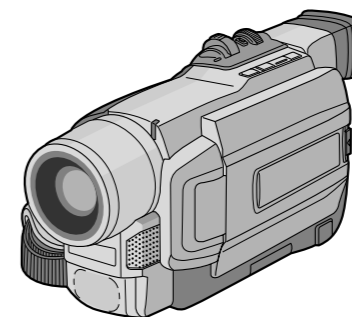


## SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVL355EG/EK, DVL357EG/EK,  
DVL555EG/EK, DVL557EG/EK

Mini DV PAL

DSC  
DIGITAL  
STILL CAMERA

GR-DVL355EG/EK, DVL357EG/EK, DVL555EG/EK, DVL557EG/EK

## SPECIFICATIONS (The specifications shown pertain specifically to the model GR-DVL150/157/355/357/450/555/557)

Camcorder		For Digital Still Camera (GR-DVL557/DVL555/DVL357/DVL355 only)	
<b>For General</b>		<b>Storage media</b> : SD Memory Card/MultiMediaCard	
<b>Power supply</b>	: DC 11.0 V $\equiv$ (Using AC Adapter) DC 7.2 V $\equiv$ (Using battery pack)	<b>Compression system</b>	: JPEG (compatible)
<b>Power consumption</b>		<b>File size</b>	: VGA (640 x 480 pixels)
LCD monitor off, viewfinder on	: Approx. 4.3 W	<b>Picture quality</b>	: 2 modes (FINE/STANDARD)
LCD monitor on, viewfinder off	: Approx. 5.3 W	<b>Approximate number of storable images with memory card [8 MB] (provided)</b>	
Video light	: Approx. 3.5 W	FINE	: 100
<b>Dimensions (W x H x D)</b>	: 83 mm x 97 mm x 188 mm (with the LCD monitor closed and the viewfinder pushed down)	STANDARD	: 200
<b>Weight</b>	: Approx. 610 g (GR-DVL557/DVL555/DVL450) Approx. 590 g (GR-DVL357/DVL355/DVL157/DVL150)	<b>with memory card [16 MB] (optional)</b>	
<b>Operating temperature</b>	: 0°C to 40°C	FINE	: 200
<b>Operating humidity</b>	: 35% to 80%	STANDARD	: 400
<b>Storage temperature</b>	: -20°C to 50°C	<b>with memory card [32 MB] (optional)</b>	
<b>Pickup</b>	: 1/4" CCD	FINE	: 400
<b>Lens</b>	: F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens	STANDARD	: 800
<b>Filter diameter</b>	: $\phi$ 37 mm	<b>with memory card [64 MB] (optional)</b>	
<b>LCD monitor</b>	: 3.5" diagonally measured, LCD panel/TFT active matrix system (GR-DVL557/DVL555/DVL450) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-DVL357/DVL355/DVL157/DVL150)	FINE	: 800
<b>Viewfinder</b>	: Electronic viewfinder with 0.44" colour LCD (GR-DVL557/DVL555/DVL450) Electronic viewfinder with 0.24" black/white LCD (GR-DVL357/DVL355/DVL157/DVL150)	STANDARD	: 1600
<b>Speaker</b>	: Monaural	<b>For Connectors</b>	
<b>For Digital Video Camera</b>		<b>S-Video</b>	
<b>Format</b>	: DV format (SD mode)	<b>Output</b>	: Y : 1 V (p-p), 75 $\Omega$ , analogue C : 0.29 V (p-p), 75 $\Omega$ , analogue
<b>Signal format</b>	: PAL standard	<b>Input (GR-DVL557 only)</b>	: Y : 0.8 V (p-p) - 1.2 V (p-p), 75 $\Omega$ , analogue C : 0.2 V (p-p) - 0.4 V (p-p), 75 $\Omega$ , analogue
<b>Recording/Playback format</b>	: Video: Digital component recording Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)	<b>AV</b>	
<b>Cassette</b>	: Mini DV cassette	<b>Video output</b>	: 1 V (p-p), 75 $\Omega$ , analogue
<b>Tape speed</b>	: SP: 18.8 mm/s LP: 12.5 mm/s	<b>Video input (GR-DVL557 only)</b>	: 0.8 V (p-p) - 1.2 V (p-p), 75 $\Omega$ , analogue
<b>Maximum recording time (using 80 min. cassette)</b>	: SP: 80 min. LP: 120 min.	<b>Audio output</b>	: 300 mV (rms), 1 k $\Omega$ , analogue, stereo
		<b>Audio input (GR-DVL557 only)</b>	: 300 mV (rms), 50 k $\Omega$ , analogue, stereo
		<b>DV</b>	
		<b>Output</b>	: 4-pin, IEEE 1394 compliant
		<b>Input (GR-DVL557/DVL357/DVL157 only)</b>	: 4-pin, IEEE 1394 compliant
		<b>USB (GR-DVL557/DVL555/DVL357/DVL355 only)</b>	: 5-pin
		<b>PC (DIGITAL PHOTO)</b>	
		<b>(GR-DVL450/DVL157/DVL150 only)</b>	: $\phi$ 2.5 mm, 3-pole
		<b>EDIT (GR-DVL557/DVL555/DVL357/DVL355 only)</b>	: $\phi$ 3.5 mm, 2-pole
		<b>JLIP (GR-DVL450/DVL157/DVL150 only)</b>	: $\phi$ 3.5 mm, 4-pole
		<b>AC adapter AP-V10EG</b>	
		<b>Power requirement</b>	: AC 110 V to 240 V~, 50 Hz/60 Hz
		<b>Output</b>	: DC 11 V $\equiv$ , 1 A
		<b>Dimensions (W x H x D)</b>	: 59 mm x 31 mm x 84 mm
		<b>Weight</b>	: Approx. 140 g (not including Power Cord)

Specifications shown are for SP mode unless otherwise indicated. E &amp; O.E. Design and specifications subject to change without notice.

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The following table lists the differing points between Models GR-DVL355EG/EK, GR-DVL357EG/EK, GR-DVL555EG/EK and GR-DVL557EG/EK in this series.

	GR-DVL355EG	GR-DVL355EK	GR-DVL357EG	GR-DVL357EK	GR-DVL555EG	GR-DVL555EK	GR-DVL557EG	GR-DVL557EK
VIEW FINDER	B/W	B/W	B/W	B/W	COLOR	COLOR	COLOR	B/W
LCD MONITOR	2.5"	2.5"	2.5"	2.5"	3.5"	3.5"	3.5"	3.5"
AV IN	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	USED	NOT USED
S IN	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	USED	NOT USED
DV IN	NOT USED	NOT USED	USED	USED	NOT USED	NOT USED	USED	NOT USED
AC ADAPTER	AP-V10EG	AP-V10EK	AP-V10EG	AP-V10EK	AP-V10EG	AP-V10EK	AP-V10EG	AP-V10EK

# Important Safety 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.

## ● 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  $\triangle$  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:

- 1) Wires covered with PVC tubing
- 2) Double insulated wires
- 3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:

- |                    |                                      |            |
|--------------------|--------------------------------------|------------|
| 1) Insulation Tape | 3) Spacers                           | 5) Barrier |
| 2) PVC tubing      | 4) Insulation sheets for transistors |            |

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

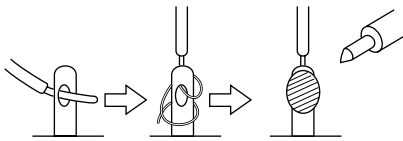


Fig.1

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.

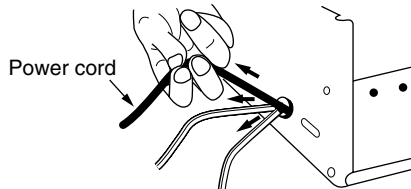


Fig.2

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.

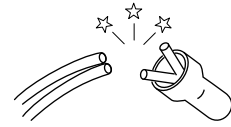
1) **Connector part number** : E03830-001

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

3) **Replacement procedure**

(1) 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.3

(2) 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.

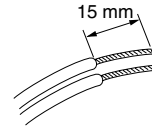


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

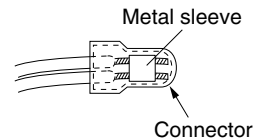


Fig.5

(4) As shown in Fig.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.

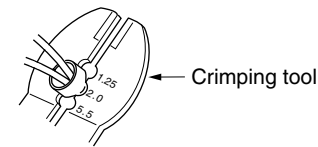


Fig.6

(5) Check the four points noted in Fig.7.

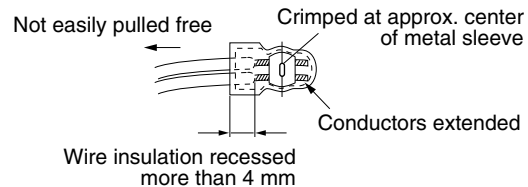


Fig.7

## ● 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

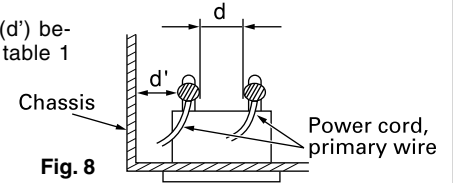
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

### 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 table 1 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 table 1 below.

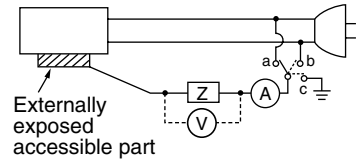


### 4. Leakage current test

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 figure 9 and following table 2.



### 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 figure 10 and grounding specifications.

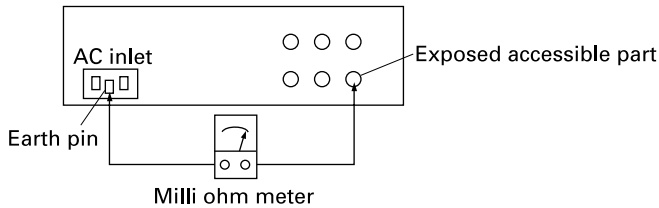


Fig. 10

#### Grounding Specifications

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

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	Europe & Australia	$R \geq 10 \text{ M}\Omega/500 \text{ V DC}$	AC 3 kV 1 minute (Class II)	$d \geq 4 \text{ mm}$
200 to 240 V			AC 1.5 kV 1 minute (Class I)	$d' \geq 8 \text{ mm}$ (Power cord) $d' \geq 6 \text{ mm}$ (Primary wire)

Table 1 Specifications for each region

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

Table 2 Leakage current specifications for each region

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



# SECTION 1 DISASSEMBLY

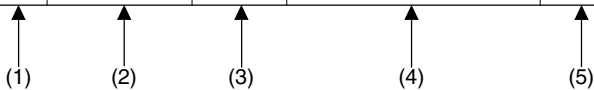
## 1.1 BEFORE ASSEMBLY AND DISASSEMBLY

### 1.1.1 Precautions

1. Be sure to remove the power supply unit prior to mounting and soldering of parts.
2. When removing a component part that needs to disconnect the connector and to remove the screw for removing itself, first disconnect the connecting wire from the connector and then remove the screw beforehand.
3. When connecting and disconnecting the connectors, be careful not to damage the wire.
4. Carefully remove and handle the part to which some spacer or shield is attached for reinforcement or insulation.
5. When replacing chip parts (especially IC parts), desolder completely first (to prevent peeling of the pattern).
6. Tighten screws properly during the procedures. Unless specified otherwise, tighten screws at a torque of 0.069N·m(0.7kgf·cm).

### 1.1.2 Assembly and disassembly

STEP No.	PART	Fig.No.	POINT	NOTE
①	COVER(ZOOM) ASSY	Fig.1-3-1	(S①a),(S①b),2(L①a),2(L①b)	-
②	UPPER CASE ASSY (Inc.E.VF UNIT (B/W.COLOR), SPEAKER/MONITOR)	Fig.1-3-2	(S②a),(S②b),(L②),(S②c) 2(S②a),(S②d),4(S②a) CAP(DC JACK) ☆CN②a	NOTE②



- (1) Indicate the disassembly steps. When assembling, perform in the reverse order of these steps. This number corresponds to the number in the disassembly diagram.
- (2) Indicates the name of disassembly/assembly parts.
- (3) Indicates the number in the disassembly diagram.
- (4) Indicates parts and points such as screws, washers, springs which must be removed during disassembly/assembly.

Symbol	Name, Point
S	Screw
L	Lock, Pawl, Hook
SD	Soldering
☆(Others)	Connector, Cover, Bracket, etc.

(Example)

- 2 (S1) : Remove the two screws (S1) for removing the part 1.
- CN②a: Disconnect the connector ②a.
- SD1 : Unsolder at the point SD1.

(5) Precautions on disassembly/assembly.

### 1.1.3 Destination of connectors

Note: Three kinds of double-arrows in connection tables respectively show kinds of connector/wires.

- ↔ : Wire
- ⇔ : Flat wire
- ↔ : Board to Board connector

[Example]

Note: Remove the parts marked in  .

CONN. No.	CONNECTOR				Pin No.
②a	MAIN	CN101	⇔	MONITOR CN761	50

### 1.1.4 Disconnection of Connectors (Wires)

Connector

Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.

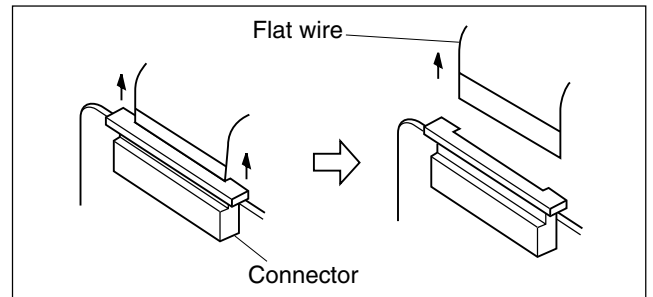


Fig. 1-1-1 Connector 1

Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.

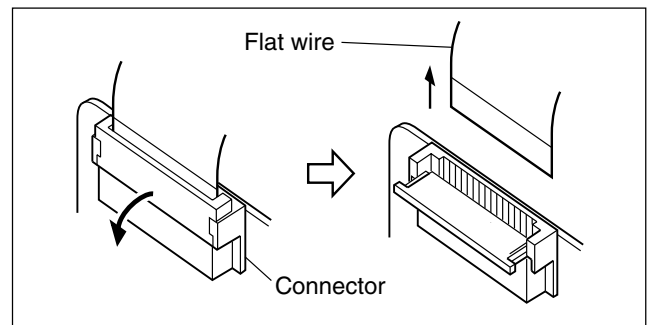


Fig. 1-1-2 Connector 2

B-B connector

Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

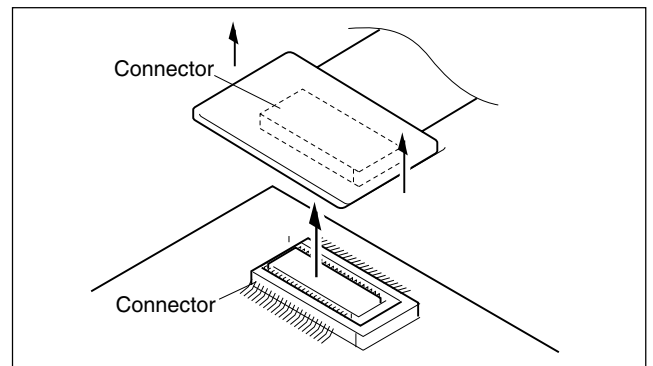


Fig. 1-1-3 Connector 3

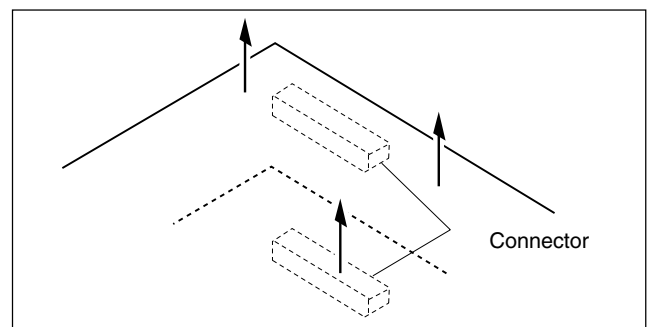


Fig. 1-1-4 Connector 4

## 1.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

### 1.2.1 Tools required for adjustments

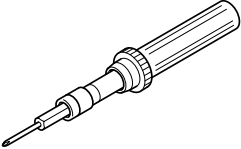
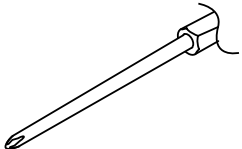
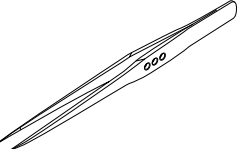
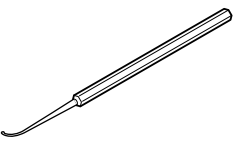
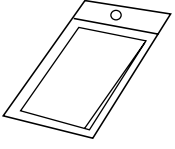
1	Torque Driver YTU94088	2	Bit YTU94088-003
			
3	Tweezers P-895	4	Chip IC Replacement Jig PTS40844-2
			
5	Cleaning Cloth KSMM-01		
			

Table 1-2-1

#### 1. Torque driver

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

#### 2. Bit

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

#### 3. Tweezers

To be used for removing and installing parts and wires.

#### 4. Chip IC replacement jig

To be used for adjustment of the camera system.

#### 5. Cleaning cloth

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

## 1.3 DISASSEMBLY/ASSEMBLY OF CABINET PARTS AND BOARD ASSEMBLY

### 1.3.1 Disassembly flow chart

This flowchart indicates the disassembly step for the cabinet parts and board assembly in order to gain access to item(s) to be serviced. When reassembling, perform the step(s) in reverse order.

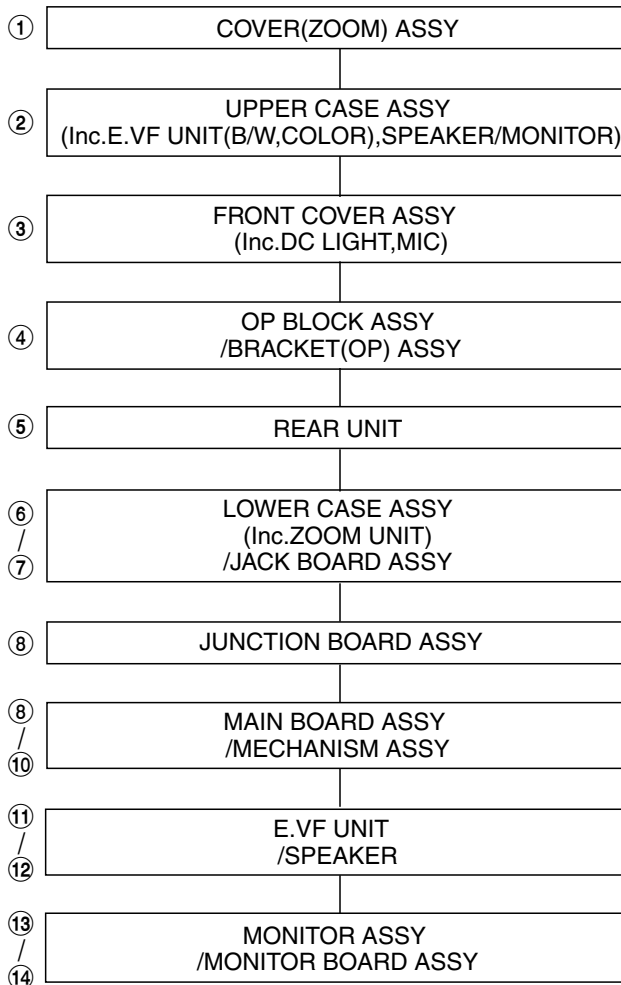


Table 1-3-1

### 1.3.2 Disassembly method

STEP No.	PART	Fig.No.	POINT	NOTE
①	COVER(ZOOM) ASSY	Fig.1-3-1	(S①a),(S①b),2(L①a),2(L①b)	-
②	UPPER CASE ASSY (Inc.E.VF UNIT (B/W.COLOR), SPEAKER/ MONITOR)	Fig.1-3-2	(S②a),(S②b),(L②),(S②c) 2(S②a),(S②d),4(S②a) CAP(DC JACK) ☆CN②a	NOTE②
③	FRONT COVER ASSY (Inc.DC LIGHT,MIC)	Fig.1-3-3	COVER(JACK),3(S③),(L③a) (L③b),☆CN③a	NOTE③a NOTE③b
④	OP BLOCK ASSY /BRACKET(OP) ASSY	Fig.1-3-4	☆CN④a,④b 2(S④),2(L④)	-
⑤	REAR UNIT	Fig.1-3-5	☆CN⑤a 4(S⑤)	NOTE⑤
⑥	LOWER CASE ASSY (Inc.ZOOMUNIT)	Fig.1-3-6	☆CN⑥a,⑥b,⑥c (S⑥a),2(S⑥b),2(S⑥c) (L⑥a),(L⑥b)	-
⑦	JACK BOARD ASSY		(S⑦)	NOTE⑦
⑧	JUNCTION BOARD ASSY	Fig.1-3-7	☆CN⑧a,⑧b,⑧c 2(S⑧),☆CN⑧d	NOTE⑧a NOTE⑧b
⑨	MAIN BOARD ASSY / /MECHANISM ASSY	Fig.1-3-8	(S⑨a),(L⑨a),SHIELD PLATE ☆CN⑨a,⑨b,⑨c 2(S⑨b),(L⑨b),(L⑨c)	-
⑩	E.VF UNIT	Fig.1-3-9	☆CN⑩a,(S⑩a),(S⑩b) (L⑩)	NOTE⑩a NOTE⑩b
⑪	SPEAKER		(S⑪),PLATE(SPK) ☆CN⑪a	-
⑫	MONITOR ASSY	Fig.1-3-10	2(S⑫a),COVER(HINGE) ☆CN⑫a,2(S⑫b)	NOTE⑫
⑬	MONITOR BOARD ASSY		3(S⑬),(L⑬)	NOTE⑬a NOTE⑬b NOTE⑬c NOTE⑬d

Table 1-3-2

**Note:** Remove the parts marked in  .

CONN. No.	CONNECTOR					Pin No.
②a	MAIN	CN101	↔	MONITOR	CN761	50
③a	MAIN	CN106	↔	MIC	—	3
④a	MAIN	CN107	↔	CCD	—	20
④b	MAIN	CN108	↔	OP BLOCK ASSY	—	24
⑤a	MAIN	CN104	↔	REAR UNIT	CN1	10
⑥a	MAIN	CN109	↔	ZOOM UNIT	—	15
⑥b	MAIN	CN102	↔	JACK	CN501	9
⑥c	JACK	CN502	↔	MAIN	CN103	14
⑧a	JUNCTION	CN571	↔	MAIN	CN113	34
⑧b	JUNCTION	CN574	↔	LOADING MOTOR	—	6
⑧c	JUNCTION	CN573	↔	DRUM MOTOR	—	11
⑧d	JUNCTION	CN572	↔	SENSOR	—	15
⑨a	MAIN	CN110	↔	HEAD	—	8
⑨b	MAIN	CN112	↔	CAPSTAN MOTOR	—	18
⑨c	MAIN	CN111	↔	ROTARY ENCODER	—	6
⑩a	MONITOR	CN763	↔	E.VF UNIT (C_B/W)	CN721/CN751	20
⑩a	MONITOR	CN765	↔	SPEAKER	—	2
⑩a	MONITOR	CN764	↔	LCD BL	CN751	33/32

Table 1-3-3

**NOTE ②:** Remove the CAP (DC JACK) before removing these parts .

**NOTE ③a:** As it is difficult to remove (L③b), remove the F. COVER ASSY by lowering it.

**NOTE ③b:** Be careful not to damage any parts. Particularly, take care not to scratch or stain the lenses.

**NOTE ⑤:** As screw No. 19 is hidden behind the cassette cover, open the cassette cover to enable removal of the screw.

**NOTE ⑦:** As screw No. 27 is hidden behind the cassette cover, open it before removing the screw.

**NOTE ⑧a:** As the CN572 is located at the back of the assembly, unplug the three connectors and remove the screws before disconnecting the CN572.

