK (BLACK)	
△ 718	QMPP210-190-JR	POWER CORD	BS PLUG 1.9m BLACK	A,E,K
719	LY21805-002A	REMOTE CTL UNIT	RM-V751US	EFGHKMNP
△ 720	LY35320-002C	BATTERY PACK	BN-VF808U	
721	LY21397-002A	SHOULDER STRAP		
752	-----	WARRANTY CARD	BT-54032-1CAM	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
GZ-MG330HEK	A	GZ-MG330HEZ	D	GZ-MG335HEX	G	GZ-MG365HEK	K	GZ-MG365HEZ	P
GZ-MG330HER	B	GZ-MG335HEK	E	GZ-MG335HEZ	H	GZ-MG365HER	M		
GZ-MG330HEX	C	GZ-MG335HER	F	GZ-MG340HEX	J	GZ-MG365HEX	N		

CRADLE ASSEMBLY <M8>

△ Symbol No. Part No. Part Name Description Local

△ Symbol No.	Part No.	Part Name	Description	Local
801	LY36144-001A	HOLDER	EFGHKMNP	
804	LY36143-001B	SPRING	EFGHKMNP	
805	LY21782-003B	BOTTOM CASE	EFGHKMNP	
806	LY36145-001A	BRACKET	EFGHKMNP	
807	LY21813-001B	TOP CASE	EFGHKMNP	
808	LY45498-001A	FOOT	(x4) EFGHKMNP	
809	LY30031-038A	SPECIAL SCREW	(x4) EFGHKMNP	
811	QPA01002503	POLY BAG	10cm x 25cm EFGHKMNP	
815	LY45559-001A	SHAFT(1)	EFGHKMNP	
816	LY45560-001A	SHAFT(2)	EFGHKMNP	
817	LY45291-022A	GASKET	GASKET EFGHKMNP	
818	LY30031-081A	SPECIAL SCREW	(x2) EFGHKMNP	

MAIN BOARD ASSEMBLY <01>

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LYA10122-04G	MAIN BOARD ASSY	A,B,C,D	
PW1	LYA10122-03G	MAIN BOARD ASSY	EFGHKMNP	
PW1	LYA10122-04G	MAIN BOARD ASSY	J	
IC121	NAL0069-001X	SHOCK SENSOR	TH	
IC1001	MN103SD0QFA	IC(MICRO C ROM)	MASK	
IC1001	or MN103SFD0RFA	IC(MICRO C ROM)	MP FLASH	
IC1004	NJU7108F3-X	IC		
IC1005	AK6512CAM-X	IC		
IC1006	S-35190A-G-X	IC		
IC1007	IC-PST8223U-W	IC		
IC1007	or S-80823CNNB-G-W	IC		
IC1008	KSM-2003SN2E	IR DETECT UNIT		
IC1009	YCBCJVSNS8031-X	IC(MICRO C ROM)		
IC2201	AK4666VQ	IC	48P0.5	
IC2201	or AK4664VQ	IC	48P0.5	
IC3001	JCY0224-2	IC		
IC3002	39VF6474IB1KB06	IC(MICRO C ROM)		
IC3003	K4M51323PE-HG75	IC(DIGITAL)		
IC3006	S-1112B31MC-W	IC		
IC3007	AK8111L-W	IC		
IC3701	LA73076V-X	IC	EFGHKMNP	
IC3702	BH76806FVM-W	IC	BH76806FVM A,B,C,D,J	
IC4201	R2J45021ABG-X	IC	NEW2-RENE5	
IC4901	AN41904A-X	IC		
IC4903	S-1112B29MC-W	IC		
IC6001	FA7736AF	IC		
IC6004	S-1112B28MC-W	IC		
IC8301	JCY0225	IC		
IC8302	TPS2055AD-X	IC		
IC8302	or BD2055AFJ-X	IC		
IC8303	S-1112B18MC-W	IC	S-1112B18M	
IC8304	S-1112B31MC-W	IC		
IC8801	TSB41AB1ZQE-X	IC	EFGHKMNP	
Q421	UMZ1N-W	PAIR TRANSISTOR	LIGHT LED EFGHKMNP	
Q421	or PUMZ1-W	PAIR TRANSISTOR	LIGHT LED EFGHKMNP	
Q421	or XP4601-W	TRANSISTOR	LIGHT LED EFGHKMNP	
Q422	DTC143XE-X	DIGI TRANSISTOR	LIGHT LED EFGHKMNP	
Q422	or UN921FJ-X	DIGI TRANSISTOR	LIGHT LED EFGHKMNP	
Q422	or KRC419E-X	DIGI TRANSISTOR	LIGHT LED EFGHKMNP	
Q422	or RT1N432U-X	DIGI TRANSISTOR	LIGHT LED EFGHKMNP	
Q422	or SRC1219EF-X	DIGI TRANSISTOR	LIGHT LED EFGHKMNP	
Q1001	2SC4617/RS/-X	TRANSISTOR		
Q1001	or BC847BT-X	TRANSISTOR		
Q1001	or 2SD2216J/RS/-X	TRANSISTOR		
Q1001	or 2SC5383/E/-X	TRANSISTOR		
Q1002	DTC143XE-X	DIGI TRANSISTOR		
Q1002	or UN921FJ-X	DIGI TRANSISTOR		
Q1002	or RT1N432U-X	DIGI TRANSISTOR		
Q1002	or SRC1219EF-X	DIGI TRANSISTOR		
Q1002	or KRC419E-X	DIGI TRANSISTOR		
Q1003	DTC143XE-X	DIGI TRANSISTOR		
Q1003	or UN921FJ-X	DIGI TRANSISTOR		
Q1003	or RT1N432U-X	DIGI TRANSISTOR		
Q1003	or SRC1219EF-X	DIGI TRANSISTOR		

Q1003	or KRC419E-X	DIGI TRANSISTOR		
Q1005	DTC124EE-X	DIGI TRANSISTOR		
Q1005	or UN9212J-X	DIGI TRANSISTOR		
Q1005	or RT1N241U-X	DIGI TRANSISTOR		
Q1005	or SRC1203EF-X	DIGI TRANSISTOR		
Q1005	or KRC403E-X	DIGI TRANSISTOR		
Q2401	2SC4617/RS/-X	TRANSISTOR		
Q2401	or 2SC5383/F/-X	TRANSISTOR		
Q2401	or 2SD2216J/RS/-X	TRANSISTOR		
Q2403	2SC4617/RS/-X	TRANSISTOR		
Q2403	or 2SC5383/F/-X	TRANSISTOR		
Q2403	or 2SD2216J/RS/-X	TRANSISTOR		
Q2701	UMX18N-W	PAIR TRANSISTOR		
Q3001	3LN01SS-X	MOS FET		
Q3704	XP4601-W	TRANSISTOR		EFGHKMNP
Q3704	or PUMZ1-W	PAIR TRANSISTOR		EFGHKMNP
Q3704	or UMZ1N-W	PAIR TRANSISTOR		EFGHKMNP
Q4901	ST305R4NV	PHOTO TRANSISTOR		W/B
Q6001	SP8J5-X	MOS FET		
Q6201	RSR025P03-X	MOS FET		
Q6202	RSR025N03-X	MOS FET		
Q6501	2SD2703-X	TRANSISTOR		
Q6502	UMT1N-W	PAIR TRANSISTOR		
Q6502	or PUMT1-W	PAIR TRANSISTOR		
Q6502	or BC856S-X	PAIR TRANSISTOR		
Q6502	or KTA701U/G/-X	PAIR TRANSISTOR		
Q6701	RSR025P03-X	MOS FET		
Q6702	RSR025P03-X	MOS FET		
Q6703	RSR025P03-X	MOS FET		
Q7001	PUMX1-W	PAIR TRANSISTOR		
Q7001	or XP4501-W	TRANSISTOR		
Q7001	or KTC801U/G/-X	PAIR TRANSISTOR		
Q7001	or RT3CLLM/EF/-X	TRANSISTOR		
Q7001	or UMX1N-W	PAIR TRANSISTOR		
Q7002	PUMX1-W	PAIR TRANSISTOR		
Q7002	or XP4501-W	TRANSISTOR		
Q7002	or KTC801U/G/-X	PAIR TRANSISTOR		
Q7002	or RT3CLLM/EF/-X	TRANSISTOR		
Q7002	or UMX1N-W	PAIR TRANSISTOR		
Q7003	PUMX1-W	PAIR TRANSISTOR		
Q7003	or XP4501-W	TRANSISTOR		
Q7003	or KTC801U/G/-X	PAIR TRANSISTOR		
Q7003	or RT3CLLM/EF/-X	TRANSISTOR		
Q7003	or UMX1N-W	PAIR TRANSISTOR		
Q8303	XP4312-W	DIGI TRANSISTOR		
Q8303	or UMD2N-W	DIGI TRANSISTOR		
D181	EMZ6.8N-X	Z DIODE		OPE UNIT
△ D191	MA111-X	SI DIODE		LIT_3V
△ D191	or SDS511-X	SI DIODE		LIT_3V
△ D191	or 1SS352-X	SI DIODE		LIT_3V
△ D191	or 1SS355-X	SI DIODE		LIT_3V
△ D191	or 1SS355W-X	DIODE		LIT_3V
D192	MA2SD31-X	SB DIODE		LIT_3V
D192	or RB521S-30-X	SB DIODE		LIT_3V
D192	or KDR720E-X	SB DIODE		LIT_3V
D421	NSPW500CS/C0TU/	LED		LIGHT LED EFGHKMNP
D1001	MA133-X	SI DIODE		
D2701	DA221-X	DIODE ARRAY		
D4201	1SS355-X	SI DIODE		
D4201	or MA111-X	SI DIODE		
D4201	or 1SS352-X	SI DIODE		
D4201	or SDS511-X	SI DIODE		
D4201	or 1SS355W-X	DIODE		
D6101	MA22D23-X	SB DIODE		
D6201	MA22D23-X	SB DIODE		
D6301	MA22D23-X	SB DIODE		
D6401	MA22D23-X	SB DIODE		
D6501	RB481K-X	SB DIODE		
D6502	RB481K-X	SB DIODE		
D6701	MA22D23-X	SB DIODE		
D6702	MA22D23-X	SB DIODE		
D6901	RB551V-30-X	SB DIODE		
C111	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C122	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C141	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	
C601	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
GZ-MG330HEK	A	GZ-MG330HEZ	D	GZ-MG335HEX	G	GZ-MG365HEK	K	GZ-MG365HEZ	P
GZ-MG330HER	B	GZ-MG335HEK	E	GZ-MG335HEZ	H	GZ-MG365HER	M		