**NOTE ⑧b:** Be careful not to damage any of the switches.

**NOTE ⑩a:** To remove the unit, unlock the connector and pull out the unit together with the FPC.

**NOTE ⑩b:** When removing the unit, insert the FPC into the gap.

**NOTE ⑬:** When reassembling the MONITOR ASSY, be careful not to damage any of the parts.

**NOTE ⑭a:** To remove the assembly, pull the memory card out in advance. (MMC compatible models only)

**NOTE ⑭b:** Be careful not to damage any of the parts.

**NOTE ⑭c:** Be careful not to damage any of the parts. SW KNOB(DC LIGHT: Gray)

**NOTE ⑭d:** Be careful not to damage any of the parts. SW KNOB(VIDEO-DSC: Violet)

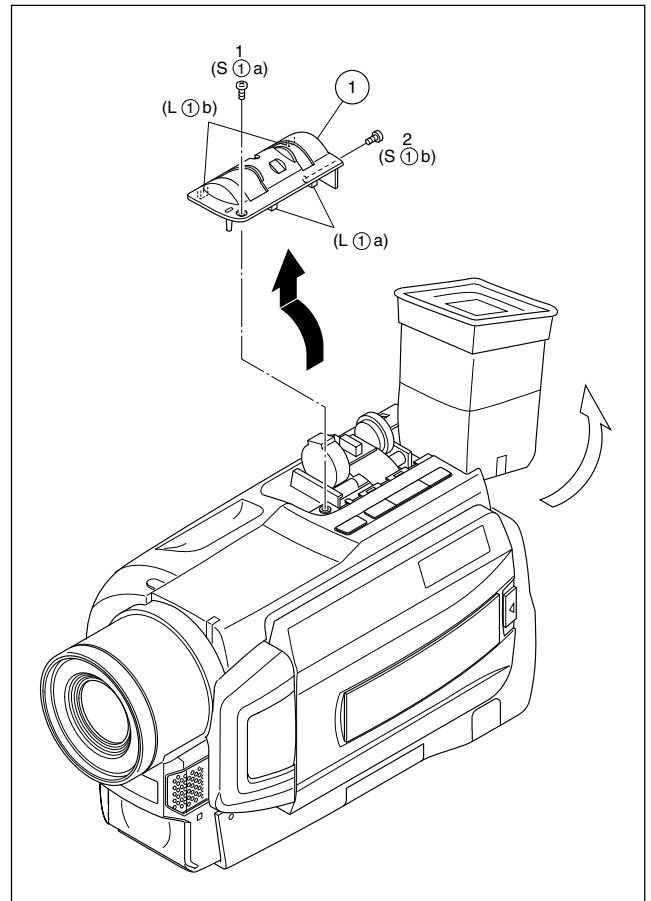


Fig. 1-3-1



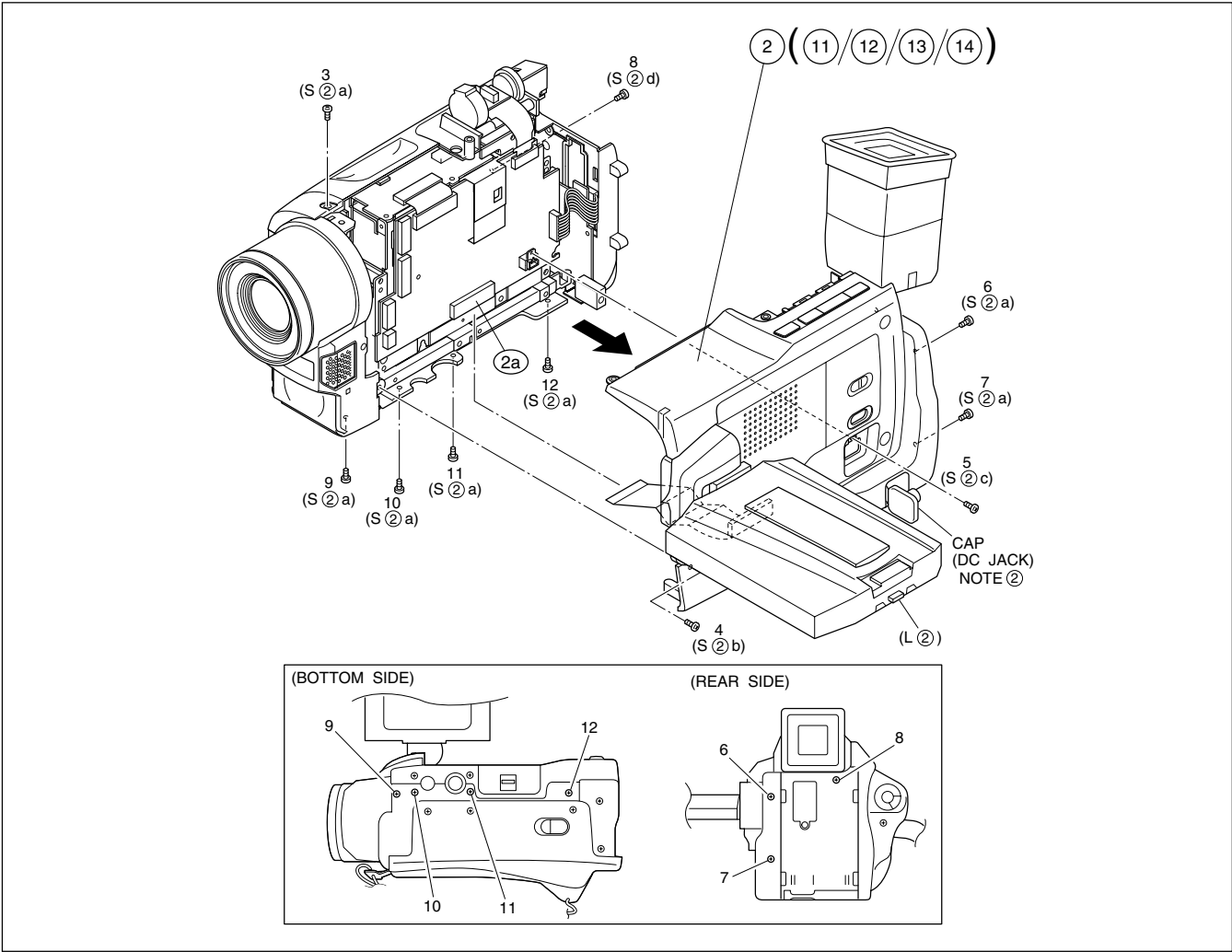


Fig. 1-3-2

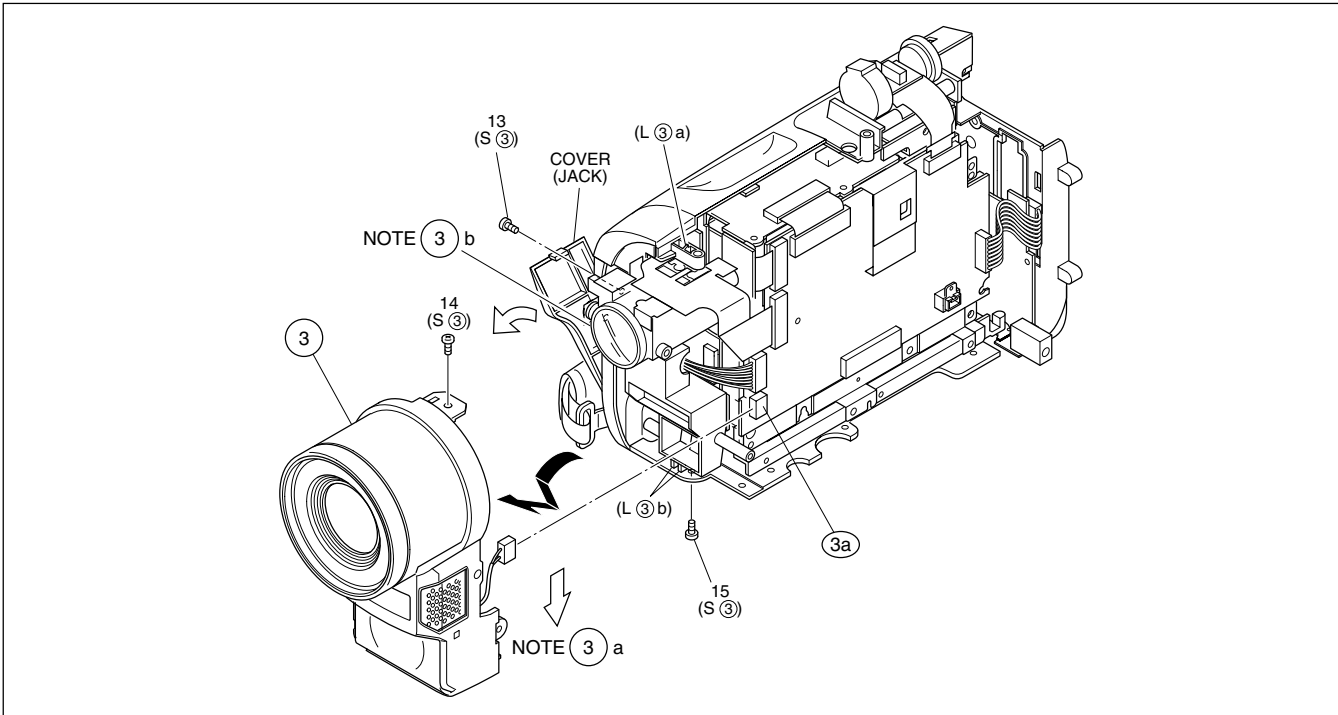


Fig. 1-3-3

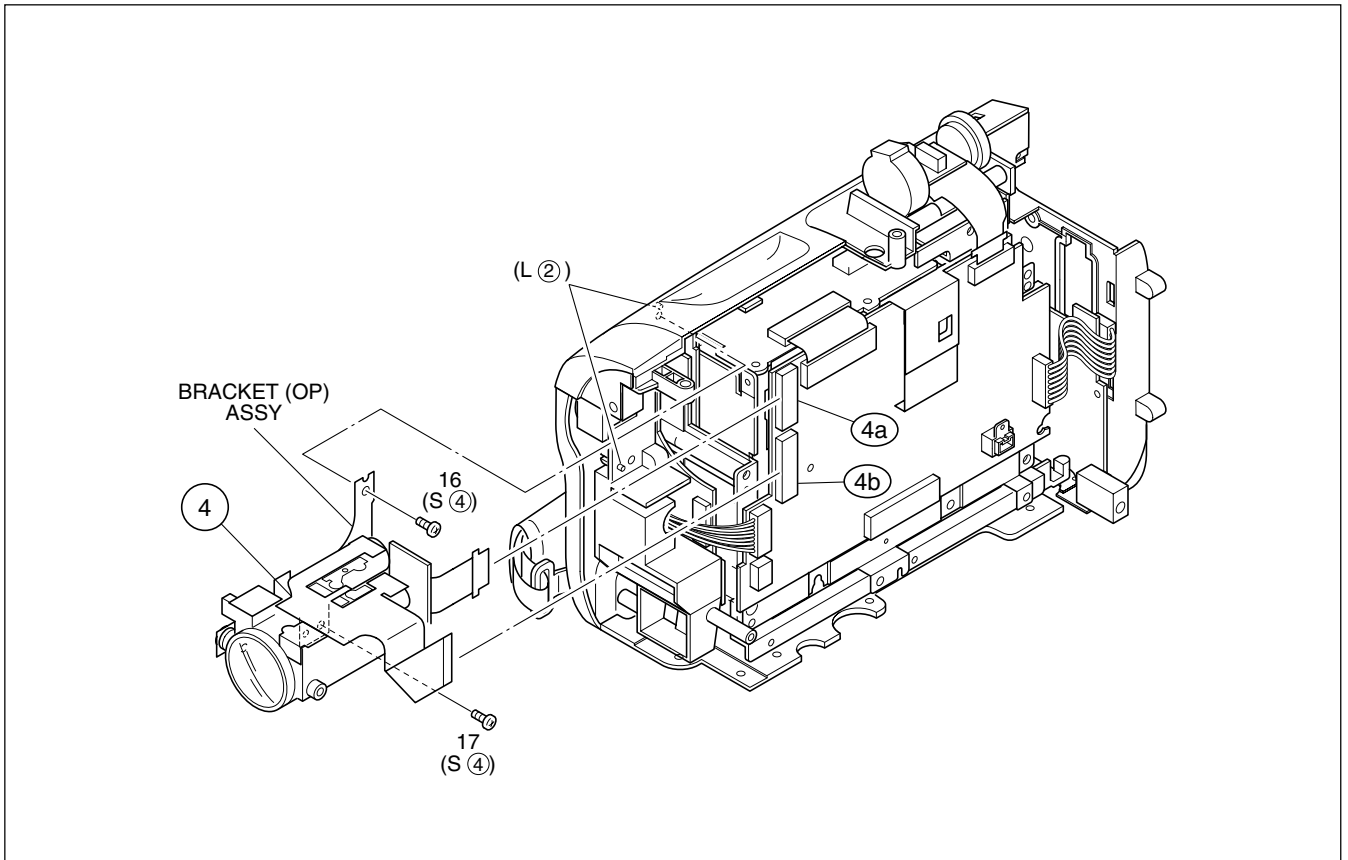


Fig. 1-3-4

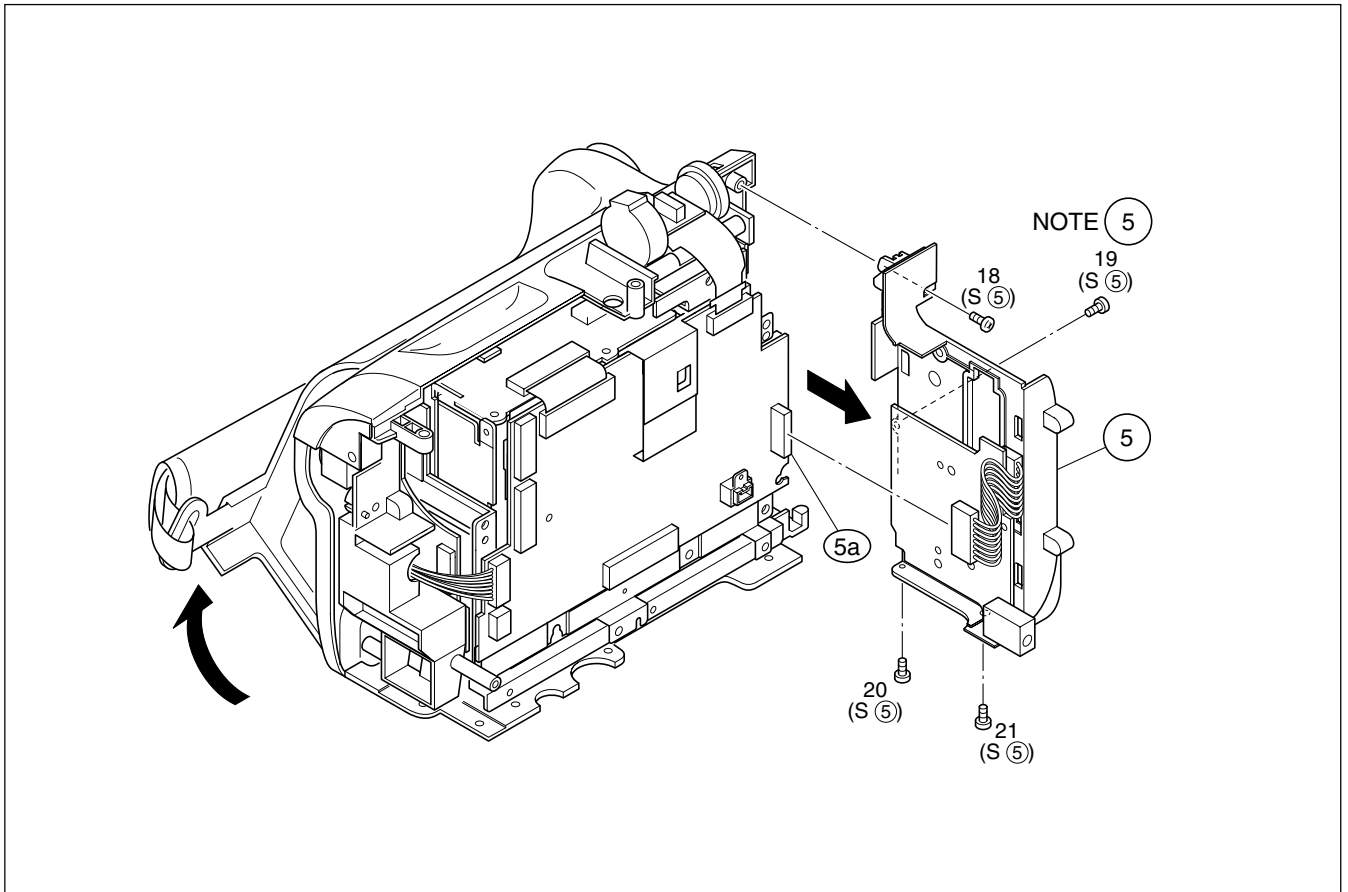


Fig. 1-3-5

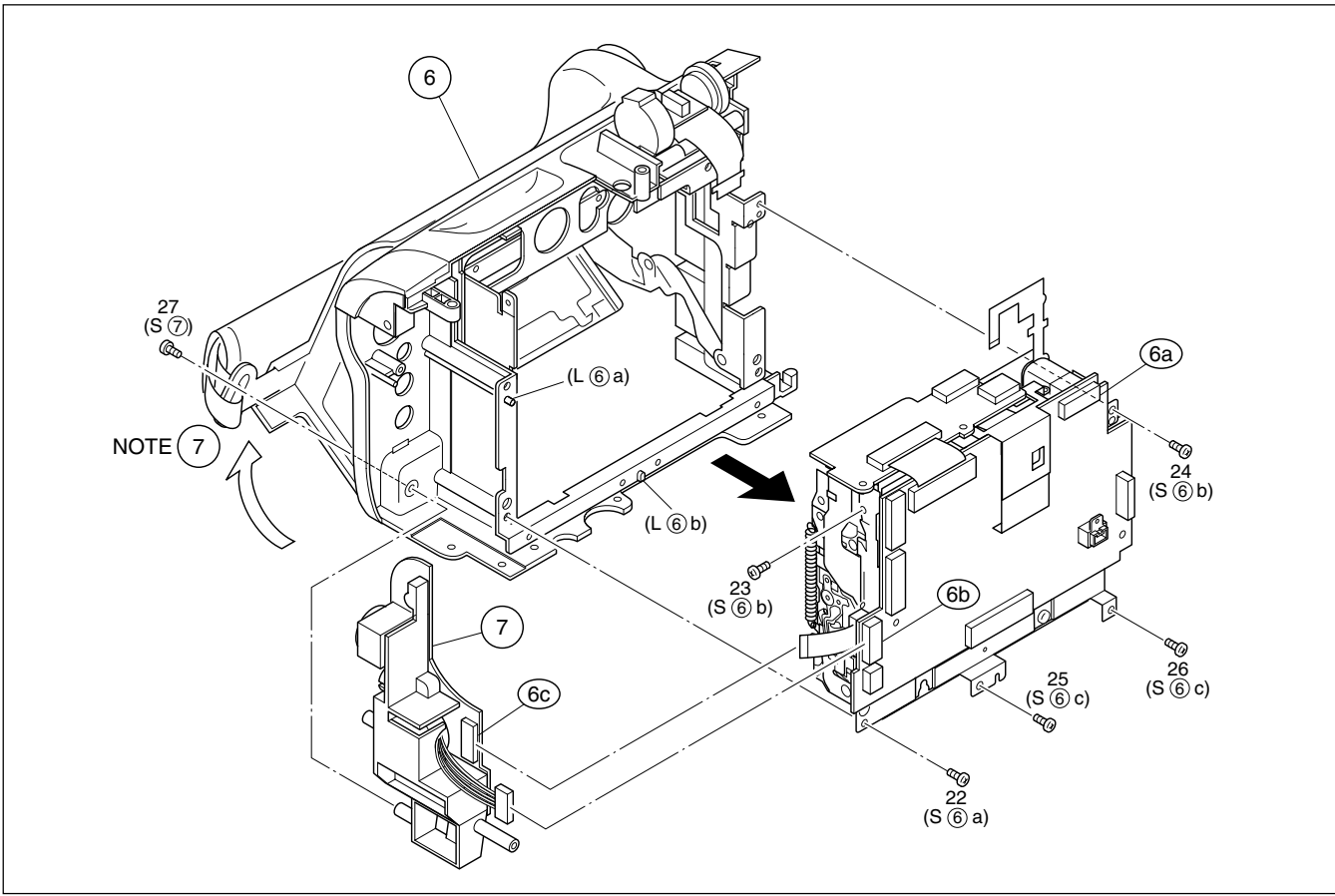


Fig. 1-3-6

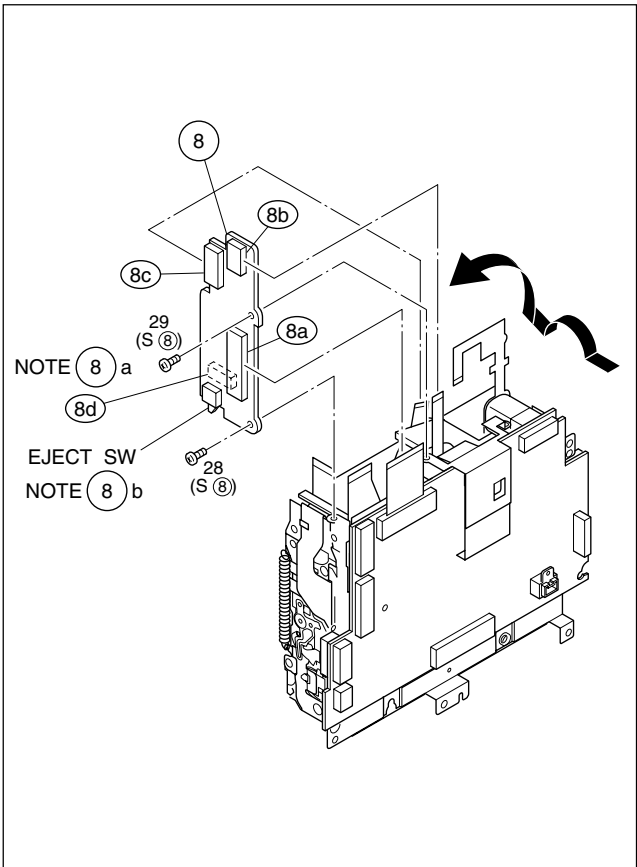


Fig. 1-3-7

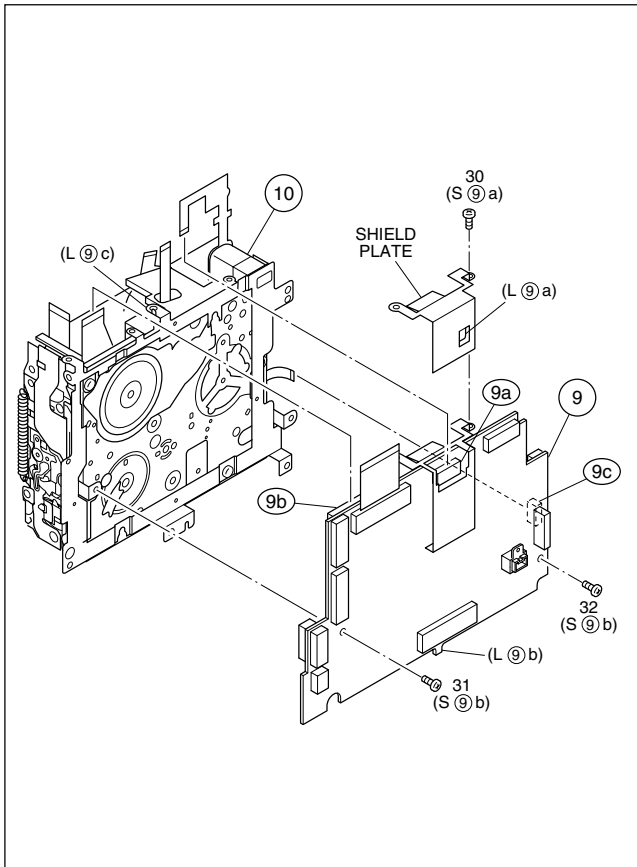


Fig. 1-3-8

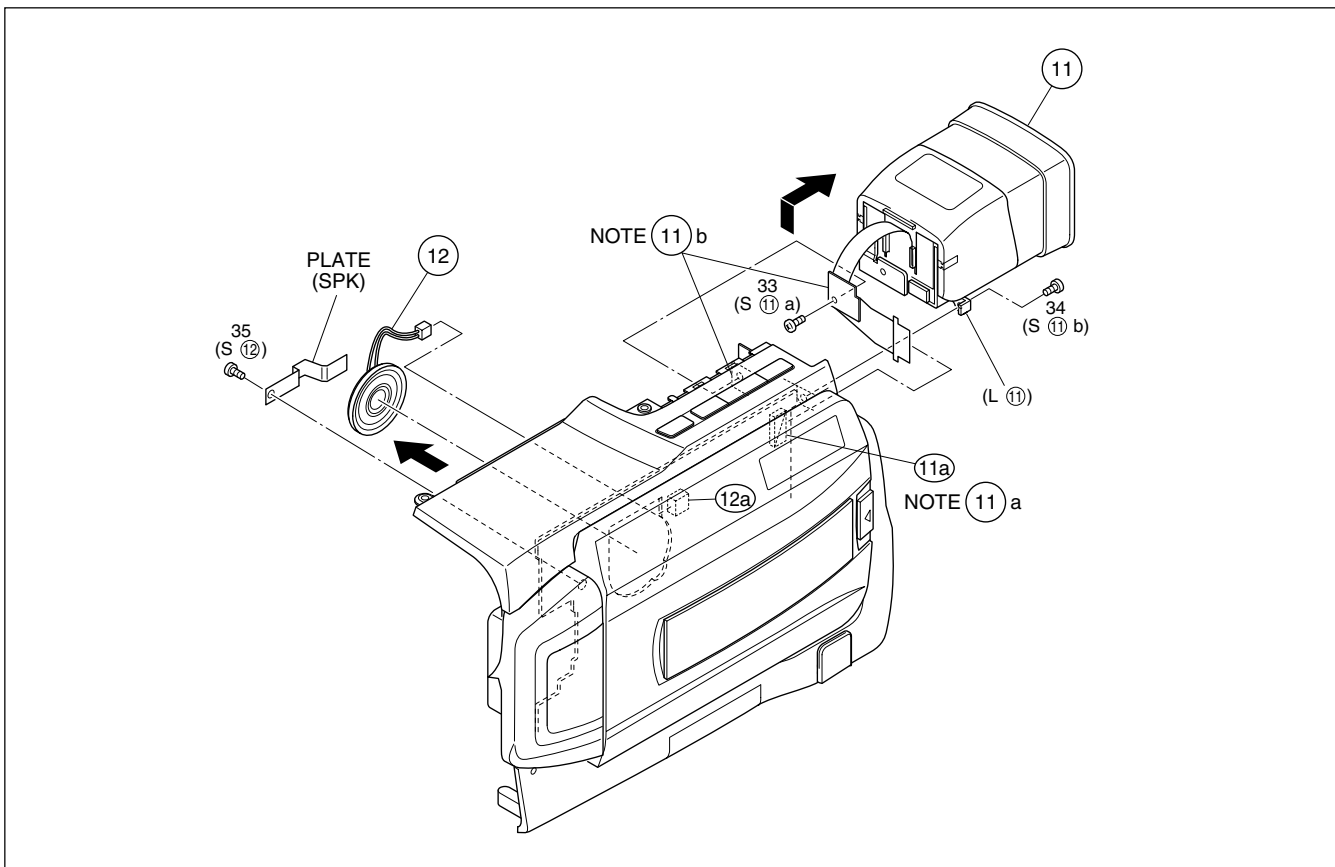


Fig. 1-3-9

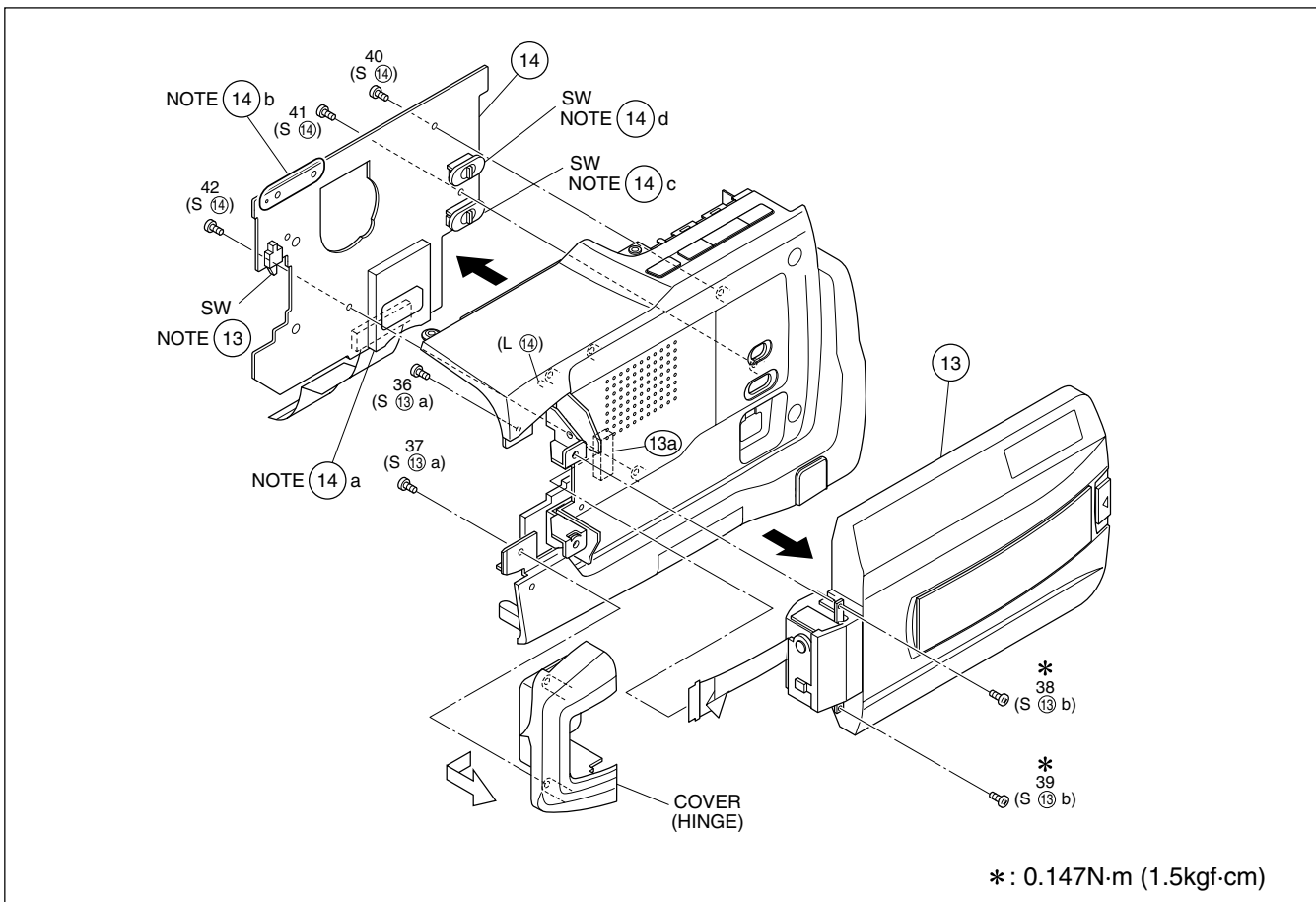


Fig. 1-3-10

## 1.4 ⑬ MONITOR ASSEMBLY

**Note:** The shape of the monitor assembly varies by the size of the LCD screen.

For the 2.5"-type LCD, refer to Fig. 1-4-1.

### 1.4.1 Disassembly/assembly of monitor assembly (for 2.5"-type LCD)

**Note:** Be careful not to soil or scratch the monitor screen through the disassembly/assembly work.

1. Remove the four screws 1 to 4 in numerical order. While disengaging the six hooks (L⑬a to L⑬f) in alphabetical order, remove the monitor cover assembly.
2. Unlock the connector a and then disconnect the FPC while lifting the hinge assembly upwards to remove it together with the FPC.

**Note⑬a:** For disconnecting the FPC, unlock the connector first and then lift the hinge assembly upwards. Accordingly, the FPC is disconnected together with the hinge assembly.

**Note⑬b:** Treat the wires carefully.

3. Unplug the wires and FPCs from the two connectors ⑬, ⑬, and then remove the MONITOR BL board assembly, holder (PWB) and backlight in that order.
4. Remove the LCD module.

### 1.4.2 Disassembly/assembly of hinge assembly (for 2.5"-type LCD)

1. Remove the three screws (5 to 7), and then remove the hinge covers (1) and (2) by disengaging a total of four hooks (L⑬g, L⑬h) at the two sides.
2. Separate the SW board assembly and the FPC from the hinge assembly.

**Note⑬c:** When connecting the FPC, arrange the FPC wire by winding it around the shaft (hinge pin) of the hinge assembly by two and a half turns while paying heed to the orientation of the hinge assembly and FPC.

**Note⑬d:** When disassembling/assembling the hinge assembly, pay careful attention to every part not to damage anything.

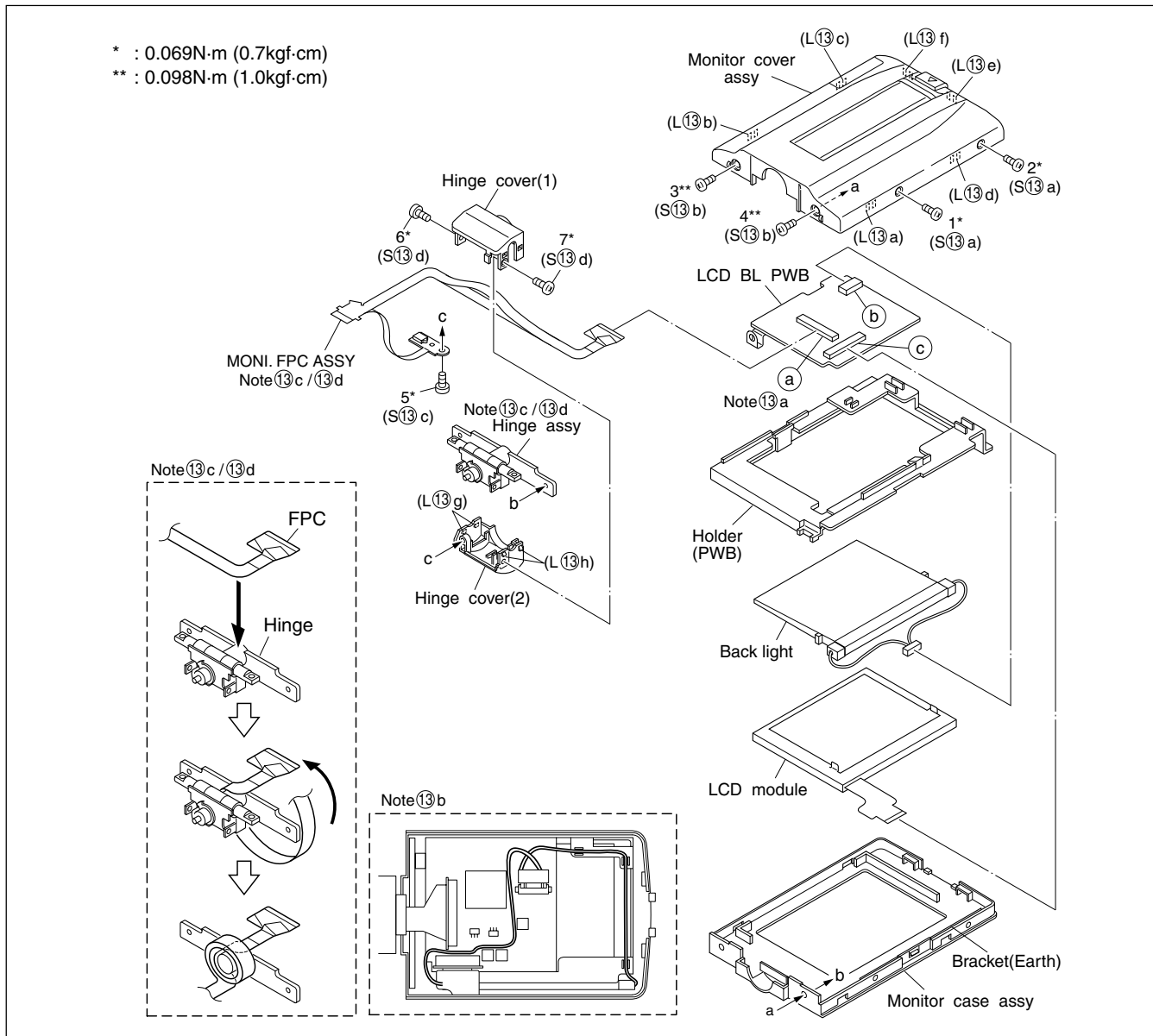


Fig. 1-4-1

**Note:** The shape of the monitor assembly varies depending on the size of the LCD screen.  
For the 3.5"-type LCD, refer to Fig. 1-4-2.

### 1.4.3 Disassembly/assembly of monitor assembly (for 3.5"-type LCD)

**Note:** Be careful not to soil or scratch the monitor screen through the disassembly/assembly work.

1. Remove the four screws 1 to 4 in numerical order. While disengaging the six hooks (L13a to L13f) in alphabetical order, open the monitor cover assembly and remove it after disconnecting the FPC from the connector a..

**Note13e:** When removing the monitor cover assembly, be careful not to damage the FPC and connector.

2. Unlock the connector b and then disconnect the FPC while lifting the hinge assembly upwards to remove it together with the FPC.

**Note13f:** For disconnecting the FPC, unlock the connector first and then lift the hinge assembly upwards. Accordingly, the FPC is disconnected together with the hinge assembly.

**Note13g:** Treat the wires carefully.

3. Unplug the wires and FPCs from the two connectors ①, ②, and then remove the MONITOR BL board assembly, holder (PWB) and backlight in that order.
4. Remove the LCD module.

### 1.4.4 Disassembly/assembly of hinge assembly (for 3.5"-type LCD)

1. Remove the three screws (5 to 7), and then remove the hinge covers (1) and (2) by disengaging a total of four hooks (L13g, L13h) at the two sides.
2. Separate the SW board assembly and the FPC from the hinge assembly.

**Note13h:** When disassembling/assembling the hinge assembly, pay careful attention to every part not to damage anything.

**Note13j:** When connecting the FPC, arrange the FPC wire by winding it around the shaft (hinge pin) of the hinge assembly by two and a half turns while paying heed to the orientation of the hinge assembly and FPC.

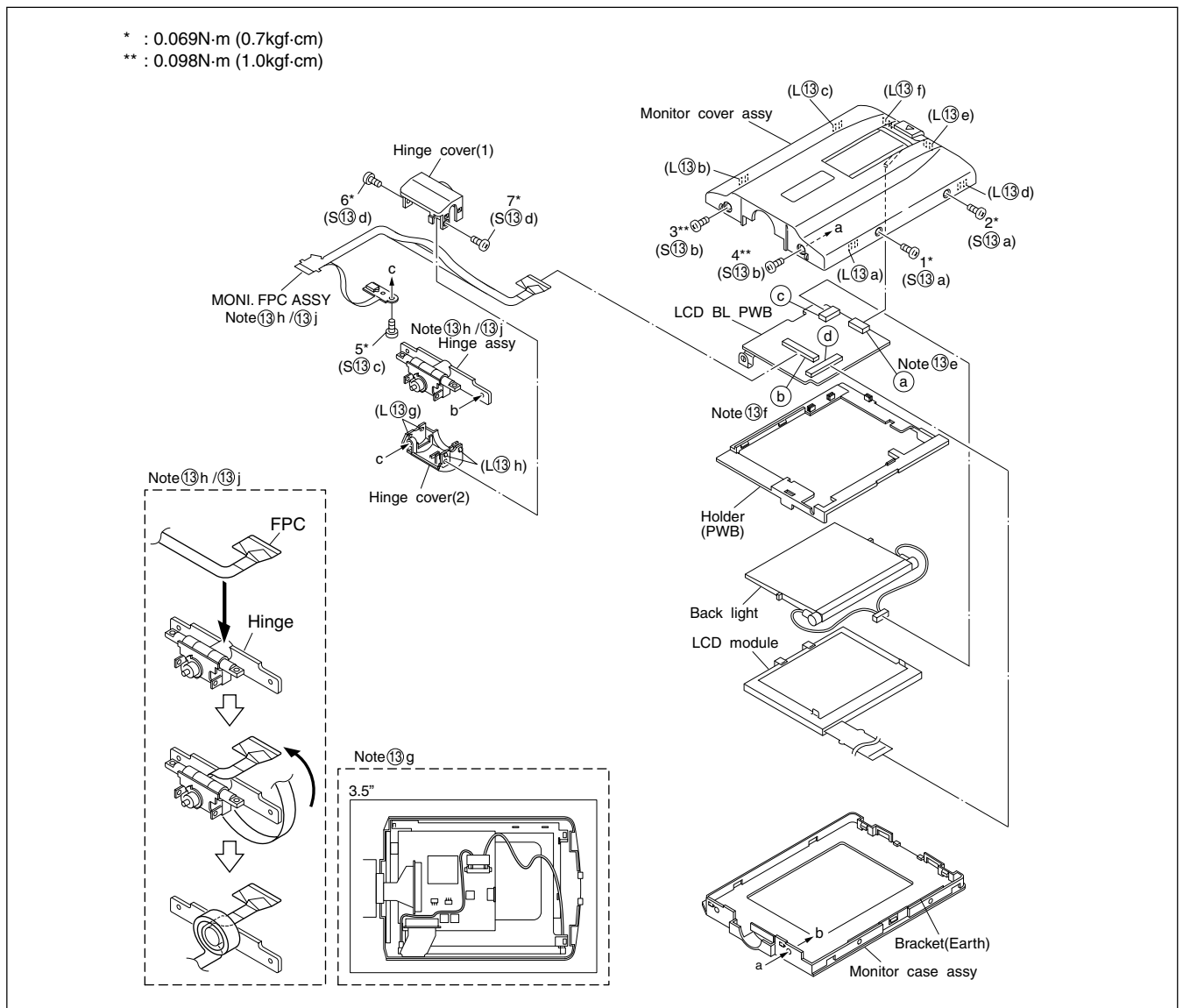


Fig. 1-4-2

## 1.5 ⑪ E. VF ASSEMBLY

**Note:** The shape of the E. VF assembly varies by the type of the viewfinder (B/W, color VF).

(For the B/W VF, refer to Fig. 1-5-1.  
For the COLOR VF, refer to Fig. 1-5-2.)

### 1.5.1 Disassembly/assembly of E. VF assembly (for B/W VF)

1. Remove the two screws (1, 2) and the eyepiece assembly while disengaging the hook (L⑪a).
2. Remove the two screws (3, 4). And spread one side of the top case sub-assembly to disengage the hooks (L⑪b, L⑪c) that are located at both sides of the top case sub-assembly, then remove the top case sub-assembly.

**Note⑪a:** When removing the top case sub-assembly, peel off or unplug the FPC that is bonded to the sub-assembly.

**Note⑪b:** When reassembling the top case sub-assembly, be careful not to catch the FPC between any of the parts.

3. Remove the screw (5) and then remove the LCD assembly.

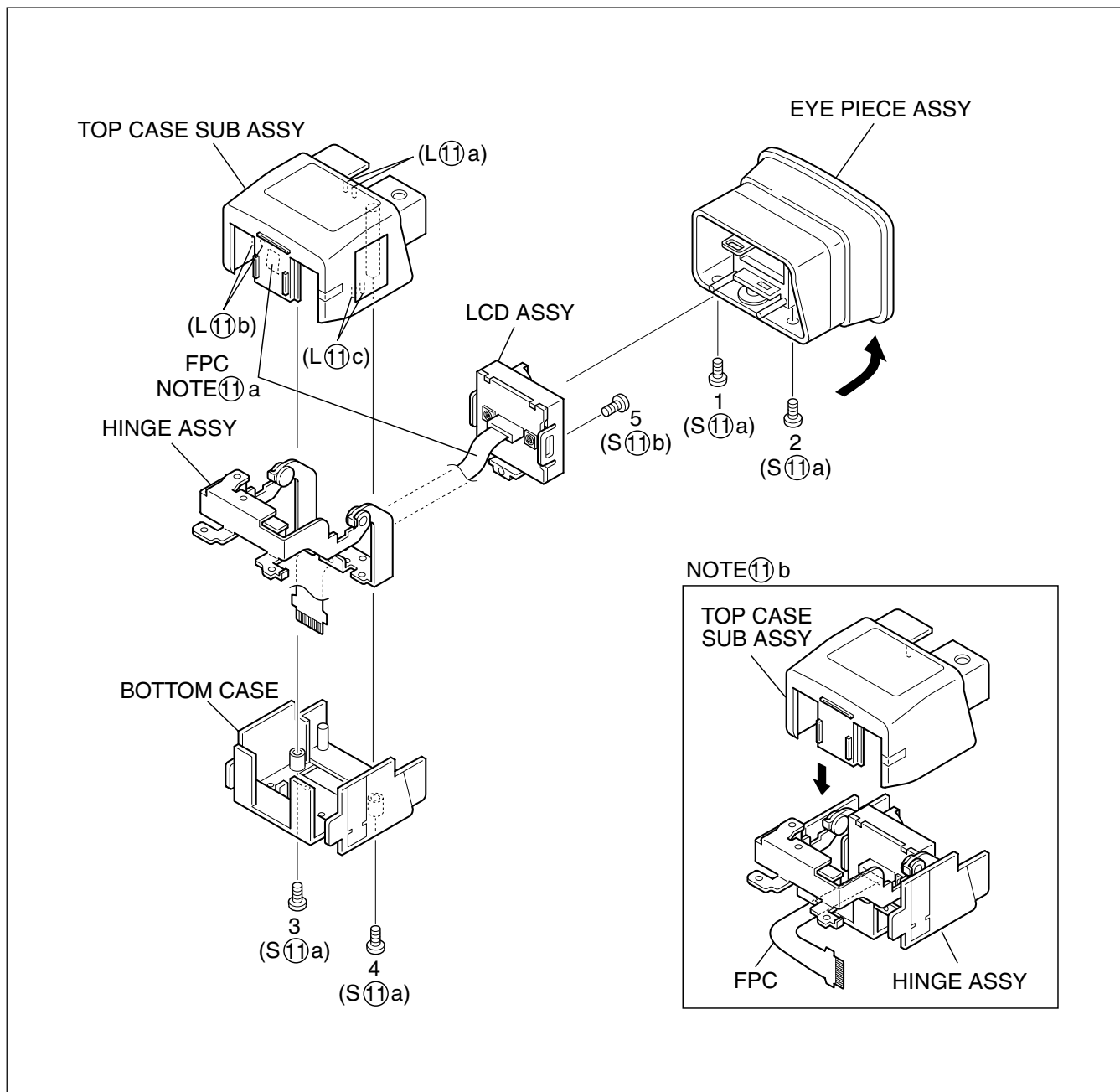


Fig. 1-5-1

**1.5.2 Disassembly/assembly of E. VF assembly  
(for Color VF)**

**Note:** Place the E. VF assembly with the VF case (upper) assembly down through the disassembly/assembly work.

1. Remove the two screws (1, 2) and the eyepiece assembly while disengaging the hook (L11a).
2. Remove the two screws (3, 4). And spread one side of the top case sub-assembly to disengage the hooks (L11b, L11c) that are located at both sides of the top case sub-assembly, then remove the top case sub-assembly.

**Note11c:** When removing the top case sub-assembly, peel off or unplug the FPC that is bonded to the sub-assembly.

**Note11d:** When reassembling the top case sub-assembly, be careful not to catch the FPC between any of the parts.

3. Remove the screw (5) and then remove the LCD assembly.

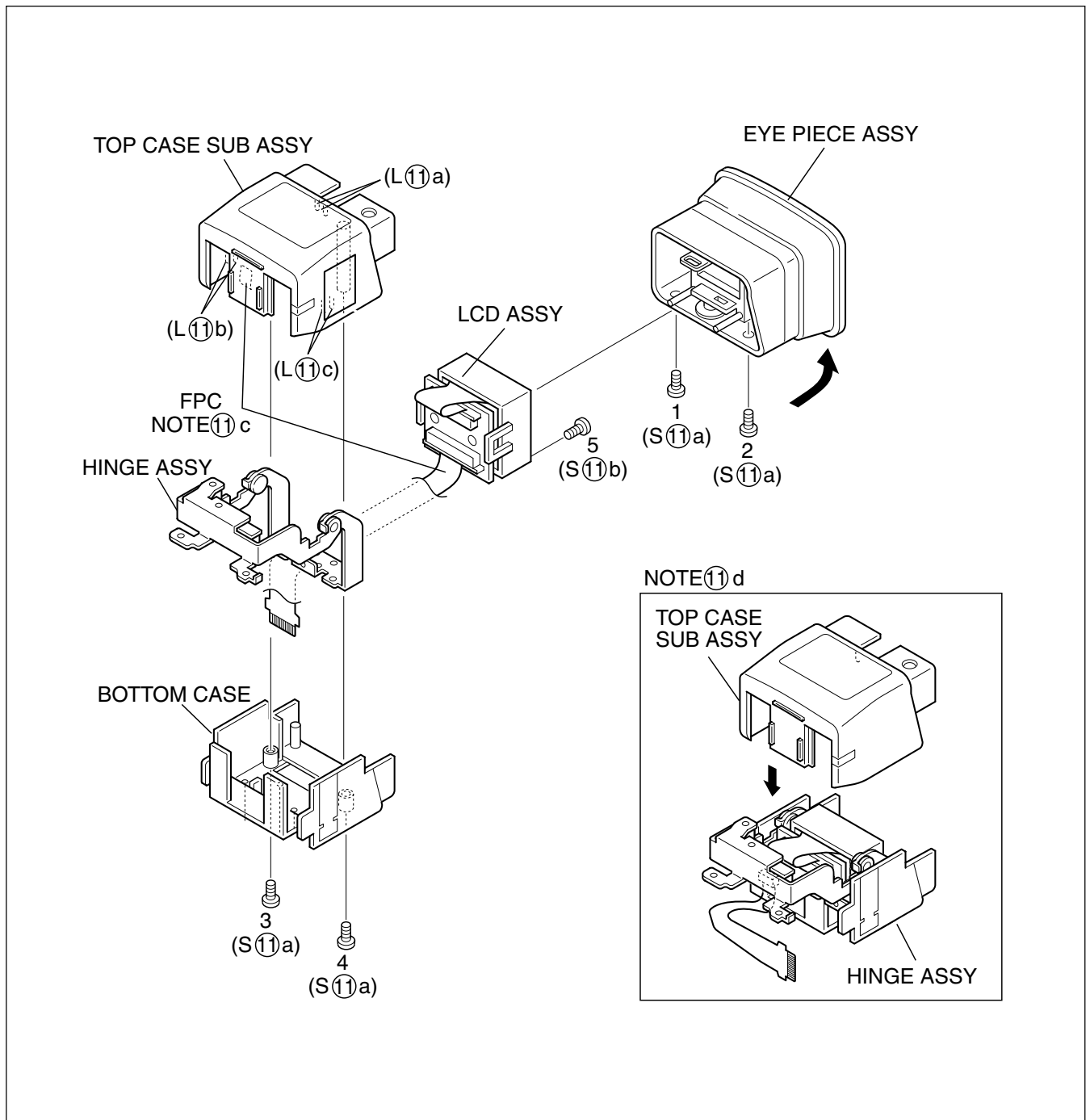


Fig. 1-5-2



## 1.6 DISASSEMBLY/ASSEMBLY OF OP BLOCK ASSEMBLY/CCD BOARD ASSEMBLY

### 1.6.1 Precautions

1. Take care in handling the CCD image sensor, optical LPF and lens components when performing maintenance etc., especially with regard to surface contamination, attached dust or scratching. If fingerprints are present on the surface they should be wiped away using either a silicon paper, clean chamois or the 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 Assembly.
3. The orientation of the optical LPF is an important factor for installation. If there is some marking on the LPF, be sure to note it down before removing and to reassemble it very carefully as it was referring to the marking.

### 1.6.2 How to remove CCD board assembly and CCD base assembly

1. Unsolder the CCD board assembly by the 14 points (SD1) and then remove it.
2. Remove the two screws (1, 2) and remove the CCD base assembly.

**Note ④a:** When removing the CCD base assembly, pay heed to the CCD image sensor because the spacer rubber and optical LPF are occasionally removed together with the CCD image sensor.

**Note ④b:** When replacing the CCD image sensor, don't replace it individually but replace the CCD base assembly in whole with a new one.

### 1.6.3 How to assemble CCD base assembly and CCD board assembly

1. Install the optical LPF with the spacer rubber attached to its CCD side in the OP block assembly.

**Note ④c:** Pay careful attention to the orientation of the LPF.

2. Set the CCD base assembly with careful attention to the spacer rubber not to come off the right position, and fasten them together with the two screws (1, 2).
3. Set the CCD board assembly in the CCD base assembly, and then solder it by the 14 points (SD1).

### 1.6.4 Replacement of Service Repair Parts

The service repair parts for the OP Block Assembly are as listed below.

Before replacement of these parts, remove the bracket (OP assembly) as required.

Take special care not to disconnect any of the FPC wires or cause any damage due to soldering (excessive heating).

1. Focusing motor
2. Zoom motor
3. Iris motor unit

**Note ④d:** When replacing the focusing motor or the zoom motor, solder the FPC at a space of about 1 mm above the terminal pin.

**Note ④e:** The iris motor unit includes the FPC Assembly and two sensors.

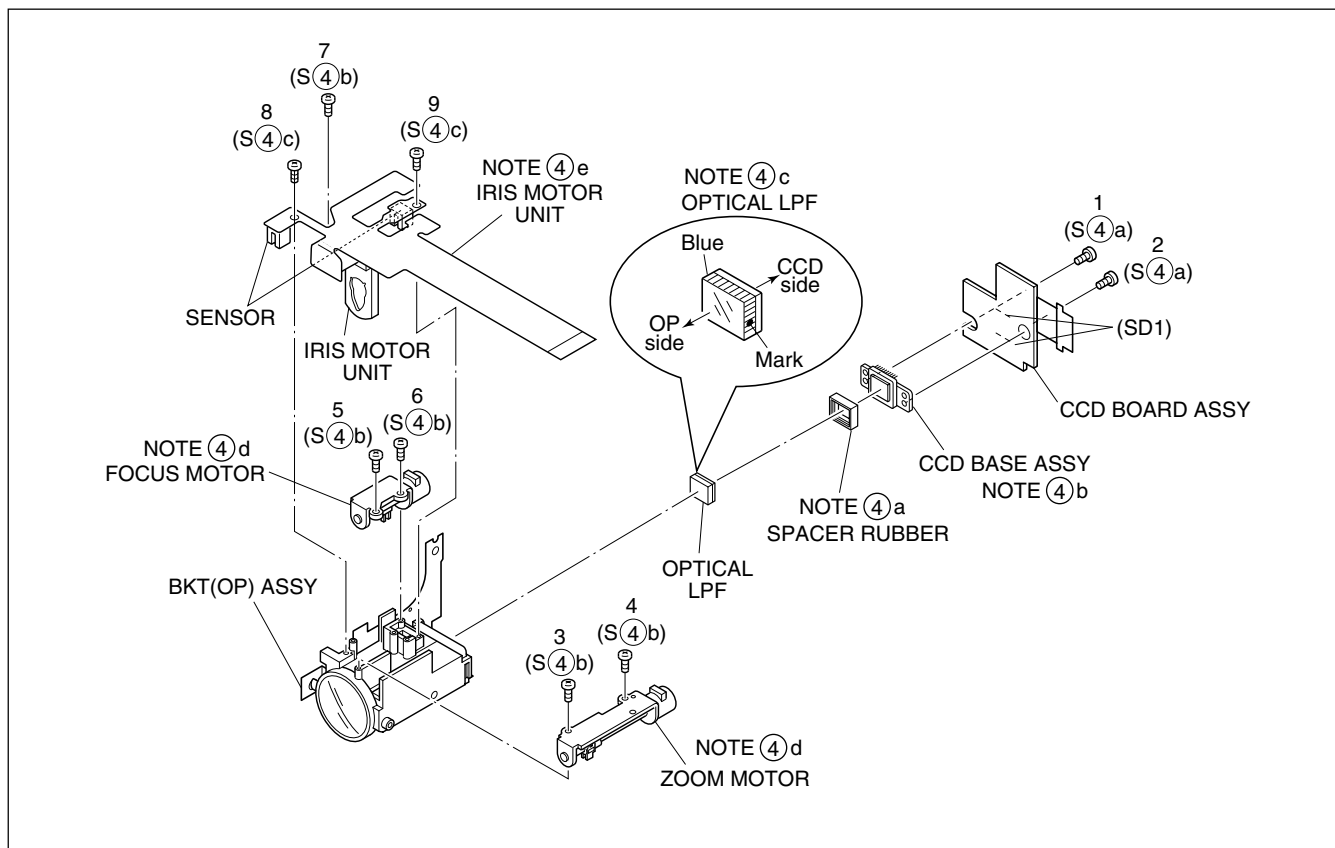


Fig. 1-6-1

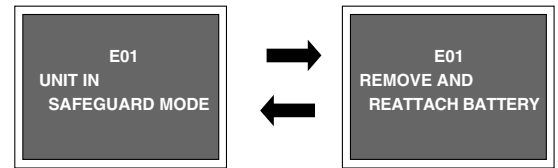
## 1.7 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the electronic view finder).

In every error status, such the message as shown below alternately appear over and over.

- In an emergency mode, all operations except turning on/off the POWER switch are ineffectual.

**Example (in case of the error number E01):**



LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	<ol style="list-style-type: none"> <li>The mechanism is locked during mode shift.</li> <li>The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.</li> <li>No power is supplied to the loading MDA.</li> </ol>
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	<ol style="list-style-type: none"> <li>The mechanism is locked during mode shift.</li> <li>The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.</li> </ol>
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLOW/STILL mode.	<ol style="list-style-type: none"> <li>The idler gear does not engage with the reel disk well.</li> <li>Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism.</li> <li>No FG pulse is output from the reel sensor.</li> <li>No power is supplied to the reel sensor.</li> <li>Tape transport operation takes place with a cassette having no tape inside.</li> <li>The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.</li> </ol>
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	<ol style="list-style-type: none"> <li>The drum cannot be started or drum rotation is stopped because tape transport load is too high.               <ol style="list-style-type: none"> <li>Tape tension is extremely high.</li> <li>The tape is damaged or soiled with grease, etc.</li> </ol> </li> <li>The DRUM FG signal is not received by the syscon CPU.               <ol style="list-style-type: none"> <li>Disconnection in the middle of the signal line.</li> <li>Failure of the DRUM FG pulse generator (hall element).</li> </ol> </li> <li>No drum control voltage is supplied to the MDA.</li> <li>No power is supplied to the DRUM MDA.</li> </ol>
E05	–	–	–
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/REW mode.	<ol style="list-style-type: none"> <li>The CAPSTAN FG signal is not received by the syscon CPU.               <ol style="list-style-type: none"> <li>Disconnection in the middle of the signal line.</li> <li>Failure of the CAPSTAN FG pulse generator (MR element).</li> </ol> </li> <li>No capstan control voltage is supplied to the MDA.</li> <li>No power is supplied to the CAPSTAN MDA.</li> <li>The capstan cannot be started or capstan rotation is stopped because tape transport load is too high.               <ol style="list-style-type: none"> <li>Tape tension is extremely high. (Mechanical locking)</li> <li>The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)</li> </ol> </li> </ol>

(DVC\_03)

Table 1-7-1

1.8 SERVICE NOTE

Symbol No.	② ( ⑪ / ⑫ / ⑬ / ⑭ )														④				⑤							
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					
Place to stick screw	*																									
Reference drawing	Fig. 1-3-2														Fig. 1-3-3				Fig. 1-3-4				Fig. 1-3-5			
Screw tightening torque	I																									

Symbol No.	⑥														⑦				⑧				⑨ / ⑩				⑪				⑫				⑬				⑭			
Removing order of screw	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42																					
Place to stick screw	*																																									
Reference drawing	Fig. 1-3-6														Fig. 1-3-7				Fig. 1-3-8				Fig. 1-3-9				Fig. 1-3-10															
Screw tightening torque	I														I				II				I																			

MONITOR ASSY							
Removing order of screw	1	2	3	4	5	6	7
Place to stick screw							
Reference drawing	Fig. 1-4-1, 2						
Screw tightening torque	III		IV		III		

VF UNIT(B/W,COLOR)						
Removing order of screw	→	1	2	3	4	5
Place to stick screw	→					
Reference drawing	→	Fig. 1-5-1, 2				
Screw tightening torque	→	III				

OP BLOCK ASSY										
Removing order of screw	→	1	2	3	4	5	6	7	8	9
Place to stick screw	→									
Reference drawing	→	Fig. 1-6-1								
Screw tightening torque	→	V								

< NOTE >

- 1) \* : Don't reuse the screw, because screw lock bond was applied to them.
- 2) Pay careful attention to tightening torque for each screw.
  - I : 0.088N·m (0.9kgf·cm)
  - II : 0.147N·m (1.5kgf·cm)
  - III : 0.069N·m (0.7kgf·cm)
  - IV : 0.098N·m (1.0kgf·cm)
  - V : 0.118N·m (1.2kgf·cm)

Table 1-8-1

## SECTION 2 MECHANISM ADJUSTMENT

### 2.1 PRELIMINARY REMARKS ON ADJUSTMENT AND REPAIR

#### 2.1.1 Precautions

1. When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.039 N·m (0.4 kgf·cm).
2. Be sure to disconnect the set from the power supply before fastening and soldering parts.
3. When disconnecting/connecting wires, be careful not to get them and their connectors damaged. (Refer to the Section 1.)
4. When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

#### 2.1.2 Notes on procedure for disassembly/assembly

The disassembling procedure table (Table 2-4-1 on page 2-6, a part of the table is shown below for reference) shows the procedure to disassemble/reassemble mechanism parts.

Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers (circled numbers) in the following explanation correspond to those appearing under respective columns of the table.

- (1) Circled numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.
- (2) This column shows part names corresponding to circled numbers in the left column.

- (3) The symbol (T or B) appearing in this column shows the side which the objective part is mounted on.  
T = the upper side, B = the lower side

- (4) Symbols appearing in this column indicate drawing numbers.

Step Part Name Fig. Point Note Remarks

- (5) This column indicates parts and points such as screws, washers, springs, and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring

W = Washer

S = Screw

\* = Lock (L), soldering (SD), shield, connector (CN), etc.

Example

- Remove ((W1)=Washer W1.
- \*\*Remove the solder at (SD1)=Point SD1.
- \*\*Disconnect (A)=Connector (A).

- (6) Numbers in this column represent the numbers of notes in the text. For example, "1" means "Note 1". (For parts that need phase adjustment after reassembling, refer to "2.6 MECHANISM ADJUSTMENTS".)

- (7) This column indicates required after-disassembling/-reassembling work such as phase adjustment or mechanism adjustment.

NO.	PART NAME	FIG.	POINT	NOTE	REMARKS	
(A)	Cassette housing assembly	T	Fig. 2-4-5	3(S1),(L1a)-(L1d)	1a, 1b, 1c, 1d	Adjustment
(2a)	Reel disk (SUP) assembly	T	Fig. 2-4-6	(W2)	2a, 2b	
(2b)	Reel disk (TU) assembly	T		(W2)	2a, 2b	
(2c)	Reel cover assembly	T		(S2b),2(S2a),(W2)	2d	
(3a)	Tension arm assembly	T	Fig. 2-4-7	(W3a)	3b	
(3b)	Release guide assembly	T		-	3a	
(3c)	Idler arm assembly	T		(W3b)	-	
(3d)	Guide arm assembly	T		-	3a	
(3e)	Pinch roller arm assembly	T		(W3a)	-	
(4a)	Cleaner arm assembly	T	Fig. 2-4-8	(L4a)	4a	
(4b)	Slant pole arm assembly	T		(W4),(L4b),(P4a),(P4b)	4b	
(4c)	Drum assembly	T		3(S4)	-	
(5a)	Guide roller (S) assembly	T	Fig. 2-4-9	(P5)	5a	
(5b)	Rail assembly	T		3(W5a), (W5b)	5b, 5c	

(1)

(2)

(3)

(4)

(5)

(6)

(7)

## 2.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

### 2.2.1 Tools required for adjustments

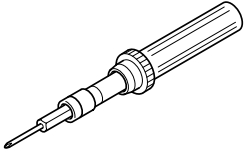
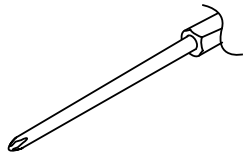
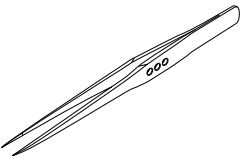
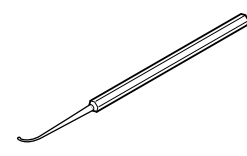
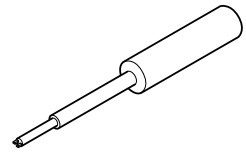
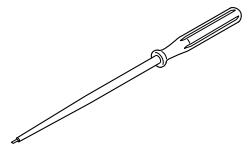
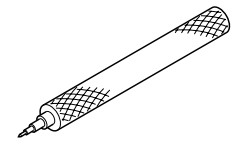
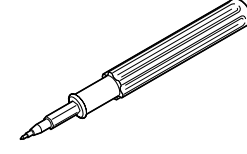
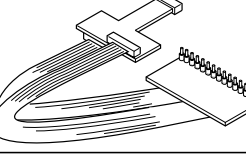
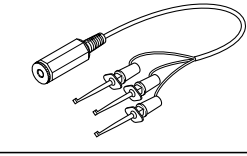
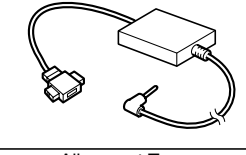
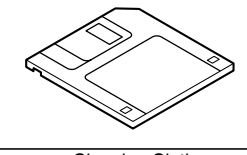
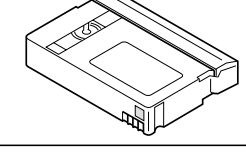
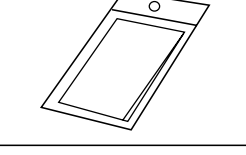
1	Torque Driver YTU94088	2	Bit YTU94088-003
			
3	Tweezers P-895	4	Chip IC Replacement Jig PTS40844-2
			
5	Guide Driver YTU94148A	6	Adjustment Driver YTU94028
			
7	Slit Washer Installation Jig YTU94121A	8	Slit Washer Installation Jig YTU94121B
			
9	Jig Connector cable YTU93082G	10	Communication cable YTU93107A
			
11	PC cable QAM0099-002	12	Service Support System YTU94057-52
			
13	Alignment Tape MC-2	14	Cleaning Cloth KSMM-01
			

Table 2-2-1

#### 1. Torque Driver

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

#### 2. Bit

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

#### 3. Tweezers

To be used for removing and installing parts and wires.

#### 4. Chip IC replacement Jig

To be used for adjustment of the camera system.

#### 5. Guide Driver

To be used to turn the guide roller to adjustment of the linearity of playback envelope.

#### 6. Adjustment Driver

To be used for adjustment.

#### 7. Slit washer Installation Jig

To be used to install slit washers.

#### 8. Slit washer Installation Jig (NEW TYPE)

To be used to install slit washers.

#### 9. Jig Connector cable

Connected to CN105 of the main board and used for electrical adjustment, etc.

#### 10. Communication cable

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

#### 11. PC cable

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

#### 12. Service Support System

To be used for adjustment with a personal computer.

#### 13. Alignment Tape

To be used for check and adjustment of interchangeability of the mechanism.

#### 14. Cleaning Cloth

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

## 2.3 DISASSEMBLY/ASSEMBLY OF MECHANISM

### ASSEMBLY

#### 2.3.1 General statement

The mechanism should generally be disassembled/assembled in the EJECT mode (ASSEMBLY mode). (Refer to Fig. 2-3-1.)

However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the EJECT mode compulsory.

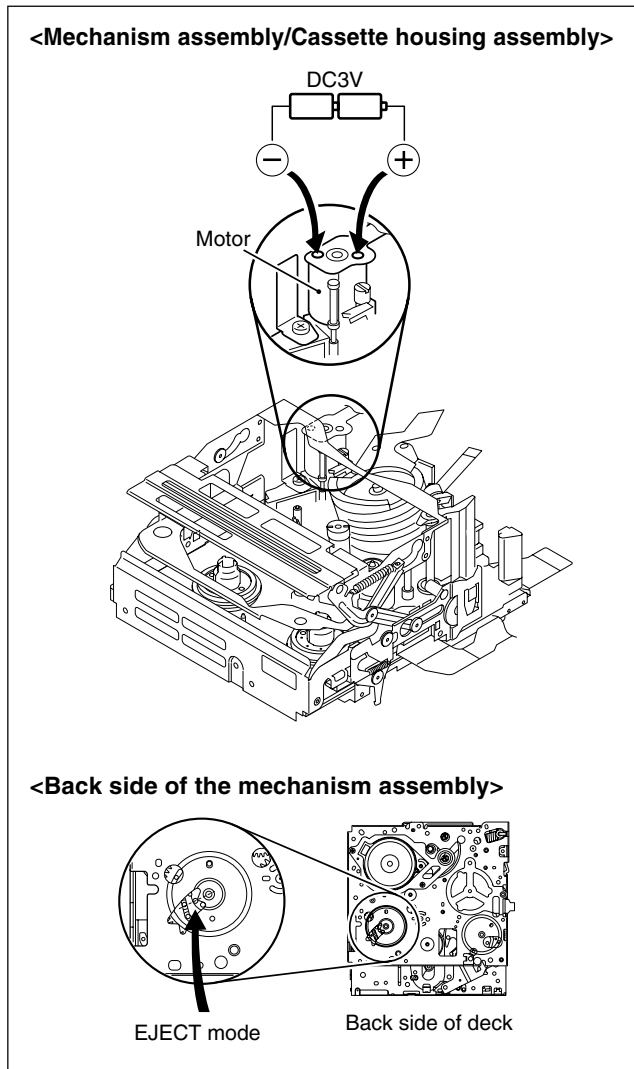


Fig. 2-3-1

#### 2.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into six modes as shown in Table 2-3-1. Each mechanism mode can be distinguished from others by the relative position of "○" mark on the sub cam gear to the inner or outer protrusion on the main deck.

Refer to Fig. 2-3-2 to 2-3-8 below.

The EJECT mode, C IN mode and SHORT FF mode should be recognized by the relative position of the "○" mark to the inner protrusion, while the STOP mode, REV mode and PLAY mode should be recognized by that to the outer protrusion.

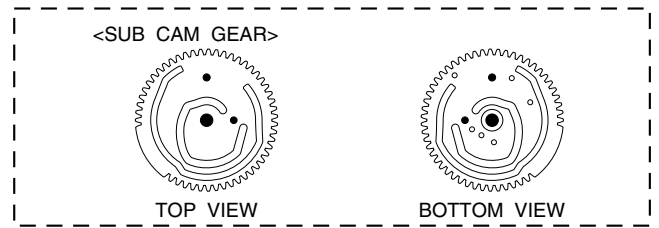


Fig. 2-3-2

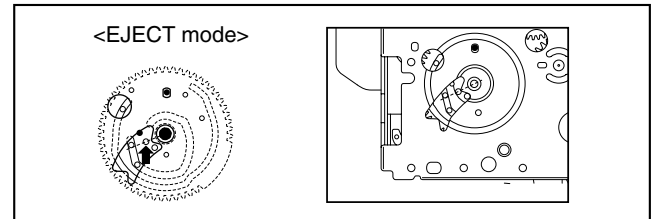


Fig. 2-3-3

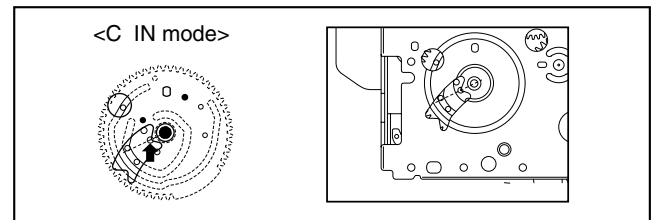


Fig. 2-3-4

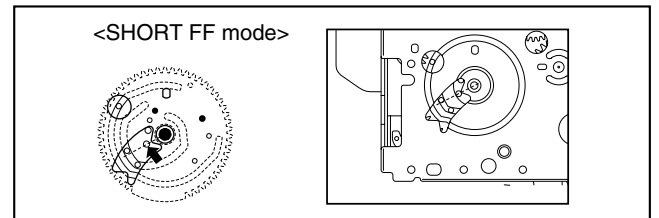


Fig. 2-3-5

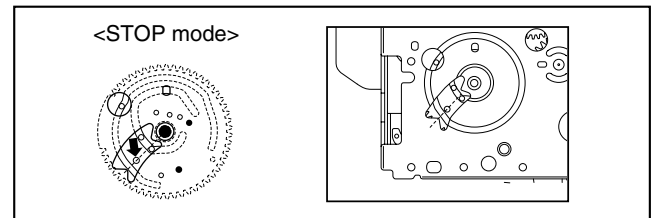


Fig. 2-3-6

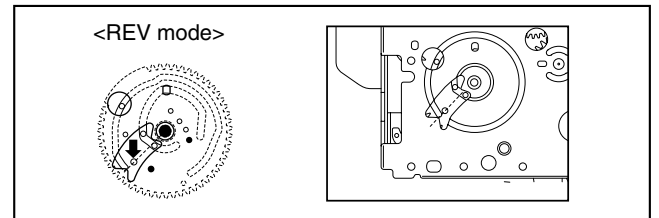


Fig. 2-3-7

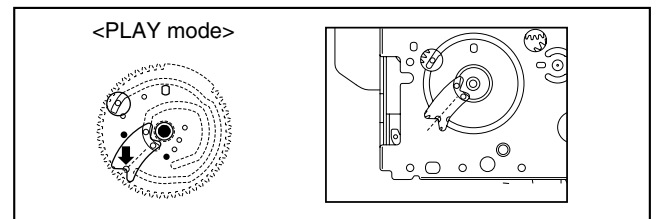


Fig. 2-3-8

### 2.3.3 Mechanism timing chart

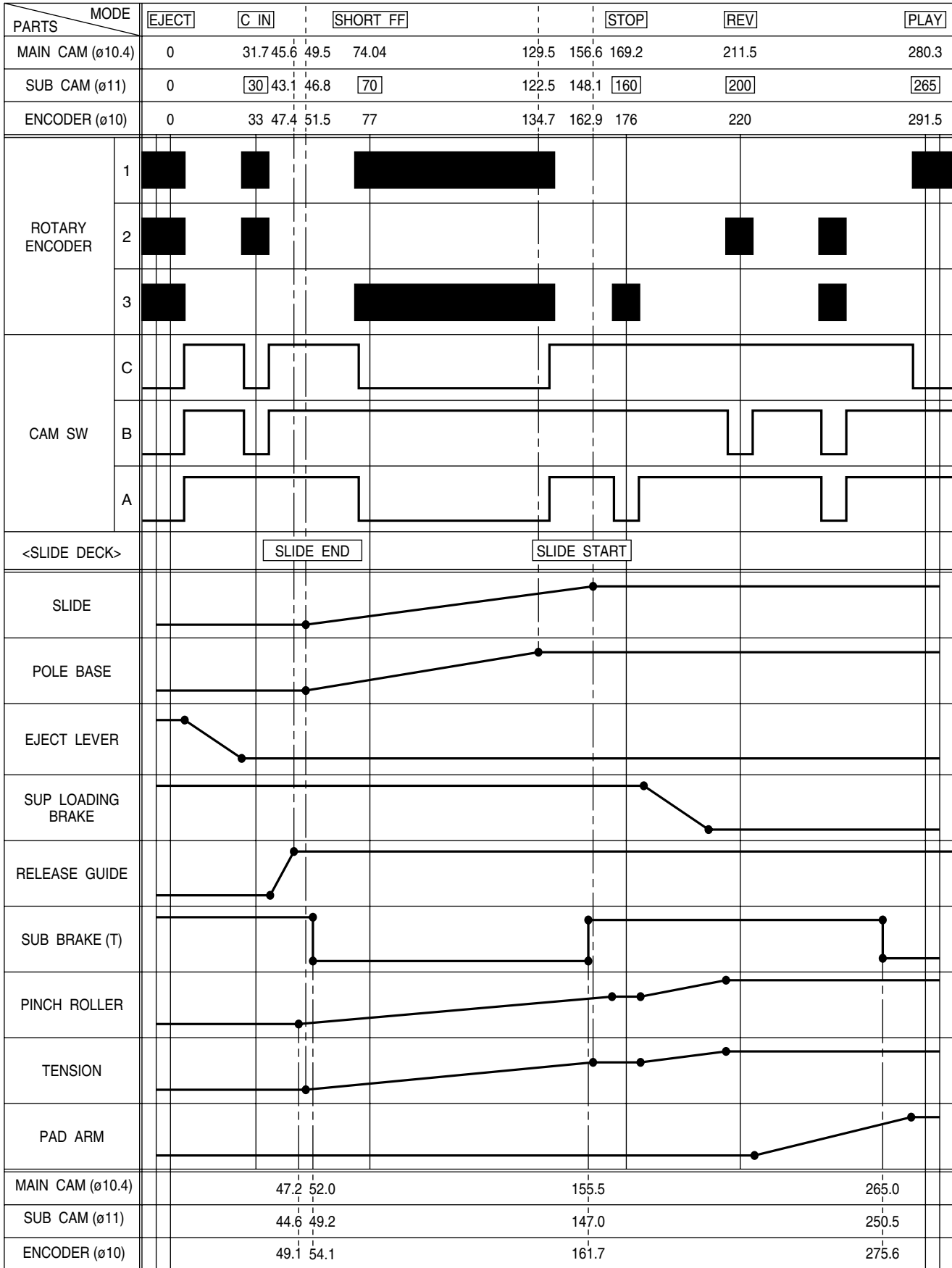


Table 2-3-1

## 2.4 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

### 2.4.1 Follow chart

#### 1. Configuration

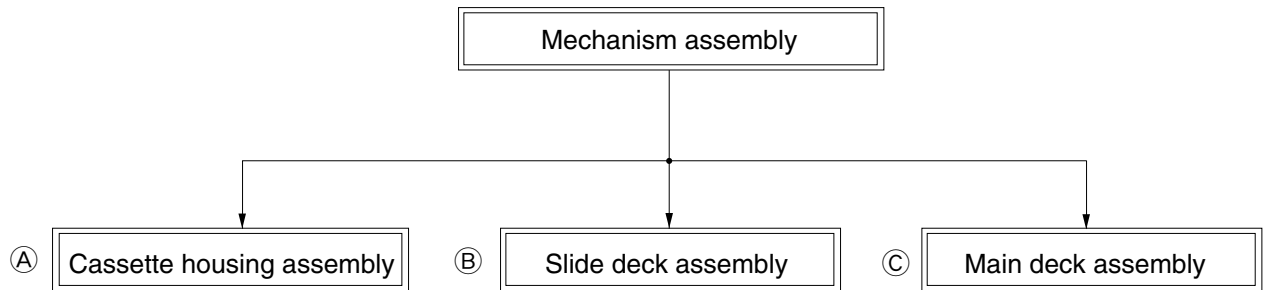


Fig. 2-4-1

#### 2. Procedures for disassembly

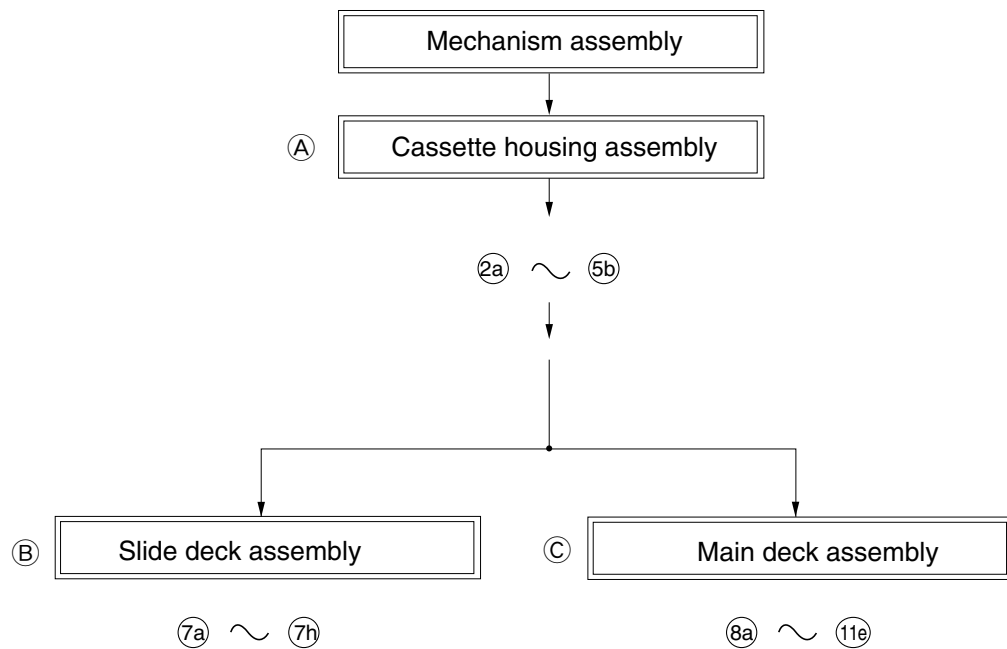


Fig. 2-4-2



### 3. Disassembling procedure table

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
Ⓐ	Cassette housing assembly	T	Fig. 2-4-5	3(S1),(L1a)-(L1d)	1a, 1b, 1c, 1d	Adjustment
②a	Reel disk (SUP) assembly	T	Fig. 2-4-6	(W2)	2a, 2b	
②b	Reel disk (TU) assembly	T		(W2)	2a, 2b	
②c	Reel cover assembly	T		(S2b),2(S2a),(W2)	2d	
③a	Tension arm assembly	T	Fig. 2-4-7	(W3a)	3b	
③b	Release guide assembly	T		-	3a	
③c	Idler arm assembly	T		(W3b)	-	
③d	Guide arm assembly	T		-	3a	
③e	Pinch roller arm assembly	T		(W3a)	-	
④a	Cleaner arm assembly	T	Fig. 2-4-8	(L4a)	4a	
④b	Slant pole arm assembly	T		(W4),(L4b),(P4a),(P4b)	4b	
④c	Drum assembly	T		3(S4)	-	
⑤a	Guide roller (S) assembly	T	Fig. 2-4-9	(P5)	5a	
⑤b	Rail assembly	T		3(W5a), (W5b)	5b, 5c	
Ⓑ	Slide deck assembly / Ⓒ Main deck assembly	T	Fig. 2-4-10	(W6),(L6a)-(L6d)	6a, 6b	(Adjustment)
Ⓑ	Slide deck assembly					
⑦a	Loading brake assembly	T	Fig. 2-4-11	(W7),(L7a),(P7a)	7e	Adjustment
⑦b	Guide pin (SUPPLY)	T		(S7a)	-	
⑦c	Pad arm assembly	T		(W7),(L7b),(P7b)	7d	
⑦d	Slide guide plate assembly	T		(S7b)	7c	Adjustment
⑦e	Collar	T		-	7a	
⑦f	Collar	T		-	7a	
⑦g	Sub brake assembly	T		(W7),(L7c),(P7c)	7b	
⑦h	Control plate assembly	T		2(W7),(L7d),(P7d)	7b	
Ⓒ	Main deck assembly					
⑧a	Tension lever assembly	T	Fig. 2-4-12	-	8c	
⑧b	Slide lever assembly	T		-	8b	
⑧c	Brake control lever assembly	T		-	8a	
⑨a	Loading guide	T	Fig. 2-4-13	(S9)	-	
⑨b	Timing belt	T		-	9b	
⑨c	Center gear assembly	T		-	-	
⑨d	Motor bracket assembly	T		2(S9)	9a	
⑨e	Worm wheel	T		(W9)	-	(Phase adjustment)
⑨f	Gear holder	T		(S9)	-	
⑩a	Main cam gear	T	Fig. 2-4-14	(S10)	10b	Phase adjustment
⑩b	Brake control plate	T		(L10)	10b	Phase adjustment
⑩c	Rotary encoder	T		(S10),(W10a)	10a	Phase adjustment
⑩d	Connect gear	T		(W10a)	-	(Phase adjustment)
⑩e	Reel drive pulley assembly	T		(W10b)	-	
⑪a	Catcher (T) assembly	T	Fig. 2-4-15	2(S11)	-	
⑪b	Capstan motor	T		2(S11)	-	
⑪c	Charge arm assembly	T		(W11)	11	
⑪d	Sub cam gear	T		(S11)	-	Phase adjustment
⑪e	PWB holder	B		2(S11)	-	

Table 2-4-1

< TOP VIEW >

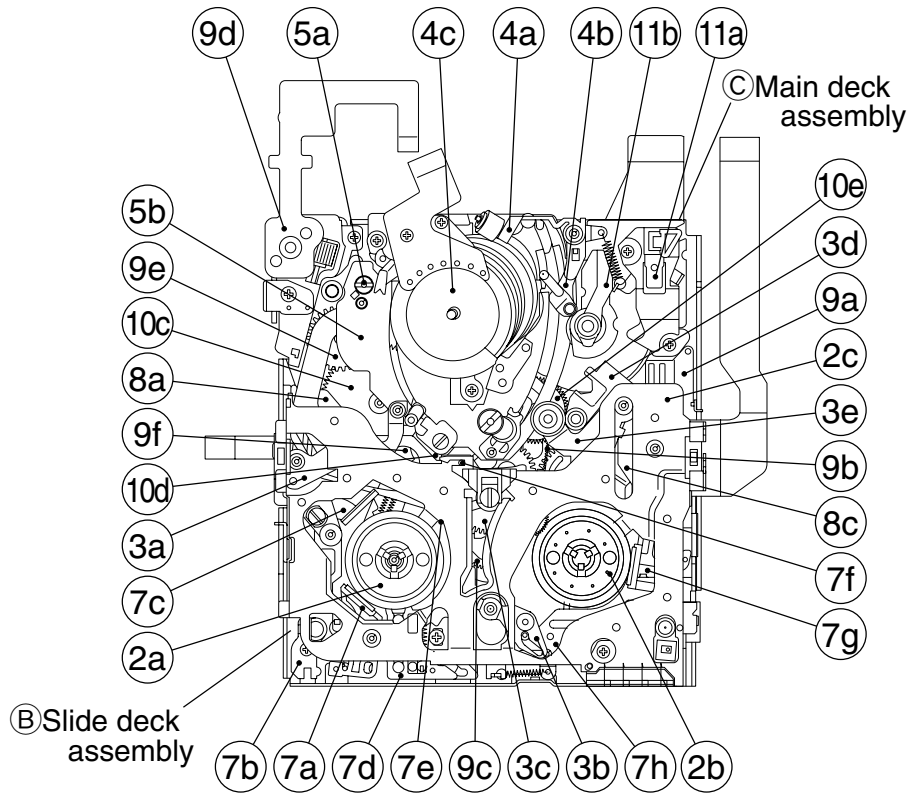


Fig. 2-4-3

< BOTTOM VIEW >

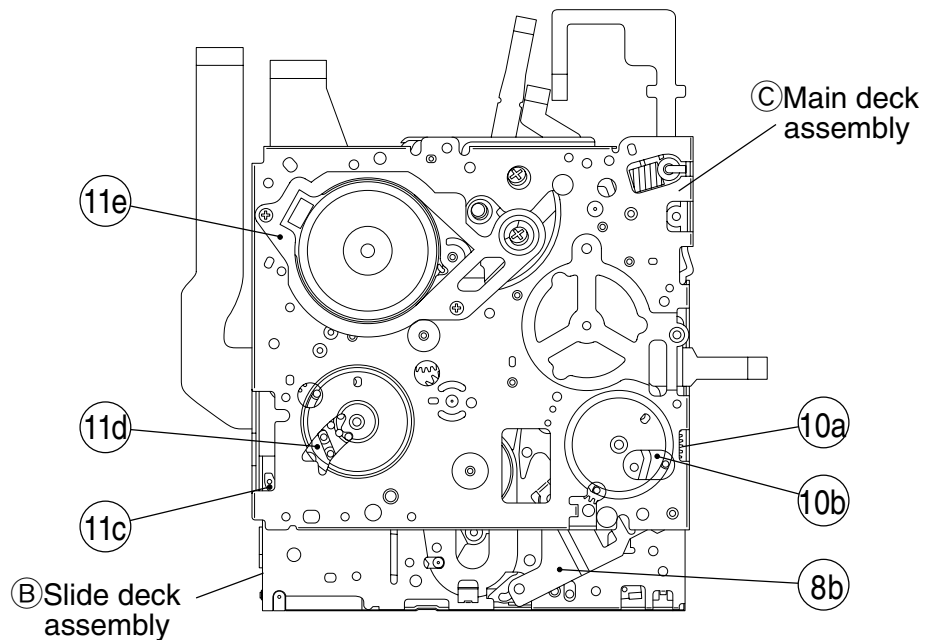


Fig. 2-4-4

## 2.4.2 Disassembly/assembly

### 1. (A) Cassette housing assembly

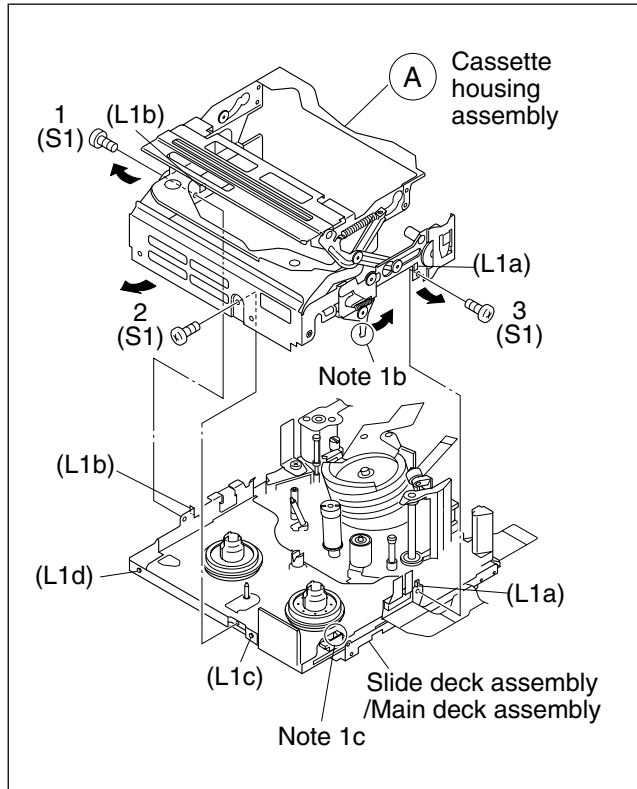


Fig. 2-4-5

### 2. (2a) Reel disk (SUP) assembly

#### (2b) Reel disk (TU) assembly

#### (2c) Reel cover assembly

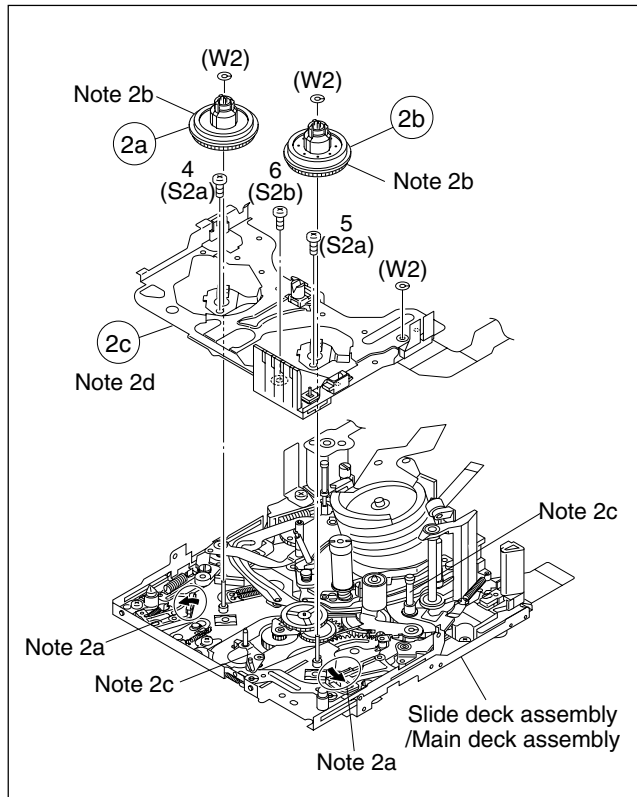
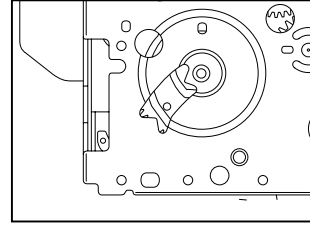
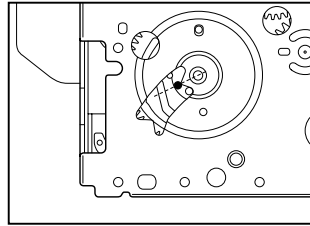


Fig. 2-4-6

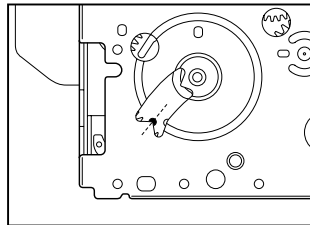
<STOP mode>



<EJECT mode>



<PLAY mode>



#### Note 1a:

Shift the mechanism mode from the STOP mode to the EJECT mode.

#### Note 1b:

Reassemble the cassette housing assembly to the mechanism as the cancel lever is moved in the direction of the arrow.

#### Note 1c:

When reassembling the cassette housing to the mechanism, make sure that there is no deformation in the frame or no damage to the switches, etc.

#### Note 1d:

After reassembling the component parts, check the mechanism operation in the PLAY mode.

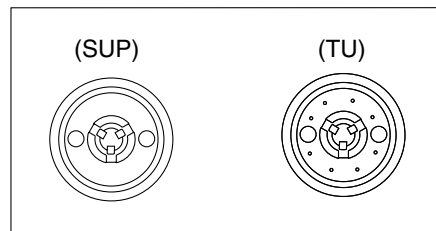
For details of checking method, refer to "2.6.1 assembling slide deck assembly and main deck assembly".

#### Note 2a:

When removing the reel disk assembly, be careful not to break the brake pad which applies lateral pressure to the reel disk.

#### Note 2b:

Be careful not to make a mistake in installing the reel disk. The SUP reel disk and TU reel disk can be distinguished from each other by the appearance as shown below.



#### Note 2c:

When reassembling the cassette housing to the mechanism, make sure that there is no deformation in the frame or no damage to the switches, etc.

#### Note 2d:

When fitting the reel cover assembly to the set, carefully tighten the screw with the specified tightening torque of 0.069N·m (0.7kgf·cm).

3. (3a) Tension arm assembly/ (3b) Release guide assembly  
 (3b) Idler arm assembly/ (3d) Guide arm assembly  
 (3c) Pinch roller arm assembly

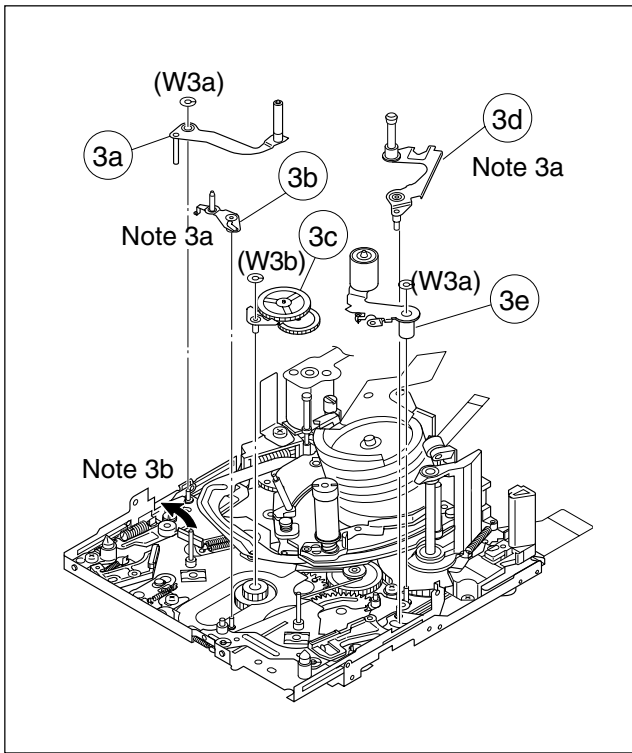


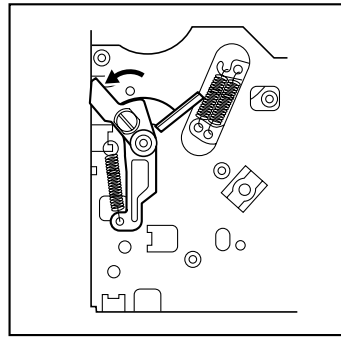
Fig. 2-4-7

**Note 3a:**

When removing the reel cover assembly, pay heed to release guide assembly and tension arm assembly. For, the guide arm assembly is just inserted into the slide deck assembly from the upside and it is apt to come off after the reel cover assembly is removed.

**Note 3b:**

Reassemble the tension arm assembly to the mechanism as the pad arm assembly is moved to the extent in the direction of the arrow.



4. (4a) Cleaner arm assembly/ (4b) Slant pole arm assembly  
 (4b) Drum assembly

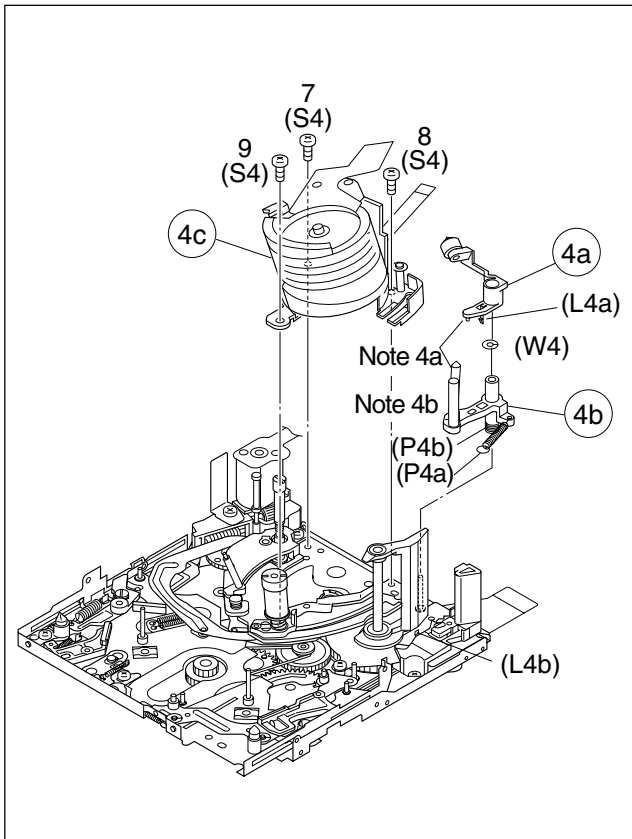


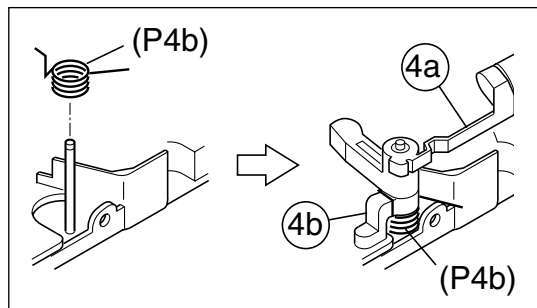
Fig. 2-4-8

**Note 4a:**

When removing the cleaner arm assembly, it is recommended to remove the slant pole arm assembly together with it except the case of a single unit replacement, because the hook (L4a) is hard to disengage.