GZ-MG330HEX	C	GZ-MG335HER	F	GZ-MG340HEX	J	GZ-MG365HEX	N		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C1004	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3044	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C1006	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3045	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1009	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3046	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C1011	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C3051	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C1014	NCB20JK-106X	C CAPACITOR	10uF 6.3V K		C3052	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1015	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3053	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C1016	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3054	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C1022	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C3055	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1027	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C3059	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1030	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3060	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1031	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C3061	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1032	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3062	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1033	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3063	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1035	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3067	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C1036	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3068	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1037	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3070	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1038	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3072	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1039	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3073	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1040	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3075	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C1042	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3083	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	
C1044	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3084	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C1046	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3090	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C1047	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3091	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C2202	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3092	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C2203	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C3093	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C2204	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3094	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C2209	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3095	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C2210	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3098	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C2224	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3099	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C2401	NBZ0015-106X	TA E CAPACITOR	10uF 6.3V M		C3201	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2402	NBZ0015-106X	TA E CAPACITOR	10uF 6.3V M		C3202	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C2403	NBZ0015-106X	TA E CAPACITOR	10uF 6.3V M		C3203	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C2404	NBZ0015-106X	TA E CAPACITOR	10uF 6.3V M		C3204	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C2405	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3205	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C2406	NBZ0015-106X	TA E CAPACITOR	10uF 6.3V M		C3701	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M EFGHKMNP	
C2603	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K		C3702	NCB21AK-225X	C CAPACITOR	2.2uF 10V K EFGHKMNP	
C2604	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K		C3703	NCB20JK-106X	C CAPACITOR	10uF 6.3V K EFGHKMNP	
C2605	NCBA1EK-472W	C CAPACITOR	4700pF 25V K		C3704	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C2606	NCBA1EK-472W	C CAPACITOR	4700pF 25V K		C3705	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M EFGHKMNP	
C2611	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3706	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K EFGHKMNP	
C2612	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3707	NCB30JK-105X	C CAPACITOR	1uF 6.3V K EFGHKMNP	
C2613	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3708	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2623	NDCA1HJ-100W	C CAPACITOR	10pF 50V J		C3709	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K EFGHKMNP	
C2624	NDCA1HJ-100W	C CAPACITOR	10pF 50V J		C3710	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C2655	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3718	NCB30JK-105X	C CAPACITOR	1uF 6.3V K A,B,C,D,J	
C2656	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C3719	NCB30JK-105X	C CAPACITOR	1uF 6.3V K A,B,C,D,J	
C3001	NCB31AK-105X	C CAPACITOR	1uF 10V K		C4201	NCJ21CK-475X-D	C CAPACITOR	4.7uF 16V K	
C3002	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C4202	NCJ21CK-475X-D	C CAPACITOR	4.7uF 16V K	
C3004	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M		C4203	NCJ20JM-226X-A	C CAPACITOR	22uF 6.3V M	
C3005	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M		C4204	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C3006	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M		C4205	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C3007	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M		C4206	NCB21EK-105X	C CAPACITOR	1uF 25V K	
C3008	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C4208	NDCA1HJ-6R0W	C CAPACITOR	6pF 50V J	
C3009	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C4209	NDCA1HJ-6R0W	C CAPACITOR	6pF 50V J	