**Note 4b:**

How to set the coil spring (P4b).



5. ⑤a Guide roller (SUPPLY) assembly/ ⑤b Rail assembly

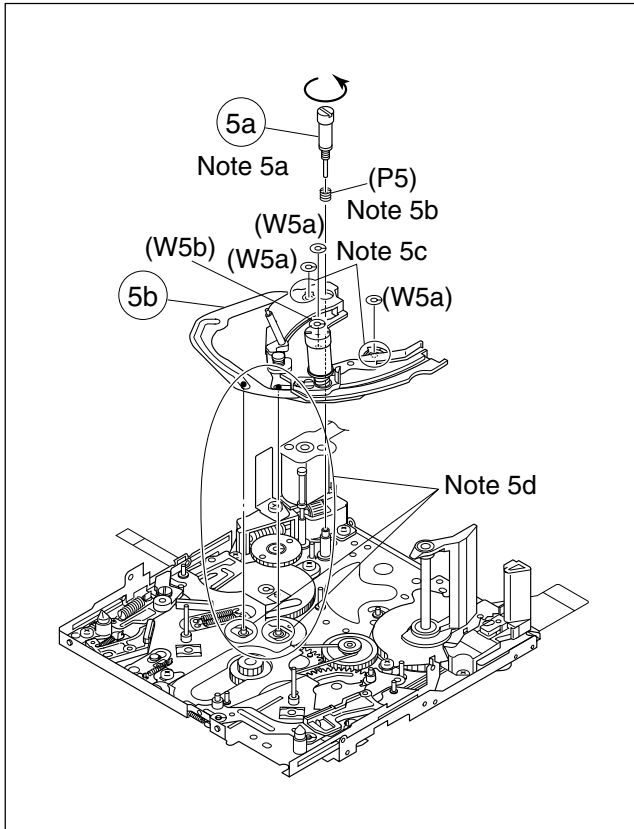
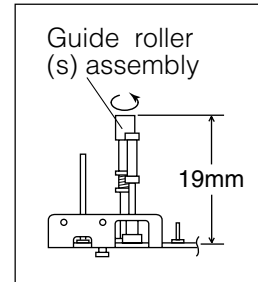


Fig. 2-4-9

**Note 5a:**

When reassembling, insert the tip of the guide roller with the coil spring put on it into the hole on the main deck. Tighten the guide roller by about 6 turns so that the height of the guide roller assembly is 19 mm or so as shown in the figure.



**Note 5b:**

Pay careful attention to the spring not to lose it.

**Note 5c:**

Pay careful attention to the engagement of the rail assembly's arm ends because they easily come off the engagement. Moreover, make sure that there is neither deformation nor damage observed in them.

**Note 5d:**

When removing the rail assembly, check to see if the collar is securely set in the arm groove.

6. ⑥ Slide deck assembly/ ⑥ Main deck assembly

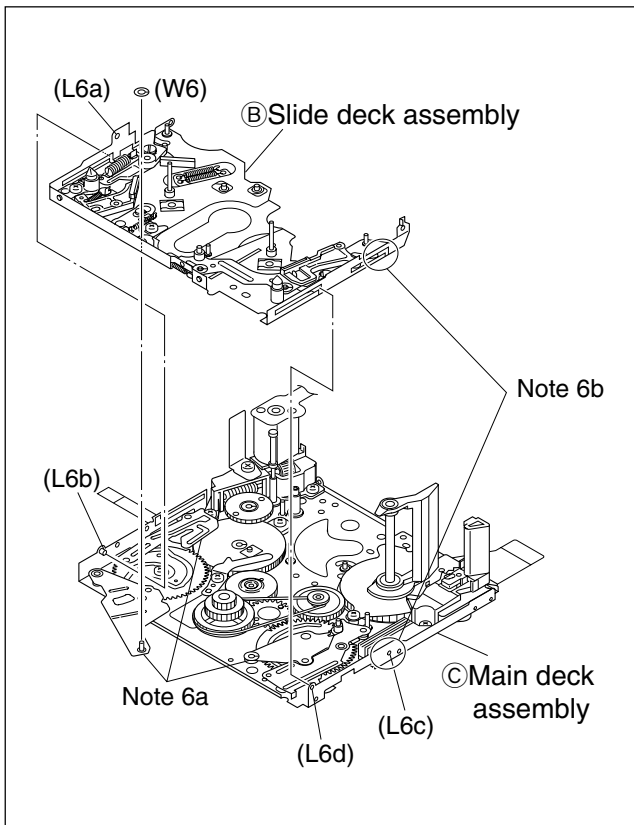


Fig. 2-4-10

**Note 6a:**

When removing the slide deck assembly, pay heed to the three components of the following because they are apt to come off after the slide deck assembly is removed.

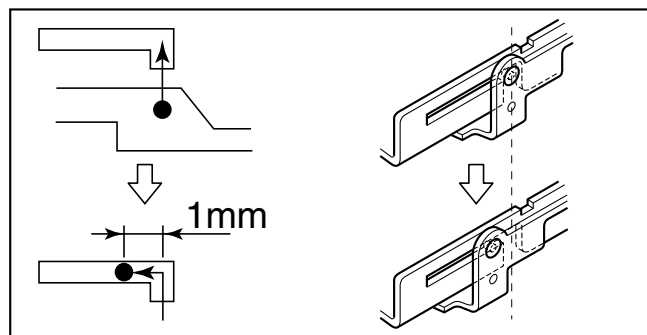
⑧a Tension lever assembly/ ⑧b Slide lever assembly

⑧c Brake control lever assembly

For reassembling those components, refer to Fig. 2-4-12.

**Note 6b:**

When reassembling the slide deck assembly to the main deck assembly, combine them with each other by the side grooves and then slide the slide deck assembly by 1 mm or so.



7. (7a) Loading brake assembly/ (7b) Guide pin (S)  
 (7c) Pad arm assembly/ (7d) Slide guide plate assembly  
 (7e) Collar/ (7f) Collar/ (7g) Sub brake assembly  
 (7h) Control plate assembly

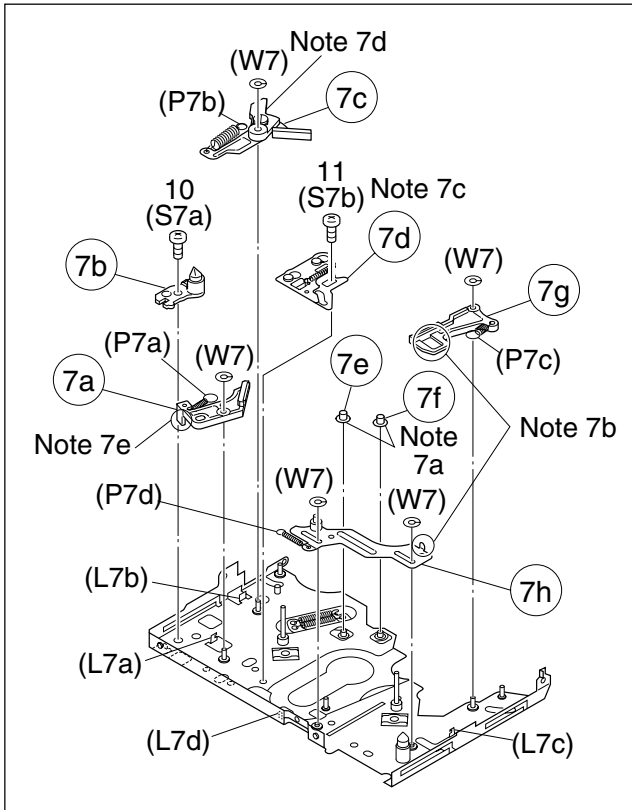


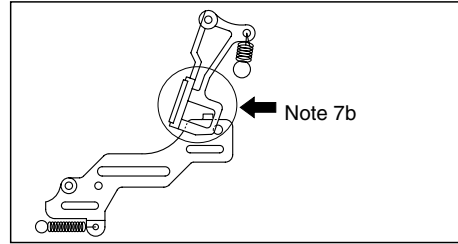
Fig. 2-4-11

**Note 7a:**

Don't remove these parts unreasonably. If they are removed for some reason, be very careful not to lose them.

**Note 7b:**

When reinstalling the sub brake assembly, set the control plate assembly so that its hook is set in the □ part of the sub brake assembly.



**Note 7c:**

Since the slide guide plate assembly controls the slide deck assembly so that it exactly slides the main deck assembly, it must exactly be assembled in the PLAY mode. Therefore, temporarily fix the slide guide plate assembly in this stage. For details of reassembling procedure, refer to "2.6.1 Assembling slide deck assembly and main deck assembly".

**Note 7d:**

The pad arm assembly controls the tension level of the tension arm assembly. For adjustment of the tension arm assembly, refer to "2.6.2 Locating tension pole".

**Note 7e:**

When reinstalling the load brake assembly, slightly lift the slide deck assembly upwards because the lower part of the load brake assembly sticks out of the slide deck assembly.

8. (8a) Tension lever assembly/ (8b) Slide lever assembly  
 (8c) Brake control lever assembly

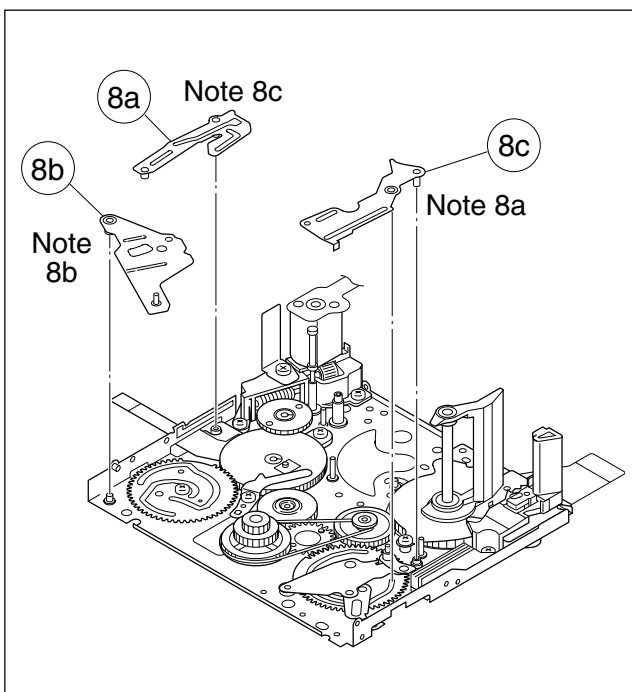
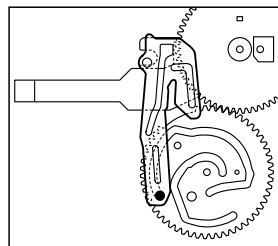


Fig. 2-4-12

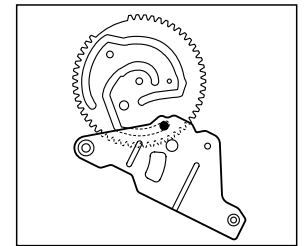
**Note 8a, 8b, 8c:**

For refitting the respective parts, refer to the following figures

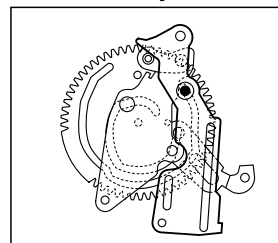
(8a) Tension lever assembly



(8b) Slide lever assembly



(8c) Brake control lever assembly



9. 9a Loading guide/ 9b Timing belt  
 9c Center gear assembly/ 9d Motor bracket assembly  
 9e Worm wheel/ 9f Gear holder

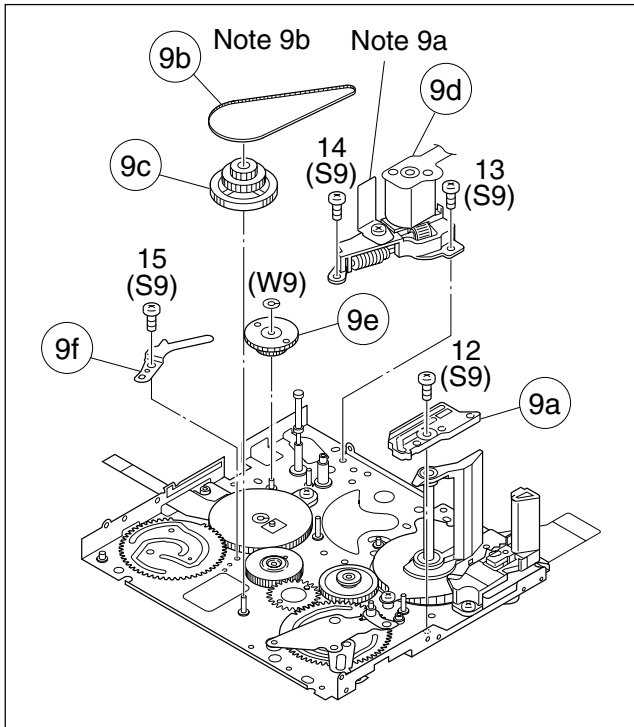


Fig. 2-4-13

**Note 9a:**

Carefully handle the DEW sensor. (Don't touch the sensor surface in particular.)

**Note 9b:**

When engaging the timing belt, make sure that it securely engages with the gears of both the center gear assembly and reel drive pulley assembly.

10. 10a Main cam gear/ 10b Brake control plate  
 10c Rotary encoder/ 10d Connect gear  
 10e Reel drive pulley assembly

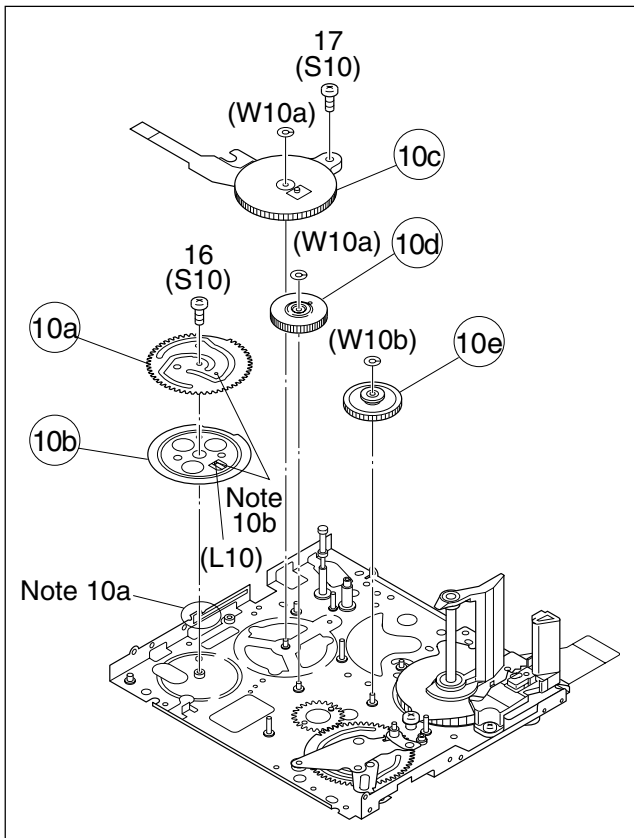


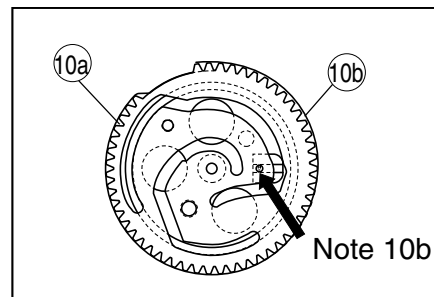
Fig. 2-4-14

**Note 10a:**

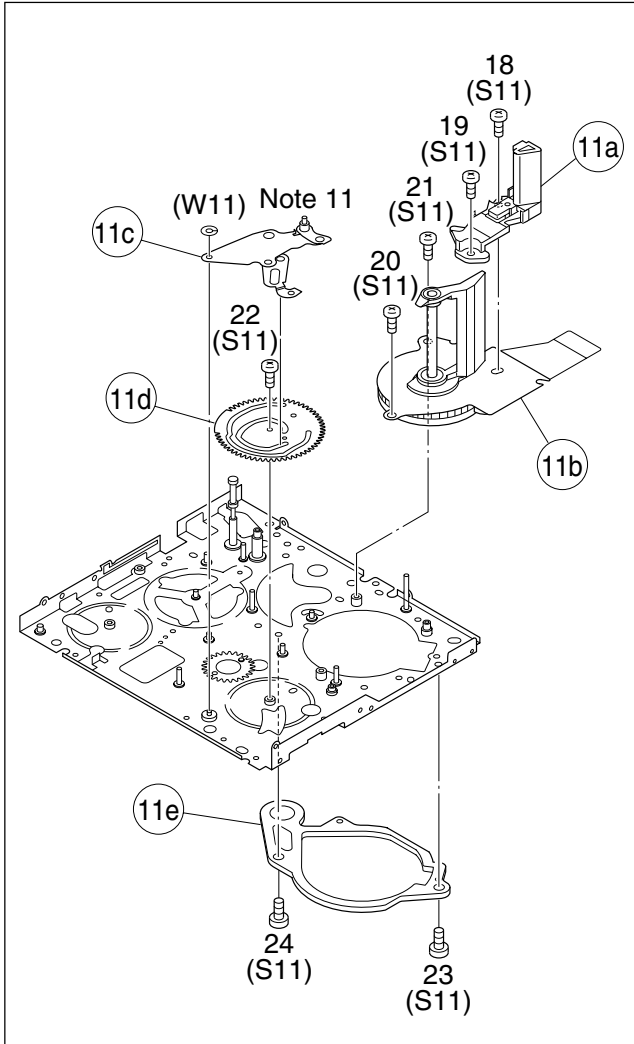
When removing/refitting parts, pay careful attention to the flexible board and so on not to damage them.

**Note 10b:**

When reinstalling the main cam gear and the brake control plate, first fit them together so that the protrusion on the brake control plate is set in the slot on the main cam gear as shown below, next install the two together to the main deck assembly.



11. ①1a Catcher (T) assembly/ ①1b Capstan motor  
 ①1c Charge arm assembly/ ①1d Sub cam gear  
 ①1e PWB holder



**Note 11:**

The following figure shows how to put the charge arm assembly and sub cam gear assembly together.

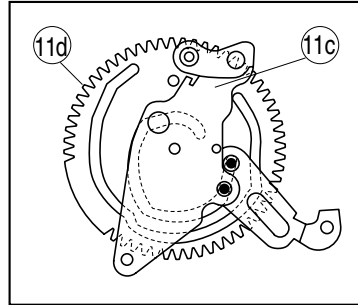


Fig. 2-4-15



### 2.4.3 List of procedures for disassembly

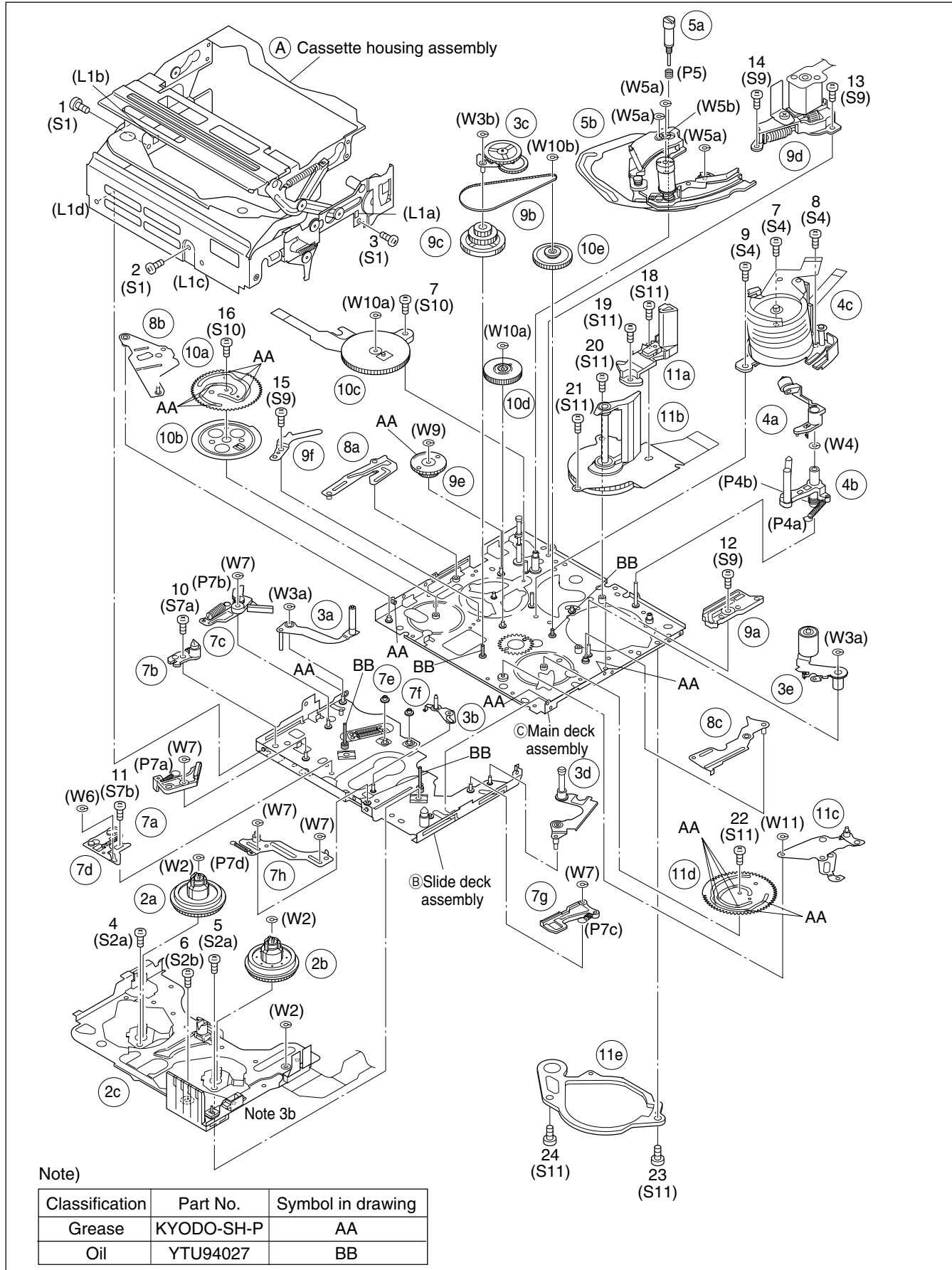


Fig. 2-4-16

## 2.5 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

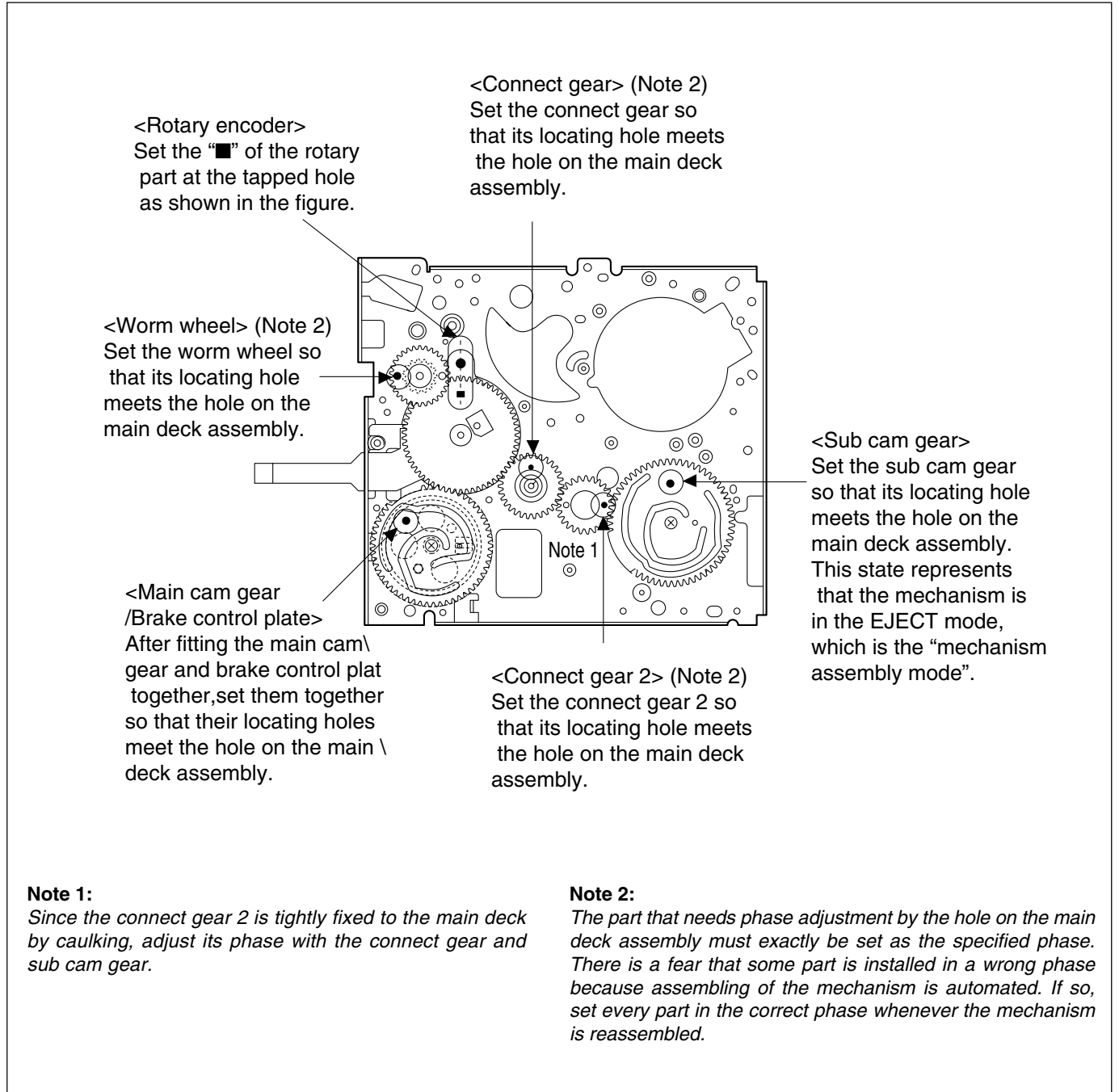


Fig. 2-5-1

## 2.6 MECHANISM ADJUSTMENTS

### 2.6.1 Assembling slide deck assembly and main deck assembly

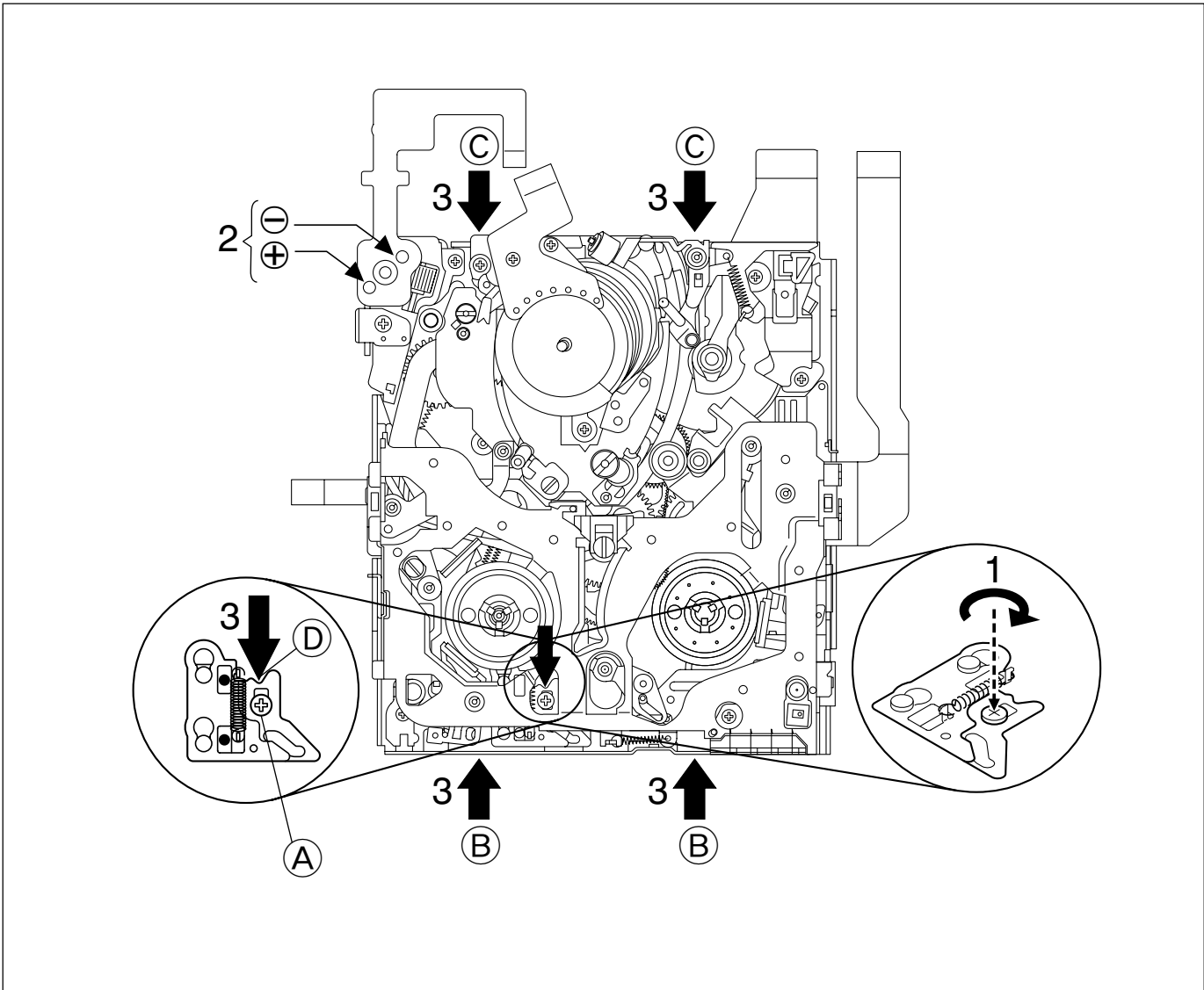


Fig. 2-6-1

#### Assembling procedure

1. Loosen the screw (A).
2. Set the mechanism in the PLAY mode.  
(Refer to "2.3.2 Explanation of mechanism mode".)
3. Press the end face B of the slide deck assembly (reel disk side) and the end face C of the main deck assembly (drum assembly side) with uniform force so that the two assemblies are tightly pressed to each other. Furthermore, press the part D and tighten the screw (A).

**Note :** Tightening torque for screw (A): 0.069 N·m (0.7 kgf·cm)

## 2.6.2 Locating tension pole

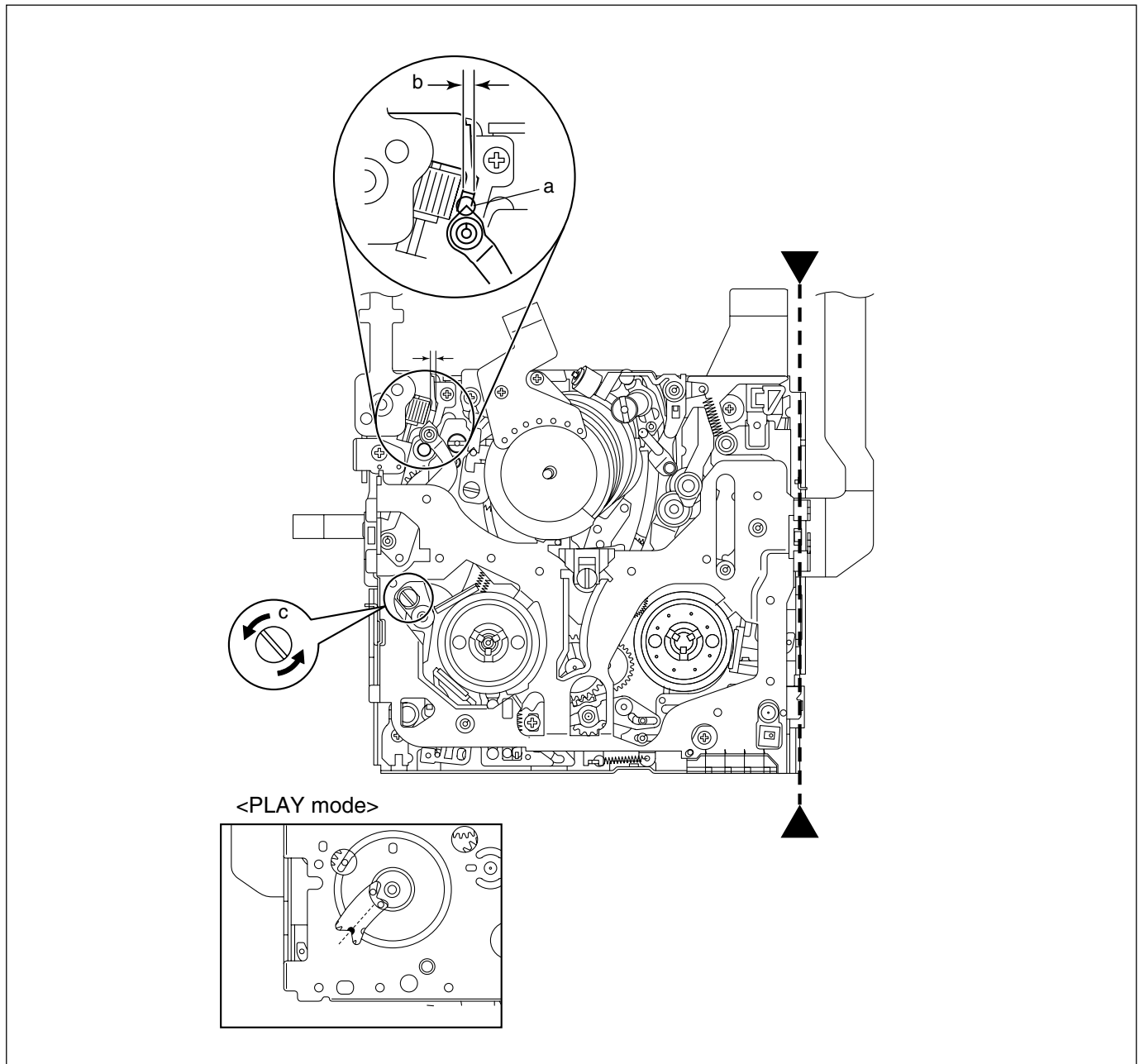


Fig. 2-6-2

### Locating procedure

1. Enter the mechanism assembly into the PLAY mode.  
(Refer to "2.3.2 Explanation of mechanism mode".)
2. When the "▶-----◀" part is positioned down, make sure that the part "a" of the tension arm assembly is located within the range of "b".
3. If the part "a" is out of the range, turn the pin "c" to adjust the position.

## 2.7 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

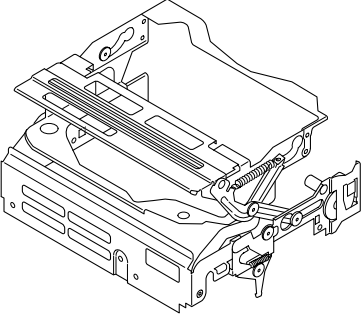
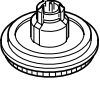
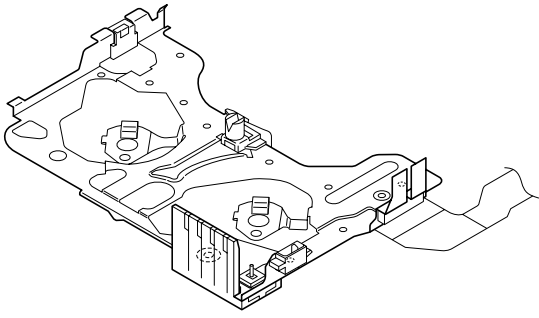
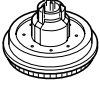


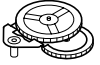
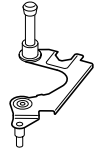


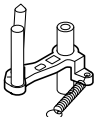
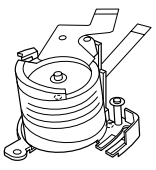

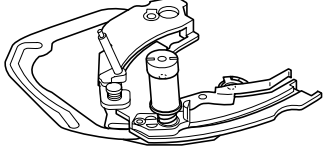
1	<p>Ⓐ Cassette housing assembly</p>  <p>S1×3</p>				
2	<p>Ⓐ Reel disk (SUP) assembly</p>  <p>W2×1</p>	<p>Ⓒ Reel cover assembly</p>  <p>S2a×2    S2b×1    W2×1</p>			
	<p>Ⓑ Reel disk (TU) assembly</p>  <p>W2×1</p>				
3	<p>Ⓐ Tension arm assembly</p>  <p>W3a×1</p>	<p>Ⓑ Release guide assembly</p> 	<p>Ⓒ Idler arm assembly</p>  <p>W3b×1</p>	<p>Ⓓ Guide arm assembly</p> 	<p>Ⓔ Pinch roller arm assembly</p>  <p>W3a×1</p>
4	<p>Ⓐ Cleaner arm assembly</p> 	<p>Ⓑ Slant pole arm assembly</p>  <p>W4×1    P4a×1    P4b×1</p>		<p>Ⓒ Drum assembly</p>  <p>S4×3</p>	
5	<p>Ⓐ Guide roller (S) assembly</p>  <p>P5×1</p>	<p>Ⓑ Rail assembly</p>  <p>W5a×3    W5b×1</p>			

Table 2-7-1a

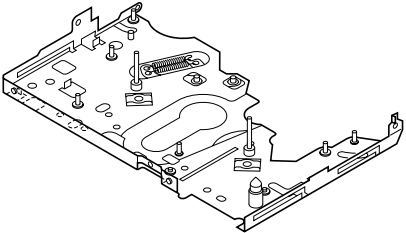








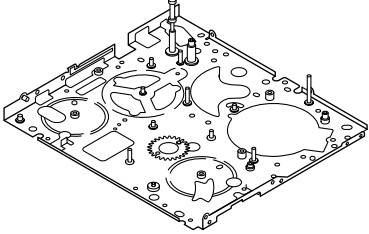
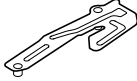
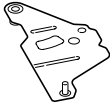
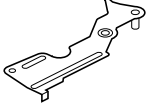
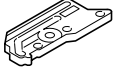
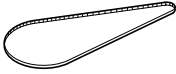

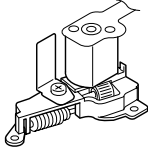



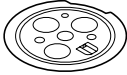
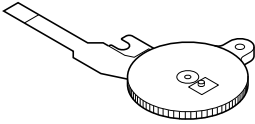


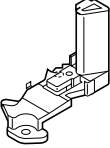
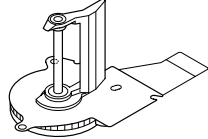
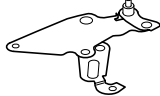
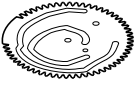
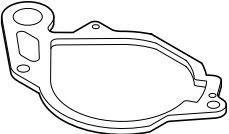
6	<b>Ⓑ Slide deck assembly</b>  W6×1	7	<b>7a Loading brake assembly</b>  W7×1 P7a×1	<b>7b Guide pin (SUPPLY)</b>  S7a×1	<b>7c Pad arm assembly</b>  W7×1 P7b×1	<b>7d Slide guide plate assembly</b>  S7b×1 W7×1
			<b>7e Collar</b> 	<b>7f Collar</b> 	<b>7g Sub brake assembly</b>  W7×1 P7c×1	<b>7h Control plate assembly</b>  W7×2 P7d×1
8	<b>Ⓒ Main deck assembly</b> 	<b>8a Tension lever assembly</b> 	<b>8b Slide lever assembly</b> 	<b>8c Brake control lever assembly</b> 		
9	<b>9a Loading guide</b>  S9×1	<b>9b Timing belt</b> 	<b>9c Center gear assembly</b> 	<b>9d Motor bracket assembly</b>  S9×2	<b>9e Worm wheel</b>  W9×1	<b>9f Gear holder</b>  S9×1
10	<b>10a Main cam gear</b>  S10×1	<b>10b Brake control plate</b>  	<b>10c Rotary encoder</b>  S10×1 W10a×1	<b>10d Connect gear</b>  W10a×1	<b>10e Reel drive pulley assembly</b>  W10b×1	
11	<b>11a Catcher (T) assembly</b>  S11×2	<b>11b Capstan motor</b>  S11×2	<b>11c Charge arm assembly</b>  W11×1	<b>11d Sub cam gear</b>  S11×1	<b>11e PWB holder</b>  S11×2	

Table 2-7-1b

## 2.8 JIG CONNECTOR CABLE CONNECTION

Remove one screw (1) first and the cover (JIG) next.

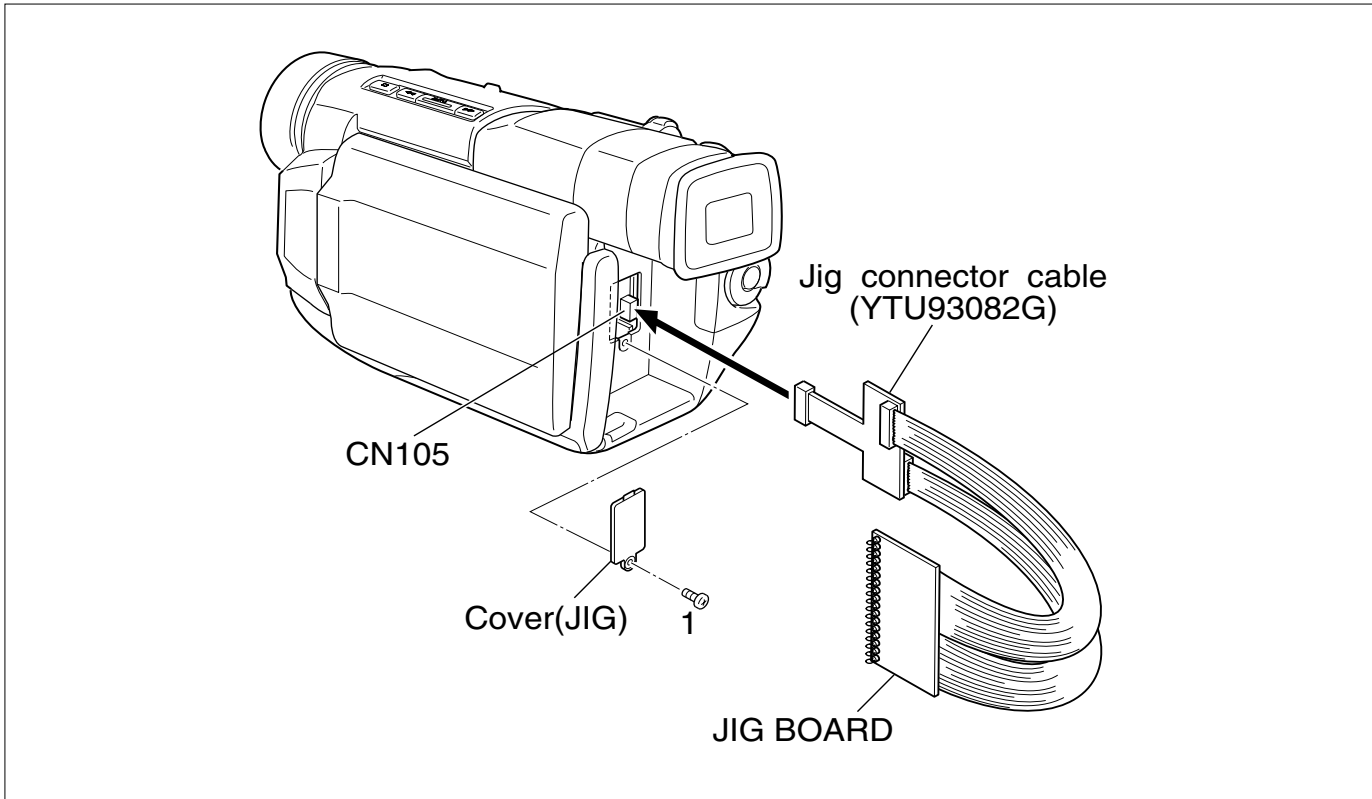


Fig. 2-8-1 Jig connector cable connection

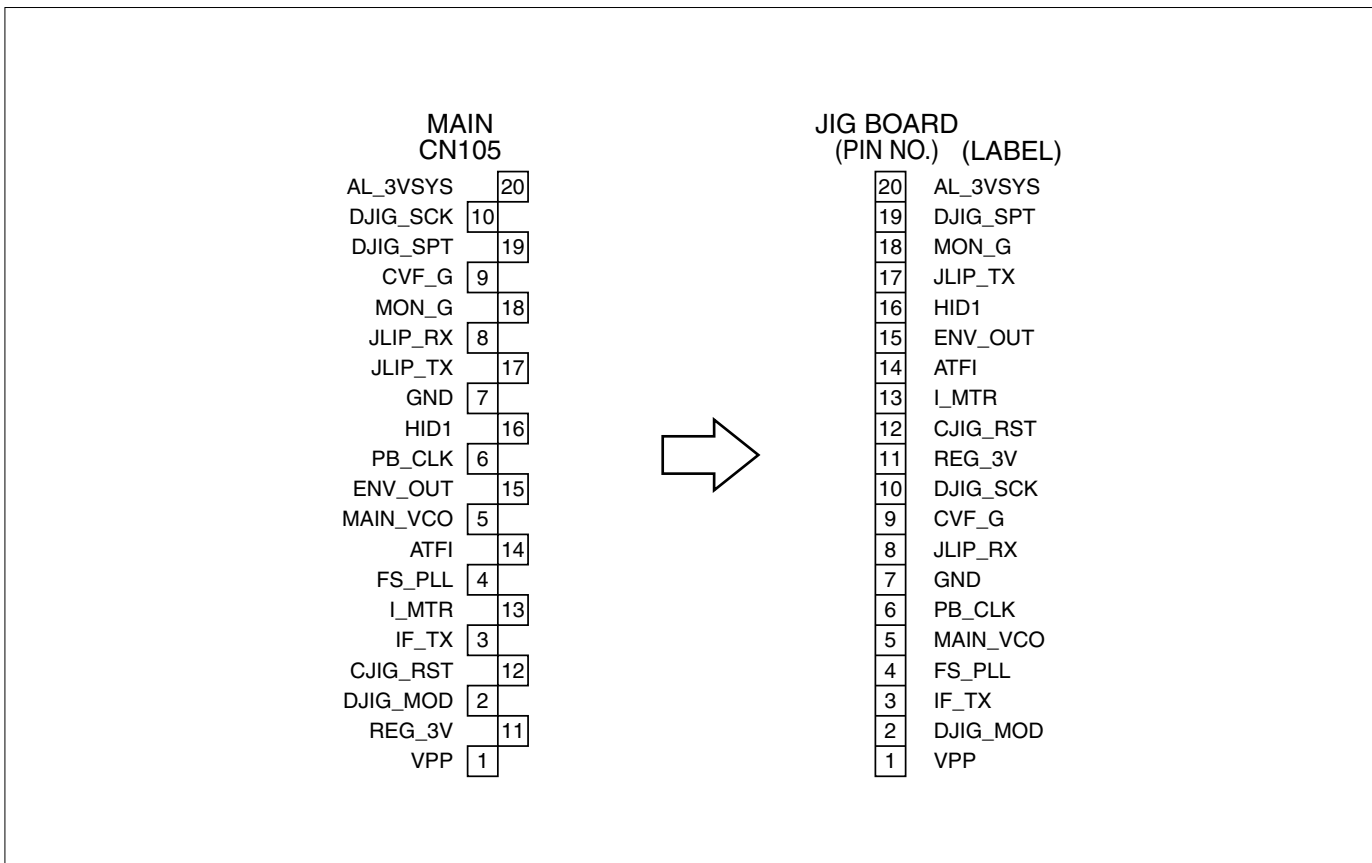


Fig. 2-8-2 Jig connector cable schematic diagram

# SECTION 3 ELECTRICAL ADJUSTMENT

## 3.1 PRECAUTION

### 1. Precaution

Both the camera and deck sections of this model needs a personal computer for adjustment except simple adjustment with potentiometers. If some of the following parts is replaced for repair or other reason, the repaired set must be adjusted with a personal computer.

- OP block
- E<sup>2</sup>PROM (IC1003 of MAIN board)
- MONITOR
- E<sup>2</sup>PROM (IC7603 of MONITOR board)

In the event of malfunction with electrical circuits, troubleshooting with the aid of proper test instruments must be done first, and then commence necessary repair, replacement and adjustment, etc.

1. In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
2. Since connectors are fragile, carefully handle them in disconnecting and connecting.
3. Shortcircuit between operation un it and DECK chassis.

### 2. Required test equipment

1. Color TV monitor.
2. AC power adapter/charger
3. Oscilloscope (dual-trace type, observable 100 MHz or higher frequency)  
**Note** : It is recommended to use one observable 300 MHz or higher frequency.
4. Digital voltmeter
5. Frequency counter (with threshold level adjuster)
6. Personal computer

## 3. Tools required for adjustments

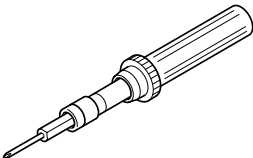
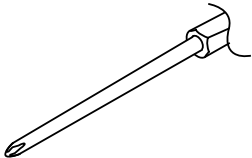
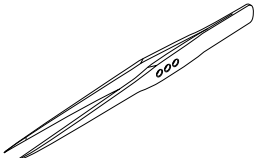
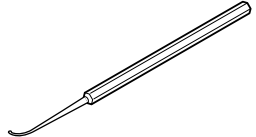
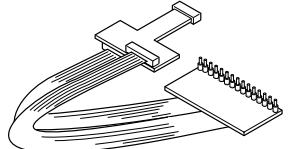
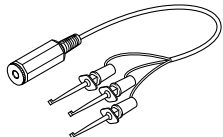
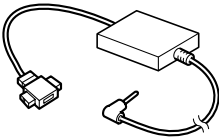
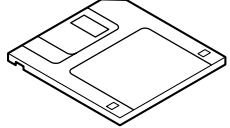
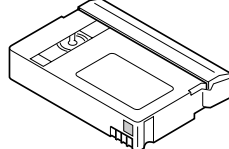
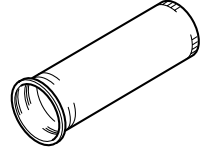
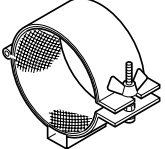
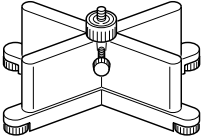
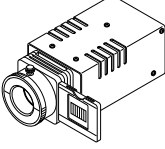
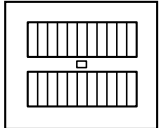
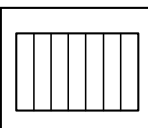
1	Torque Driver YTU94088	2	Bit YTU94088-003
			
3	Tweezers P-895	4	Chip IC Replacement Jig PTS40844-2
			
5	Jig Connector Cable YTU93082G	6	Communication Cable YTU93107A
			
7	PC Cable QAM0099-002	8	Service Support System YTU94057-52
			
9	Alignment Tape MC-2	10	INF Adjustment Lens YTU92001B
			
11	INF Adjustment Lens Holder YTU94087	12	Camera Stand YTU93079
			
13	Light box Assembly YTU93096A	14	Gray Scale Chart YTU94133A
			
15	Color Bar Chart YTU94133C		
			

Table 3-1-1



**1. Torque driver**

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

**2. Bit**

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

**3. Tweezers**

To be used for removing and installing parts and wires.

**4. Chip IC replacement jig**

To be used for adjustment of the camera system.

**5. Jig connector cable**

Connected to CN105 of the main board and used for electrical adjustment, etc.

**6. Communication Cable**

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

**7. PC cable**

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

**8. Service support system**

To be used for adjustment with a personal computer.

**9. Alignment tape**

To be used for check and adjustment of interchangeability of the mechanism.

**10. INF adjustment lens**

To be used for adjustment of the camera system.

**11. INF adjustment lens holder**

To be used together with the camera stand for operating the VideoMovie 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.

**12. Camera stand**

To be used together with the INF adjustment lens holder.

**13. Light box assembly**

To be used for adjustment of the camera system.

**14. Gray scale chart (for Light box assembly)**

To be used for adjustment of the camera system.

**15. Color bar chart (for Light box assembly)**

To be used for adjustment of the camera system.

**3.2 SETUP**

1. Setup for electrical adjustment with personal computer.

**NOTE:** Remove one screw (1) first and the cover (JIG) next.

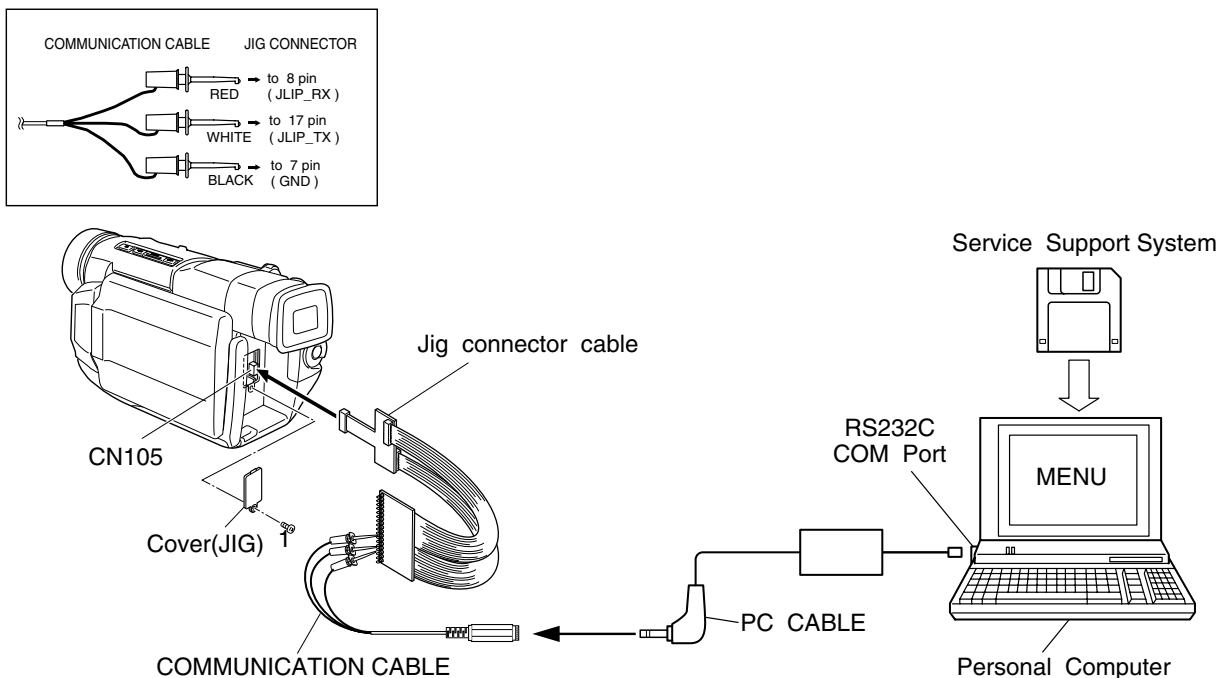


Fig. 3-2-1 Connection for Service support system

# SECTION 4 CHARTS AND DIAGRAMS

## NOTES OF SCHEMATIC DIAGRAM

### Safety precautions

The Components identified 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.

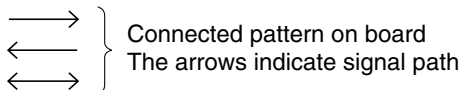
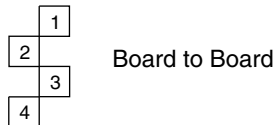
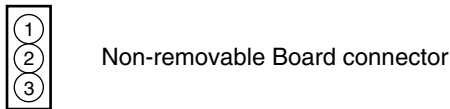
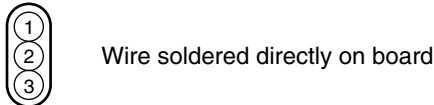
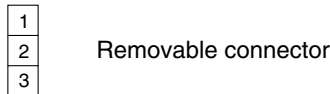
- 1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).  
Chip resistors are 1/16 W.  
K: K $\Omega$  (1000 $\Omega$ ), M: M $\Omega$  (1000K $\Omega$ )
- 2) All capacitance values are in  $\mu$ F, (P: PF).
- 3) All inductance values are in  $\mu$ H, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

### 2. Indications of control voltage

AUX : Active at high.

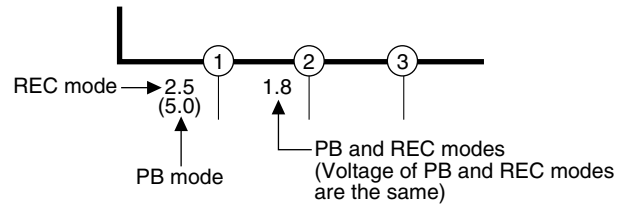
$\overline{\text{AUX}}$  or AUX(L) : Active at low.

### 3. Interpreting Connector indications



### 4. Voltage measurement

- 1) Regulator (DC/DC CONV) circuits  
REC : Colour bar signal.  
PB : Alignment tape (Colour bar).  
— : Unmeasurable or unnecessary to measure.
- 4) 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.

- Playback signal path
- Playback and recording signal path
- Recording signal path (including E-E signal path)
- Capstan servo path
- Drum servo path

(Example)

- Playback R-Y signal path
- Recording Y signal path

### 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.



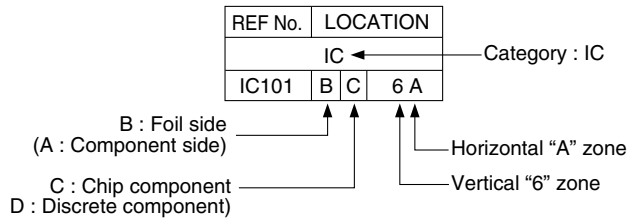
## CIRCUIT BOARD NOTES

### 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.

### 2. Parts location guides

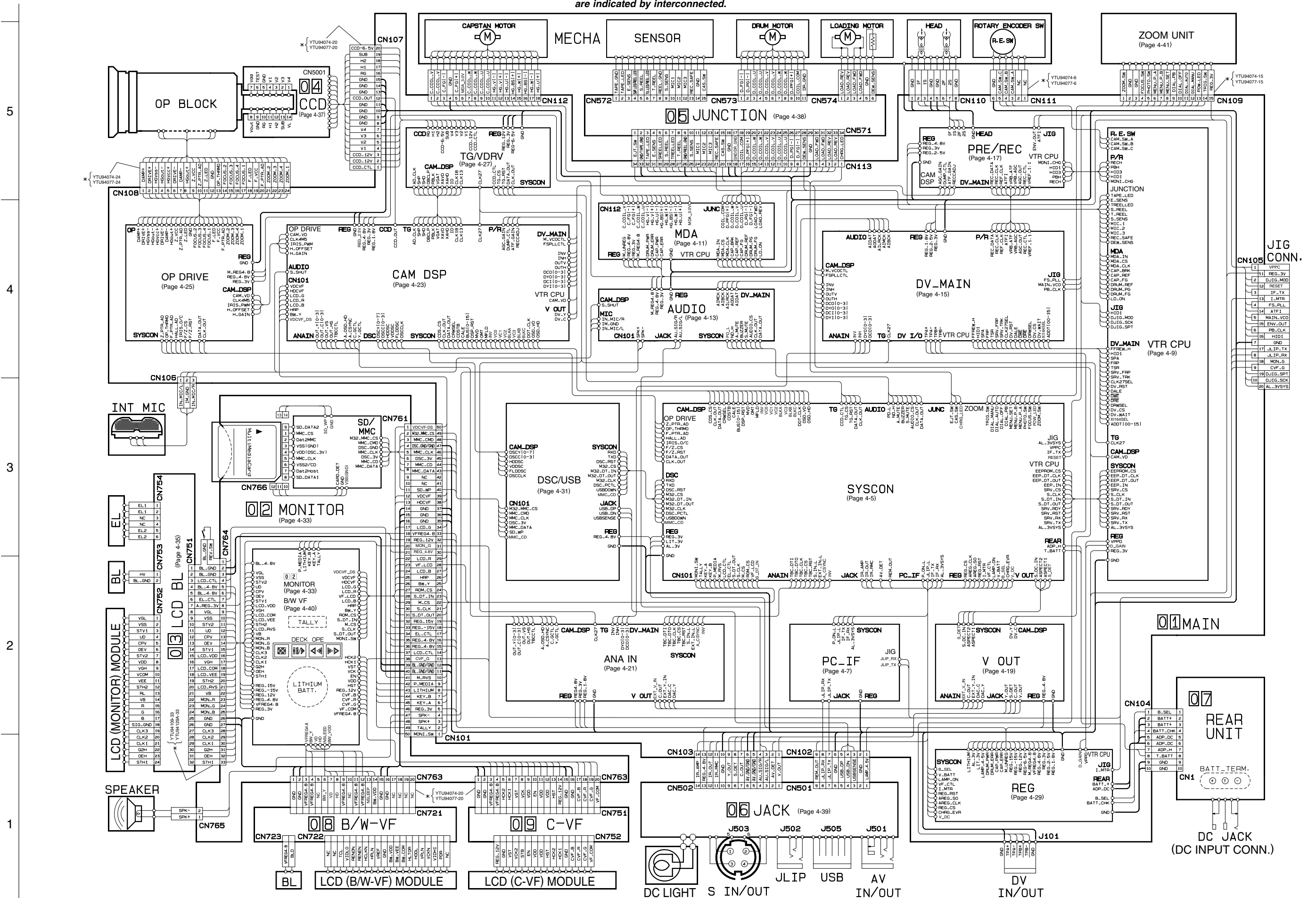
Parts location are indicated by guide scale on the circuit board.



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

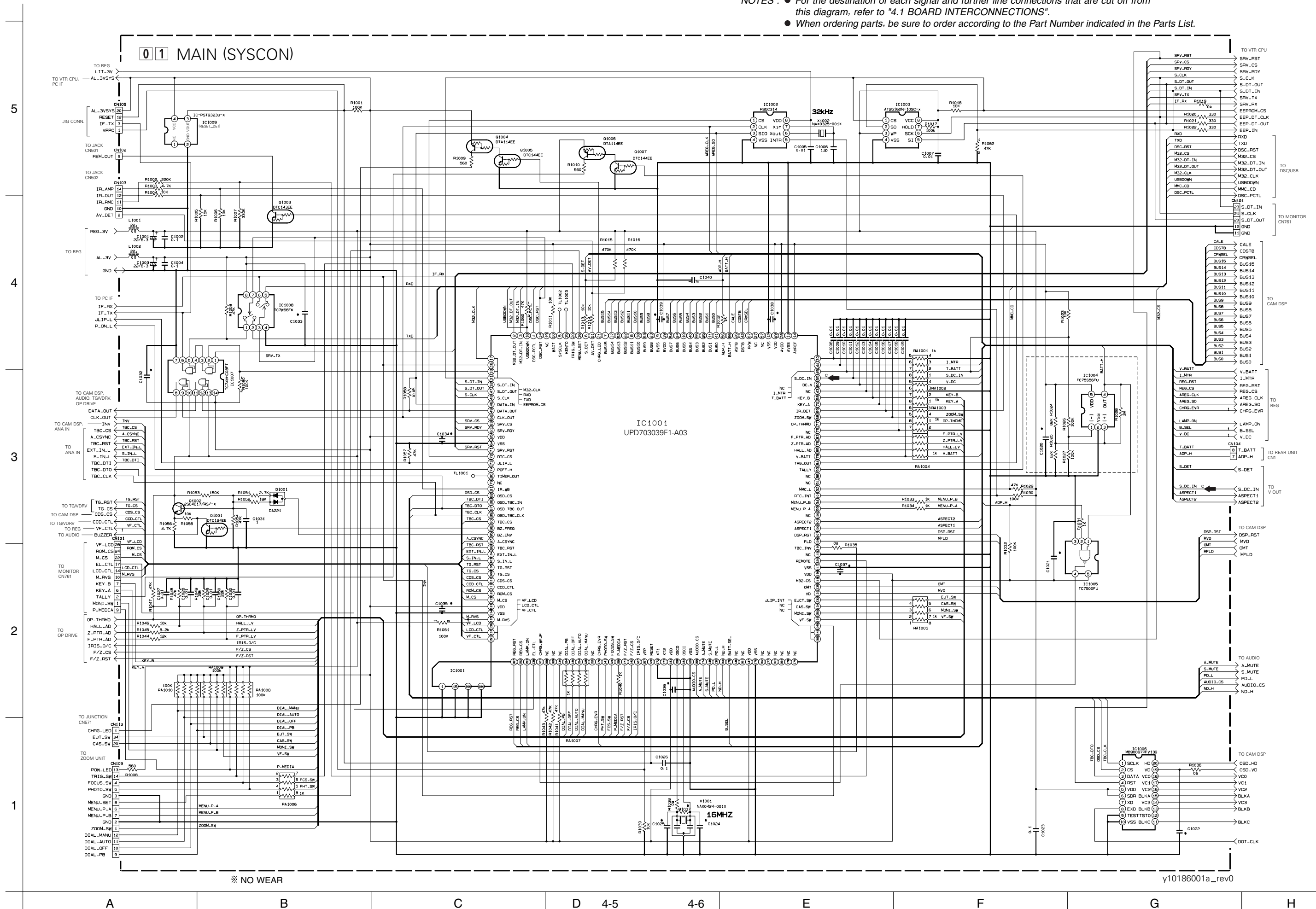
4.1 BOARD INTERCONNECTIONS

NOTE) \* : The number of patch cords are indicated by interconnected.



## 4.2 SYSCON SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

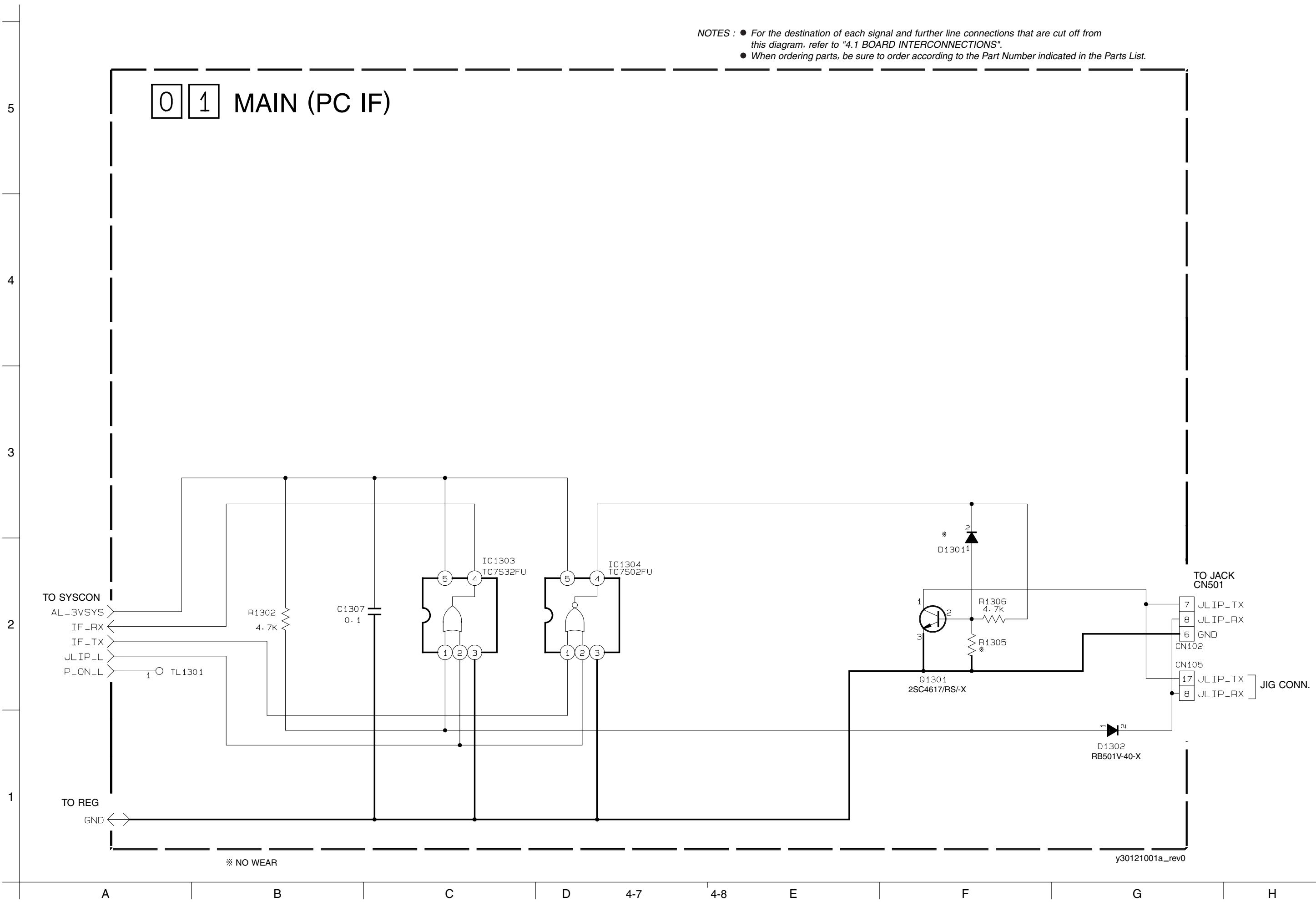


※ NO WEAR

y10186001a\_rev0

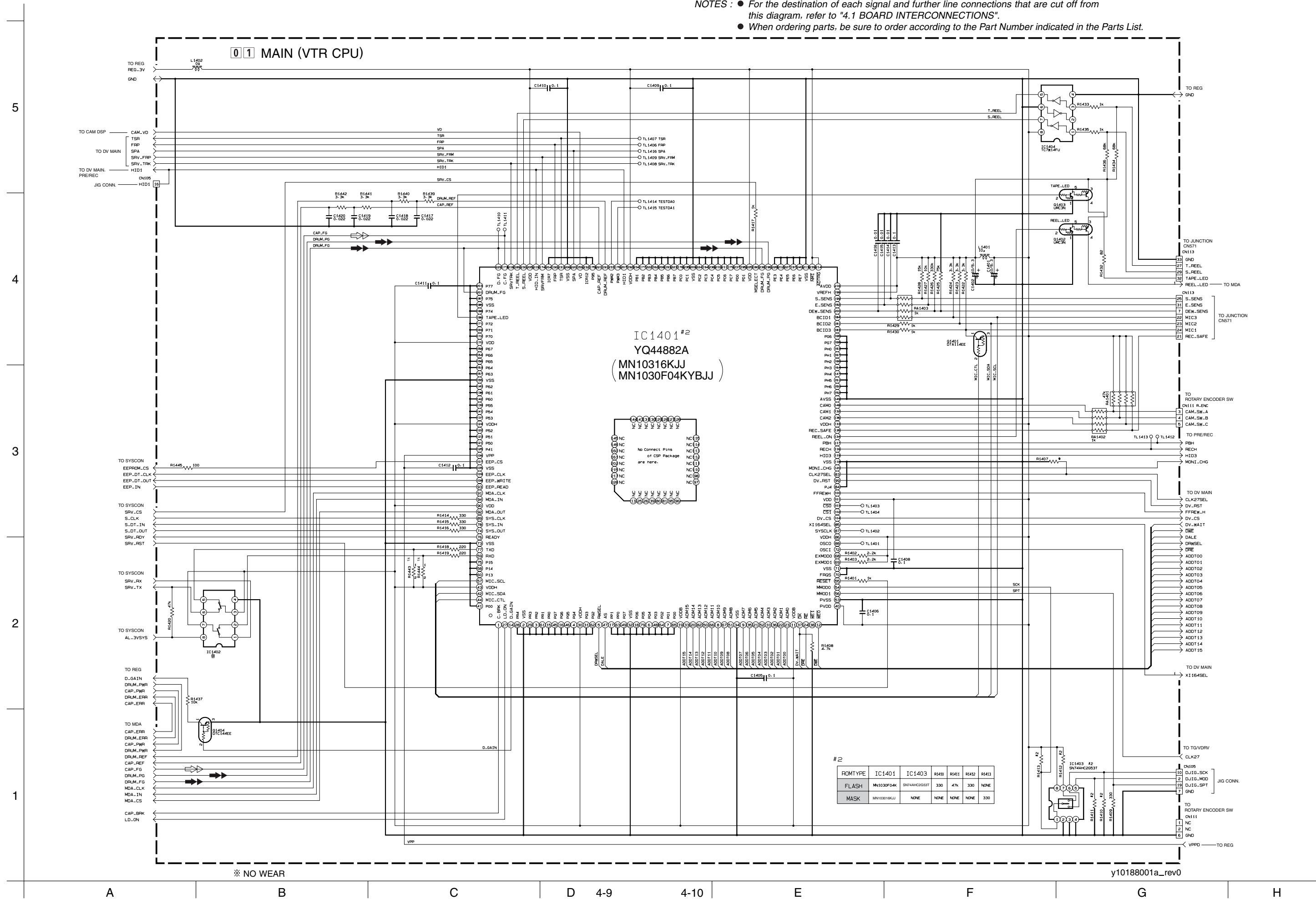
4.3 PC IF SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



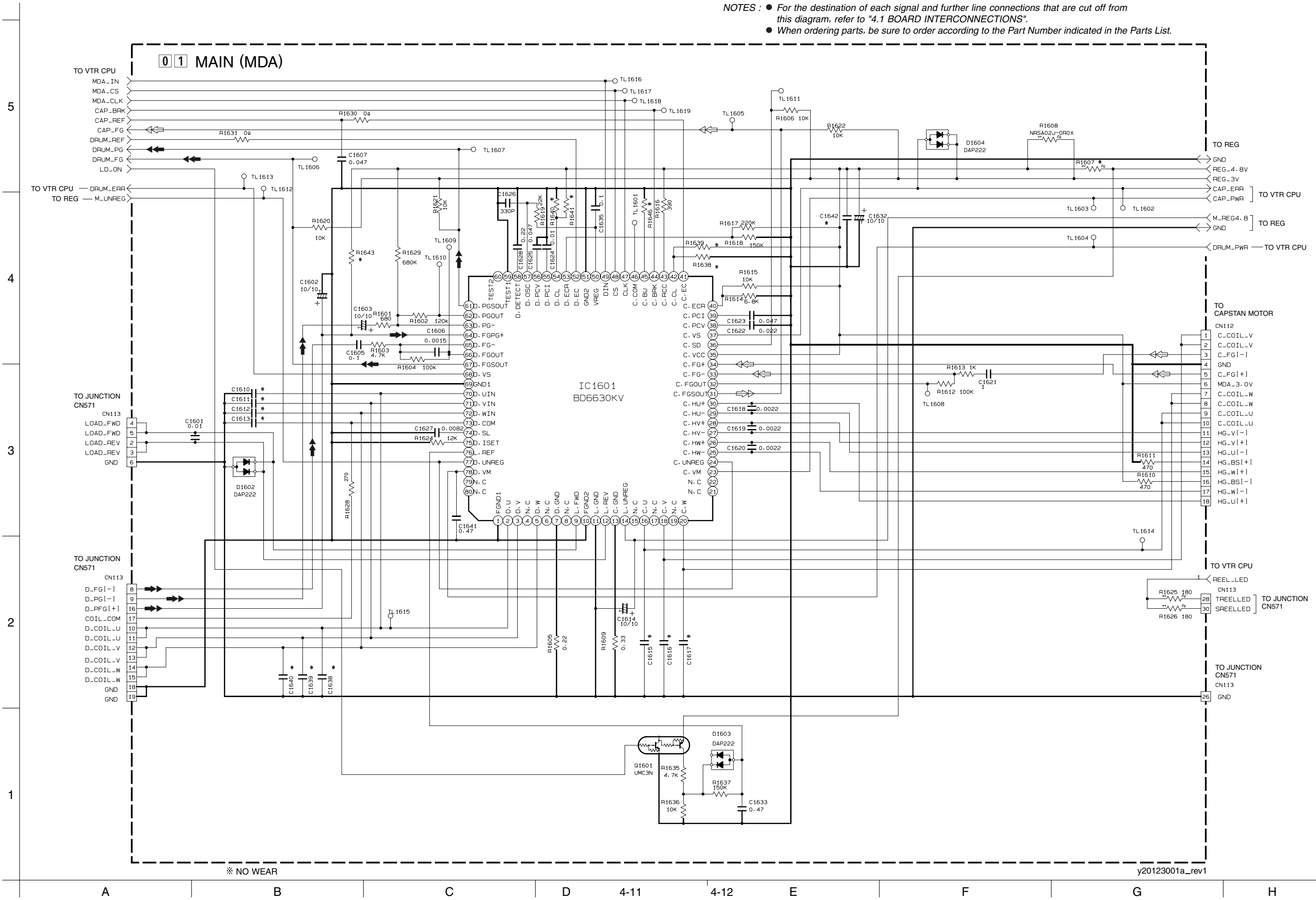
4.4 VTR CPU SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



# 4.5 MDA SCHEMATIC DIAGRAM

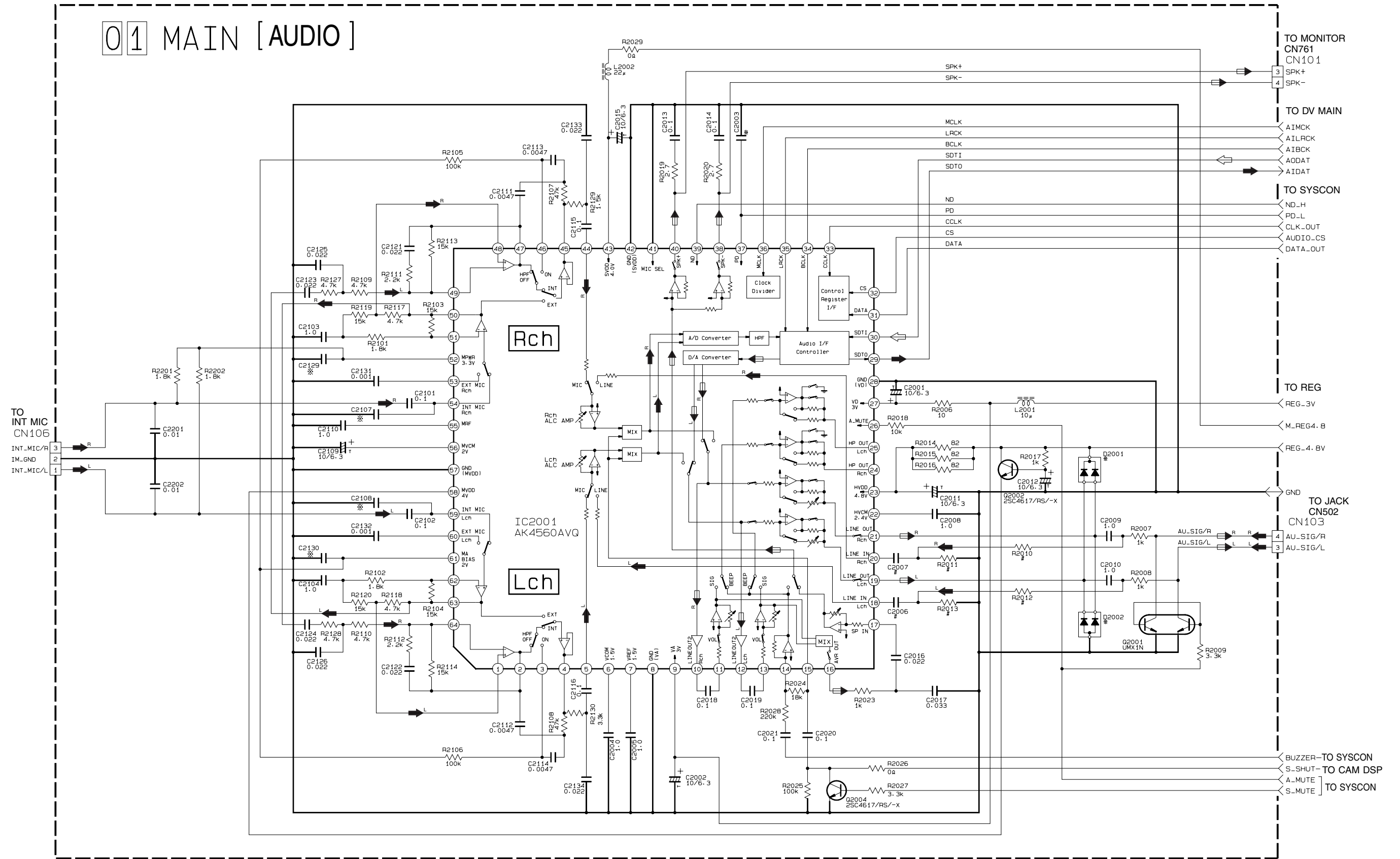
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.