C3010	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C4210	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3011	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C4211	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C3012	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C4212	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3013	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C4213	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3014	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		C4216	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3018	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M		C4217	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3022	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		C4218	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3023	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		C4219	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3024	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C4220	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3025	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C4221	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3026	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M		C4222	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3028	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C4223	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3029	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C4224	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3030	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C4225	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3031	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C4226	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3032	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C4227	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3033	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		C4228	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3034	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C4902	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C3035	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C4903	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C3036	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		C4905	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3037	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		C4907	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3038	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		C4908	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C3040	NDCA1HJ-6R0W	C CAPACITOR	6pF 50V J		C4909	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C3041	NDCA1HJ-6R0W	C CAPACITOR	6pF 50V J		C4911	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
GZ-MG330HEK	A	GZ-MG330HEZ	D	GZ-MG335HEX	G	GZ-MG365HEK	K	GZ-MG365HEZ	P
GZ-MG330HER	B	GZ-MG335HEK	E	GZ-MG335HEZ	H	GZ-MG365HER	M		
GZ-MG330HEX	C	GZ-MG335HER	F	GZ-MG340HEX	J	GZ-MG365HEX	N		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C4912	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C8340	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4913	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C8341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4914	NCBA1HK-222W	C CAPACITOR	2200pF 50V K		C8801	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M EFGHKMNP	
C4915	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		C8802	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M EFGHKMNP	
C4916	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C8803	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K EFGHKMNP	
C4921	NCBA1CK-223W	C CAPACITOR	0.022uF 16V K		C8804	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K EFGHKMNP	
C4922	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C8805	NCB30JK-105X	C CAPACITOR	1uF 6.3V K EFGHKMNP	
C4932	NCB20JK-106X	C CAPACITOR	10uF 6.3V K		C8806	NDCA1EJ-221W	C CAPACITOR	220pF 25V J EFGHKMNP	
C4935	NCB20JK-106X	C CAPACITOR	10uF 6.3V K		C8807	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K EFGHKMNP	
C4941	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C8808	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K EFGHKMNP	
C4942	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C8809	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K EFGHKMNP	
C4943	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		C8810	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K EFGHKMNP	
C6002	NCB21CK-105X	C CAPACITOR	1uF 16V K		C8811	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K EFGHKMNP	
C6003	NCB21CK-105X	C CAPACITOR	1uF 16V K						
C6004	NCB31CK-105X	C CAPACITOR	1uF 16V K		R101	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C6005	NCB31CK-105X	C CAPACITOR	1uF 16V K		R142	NRSA6AJ-221W	MG RESISTOR	220Ω 1/16W J	
C6006	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R143	NRSA6AJ-563W	MG RESISTOR	56kΩ 1/16W J	
C6008	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		R144	NRSA6AJ-563W	MG RESISTOR	56kΩ 1/16W J	
C6101	NCBA1HK-221W	C CAPACITOR	220pF 50V K		R145	NRSA6AJ-563W	MG RESISTOR	56kΩ 1/16W J	
C6102	NCBA1HK-152W	C CAPACITOR	1500pF 50V K		R146	NRSA6AJ-563W	MG RESISTOR	56kΩ 1/16W J	
C6103	NCB31CK-105X	C CAPACITOR	1uF 16V K		R147	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
C6104	NCB10JK-106X	C CAPACITOR	10uF 6.3V K		R148	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
C6201	NCBA1HK-221W	C CAPACITOR	220pF 50V K		R149	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
C6202	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		R150	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
C6203	NCB31CK-105X	C CAPACITOR	1uF 16V K		R151	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
C6204	NCB20JK-106X	C CAPACITOR	10uF 6.3V K		R181	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
C6301	NCBA1HK-221W	C CAPACITOR	220pF 50V K		R183	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C6302	NCBA1HK-152W	C CAPACITOR	1500pF 50V K		△ R191	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C6303	NCB31CK-105X	C CAPACITOR	1uF 16V K		R197	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C6304	NCB20JK-106X	C CAPACITOR	10uF 6.3V K		R199	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C6401	NCBA1HK-221W	C CAPACITOR	220pF 50V K		R421	NRSA6AJ-152W	MG RESISTOR	1.5kΩ 1/16W J EFGHKMNP	
C6402	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		R422	NRSA6AJ-182W	MG RESISTOR	1.8kΩ 1/16W J EFGHKMNP	
C6403	NCB31CK-105X	C CAPACITOR	1uF 16V K		R423	NRSA6AJ-391W	MG RESISTOR	390Ω 1/16W J EFGHKMNP	
C6404	NCB10JK-106X	C CAPACITOR	10uF 6.3V K		R424	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J EFGHKMNP	
C6501	NCBA1AK-473W	C CAPACITOR	0.047uF 10V K		R601	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
C6502	NCBA1AK-333W	C CAPACITOR	0.033uF 10V K		R1001	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
C6503	NCB31CK-105X	C CAPACITOR	1uF 16V K		R1002	NRSA6AJ-331W	MG RESISTOR	330Ω 1/16W J	
C6504	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		R1003	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
C6505	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		R1004	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C6506	NCB11EK-105X	C CAPACITOR	1uF 25V K		R1005	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C6507	NCB11EK-105X	C CAPACITOR	1uF 25V K		R1006	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