4.6 AUDIO SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



※ NO WEAR

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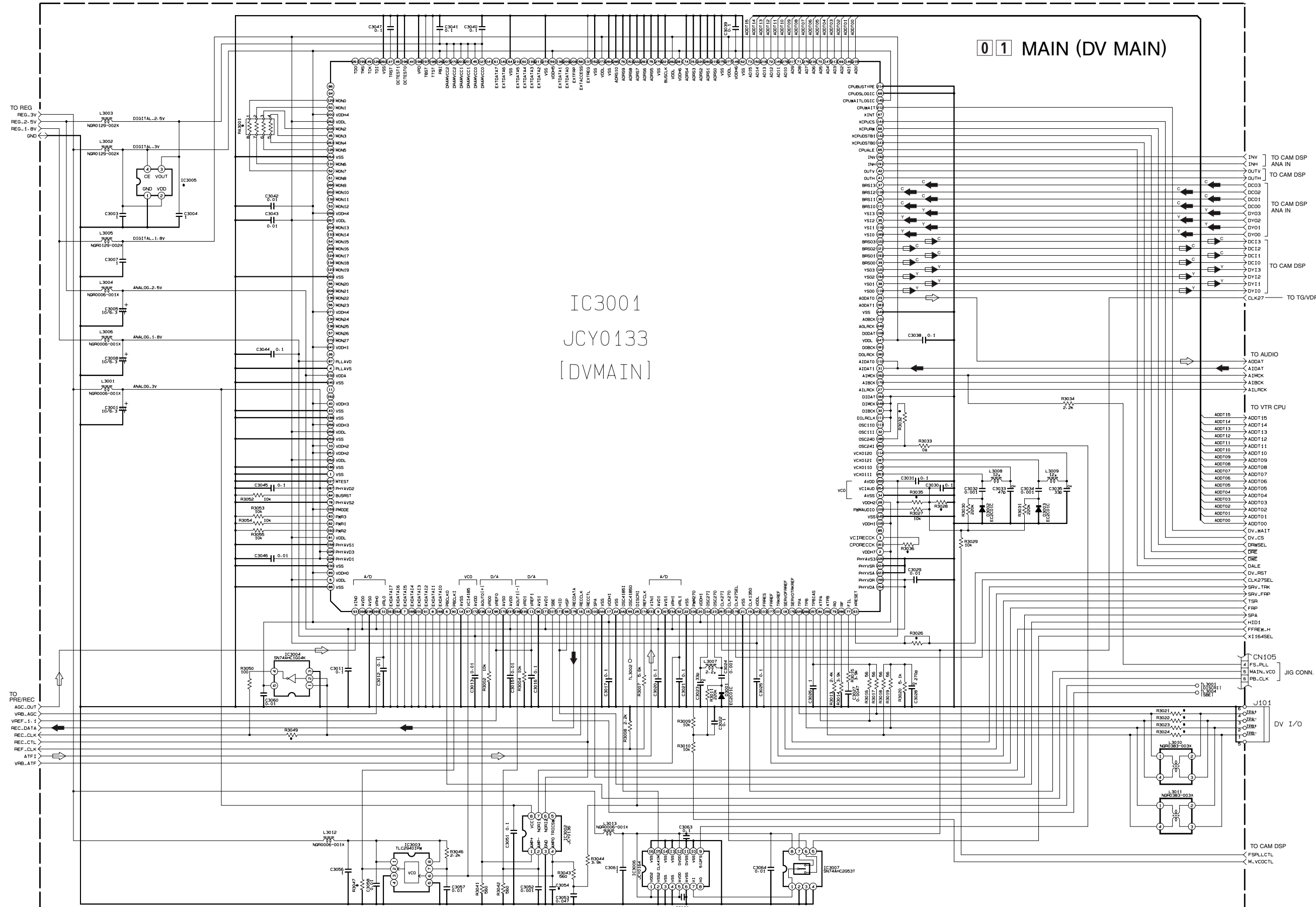
EXCHANGE PARTS LIST

	ANALOG IN	YES	NO
R2010	27k	※	
R2011	22k	0.0	
R2012	27k	※	
R2013	22k	0.0	
C2006	0.1	0.01	
C2007	0.1	0.01	

4.7 DV MAIN SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

5  
4  
3  
2  
1



IC3001  
JCY0133  
[DVMAIN]

0 1 MAIN (DV MAIN)

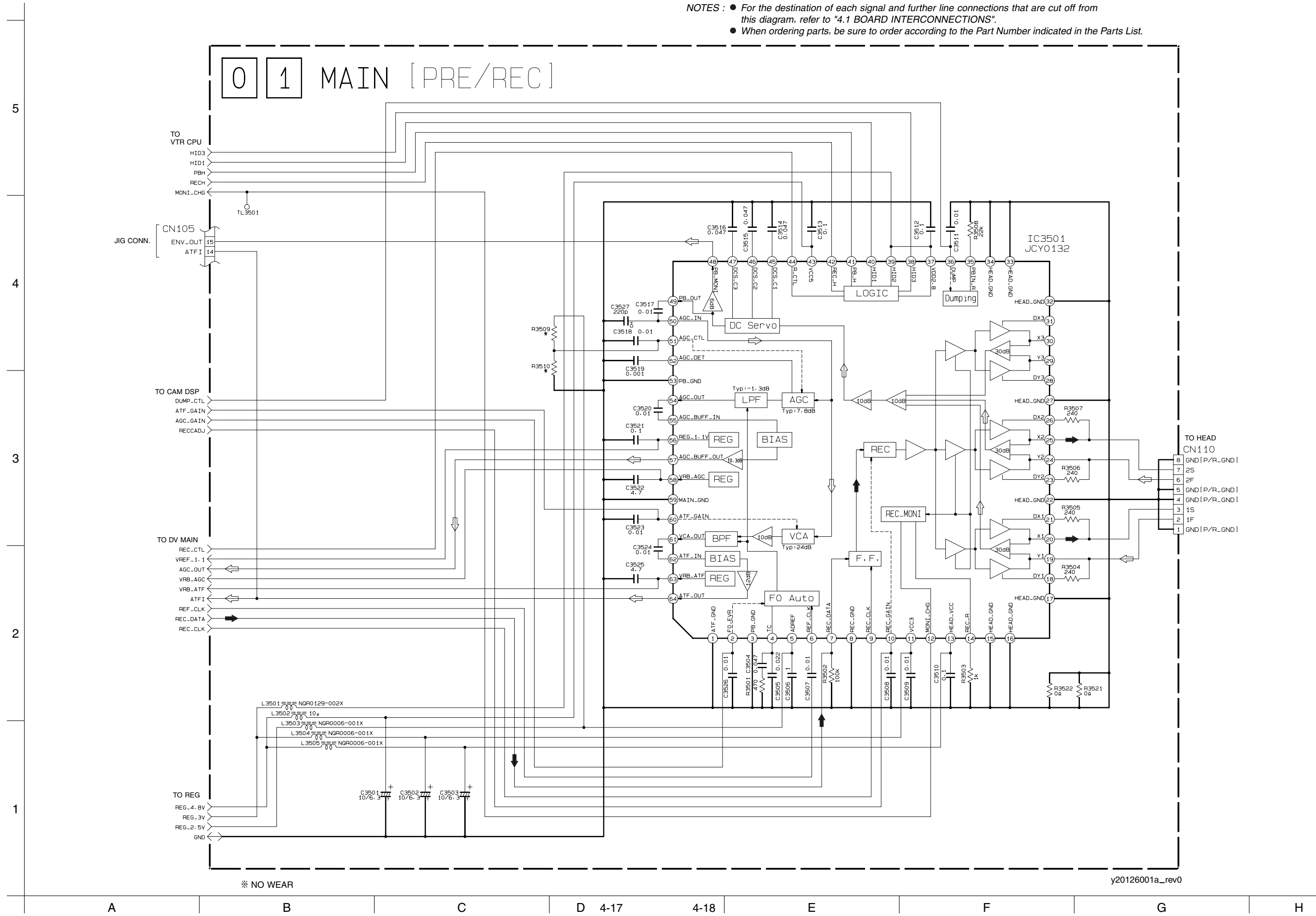
※ NO WEAR

y10196001a\_rev0

A B C D 4-15 4-16 E F G H

4.8 PRE/REC SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

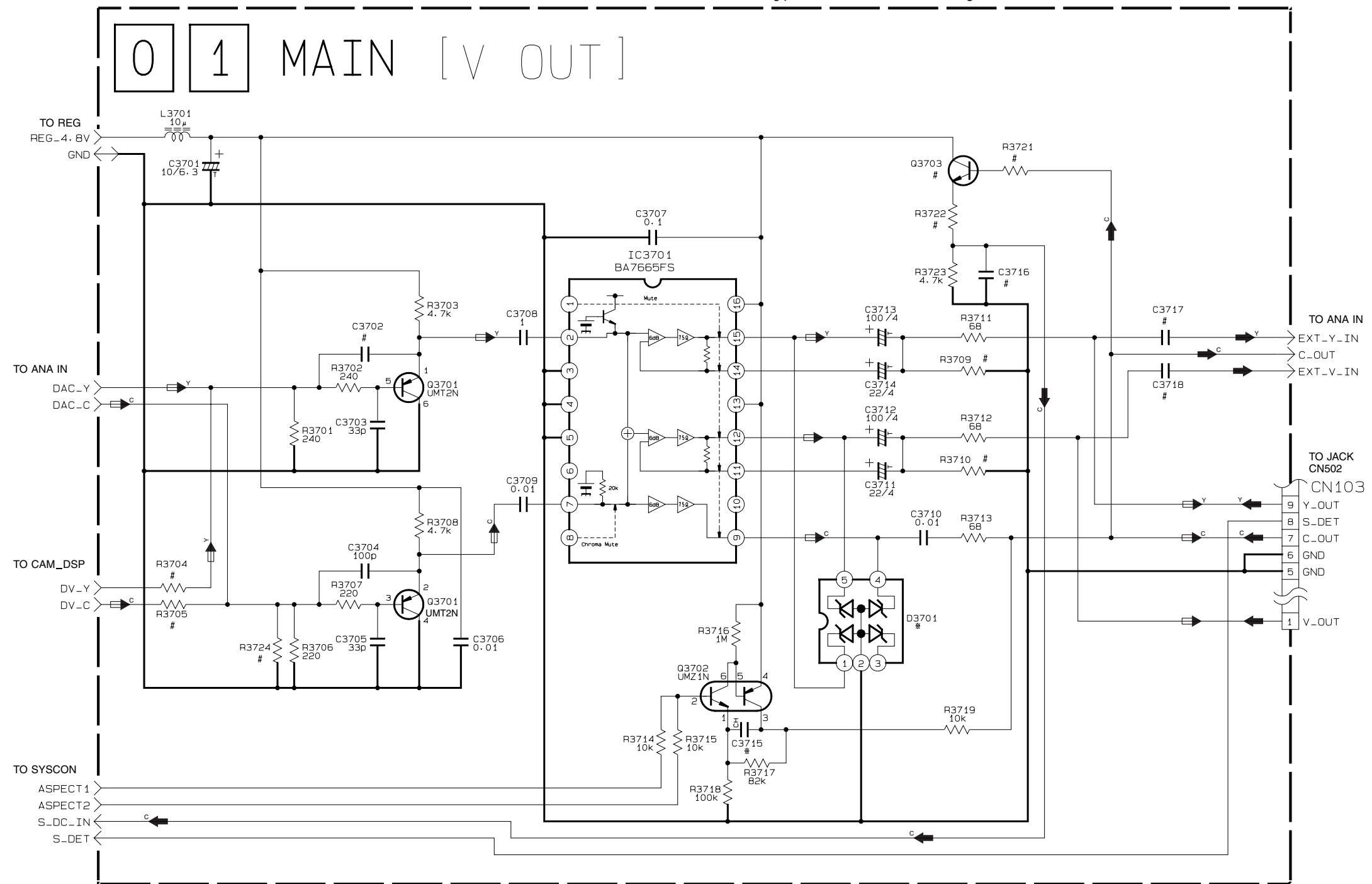


※ NO WEAR

y20126001a\_rev0

4.9 V OUT SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



※ NO WEAR

# : EXCHANGE PARTS LIST

	With ANALOG INPUT	Without ANALOG INPUT
Q3703	2SC4617/RS/-X	*
R3704	*	0Ω
R3705	*	0Ω
R3709	100k	*
R3710	100k	*
R3721	100	*
R3722	4.7k	*
R3724	*	3.9k
C3702	100p	150p
C3716	0.01	*
C3717	1	*
C3718	1	*

y30123001a\_rev0

A

B

C

D

4-19

4-20

E

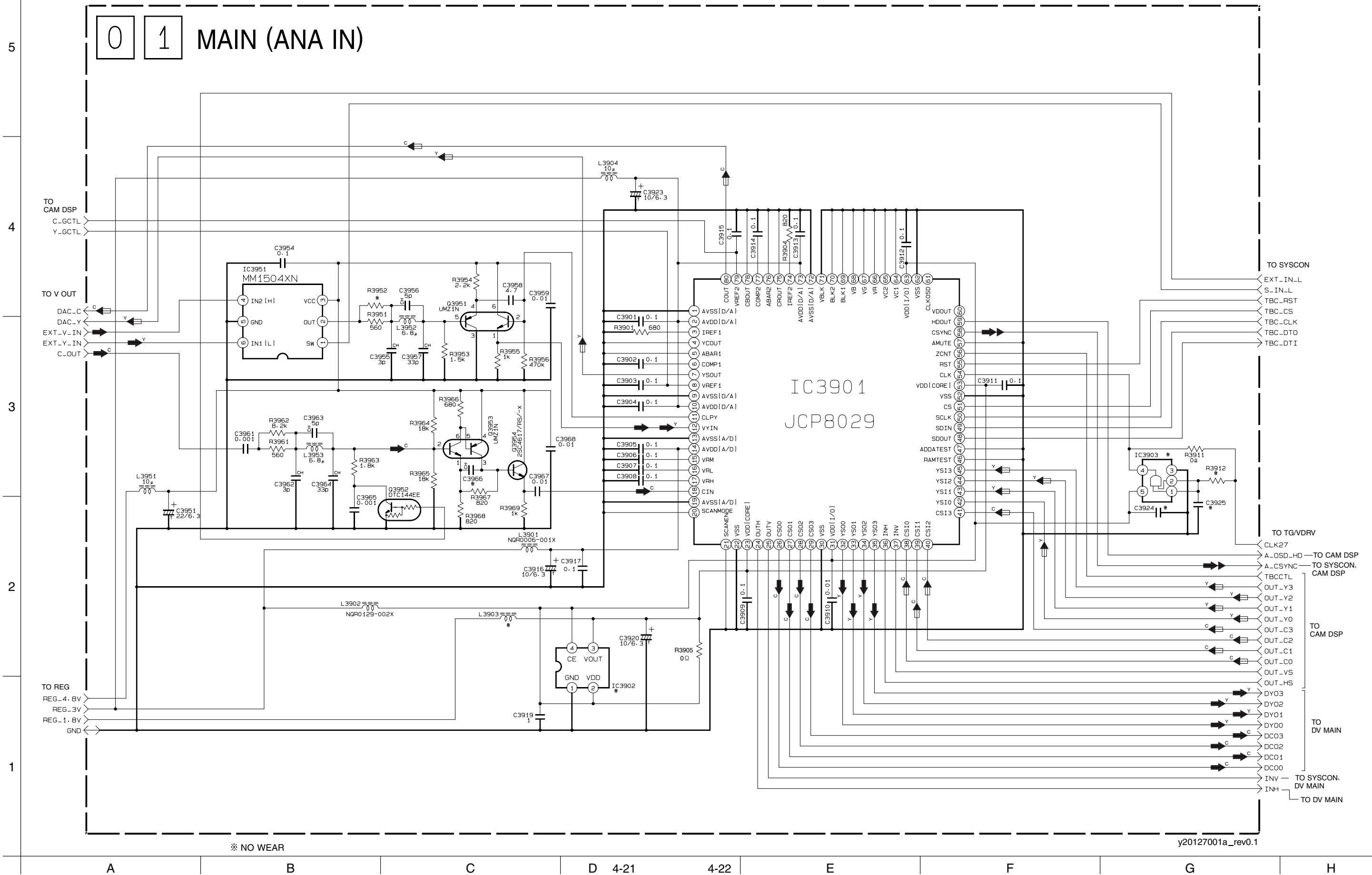
F

G

H

4.10 ANA IN SCHEMATIC DIAGRAM [GR-DVL557EG]

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



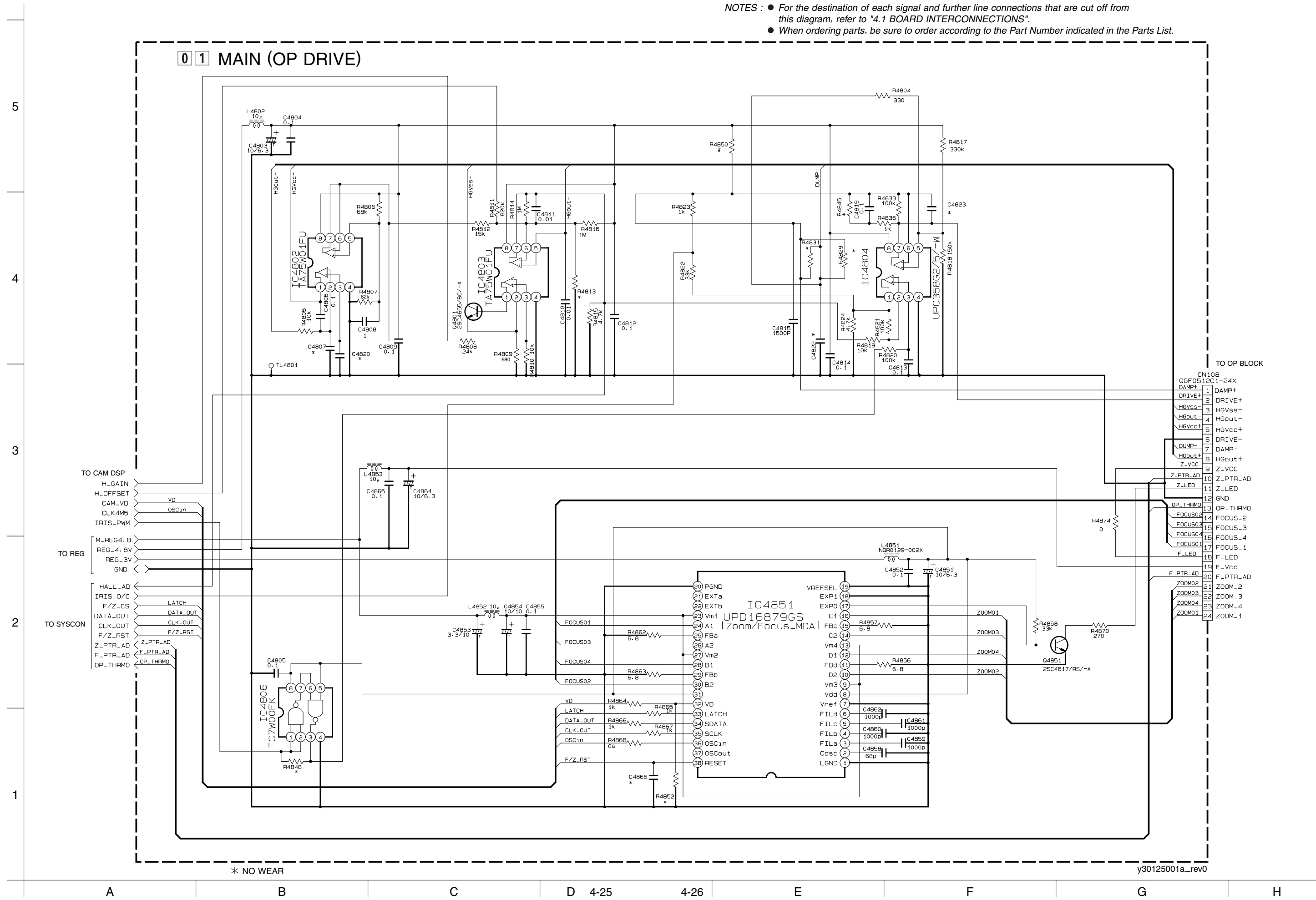
※ NO WEAR

y20127001a\_rev0.1



4.12 OP DRIVE SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

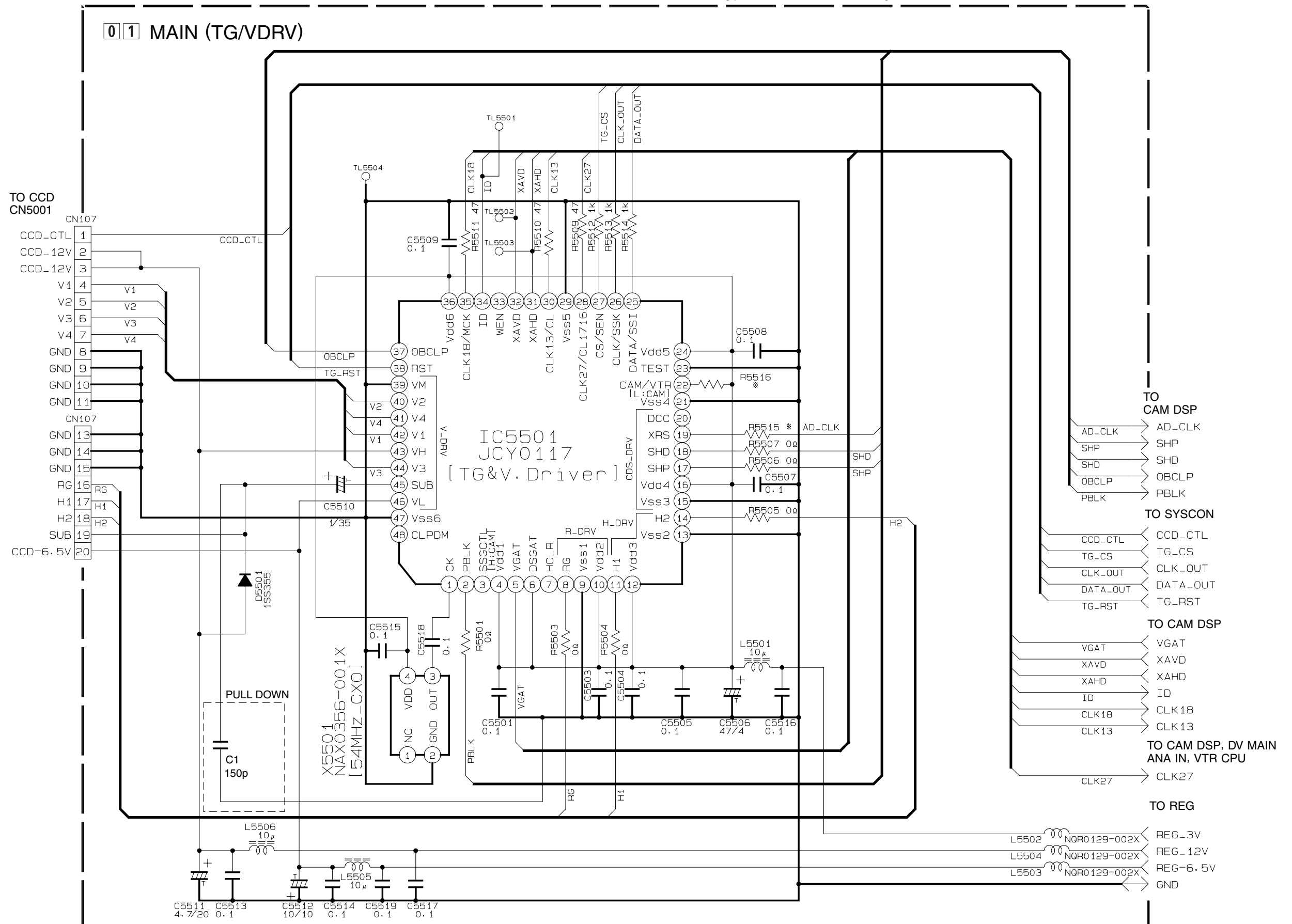


\* NO WEAR

y30125001a\_rev0

4.13 TG/VDRV SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



TO CCD  
CN5001

1	CCD_CTL
2	CCD_12V
3	CCD_12V
4	V1
5	V2
6	V3
7	V4
8	GND
9	GND
10	GND
11	GND
12	GND
13	GND
14	GND
15	GND
16	RG
17	H1
18	H2
19	SUB
20	CCD-6.5V

TO CAM DSP

AD_CLK	AD_CLK
SHD	SHD
SHD	SHD
OBCLP	OBCLP
PBLK	PBLK

TO SYSCON

CCD_CTL	CCD_CTL
TG_CS	TG_CS
CLK_OUT	CLK_OUT
DATA_OUT	DATA_OUT
TG_RST	TG_RST

TO CAM DSP

VGAT	VGAT
XAVD	XAVD
XAHD	XAHD
ID	ID
CLK18	CLK18
CLK13	CLK13

TO CAM DSP, DV MAIN ANA IN, VTR CPU

CLK27	CLK27
-------	-------

TO REG

REG_3V	REG_3V
REG_12V	REG_12V
REG-6.5V	REG-6.5V
GND	GND

※ NO WEAR

y30126001a\_rev0.1

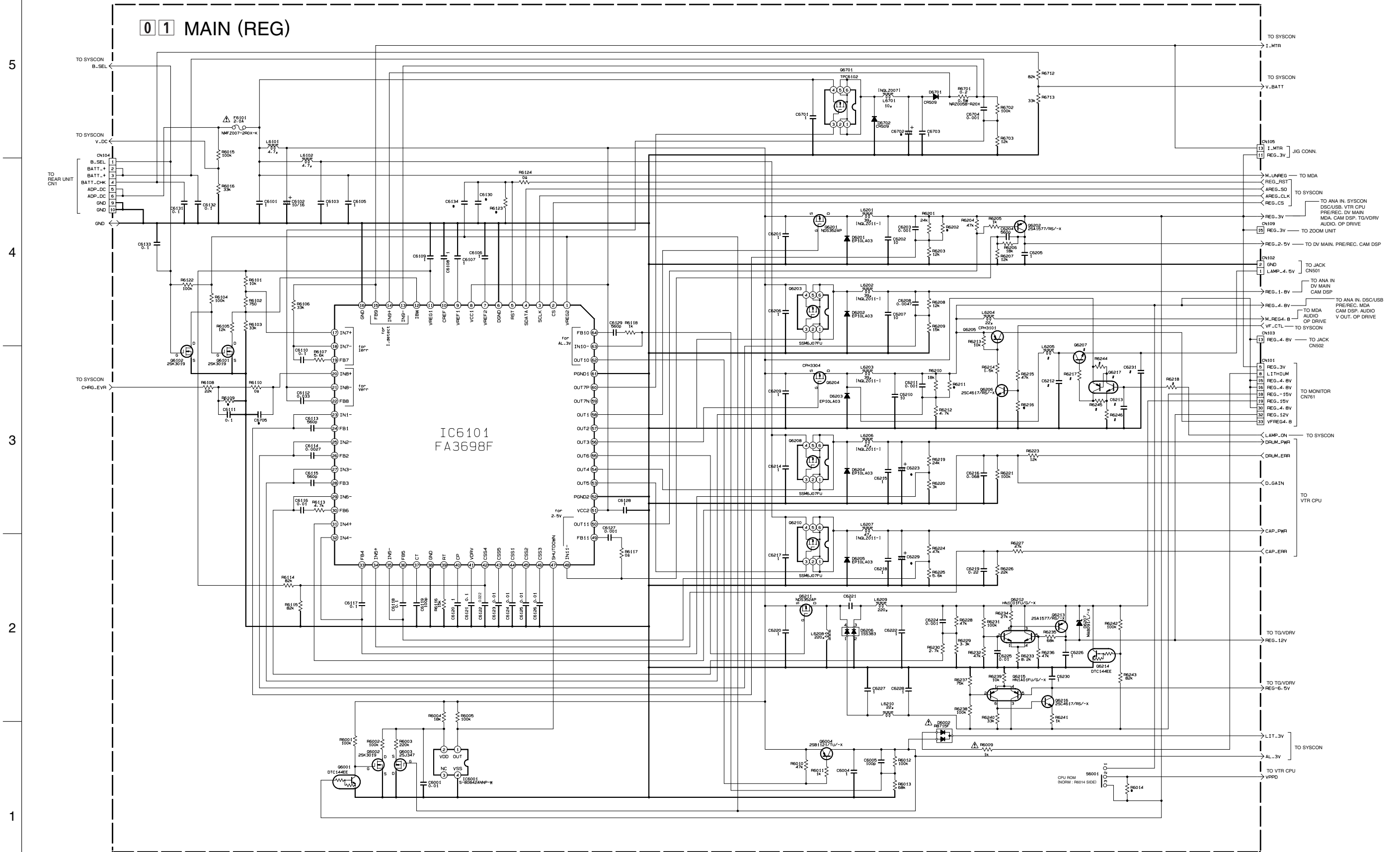
A B C D 4-27 4-28 E F G H

5  
4  
3  
2  
1



4.14 REG SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



# EXCHANGE PARTS LIST

	L6205	Q6207	Q6217	R6217	R6218	R6244	R6245	R6246	C6212	C6213	C6231
With LIGHT	10μ	2SD1621/TU/-X	UMZ1N	150	100k	1.5k	5.6k	2.2k	1	1	0.01
without LIGHT	open	open	open	open	open	open	open	open	open	open	open

\* NO WEAR

y10192001a\_rev0

A

B

C

D 4-29

4-30

E

F

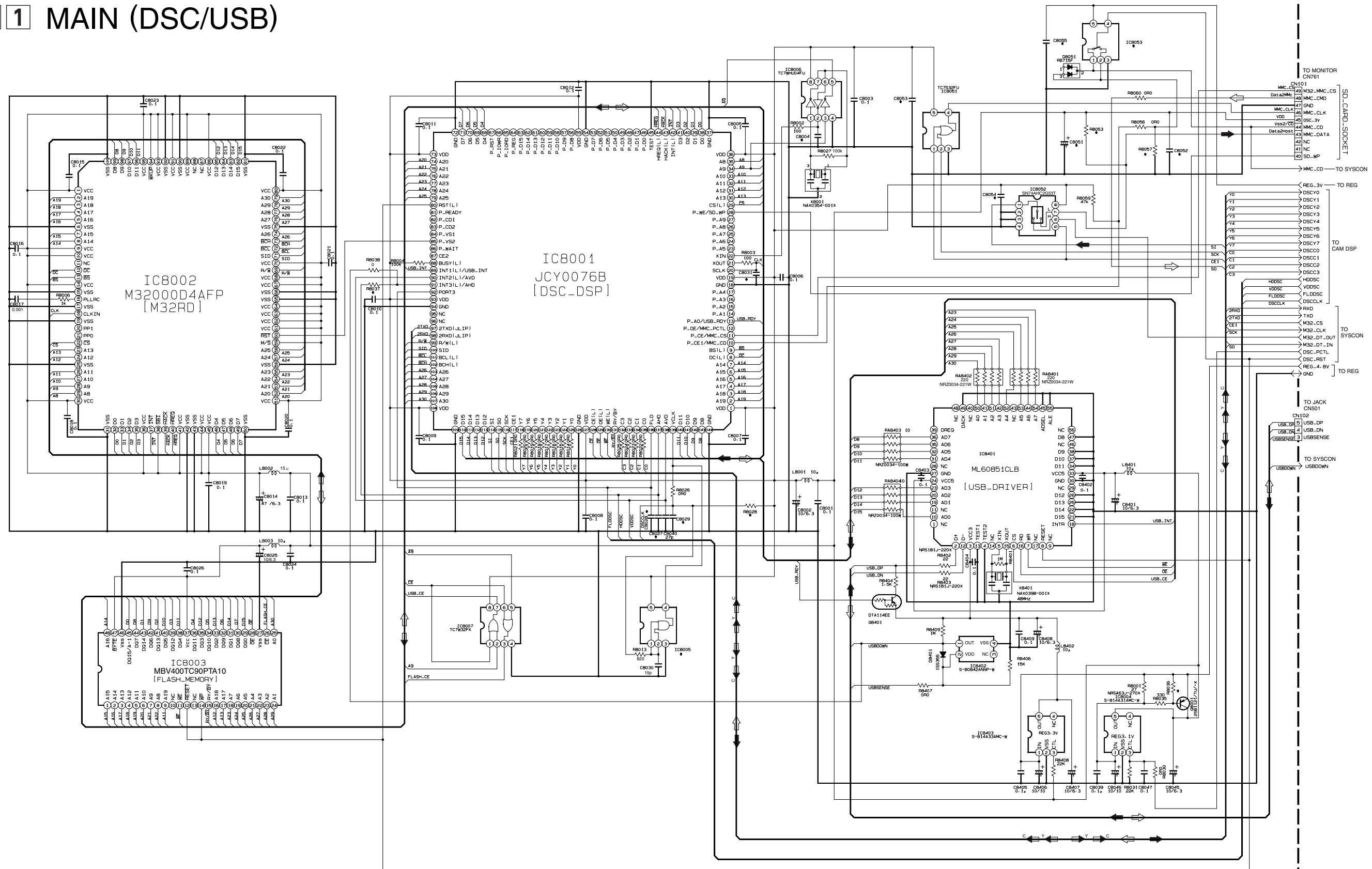
G

H

4.15 DSC/USB SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

0 1 MAIN (DSC/USB)

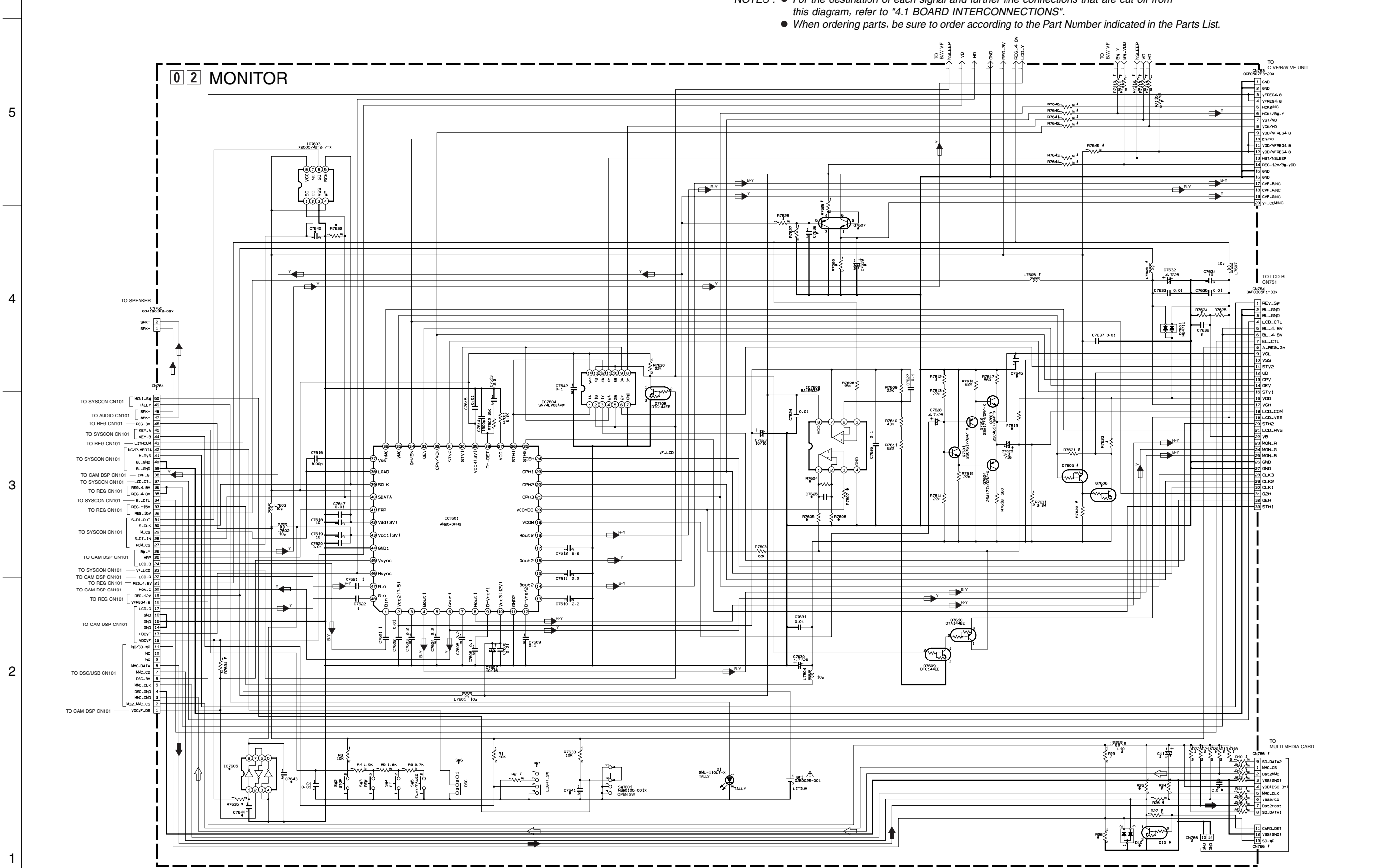


※ NO WEAR

y10193001a\_rev0

4.16 MONITOR SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



	R710	R711	R712	R713	R714	R715	R7607	R7606	R7607	R7608	R7609	R7640	R7641	R7642	R7643	R7644	R7645	R7646	R7638	R7639	
CVF MODEL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
B/W VF MODEL	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
	Q7605	Q7606	L7605	L7606	R7612	R7621	R7622	R7623	R7624	R7625	C7636										
2.5-INCH MODEL	●	●	●	●	●	●	●	●	●	●	●										
3/3.5-INCH MODEL	○	○	○	○	○	○	○	○	○	○	○										
	R7634	CN761	CN766	SW6	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R21	R22	R23	R24	R27	C11	L10
With DSC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Without DSC	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

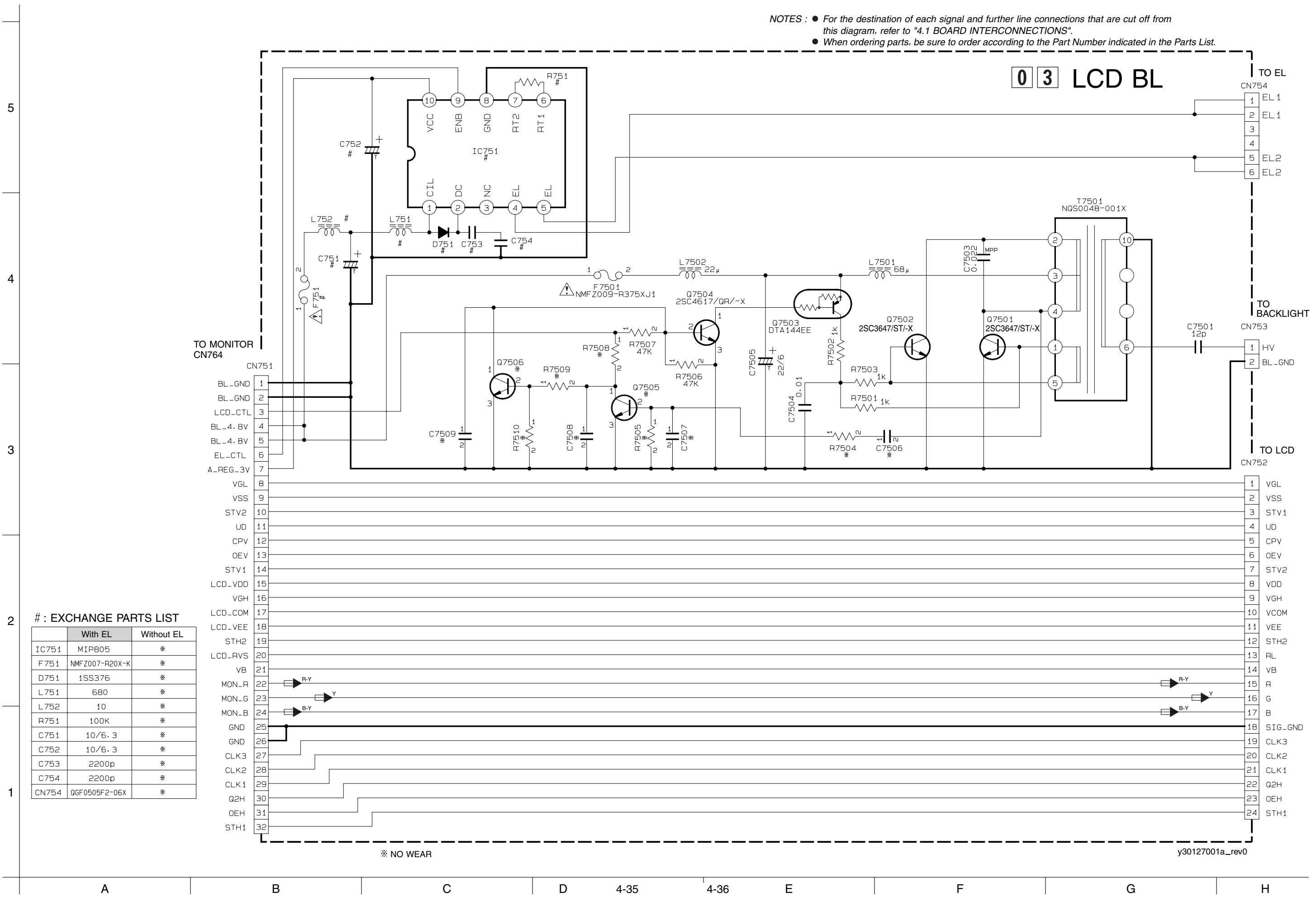
	R1	R2	SH1
With LIGHT	●	●	●
Without LIGHT	○	○	○

※ NO WEAR

y10194001a\_rev0

### 4.17 LCD BL SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



#### # : EXCHANGE PARTS LIST

	With EL	Without EL
IC751	MIP805	*
F751	NMF2007-R20X-K	*
D751	1SS376	*
L751	680	*
L752	10	*
R751	100K	*
C751	10/6.3	*
C752	10/6.3	*
C753	2200p	*
C754	2200p	*
CN754	GGF0505F2-06X	*