C6509	NCB31CK-105X	C CAPACITOR	1uF 16V K		R1007	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
C6510	NCB21CK-105X	C CAPACITOR	1uF 16V K		R1008	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	
C6701	NCBA1EK-472W	C CAPACITOR	4700pF 25V K		R1009	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J	
C6702	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K		R1010	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C6704	NCB31CK-105X	C CAPACITOR	1uF 16V K		R1011	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
C6705	NCB11AK-106X	C CAPACITOR	10uF 10V K		R1012	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
C6706	NCBA1HK-152W	C CAPACITOR	1500pF 50V K		R1013	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
C6707	NDCA1HJ-151W	C CAPACITOR	150pF 50V J		R1014	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
C6708	NCB10JK-106X	C CAPACITOR	10uF 6.3V K		R1015	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
C6901	NCBA1HK-102W	C CAPACITOR	1000pF 50V K		R1016	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
C6902	NCBA1HK-392W	C CAPACITOR	3900pF 50V K		R1017	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
C6903	NCB21CK-105X	C CAPACITOR	1uF 16V K		R1019	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
C6904	NCB20JK-106X	C CAPACITOR	10uF 6.3V K		R1020	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C6905	NCB21CK-105X	C CAPACITOR	1uF 16V K		R1021	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
C6906	NCB21CK-105X	C CAPACITOR	1uF 16V K		R1022	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
C7002	NCB11CK-225X	C CAPACITOR	2.2uF 16V K		R1023	NRSA6AJ-184W	MG RESISTOR	180kΩ 1/16W J	
C7004	NCB31CK-105X	C CAPACITOR	1uF 16V K		R1025	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
C8301	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1027	NRSA6AJ-272W	MG RESISTOR	2.7kΩ 1/16W J	
C8303	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1028	NRSA6AJ-683W	MG RESISTOR	68kΩ 1/16W J	
C8306	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1030	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
C8307	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1031	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
C8308	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1032	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C8309	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1033	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
C8310	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1037	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
C8312	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1038	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
C8314	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1040	NRSA6AJ-273W	MG RESISTOR	27kΩ 1/16W J	
C8318	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1042	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C8319	NDCA1HJ-6R0W	C CAPACITOR	6pF 50V J		R1043	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C8320	NDCA1HJ-6R0W	C CAPACITOR	6pF 50V J		R1044	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C8324	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1046	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
C8325	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1047	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C8329	NCB31CK-105X	C CAPACITOR	1uF 16V K		R1048	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C8330	NBE41AM-476X	TA E CAPACITOR	47uF 10V M		R1049	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
C8331	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K		R1052	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
C8336	NCB31AK-105X	C CAPACITOR	1uF 10V K		R1053	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
C8337	NCB31AK-105X	C CAPACITOR	1uF 10V K		R1054	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
C8339	NCB31AK-105X	C CAPACITOR	1uF 10V K		R1055	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
GZ-MG330HEK	A	GZ-MG330HEZ	D	GZ-MG335HEX	G	GZ-MG365HEK	K	GZ-MG365HEZ	P
GZ-MG330HER	B	GZ-MG335HEK	E	GZ-MG335HEZ	H	GZ-MG365HER	M		
GZ-MG330HEX	C	GZ-MG335HER	F	GZ-MG340HEX	J	GZ-MG365HEX	N		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R1056	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R2704	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R1057	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J		R2705	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R1058	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3001	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1059	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3002	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1060	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3003	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R1061	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J		R3005	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1062	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J		R3006	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1063	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J		R3020	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1065	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3021	NRSA6AJ-331W	MG RESISTOR	330Ω 1/16W J	
R1066	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R3023	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R1067	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J		R3033	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1069	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3035	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1070	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J		R3044	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1071	NRSA6AJ-623W	MG RESISTOR	62kΩ 1/16W J		R3046	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1073	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J		R3051	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R1074	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J		R3057	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1075	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J		R3076	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1076	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3080	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1077	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3081	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1078	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R3091	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R1079	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3092	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1080	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3095	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1081	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3097	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1082	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J		R3098	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1085	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3103	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1086	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3104	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1087	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3105	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1088	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3110	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1091	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3111	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1092	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J		R3116	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J EFGHKMNP	
R1093	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J		R3118	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R1094	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R3123	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J A,B,C,D,J	
R1095	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R3124	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J A,B,C,D,J	
R1096	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R3125	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1097	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3127	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R1098	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3130	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R1100	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R3701	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D EFGHKMNP	
R1101	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R3702	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D	
R1104	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R3703	NRSA6AD-680W	MG RESISTOR	68Ω 1/16W D EFGHKMNP	
R1105	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R3704	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J EFGHKMNP	
R1106	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3705	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J EFGHKMNP	
R1109	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3706	NRSA6AJ-823W	MG RESISTOR	82kΩ 1/16W J EFGHKMNP	
R1111	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3707	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J EFGHKMNP	
R1112	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3708	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J A,B,C,D,J	
R1113	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R3730	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R1114	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R4201	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R1115	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R4202	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R1116	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R4203	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R1117	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J		R4204	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R1118	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R4205	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R1119	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J		R4206	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R1120	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R4207	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1121	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R4208	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R1122	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R4209	NRSA6AJ-433W	MG RESISTOR	43kΩ 1/16W J	
R1123	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J		R4210	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1126	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J		R4211	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1127	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R4212	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R1128	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J		R4225	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R1129	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		R4901	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R2204	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J		R4903	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J	
R2206	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J		R4904	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R2207	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J		R4905	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R2208	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J		R4906	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2209	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J		R4907	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R2217	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J		R4911	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R2401	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J		R4916	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R2402	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J		R4917	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R2403	NRSA6AJ-183W	MG RESISTOR	18kΩ 1/16W J		R4923	NRSA6AJ-122W	MG RESISTOR	1.2kΩ 1/16W J	
R2407	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J		R4924	NRSA6AJ-123W	MG RESISTOR	12kΩ 1/16W J	
R2601	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J		R4927	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J	
R2602	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J		R4931	NRSA6AJ-331W	MG RESISTOR	330Ω 1/16W J	
R2607	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J		R4932	NRSA6AJ-331W	MG RESISTOR	330Ω 1/16W J	
R2608	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J		R4933	NRSA6AJ-393W	MG RESISTOR	39kΩ 1/16W J	