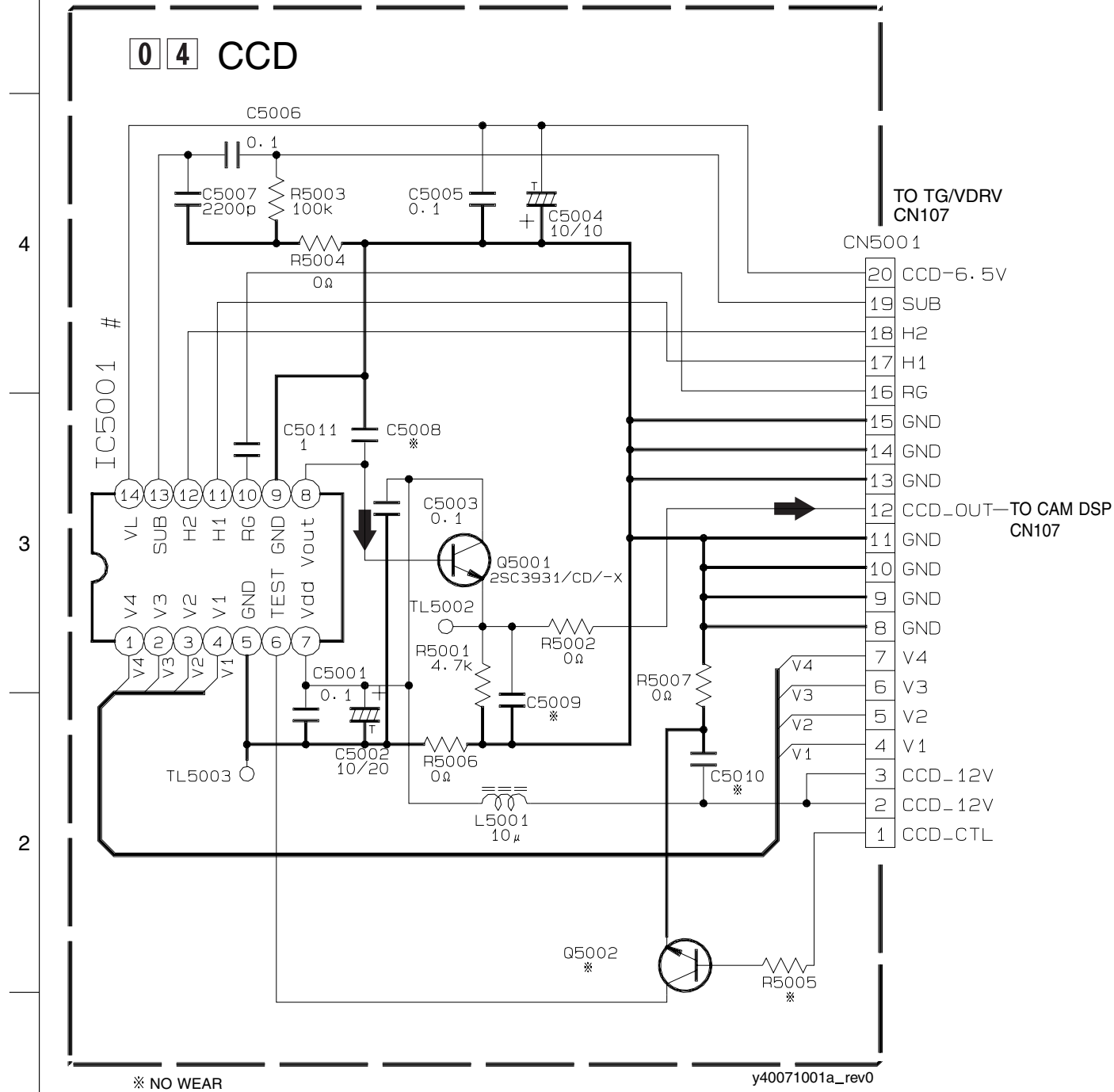
\* NO WEAR

y30127001a\_rev0

### 4.18 CCD SCHEMATIC DIAGRAM

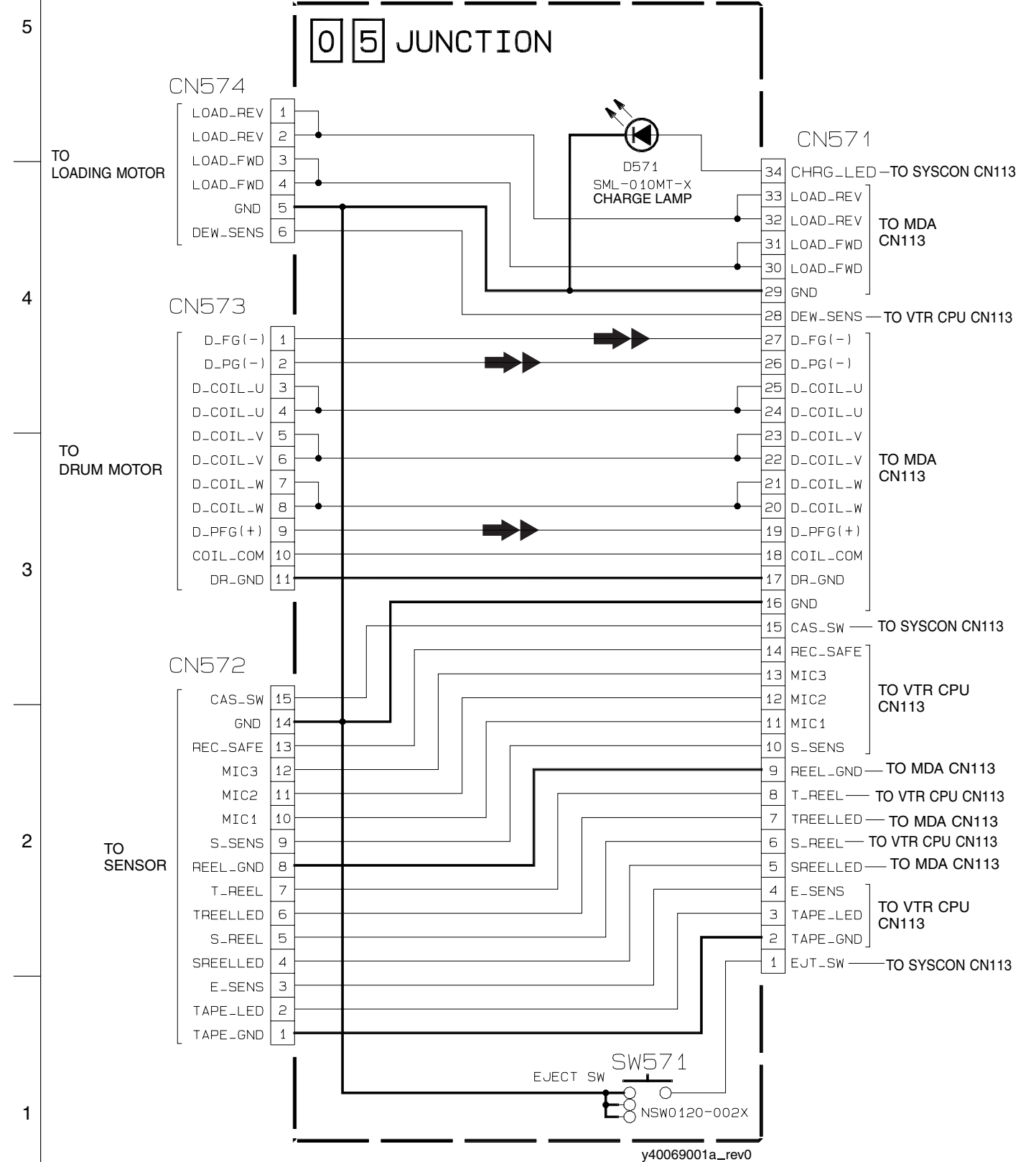
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

● 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.



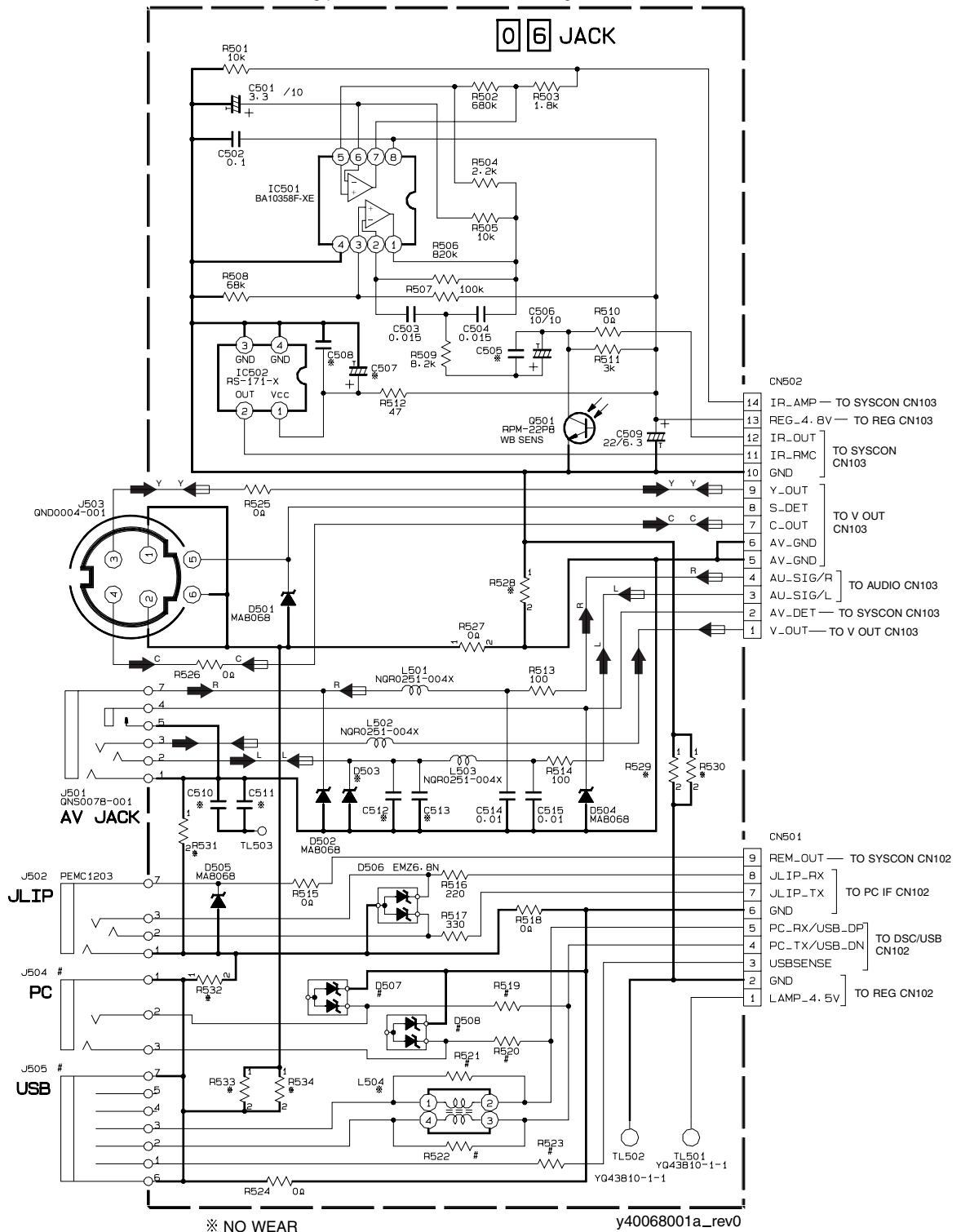
### 4.19 JUNCTION SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



## 4.20 JACK SCHEMATIC DIAGRAM

- NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

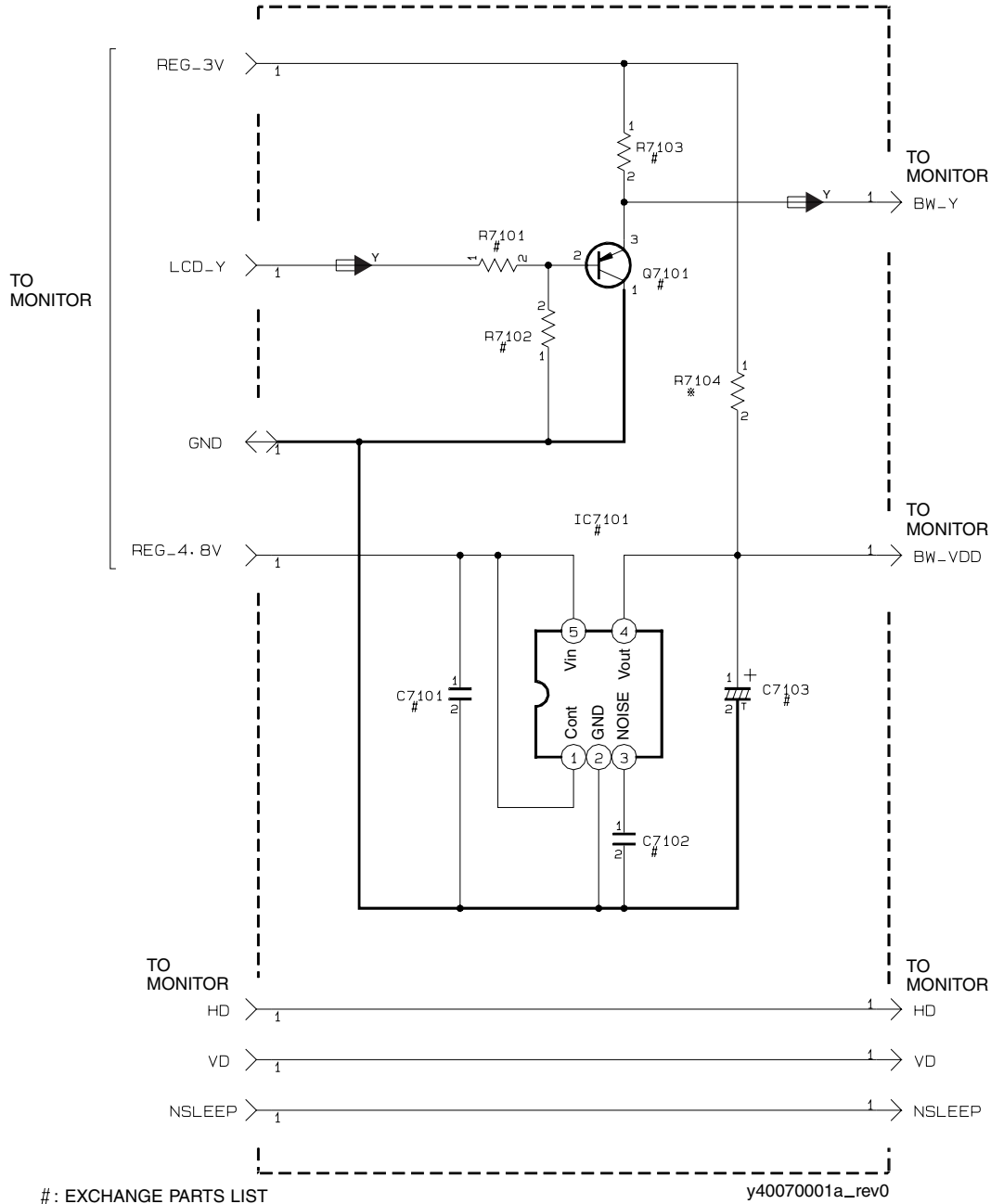


### # EXCHANGE PARTS LIST

	J504	J505	R519, R520	R521~ R523	D507, D508
Without DSC	QNS0152-001	*	330	*	EMZ6.8N-X
With DSC	*	QNZ0497-001	*	0Ω	*

## 4.21 B/W VF SCHEMATIC DIAGRAM

- NOTES :
- For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
  - When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



### #: EXCHANGE PARTS LIST

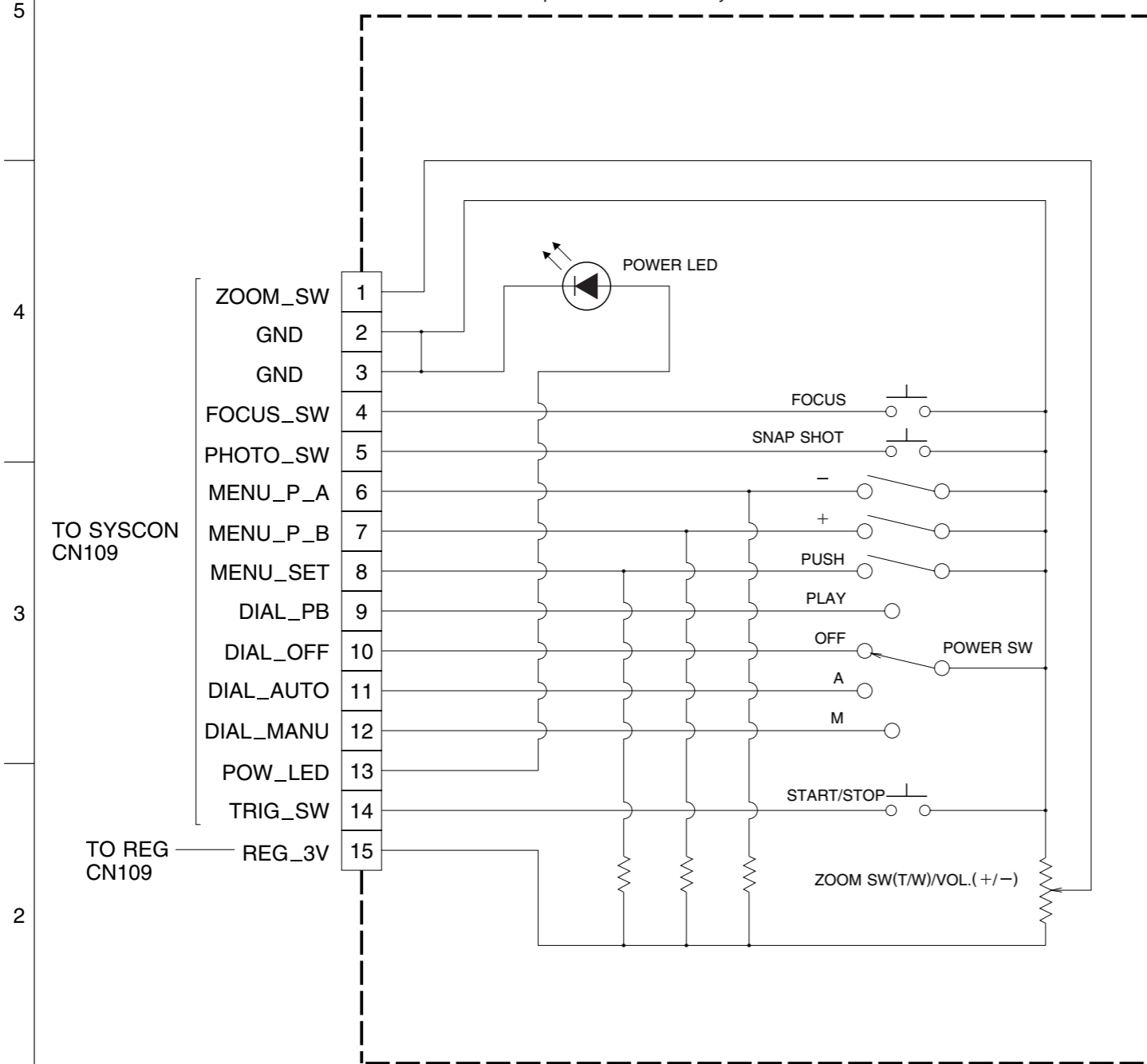
	CVF MODEL	B/W VF MODEL
IC7101	*	MM1385EN
Q7101	*	2SA1774/QR/-X
R7101	*	5.6K
R7102	*	5.6K
R7103	*	10K
C7101	*	0.1
C7102	*	0.01
C7103	*	4.7/6.3

y40070001a\_rev0

※ NO WEAR

#### 4.22 ZOOM UNIT SCHEMATIC DIAGRAM

NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".  
 ● The schematic diagram is only for reference. Avoid replacing individual parts. Replace the entire unit only.

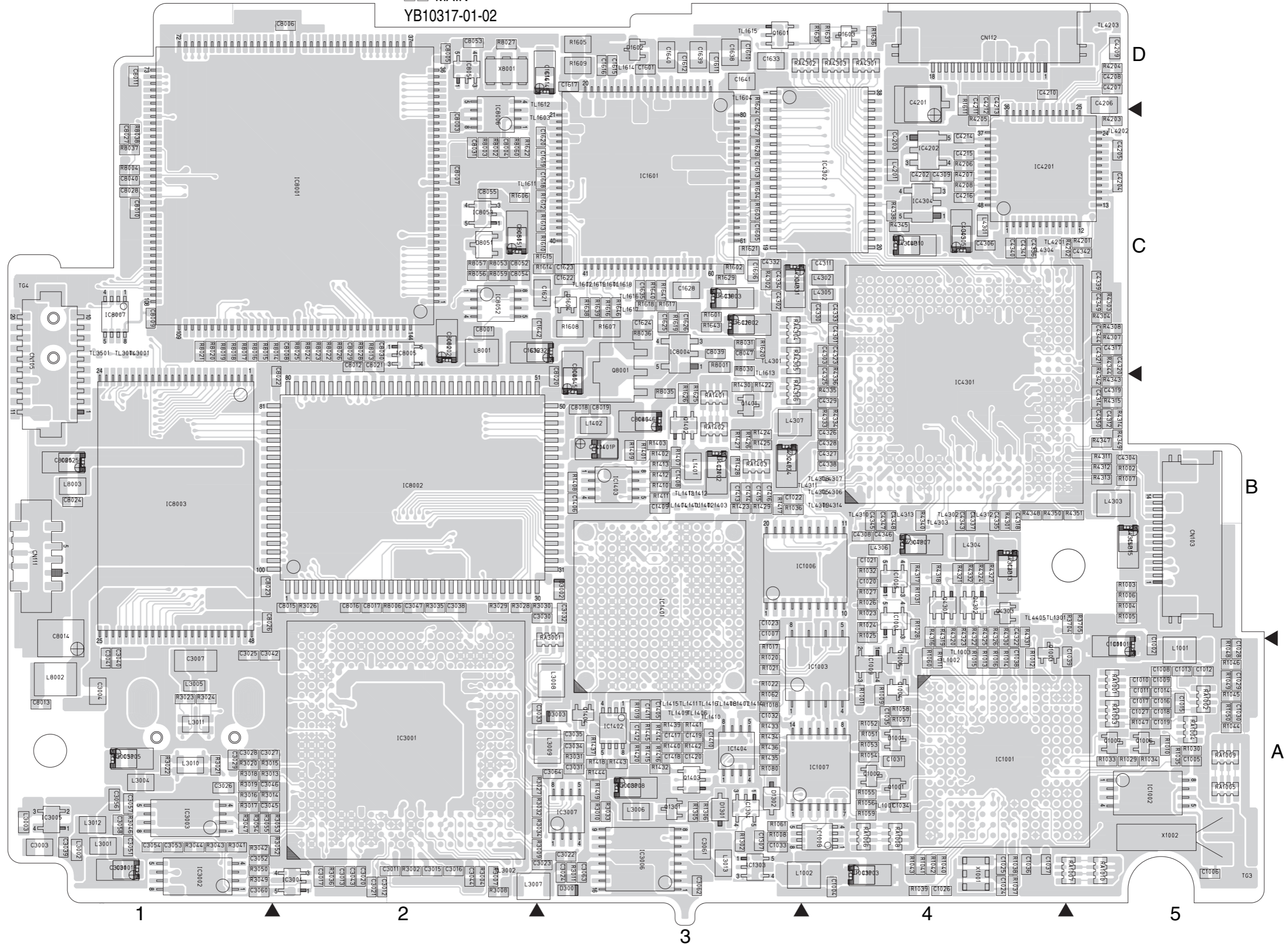




4.23 MAIN CIRCUIT BOARD

FOIL SIDE(B)

01 MAIN  
YB10317-01-02



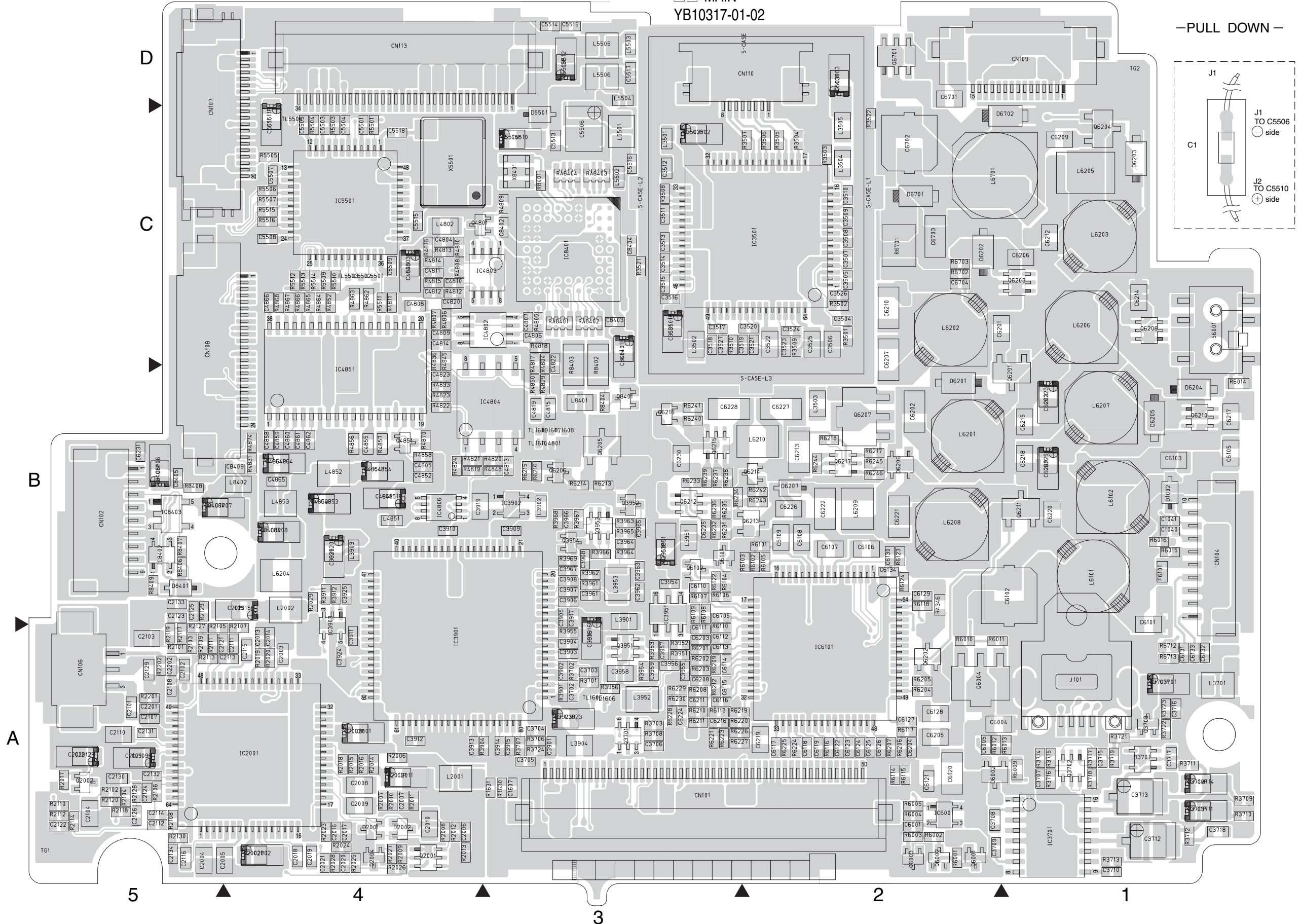
COMPONENT PARTS LOCATION GUIDE < MAIN >

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	
<b>CAPACITOR</b>																
C1001	B C 5A	C2003	A C 4A	C3061	B C 3A	C4209	B C 4D	C5509	A C 4C	C8012	B C 2C	IC1402	B C 3A	L5506	A C 3D	
C1002	B C 5A	C2004	A C 5A	C3063	B C 3A	C4210	B C 4D	C5510	A C 4C	C8013	B C 1A	IC1403	B C 3B	L6101	A C 1B	
C1003	B C 4A	C2005	A C 5A	C3064	B C 3A	C4211	B C 4D	C5511	A C 4C	C8014	B C 1B	IC1404	B C 3A	L6102	A C 1B	
C1004	B C 4A	C2006	A C 4A	C3501	A C 3C	C4212	B C 4D	C5512	A C 3D	C8015	B C 2B	IC1601	B C 3C	L6201	A C 2B	
C1005	B C 5A	C2007	A C 4A	C3502	A C 3C	C4213	B C 4D	C5513	A C 3C	C8016	B C 2B	IC2001	A C 4A	L6202	A C 2C	
C1006	B C 5A	C2008	A C 4A	C3503	A C 3C	C4214	B C 4C	C5514	A C 3D	C8017	B C 2B	IC3001	B C 2A	L6203	A C 1C	
C1007	B C 3B	C2009	A C 4A	C3504	A C 2C	C4215	B C 4C	C5515	A C 4C	C8018	B C 3B	IC3002	B C 1A	L6204	A C 4B	
C1008	B C 5A	C2010	A C 4A	C3505	A C 2C	C4216	B C 4C	C5516	A C 3C	C8019	B C 3B	IC3003	B C 1A	L6205	A C 1C	
C1009	B C 5A	C2011	A C 4A	C3506	A C 2C	C4301	B C 4C	C5517	A C 3D	C8020	B C 3B	IC3004	B C 2A	L6206	A C 1C	
C1010	B C 5A	C2012	A C 5A	C3507	A C 2C	C4302	B C 3C	C5518	A C 4C	C8021	B C 2C	IC3005	B C 1A	L6207	A C 1B	
C1011	B C 5A	C2013	A C 4A	C3508	A C 2C	C4303	B C 4C	C5519	A C 3D	C8022	B C 2B	IC3006	B C 3A	L6208	A C 2B	
C1012	B C 5A	C2014	A C 4A	C3509	A C 2C	C4304	B C 5B	C6001	A C 2A	C8023	B C 1B	IC3007	B C 3A	L6209	A C 2B	
C1013	B C 5A	C2015	A C 4B	C3510	A C 2C	C4305	B C 4C	C6004	A C 2A	C8024	B C 1B	IC3501	A C 2C	L6210	A C 2B	
C1014	B C 5A	C2016	A C 4A	C3511	A C 3C	C4306	B C 4C	C6005	A C 2A	C8025	B C 1B	IC3701	A C 1A	L6701	A C 2C	
C1015	B C 5A	C2017	A C 4A	C3512	A C 3C	C4307	B C 4B	C6101	A C 1B	C8026	B C 2B	IC3901	A C 4A	L8001	B C 2C	
C1016	B C 5A	C2018	A C 4A	C3513	A C 3C	C4308	B C 4B	C6102	A C 1B	C8027	B C 1C	IC3902	A C 3B	L8002	B C 1A	
C1017	B C 5A	C2019	A C 4A	C3514	A C 3C	C4309	B C 4C	C6103	A C 1B	C8028	B C 1C	IC3903	A C 4A	L8003	B C 1B	
C1018	B C 5A	C2020	A C 4A	C3515	A C 3C	C4310	B C 4C	C6105	A C 1B	C8029	B C 2C	IC3951	A C 3B	L8401	A C 3B	
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C1034	B C 4A	C2121	A C 5A	C3704	A C 3A	C4326	B C 4B	C6121	A C 2A	C8404	A C 3C	IC8003	B C 1B	Q1601	B C 3D	
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C1039	B C 5A	C2126	A C 5A	C3709	A C 2A	C4331	B C 3C	C6126	A C 2A	C8409	A C 4B	IC8051	B C 2D	Q3702	A C 1A	
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C1041	A C 1B	C2130	A C 5A	C3711	A C 1A	C4333	B C 3C	C6128	A C 2A	CN101	A C 3A	IC8052	B C 2C	Q3703	A C 1A	
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C1043	B C 3B	C2132	A C 5A	C3713	A C 1A	C4335	B C 4C	C6130	A C 2B	CN103	B C 5B	IC8401	A C 5B	Q3952	A C 3B	
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C1065	B C 3C	C3024	B C 3A	C3916	A C 3A	C4357	A C 4C	C6218	A C 1B	D3001	B C 3A	L3012	B C 1A	Q6208	A C 1C	
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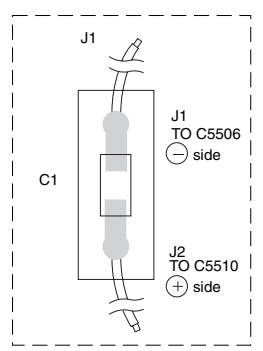
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R1023	B C 4B	R1612	B C 3C	R3028	B C 2B	R4316	B C 4B	R6012	A C 2A	R8028	B C 2C	TL4302	B C 4B
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R1025	B C 4B	R1614	B C 3C	R3030	B C 3B	R4318	B C 4B	R6014	A C 1B	R8031	B C 3C	TL4304	B C 4C
R1026	B C 4B	R1615	B C 3C	R3031	B C 3A	R4319	B C 4B	R6015	A C 1B	R8035	B C 3B	TL4305	B C 4B
R1027	B C 4B	R1616	B C 3C	R3032	B C 3A	R4320	B C 4B	R6016	A C 1B	R8036	B C 3C	TL4306	B C 4B
R1028	B C 4B	R1617	B C 3C	R3033	B C 3A	R4321	B C 4B	R6101	A C 2B	R8037	B C 1C	TL4307	B C 4B
R1029	B C 5A	R1618	B C 3C	R3034	B C 3A	R4322	B C 4B	R6102	A C 2B	R8038	B C 1C	TL4308	B C 4B
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R1032	B C 4B	R1621	B C 3C	R3041	B C 1A	R4325	B C 4B	R6105	A C 2B	R8057	B C 2C	TL4311	B C 4B
R1033	B C 5A	R1622	B C 2C	R3042	B C 1A	R4326	B C 4B	R6106	A C 3B	R8059	B C 2C	TL4312	B C 4B
R1034	B C 5A	R1624	B C 2C	R3043	B C 1A	R4327	B C 4B	R6107	A C 3B	R8060	B C 2C	TL4313	B C 4B
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R1039	B C 4A	R1630	A C 3A	R3050	B C 1A	R4334	B C 4B	R6114	A C 2A	R8406	A C 5B	TL5502	A C 4C
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R1059	B C 4A	R2015	A C 4A	R3704	A C 5B	R4809	A C 3C	R6213	A C 3B	RA4303	B C 4D		
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R1413	B C 3B	R2105	A C 5A	R3722	A C 1A	R4831	A C 4B	R6231	A C 3B	TL1401	B C 3B		
R1414	B C 3A	R2106	A C 5A	R3723	A C 1A	R4833	A C 4B	R6232	A C 3B	TL1402	B C 3B		
R1415	B C 3A	R2107	A C 4A	R3724	A C 3A	R4836	A C 4C	R6233	A C 3B	TL1403	B C 3B		
R1416	B C 3A	R2108	A C 5A	R3901	A C 3A	R4845	A C 4C	R6234	A C 3B	TL1404	B C 3B		
R1417	B C 3B	R2109	A C 5A	R3904	A C 4A	R4848	A C 3B	R6235	A C 3B	TL1406	B C 3A		
R1418	B C 3A	R2110	A C 5A	R3911	A C 4B	R4850	A C 3B	R6236	A C 3B	TL1407	B C 3A		
R1419	B C 3A	R2111	A C 5A	R3912	A C 4B	R4852	A C 4C	R6237	A C 3B	TL1408	B C 3A		
R1420	B C 3A	R2112	A C 5A	R3951	A C 3A	R4856	A C 4B	R6238	A C 3B	TL1409	B C 3A		
R1422	B C 3B	R2113	A C 5A	R3952	A C 3A	R4857	A C 4B	R6239	A C 3B	TL1410	B C 3A		
R1423	B C 3B	R2114	A C 5A	R3953	A C 3A	R4858	A C 4B	R6240	A C 3B	TL1411	B C 3A		
R1424	B C 3B	R2117	A C 5A	R3954	A C 3A	R4862	A C 4C	R6241	A C 3B	TL1412	B C 3B		
R1425	B C 3B	R2118	A C 5A	R3955	A C 3A	R4863	A C 4C	R6242	A C 2B	TL1413	B C 3B		
R1426	B C 3B	R2119	A C 5A	R3956	A C 3A	R4864	A C 4C	R6243	A C 2B	TL1414	B C 3A		
R1427	B C 3B	R2120	A C 5A	R3961	A C 3B	R4865	A C 4C	R6244	A C 2B	TL1415	B C 3A		
R1428	B C 3B	R2127	A C 5A	R3962	A C 3B	R4866	A C 4C	R6245	A C 2B	TL1416	B C 3A		
R1429	B C 3B	R2128	A C 5A	R3963	A C 3B	R4867	A C 4C	R6246	A C 2B	TL1601	B C 3C		
R1430	B C 3B	R2129	A C 5B	R3964	A C 3B	R4868	A C 4C	R6701	A C 2C	TL1602	B C 3C		
R1432	B C 3A	R2130	A C 5A	R3965	A C 3B	R4870	A C 4B	R6702	A C 2C	TL1603	B C 3C		
R1433	B C 3A	R2201	A C 5A	R3966	A C 3B	R4874	A C 4B	R6703	A C 2C	TL1604	B C 3D		
R1434	B C 3A	R2202	A C 5A	R3967	A C 3B	R5501	A C 4C	R6712	A C 1A	TL1605	A C 3A		
R1435	B C 3A	R3002	B C 2A	R3968	A C 3B	R5503	A C 4C	R6713	A C 1A	TL1606	A C 3A		
R1436	B C 3A	R3004	B C 2A	R3969	A C 3B	R5504	A C 4C	R8001	B C 3C	TL1607	A C 3B		
R1437	B C 3A	R3007	B C 2A	R4201	B C 5C	R5505	A C 4C	R8002	B C 2C	TL1608	A C 3B		
R1439	B C 3A	R3008	B C 2A	R4202	B C 5C	R5506	A C 4C	R8003	B C 2C	TL1609	A C 3B		
R1440	B C 3A	R3009	B C 3A	R4203	B C 5C	R5507	A C 4C	R8004	B C 1C	TL1610	A C 3B		
R1441	B C 3A	R3010	B C 3A	R4204	B C 5D	R5509	A C 4C	R8006	B C 2B	TL1611	B C 2C		
R1442	B C 3A	R3011	B C 3A	R4205	B C 4C	R5510	A C 4C	R8013	B C 2C	TL1612	B C 3D		
R1443	B C 3A	R3013	B C 2A	R4206	B C 4C	R5511	A C 4C	R8014	B C 2C	TL1613	B C 3B		
R1444	B C 3A	R3014	B C 2A	R4207	B C 4C	R5512	A C 4C	R8015	B C 1C	TL1615	B C 3D		
R1445	B C 3A	R3015	B C 2A	R4208	B C 4C	R5513	A C 4C	R8016	B C 1C	TL1616	B C 3C		
R1601	B C 3C	R3016	B C 1A	R4301	B C 4B	R5514	A C 4C	R8017	B C 1C	TL1617	B C 3C		
R1602	B C 3C	R3017	B C 1A	R4302	B C 3C	R5515	A C 4C	R8018	B C 1C	TL1618	B C 3C		
R1603	B C 3C	R3018	B C 1A	R4303	B C 5C	R5516	A C 4C	R8019	B C 1C	TL1619	B C 3C		
R1604	B C 3C	R3019	B C 1A	R4304	B C 5C	R6001	A C 2A	R8020	B C 1C	TL3001	B C 1C		
R1605	B C 3D	R3020	B C 1A	R4307	B C 5C	R6002	A C 2A	R8021	B C 1C	TL3002	B C 2A		
R1606	B C 2C	R3021	B C 1A	R4308	B C 5C	R6003	A C 2A	R8022	B C 2C	TL3004	B C 1C		
R1607	B C 3C	R3022	B C 1A	R4311	B C 5B	R6004	A C 2A	R8023	B C 2C	TL3501	B C 1C		
R1608	B C 3C	R3023	B C 1A	R4312	B C 5B	R6005	A C 2A	R8024	B C 2C	TL4201	B C 4C		

COMPONENT SIDE(A)