R2609	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J		R4934	NRSA6AJ-683W	MG RESISTOR	68kΩ 1/16W J	
R2610	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J		R4949	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R2701	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J		R4950	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R2702	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J		R4951	NRSA6AJ-154W	MG RESISTOR	150kΩ 1/16W J	
R2703	NRSA6AJ-564W	MG RESISTOR	560kΩ 1/16W J		R4953	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
GZ-MG330HEK	A	GZ-MG330HEZ	D	GZ-MG335HEX	G	GZ-MG365HEK	K	GZ-MG365HEZ	P
GZ-MG330HER	B	GZ-MG335HEK	E	GZ-MG335HEZ	H	GZ-MG365HER	M		
GZ-MG330HEX	C	GZ-MG335HER	F	GZ-MG340HEX	J	GZ-MG365HEX	N		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R4954	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J		R8301	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R4955	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J		R8302	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R4959	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R8303	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R4961	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J		R8304	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R4962	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J		R8305	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R4987	NRSA6AJ-121W	MG RESISTOR	120Ω 1/16W J		R8306	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R4988	NRSA6AJ-121W	MG RESISTOR	120Ω 1/16W J		R8307	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		R8308	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		R8309	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6003	NRSA6AD-303W	MG RESISTOR	30kΩ 1/16W D		R8310	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6004	NRSA6AD-473W	MG RESISTOR	47kΩ 1/16W D		R8311	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6008	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R8312	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6011	NRSA6AD-823W	MG RESISTOR	82kΩ 1/16W D		R8313	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6012	NRSA6AD-333W	MG RESISTOR	33kΩ 1/16W D		R8314	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6013	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J		R8315	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6014	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J		R8316	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6021	NRSA6AD-154W	MG RESISTOR	150kΩ 1/16W D		R8317	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6022	NRSA6AD-393W	MG RESISTOR	39kΩ 1/16W D		R8318	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6101	NRSA6AJ-362W	MG RESISTOR	3.6kΩ 1/16W J		R8319	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6102	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R8320	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6103	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D		R8321	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6104	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D		R8322	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R6106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R8323	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R6107	NRSA6AD-301W	MG RESISTOR	300Ω 1/16W D		R8324	NRSA6AJ-820W	MG RESISTOR	82Ω 1/16W J	
R6109	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J		R8325	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R6201	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J		R8326	NRSA6AJ-820W	MG RESISTOR	82Ω 1/16W J	
R6202	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R8327	NRSA6AJ-820W	MG RESISTOR	82Ω 1/16W J	
R6203	NRSA6AD-183W	MG RESISTOR	18kΩ 1/16W D		R8328	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6204	NRSA6AD-203W	MG RESISTOR	20kΩ 1/16W D		R8329	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω 1/16W J	
R6205	NRSA6AD-124W	MG RESISTOR	120kΩ 1/16W D		R8330	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω 1/16W J	
R6301	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J		R8337	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6302	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R8338	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6303	NRSA6AD-752W	MG RESISTOR	7.5kΩ 1/16W D		R8342	NRSA6AD-622W	MG RESISTOR	6.2kΩ 1/16W D	
R6304	NRSA6AD-473W	MG RESISTOR	47kΩ 1/16W D		R8349	NRSA6AJ-330W	MG RESISTOR	33Ω 1/16W J	
R6401	NRSA6AJ-362W	MG RESISTOR	3.6kΩ 1/16W J		R8350	NRSA6AJ-100W	MG RESISTOR	10Ω 1/16W J	
R6402	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R8351	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6403	NRSA6AD-203W	MG RESISTOR	20kΩ 1/16W D		R8352	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R6404	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D		R8353	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R6405	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J		R8354	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R6406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R8356	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6501	NRSA6AJ-272W	MG RESISTOR	2.7kΩ 1/16W J		R8360	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω 1/16W J	
R6502	NRSA6AJ-682W	MG RESISTOR	6.8kΩ 1/16W J		R8361	NRSA6AJ-4R7W	MG RESISTOR	4.7Ω 1/16W J	
R6503	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D		R8801	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J EFGHKMNP	
R6505	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D		R8802	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J EFGHKMNP	
R6506	NRSA6AD-104W	MG RESISTOR	100kΩ 1/16W D		R8803	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J EFGHKMNP	
R6507	NRSA6AD-563W	MG RESISTOR	56kΩ 1/16W D		R8805	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J EFGHKMNP	
R6508	NRSA6AD-754W	MG RESISTOR	750kΩ 1/16W D		R8806	NRSA6AD-560W	MG RESISTOR	56Ω 1/16W D EFGHKMNP	
R6509	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J		R8807	NRSA6AD-560W	MG RESISTOR	56Ω 1/16W D EFGHKMNP	
R6510	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J		R8808	NRSA6AD-560W	MG RESISTOR	56Ω 1/16W D EFGHKMNP	
R6511	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R8809	NRSA6AD-560W	MG RESISTOR	56Ω 1/16W D EFGHKMNP	
R6519	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R8810	NRSA6AD-512W	MG RESISTOR	5.1kΩ 1/16W D EFGHKMNP	
R6527	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R8811	NRSA6AD-682W	MG RESISTOR	6.8kΩ 1/16W D EFGHKMNP	
R6528	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R8812	NRSA6AD-913W	MG RESISTOR	91kΩ 1/16W D EFGHKMNP	
R6702	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J		R8821	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J A,B,C,D,J	
R6704	NRSA6AD-103W	MG RESISTOR	10kΩ 1/16W D		RA3001	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4 EFGHKMNP	
R6705	NRSA6AD-393W	MG RESISTOR	39kΩ 1/16W D		RA3002	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4 EFGHKMNP	
R6706	NRSA6AJ-822W	MG RESISTOR	8.2kΩ 1/16W J		RA8801	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4 EFGHKMNP	
R6707	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J						
R6708	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D		L111	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R6710	NRSA6AD-114W	MG RESISTOR	110kΩ 1/16W D		L121	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6711	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J		L141	NQR0154-004X	FERRITE CORE		
R6712	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J		L161	NQL38DK-100X	P COIL	10uH K	
R6714	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J		L1002	NQL38DK-100X	P COIL	10uH K	
R6715	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J		L2401	NQLC32M-100X	COIL	10uH M	
R6716	NRV142F-R20X	CMF RESISTOR	0.2Ω 1/4W F		L2402	NQLC32M-100X	COIL	10uH M	
R6901	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J		L2601	NQR0269-013X	FERRITE BEADS		
R6902	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J		L2602	NQR0269-013X	FERRITE BEADS		
R7001	NRSA6AD-393W	MG RESISTOR	39kΩ 1/16W D		L2603	NQR0269-013X	FERRITE BEADS		
R7002	NRSA6AD-153W	MG RESISTOR	15kΩ 1/16W D		L3001	NQR0154-004X	FERRITE CORE		
R7003	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D		L3003	NQR0154-004X	FERRITE CORE		
R7004	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D		L3004	NQR0154-004X	FERRITE CORE		
R7005	NRSA6AD-123W	MG RESISTOR	12kΩ 1/16W D		L3005	NQR0599-001X	FERRITE BEADS		
R7006	NRSA6AD-392W	MG RESISTOR	3.9kΩ 1/16W D		L3007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7007	NRSA6AD-392W	MG RESISTOR	3.9kΩ 1/16W D		L3011	NQR0599-001X	FERRITE BEADS		
R7008	NRSA6AD-392W	MG RESISTOR	3.9kΩ 1/16W D		L3701	NQL38DK-100X	P COIL	10uH K EFGHKMNP	
R7009	NRSA6AJ-682W	MG RESISTOR	6.8kΩ 1/16W J		L3702	NQLE42M-220X	COIL	22uH M EFGHKMNP	
R7010	NRSA6AJ-682W	MG RESISTOR	6.8kΩ 1/16W J		L3703	NQL302N-100X	COIL	10uH N EFGHKMNP	
R7011	NRSA6AJ-682W	MG RESISTOR	6.8kΩ 1/16W J		L4201	NQL38DK-100X	P COIL	10uH K	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
GZ-MG330HEK	A	GZ-MG330HEZ	D	GZ-MG335HEX	G	GZ-MG365HEK	K	GZ-MG365HEZ	P
GZ-MG330HER	B	GZ-MG335HEK	E	GZ-MG335HEZ	H	GZ-MG365HER	M		
GZ-MG330HEX	C	GZ-MG335HER	F	GZ-MG340HEX	J	GZ-MG365HEX	N		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
L4202	NQL38DK-100X	P COIL	10uH K		L5002	NQL315K-100X	COIL	10uH K	
L4203	NQL38DK-220X	P COIL	22uH K		SENSOR BOARD ASSEMBLY <03>				
L4204	NQL38DK-220X	P COIL	22uH K		△ Symbol No.	Part No.	Part Name	Description	Local
L4205	NQL38DK-220X	P COIL	22uH K		PW1	LYA10121-01C1	SENSOR BOARD ASSY		
L4207	NQR0559-005X	FERRITE BEADS			IC301	CP6785AM-X	IC		
L4208	NQR0559-005X	FERRITE BEADS			D301	SMLA12BC7/MNP-X	LED		
L4209	NQR0559-005X	FERRITE BEADS			D302	SMLA12BC7/MNP-X	LED		
L4902	NQL38DK-100X	P COIL	10uH K		D303	SMLA12BC7/MNP-X	LED		
L4903	NQL38DK-100X	P COIL	10uH K		D304	SMLA12BC7/MNP-X	LED		
L6101	NQL52EM-470X	COIL	47uH M		C301	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
L6201	NQL52EM-680X	COIL	68uH M		C302	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
L6301	NQL52EM-390X	COIL	39uH M		C303	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	
L6401	NQL52EM-390X	COIL	39uH M		R301	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
L6501	NQL52EM-221X	COIL	220uH M		R302	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
L6502	NQL38DK-100X	P COIL	10uH K		R303	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
L6701	NQL52EM-470X	COIL	47uH M		R304	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
L6901	NQL79GM-470X	COIL	47uH M		L301	NQR0599-003X	FERRITE BEADS		
L7001	NQL38DK-101X	P COIL	100uH K		L302	NQR0599-003X	FERRITE BEADS		
L8301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		CN301	QGF0565C1-08W	CONNECTOR	FFC/FPC (1-8)	
L8302	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		WR1	QAL1038-001	FPC	MON-SENSOR	
L8303	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J		OPE BOARD ASSEMBLY <04>				
L8305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		△ Symbol No.	Part No.	Part Name	Description	Local
L8801	NQR0154-004X	FERRITE CORE	EFGHKMNP		PW2	LYA10121-01C2	OPE BOARD ASSY		
L8802	NQR0599-001X	FERRITE BEADS	EFGHKMNP		R401	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
CN101	QGF0534F2-30X	CONNECTOR	OPE FFC/FPC (1-30)		R402	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
CN102	QGF0534F2-40X	CONNECTOR	HDD FFC/FPC (1-40)		△ BT401	QAB0050-001	LITHIUM BATTERY	CR2032/H1G 3V 220mAh	
CN103	QGF0534F2-32X	CONNECTOR	REAR FFC/FPC (1-32)		CN401	QGF0565C1-30W	CONNECTOR	MAIN PWB FFC/FPC (1-30)	
CN104	QGF0534F3-12X	CONNECTOR	ZOOM FFC/FPC (1-12)		CN402	QGF0534F2-22X	CONNECTOR	MONI FPC FFC/FPC (1-22)	
CN105	QGF0543F3-22X	CONNECTOR	CCD FFC/FPC (1-22)		CN403	QGA1001F1-02X	CONNECTOR	SPEAKER W-B (1-2)	
CN106	QGF0543F3-25X	CONNECTOR	OP FFC/FPC (1-25)		S401	NSW0294-001X	LEVER SWITCH	LCD_OPEN	
CN107	QGA1001F1-04X	CONNECTOR	MIC W-B (1-4)		S402	NSW0198-001X	TACT SWITCH	MENU	
CN108	NNZ0191-001X	CREDLE CONNECTO	EFGHKMNP		S403	NSW0198-001X	TACT SWITCH	REC/PB	
CN110	QGB0512L1-30X	CONNECTOR	JIG B-B (1-30)		S404	NSW0198-001X	TACT SWITCH	AT/ML	
CN111	NNZ0189-001X	MICRO SD CONNE			S405	NSW0198-001X	TACT SWITCH	EVENT	
△ F6001	NMFZ007-2R5X-K	FUSE	2.5A 24V		S406	NSW0198-001X	TACT SWITCH	DVD DIRECT	
△ F6002	NMFZ007-2R5X-K	FUSE	2.5A 24V		WR1	WJT0213-001A-E	E-CARD WIRE	OPE-MAIN	
F6003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		MONITOR BOARD ASSEMBLY <05>				
J101	QNZ0847-001	USB CONNECTOR	AB USB		PW3	LYA10121-01C3	MONITOR BOARD ASSY		
TP1	NNZ0163-001X	EARTH TERMINAL			IC7601	HGDSBN001A-X	IC		
TP2	NNZ0163-001X	EARTH TERMINAL			IC7602	S-1112B28MC-W	IC		
TP3	NNZ0163-001X	EARTH TERMINAL			Q7701	UMD3N-W	DIGI TRANSISTOR		
TP4	NNZ0163-001X	EARTH TERMINAL			Q7701	or XP4311-W	TRANSISTOR		
TP5	NNZ0163-001X	EARTH TERMINAL			Q7701	or RT3T11M-X	DIGI TRANSISTOR		
TP6	NNZ0163-001X	EARTH TERMINAL			Q7701	or KRX201U-X	DIGI TRANSISTOR		
TP7	NNZ0163-001X	EARTH TERMINAL			Q7702	2SA1774/RS/-X	TRANSISTOR		
X1001	NAX0647-001X	C RESONATOR	20.000MHz		Q7702	or 2SB1462J/RS/-X	TRANSISTOR		
X1002	NAX0950-001X	CRYSTAL			Q7702	or 2SA1989/RS/-X	TRANSISTOR		
X3002	NAX0959-001X	CRYSTAL	32.913MHZ		Q7703	UMX1N-W	PAIR TRANSISTOR		
X4201	NAX0954-001X	CRYSTAL			Q7703	or XP4501-W	TRANSISTOR		
X8301	NAX0713-001X	CRYSTAL	24.000MHz		Q7703	or KTC801U/G/-X	PAIR TRANSISTOR		
HD1	LY36093-001B	HOLDER(W.B)	HOLDER(WB)						
HD2	LY36094-001A	HOLDER(I.R)	HOLDER(IR)						
HD3	LY36095-001B	HOLDER(LED)	HOLDER(LED)	EFGHKMNP					
OT1	LY36096-001A	CAP(LED)	CAP(LED)	EFGHKMNP					
CCD BOARD ASSEMBLY <02>					MONITOR BOARD ASSEMBLY <05>				
△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LYA10120-01B	CCD BOARD ASSY			PW3	LYA10121-01C3	MONITOR BOARD ASSY		
Q5001	2SC5345U/Y/-X	TRANSISTOR	CCD OUT		IC7601	HGDSBN001A-X	IC		
Q5001	or 2SC3931/CD/-X	TRANSISTOR			IC7602	S-1112B28MC-W	IC		
Q5001	or 2SC4265JC07-X	TRANSISTOR			Q7701	UMD3N-W	DIGI TRANSISTOR		
C5001	NCJ21CK-475X-D	C CAPACITOR	4.7uF 16V K		Q7701	or XP4311-W	TRANSISTOR		
C5002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		Q7701	or RT3T11M-X	DIGI TRANSISTOR		
C5004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		Q7701	or KRX201U-X	DIGI TRANSISTOR		
C5005	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		Q7702	2SA1774/RS/-X	TRANSISTOR		
C5006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		Q7702	or 2SB1462J/RS/-X	TRANSISTOR		
C5007	NCB31HK-222X	C CAPACITOR	2200pF 50V K		Q7702	or 2SA1989/RS/-X	TRANSISTOR		
R5001	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		Q7703	UMX1N-W	PAIR TRANSISTOR		
L5001	NQL315K-100X	COIL	10uH K		Q7703	or XP4501-W	TRANSISTOR		
					Q7703	or KTC801U/G/-X	PAIR TRANSISTOR		

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
GZ-MG330HEK	A	GZ-MG330HEZ	D	GZ-MG335HEX	G	GZ-MG365HEK	K	GZ-MG365HEZ	P
GZ-MG330HER	B	GZ-MG335HEK	E	GZ-MG335HEZ	H	GZ-MG365HER	M		
GZ-MG330HEX	C	GZ-MG335HER	F	GZ-MG340HEX	J	GZ-MG365HEX	N		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
Q7703	or RT3CLLM/EF/-X	TRANSISTOR			D603	UDZS16B-X	Z DIODE		
Q7703	or PUMX1-W	PAIR TRANSISTOR			D604	EMZ6.8N-X	Z DIODE		
Q7704	UMX1N-W	PAIR TRANSISTOR							
Q7704	or XP4501-W	TRANSISTOR			C603	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
Q7704	or KTC801U/G/-X	PAIR TRANSISTOR			C604	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
Q7704	or RT3CLLM/EF/-X	TRANSISTOR			C605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q7704	or PUMX1-W	PAIR TRANSISTOR			C606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C607	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D7502	MA8068-X	Z DIODE							
D7503	MA8068-X	Z DIODE			R601	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
D7504	MA8068-X	Z DIODE			R602	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
D7505	MA8068-X	Z DIODE							
D7601	MA8068-X	Z DIODE			L601	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D7701	NSSW008D/T205-X	LED			L602	NQR0251-004X	FERRITE BEADS		
D7702	NSSW008D/T205-X	LED			L603	NQR0251-004X	FERRITE BEADS		
D7703	NSSW008D/T205-X	LED							
D7704	NSSW008D/T205-X	LED			BT601	LY35736-001A	BATT.TERMINAL		
					CN601	QGF0534F2-32X	CONNECTOR	FFC/FPC (1-32)	
C7604	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		J601	QNS0287-001	3.5 JACK		
C7605	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		J602	QNA0050-001	DC JACK		
C7607	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		WR1	QAL1036-001	FPC	REAR-MAIN	
C7608	NCB21CK-105X	C CAPACITOR	1uF 16V K						
C7609	NCB21CK-105X	C CAPACITOR	1uF 16V K						
C7610	NCB21CK-105X	C CAPACITOR	1uF 16V K						
C7611	NCB31CK-105X	C CAPACITOR	1uF 16V K						
C7612	NCB31CK-105X	C CAPACITOR	1uF 16V K						
C7613	NCB31CK-105X	C CAPACITOR	1uF 16V K						
C7614	NCB31CK-105X	C CAPACITOR	1uF 16V K						
C7615	NCB21EK-105X	C CAPACITOR	1uF 25V K						
C7616	NCB21EK-105X	C CAPACITOR	1uF 25V K						
C7617	NCB21EK-105X	C CAPACITOR	1uF 25V K						
C7618	NCB21EK-105X	C CAPACITOR	1uF 25V K						
C7619	NCB21EK-105X	C CAPACITOR	1uF 25V K						
C7622	NCB31EK-153X	C CAPACITOR	0.015uF 25V K						
C7623	NCB31CK-224X	C CAPACITOR	0.22uF 16V K						
C7624	NDC31HJ-271X	C CAPACITOR	270pF 50V J						
C7701	NCB31CK-105X	C CAPACITOR	1uF 16V K						
R7506	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J						
R7507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R7508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R7509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R7510	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R7602	NRSA63D-333X	MG RESISTOR	33kΩ 1/16W D						
R7603	NRSA63D-333X	MG RESISTOR	33kΩ 1/16W D						
R7604	NRSA63D-333X	MG RESISTOR	33kΩ 1/16W D						
R7605	NRSA63D-363X	MG RESISTOR	36kΩ 1/16W D						
R7606	NRSA63D-363X	MG RESISTOR	36kΩ 1/16W D						
R7607	NRSA63D-363X	MG RESISTOR	36kΩ 1/16W D						
R7608	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D						
R7609	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R7610	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J						
R7702	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J						
R7703	NRSA63D-470X	MG RESISTOR	47Ω 1/16W D						
R7704	NRSA63D-470X	MG RESISTOR	47Ω 1/16W D						
R7705	NRSA63D-470X	MG RESISTOR	47Ω 1/16W D						
R7706	NRSA63D-470X	MG RESISTOR	47Ω 1/16W D						
L7601	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J						
L7602	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J						
L7603	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J						
L7604	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J						
L7701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
CN7501	QGF0528F4-08X	CONNECTOR	SENSOR PWB FFC/FPC (1-8)						
CN7601	QGF0309F2-23X	CONNECTOR	OPE PWB FFC/FPC (1-23)						
CN7602	QGF0528F4-40X	CONNECTOR	LCD PANEL FFC/FPC (1-40)						

REAR BOARD ASSEMBLY <06>

△ Symbol No.	Part No.	Part Name	Description	Local
PW4	LYA10121-01C4	REAR BOARD ASSY	REAR PANEL	
D601	MA8068-X	Z DIODE		
D602	MA8068-X	Z DIODE		

CDL JACK BOARD ASSEMBLY <81>

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LYA10123-01A1	CDL JACK BOARD ASSY		EF,GH,K,M,N,P
△ F1	NMFZ007-R20X-K	FUSE	0.2A 50V	EF,GH,K,M,N,P
J1	QNS0147-003	3.5 JACK		EF,GH,K,M,N,P
J2	QND0156-001	S JACK		EF,GH,K,M,N,P
J3	QNZ0732-001	D CONNECTOR		EF,GH,K,M,N,P
J4	QNZ0497-001	USB(B) CONNECTOR	USB(MINI-B)	EF,GH,K,M,N,P
J5	QNA0040-001	DC JACK		EF,GH,K,M,N,P

CDL CN BOARD ASSEMBLY <82>

△ Symbol No.	Part No.	Part Name	Description	Local
PW2	LYA10123-01A2	CDL CN BOARD ASSY		EF,GH,K,M,N,P