0 1 MAIN  
YB10317-01-02

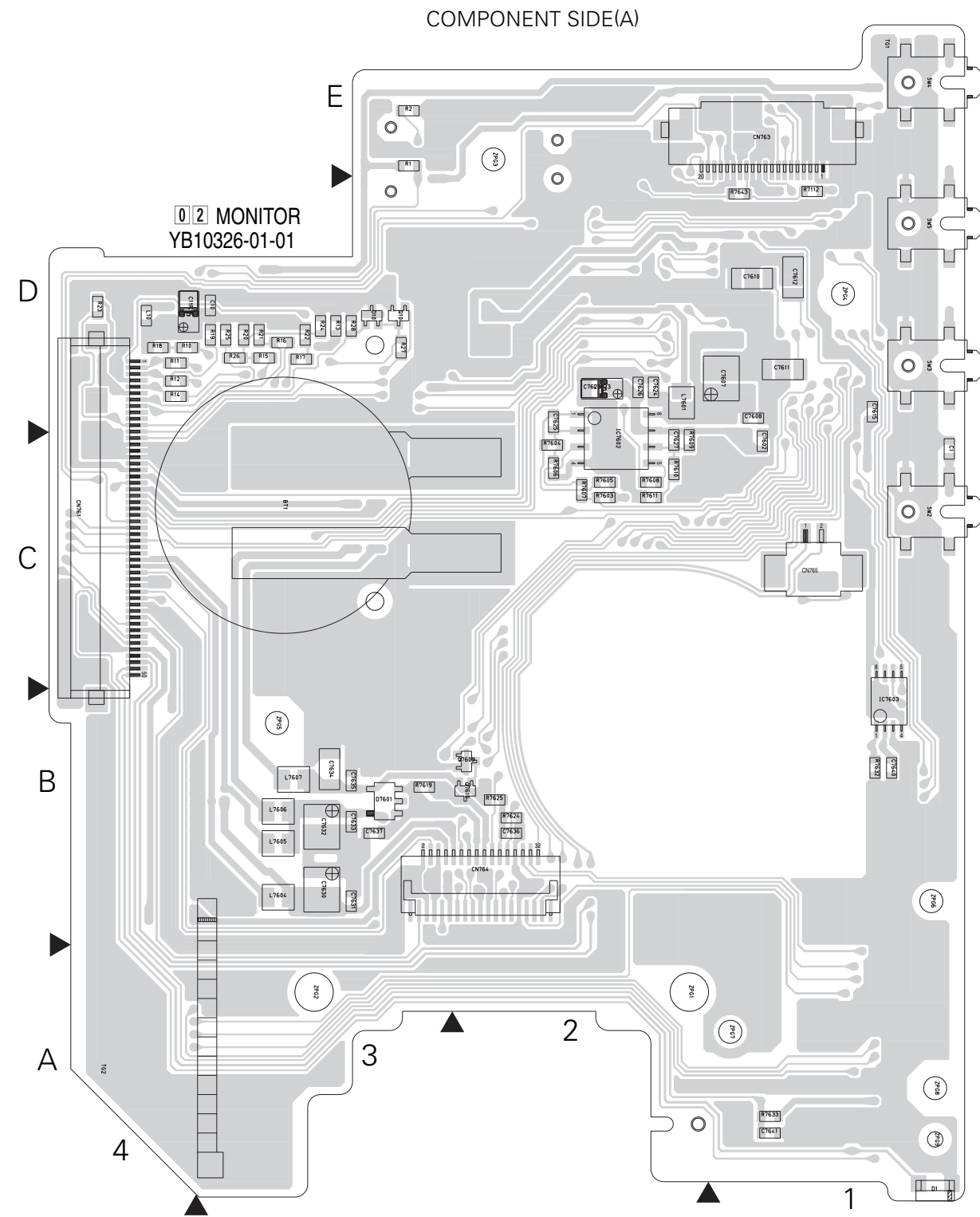
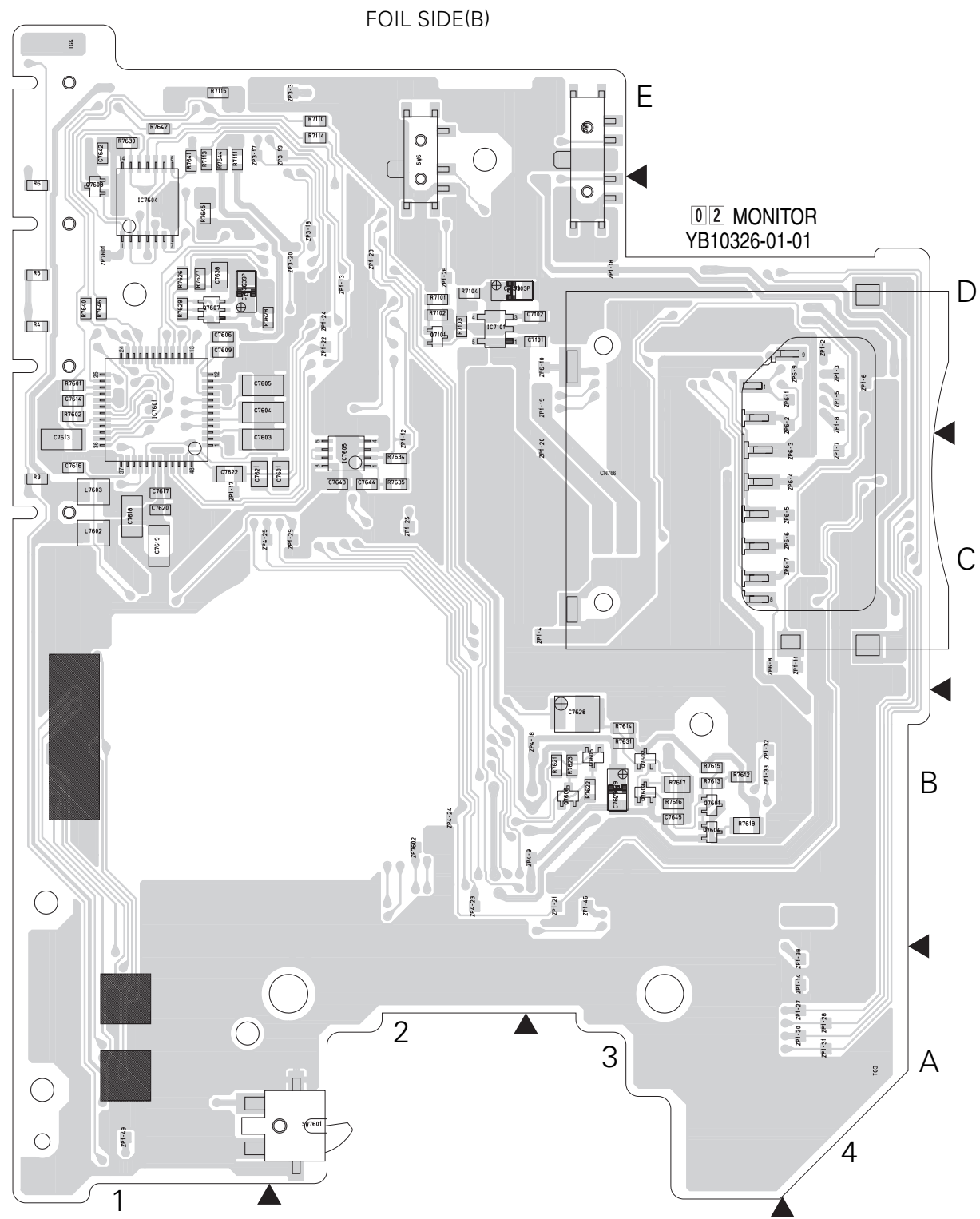


-PULL DOWN-



5 4 3 2 1

4.24 MONITOR CIRCUIT BOARD [GR-DVL355EG/EK, DVL357EG/EK]



COMPONENT PARTS LOCATION GUIDE < MONITOR >

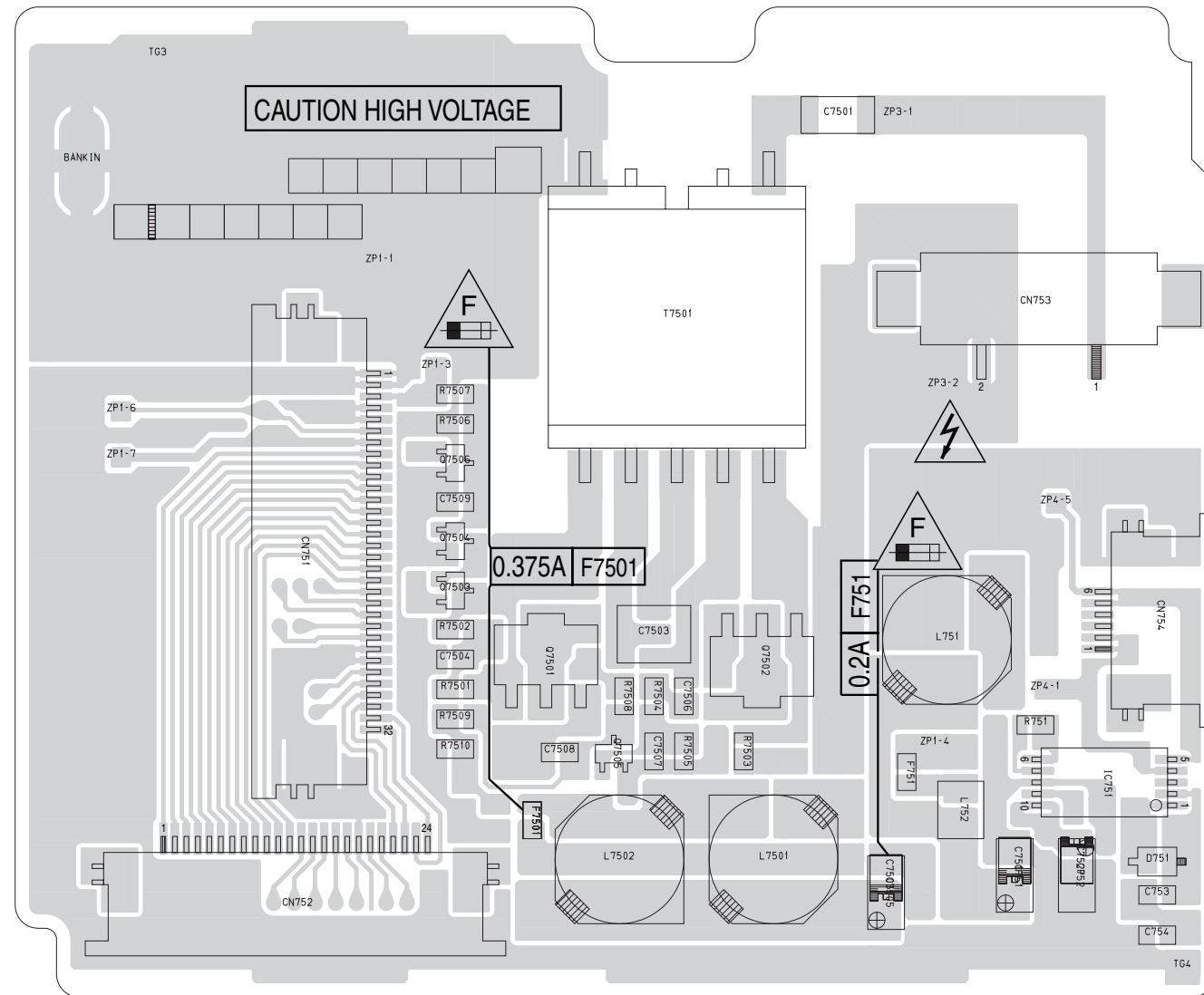
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<b>CAPACITOR</b>																															
C1	A C C	C7609	B C	C7624	A C	C7639	B C	D1	A A	L7602	B C	Q7607	B C	R14	A C	R7606	A C	R7641	B C	SW3	A C	ZP3-3	B C	ZP1-17	B C	ZP1-32	B C	ZP7602	B C		
C10	A C C	C7610	A C	C7625	A C	C7640	A C	D10	A C	L7603	B C	Q7608	B C	R15	A C	R7607	A C	R7642	B C	SW4	A C	ZP3-9	B C	ZP1-18	B C	ZP1-33	B C	ZPG1	A D		
C11	A B C C	C7611	A C	C7626	A C	C7641	A C	D7601	A C	L7604	A C	Q7609	A C	R16	A C	R7608	A C	R7643	A C	SW5	A C	ZP6-1	B C	ZP1-19	B C	ZP1-34	B C	ZPG2	A D		
C7101	A B C C	C7612	A C	C7627	A C	C7642	B C			L7605	A C	Q7610	A C	R17	A C	R7609	A C	R7644	B C	SW6	B C	ZP6-2	B C	ZP1-20	B C	ZP1-35	B C	ZPG3	A D		
C7102	B B C C	C7613	B C	C7628	A B	C7643	B C	<b>RESISTOR</b>										R18	A C	R7610	A C	R7645	B C	ZP6-3	B C	ZP1-21	B C	ZP1-46	B C	ZPG4	A D
C7103	B B C C	C7614	B C	C7629	A B	C7644	B C	R19	A C	L7606	A C	Q7611	B C	R20	A C	R7611	A C	R7646	B C	TM1	A C	ZP6-4	B C	ZP1-22	B C	ZP1-36	B C	ZPG5	A D		
C7601	B C C	C7615	A C	C7630	A C	C7645	B C	R21	A C	L7607	B C	Q7612	A C	R22	A C	R7612	A C			TM3	A C	ZP6-5	B C	ZP1-23	B C	ZP1-37	B C	ZPG6	A D		
C7602	A C C	C7616	B C	C7631	A C	<b>CONNECTOR</b>										R23	A C	R7613	B C	TM3	A C	ZP6-6	B C	ZP1-24	B C	ZP1-38	B C	ZPG7	A D		
C7603	B C C	C7617	B C	C7632	A C	CN761	A C	Q10	A C	IC7601	B C	Q7101	B C	R24	A C	R7614	B C	TM3	A C	TM3	A C	ZP6-7	B C	ZP1-25	B C	ZP1-39	B C	ZPG8	A D		
C7604	B C C	C7618	B C	C7633	A C	CN763	A C	Q7601	B C	IC7602	A C	Q7601	B C	R25	A C	R7615	B C	TM3	A C	TM3	A C	ZP6-8	B C	ZP1-26	B C	ZP1-40	B C	ZPG9	A D		
C7605	B C C	C7619	B C	C7634	A C	CN764	A C	Q7602	B C	IC7603	A C	Q7602	B C	R26	A C	R7616	B C	TM3	A C	TM3	A C	ZP6-9	B C	ZP1-27	B C	ZP1-41	B C				
C7606	B C C	C7620	B C	C7635	A C	CN765	A C	Q7603	B C	IC7604	B C	Q7603	B C	R27	A C	R7617	B C	TM3	A C	TM3	A C	ZP6-10	B C	ZP1-28	B C	ZP1-42	B C				
C7607	A C C	C7621	B C	C7636	A C	CN766	B C	Q7604	B C	IC7605	A C	Q7604	B C	R28	A C	R7618	B C	TM3	A C	TM3	A C	ZP6-11	B C	ZP1-29	B C	ZP1-43	B C				
C7608	A C	C7622	B C	C7637	A C			Q7605	B C	L10	A C	Q7605	B C			R7619	A C	TM3	A C	TM3	A C	ZP6-12	B C	ZP1-30	B C	ZP1-44	B C				
		C7623	A C	C7638	A C			Q7606	B C	L7601	A C	Q7606	B C			R7621	B C	TM3	A C	TM3	A C	ZP6-13	B C	ZP1-31	B C	ZP1-45	B C				



4.26 LCD BL CIRCUIT BOARD [GR-DVL355EG/EK, DVL357EG/EK]

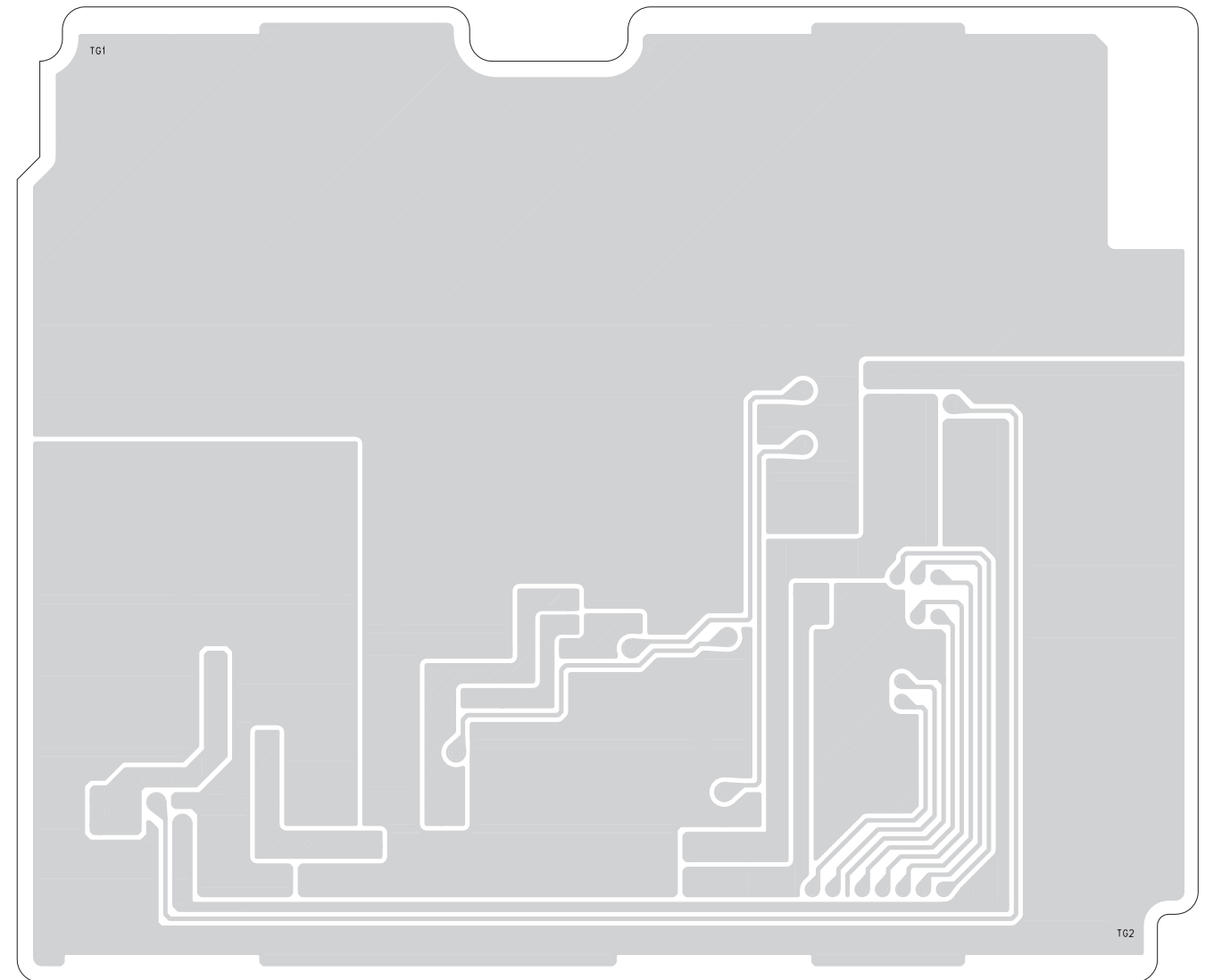
03 LCD BL  
YB10325

FOIL SIDE(B)



COMPONENT SIDE(A)

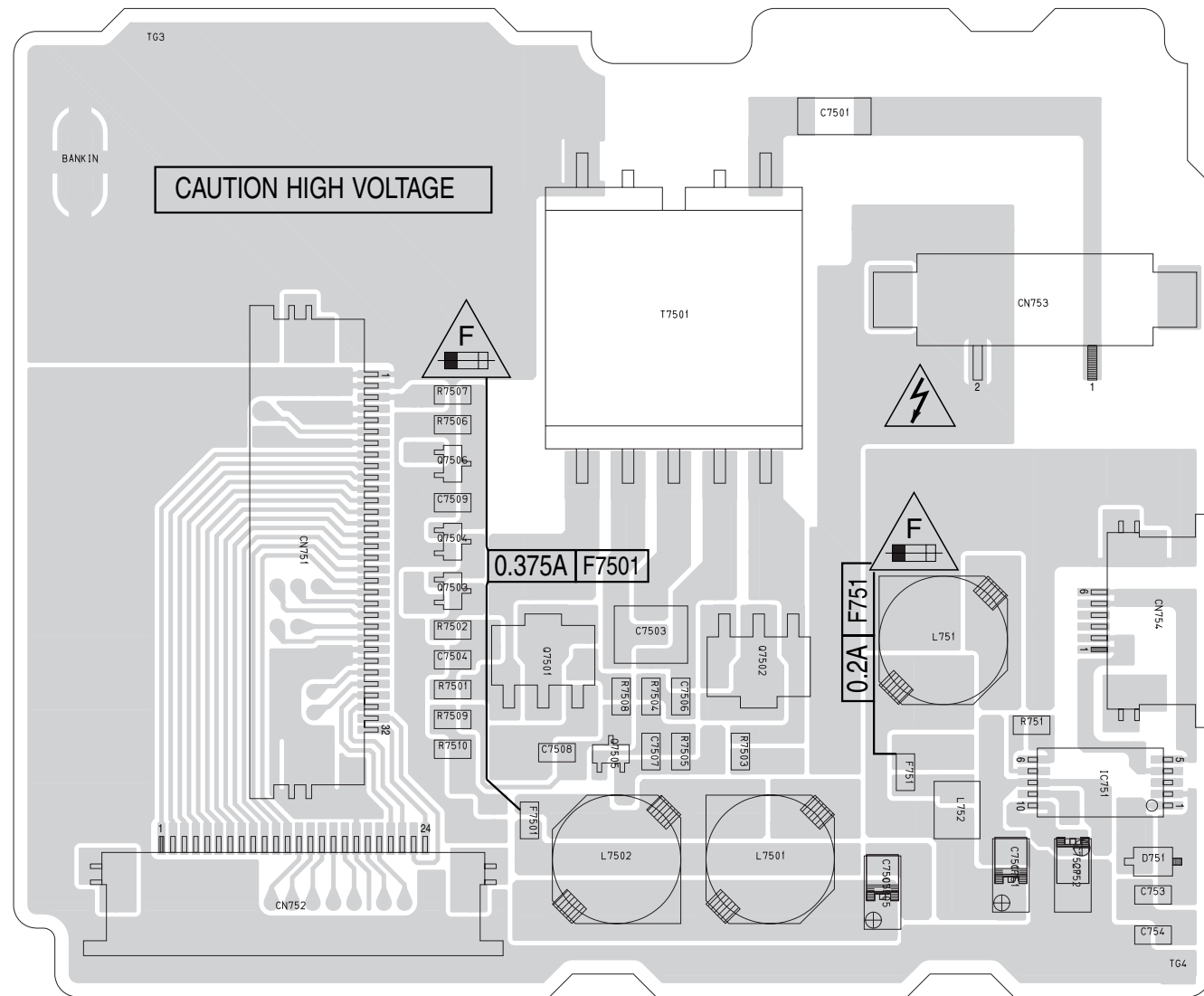
03 LCD BL  
YB10325



4.27 LCD BL CIRCUIT BOARD [GR-DVL555EG/EK, DVL557EG/EK]

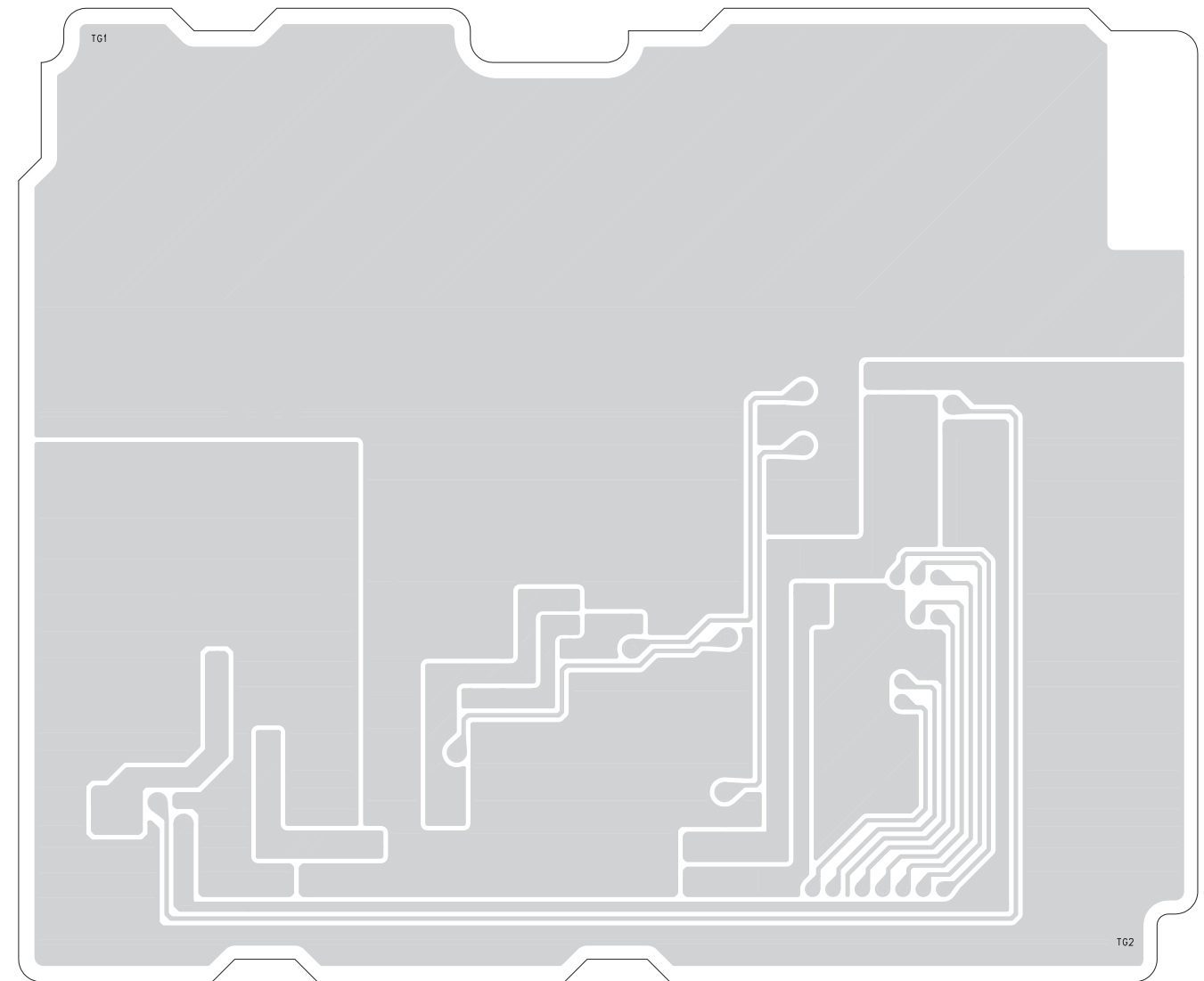
FOIL SIDE(B)

03 LCD BL  
YB10324-01-02



COMPONENT SIDE(A)

03 LCD BL  
YB10324-01-02

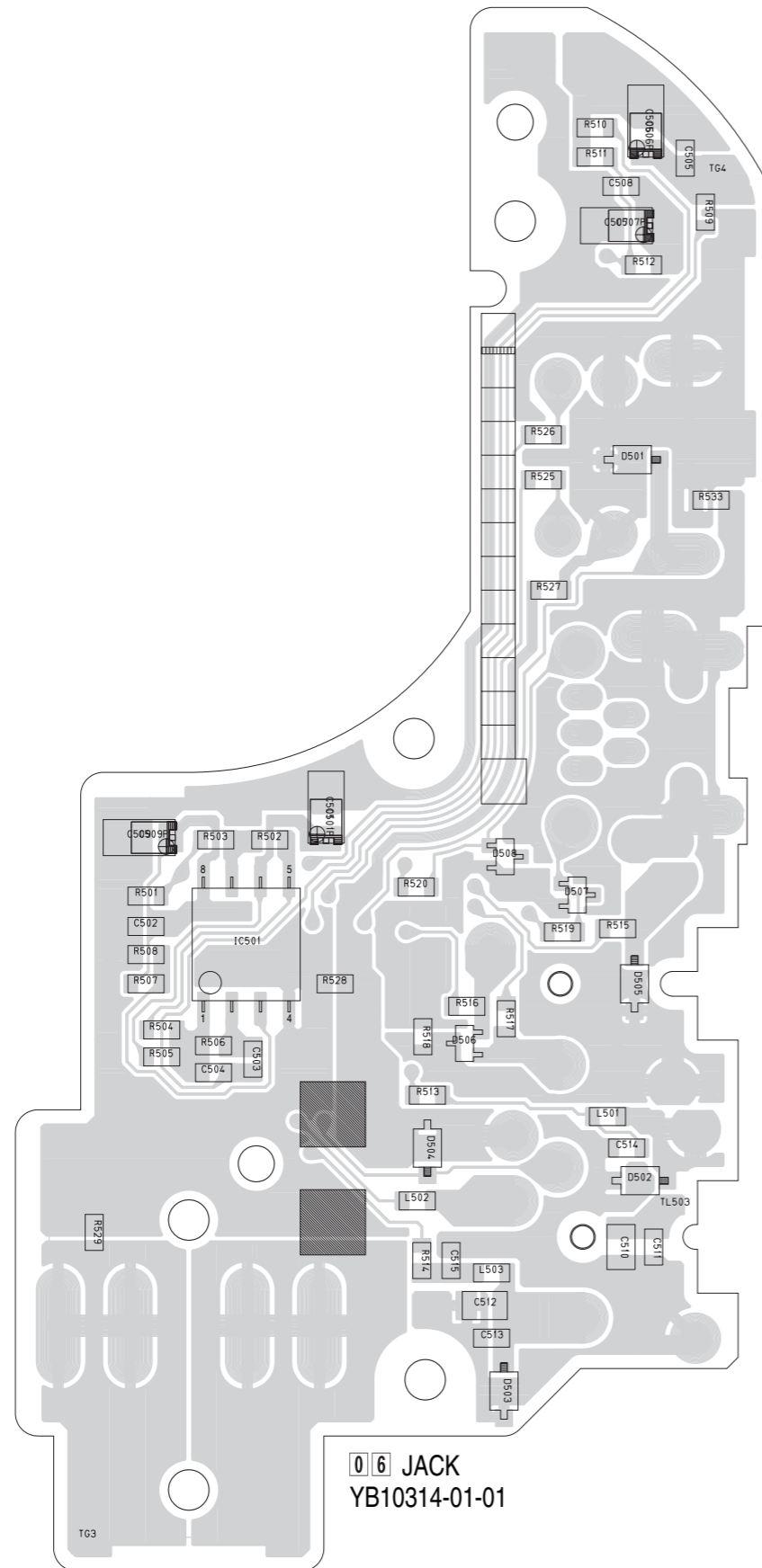




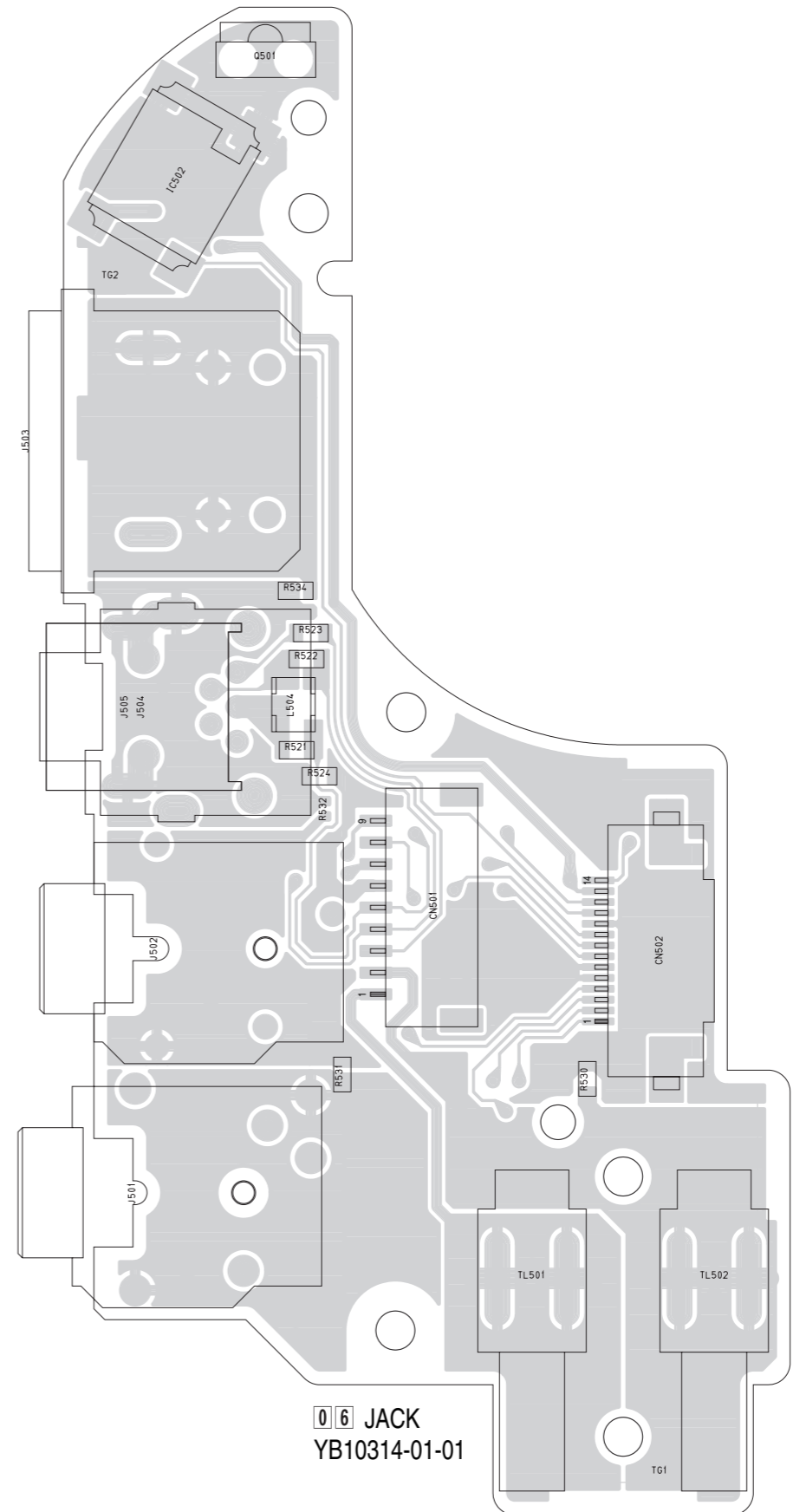


4.29 JACK CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)



### 4.30 VOLTAGE CHARTS

#### <SYSCON>

MODE PIN NO.	REC	PLAY
IC1001	-	-
IC1002		
1	0	0
2	3.0	3.0
3	1.5	1.5
4	0	0
5	2.9	2.9
6	0.5	0.5
7	0.5	0.5
8	3.1	3.1
IC1003		
1	3.0	3.0
2	0.7	0.7
3	2.9	3.0
4	0	0
5	0.6	0.7
6	3.0	3.0
7	2.9	2.9
8	2.9	2.9
IC1004		
1	1.4	1.4
2	0	0
3	1.3	1.3
4	0	0
5	3.0	3.0
IC1005		
1	0	0
2	3.0	3.0
3	0	0
4	3.0	3.0
5	3.0	3.0
IC1006		
1	2.7	2.7
2	0.5	0.5
3	0	0
4	3.0	3.0
5	3.0	3.0
6	3.0	3.0
7	1.3	1.3
8	1.4	1.4
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	2.9	2.9
20	2.7	2.7
IC1007		
1	3.0	3.0
2	3.0	3.0
3	3.0	3.0
4	3.0	3.0
5	3.0	3.0
6	3.0	3.0
7	0	0
8	3.0	3.0
9	3.0	3.0
10	3.0	3.0

MODE PIN NO.	REC	PLAY
11	1.3	1.3
12	1.5	1.5
13	3.0	3.0
14	3.0	3.0
IC1008		
1	3.0	3.0
2	1.0	1.0
3	0	0
4	0	0
5	0	0.5
6	3.0	3.0
7	0	0
8	3.0	0
IC1009		
1	0	0
2	0	0
3	3.0	3.0
4	3.0	3.0
Q1001		
E	0	0
C	0	0
B	0	0
Q1002		
E	0	0
C	3.0	3.0
B	0.6	0.6
Q1003		
E	0	0
C	0.5	0.5
B	0	0
Q1004		
E	3.1	3.1
C	0	0
B	3.1	3.1
Q1005		
E	0	0
C	3.1	3.1
B	0	0
Q1006		
E	2.9	0
C	2.9	0
B	0	3.0
Q1007		
E	0	0
C	0	3.0
B	3.1	0

#### <PC IF>

MODE PIN NO.	REC	PLAY
IC1303		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	3.0	3.0
IC1304		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	3.0	3.0

MODE PIN NO.	REC	PLAY
Q1301		
E	0	0
C	0	0
B	0	0

#### <VTR CPU>

MODE PIN NO.	REC	PLAY
IC1401	-	-
IC1403		
1	3.0	3.0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	3.0	3.0
8	3.0	3.0
IC1404		
1	-	-
2	2.9	2.9
3	-	-
4	0	0
5	-	-
6	0	0
7	-	-
8	2.9	2.9
Q1401		
1	3.0	3.0
2	3.0	3.0
3	3.0	3.0
Q1402		
1(E)	0	0
2(B)	3.0	3.0
3(E)	3.0	3.0
4(C)	2.7	2.7
5(C)	0	0
Q1403		
1(E)	0	0
2(B)	0	0
3(E)	3.0	3.0
4(C)	0	0
5(C)	3.0	3.0
Q1404		
1	0	0
2	0	0
3	3.0	3.0

#### <MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	0.8	0.8
3	0.8	0
4	0	0
5	0.8	0
6	0	0
7	0	0

MODE PIN NO.	REC	PLAY
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	4.7	4.7
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0.4	0.4
21	0	0
22	0	0
23	0.9	0.9
24	11.0	11.0
25	1.5	1.5
26	0	0
27	1.5	1.5
28	1.5	1.5
29	1.5	1.5
30	1.5	1.5
31	1.5	1.5
32	1.5	1.5
33	1.4	0
34	1.4	0
35	0	0
36	2.9	2.9
37	0	0
38	0.6	0.6
39	0	0.6
40	0	1.2
41	1.5	0
42	0.5	0.7
43	2.9	2.9
44	0	0
45	0	0
46	0	0
47	0.9	2.9
48	0	0
49	2.9	2.9
50	1.9	1.9
51	0	0
52	1.6	1.6
53	0	1.1
54	0.4	0.7
55	0.6	0.6
56	0.7	0.7
57	1.0	1.0
58	0.6	0.6
59	0	0
60	1.0	1.0
61	2.6	0
62	0	1.2
63	0	1.5
64	0	1.5
65	0	1.4
66	0	0
67	0	1.5
68	0.4	0
69	0	0
70	0	0.8

MODE PIN NO.	REC	PLAY
71	0	0.8
72	0	0.8
73	0.8	0
74	1.1	0
75	0	0
76	0	0
77	0	0
78	0	1.7
79	0	0
80	0	0
Q1601		
1(E)	0	0
2(B)	0	0
3(E)	4.8	4.8
4(C)	0	0
5(C)	4.8	4.8

#### <AUDIO>

MODE PIN NO.	REC	PLAY
IC2001		
1	2.0	2.0
2	2.0	2.0
3	2.0	2.0
4	2.0	2.0
5	1.5	1.5
6	1.5	1.5
7	1.5	1.5
8	0	0
9	3.0	3.0
10	1.5	1.5
11	1.5	1.5
12	1.5	1.5
13	1.5	1.5
14	1.5	1.5
15	1.5	1.5
16	1.5	1.5
17	1.5	1.5
18	1.5	0
19	1.5	2.3
20	2.3	2.3
21	1.5	1.4
22	2.3	2.3
23	2.3	2.3
24	4.7	4.7
25	2.3	2.3
26	0	0
27	2.9	2.9
28	0	0
29	1.5	1.5
30	1.5	1.5
31	1.5	1.7
32	2.9	1.7
33	3.0	3.0
34	1.5	1.5
35	1.5	1.5
36	1.5	1.5
37	3.0	3.1
38	2.4	3.1
39	0	0
40	2.4	2.4

MODE PIN NO.	REC	PLAY
41	0	0
42	0	0
43	4.8	4.8
44	1.5	1.5
45	2.0	2.0
46	2.0	2.0
47	2.0	2.0
48	2.0	2.0
49	2.0	2.0
50	2.0	2.0
51	2.0	2.0
52	2.6	2.6
53	2.0	2.0
54	2.0	2.0
55	4.0	4.0
56	2.0	2.0
57	0	0
58	4.0	4.0
59	2.0	2.0
60	2.0	2.0
61	2.0	2.0
62	2.0	2.0
63	2.0	2.0
64	2.0	2.0
Q2001		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	0	0
5(B)	0	0
6(C)	0	0
Q2002		
E	4.1	4.1
C	4.8	4.8
B	4.7	4.7
Q2004		
E	0	0
C	0	0
B	0.7	0.7

#### <DV MAIN>

MODE PIN NO.	REC	PLAY
IC3001	-	-
IC3002		
1	0	0.4
2	0	0
3	0	0
4	0.5	1.5
5	0.7	0
6	2.9	0
7	0	0
8	3.0	2.9
IC3003		
1	3.0	2.9
2	1.0	0.9
3	0	0
4	0	0
5	0	0
6	0.5	1.5
7	2.3	2.3

MODE PIN NO.	REC	PLAY
8	3.0	2.9
IC3004		
1	0.5	0
2	0.5	0
3	0	0
4	0.8	2.9
5	2.9	2.9
IC3006		
1	2.9	2.9
2	0	0
3	0	0
4	0	0
5	2.9	2.9
6	0	0
7	1.0	1.5
8	1.3	0.7
9	1.3	1.3
10	0	0
11	0	0
12	2.9	2.9
13	0	0
14	0	0
15	0.5	0.5
16	0	0

#### <PRE/REC>

MODE PIN NO.	REC	PLAY
IC3501		
1	0	0
2	1.1	1.1
3	0	0
4	0	0
5	0	2.5
6	3.3	0
7	1.4	0
8	0	0
9	1.6	3.0
10	0	1.6
11	3.0	0
12	0	0
13	4.8	4.8
14	0	0
15	0	0
16	0	0
17	0	0
18	3.7	1.7
19	3.4	1.7
20	3.5	0
21	3.7	1.7
22	0	0
23	3.7	1.7
24	3.5	1.7
25	3.5	1.7
26	3.7	1.7
27	0	0
28	2.3	2.5
29	3.4	1.7
30	3.4	1.7
31	2.4	2.5
32	0	0

MODE PIN NO.	REC	PLAY
33	0	0
34	0	0
35	1.8	1.8
36	0.4	0
37	3.0	3.0
38	0	3.0
39	3.0	3.0
40	1.5	1.5
41	0	3.0
42	3.0	0
43	4.8	4.8
44	2.9	0
45	0	0
46	0	1.9
47	0	2.0
48	4.7	3.0
49	4.4	2.8
50	0.4	1.6
51	1.2	1.2

MODE PIN NO.	REC	PLAY
Q3954		
E	0	0
C	4.8	4.8
B	0	0

<CAM DSP>

MODE PIN NO.	REC	PLAY
IC4201		
1	0	0
2	1.1	0
3	1.1	0
4	1.0	0
5	0.7	0
6	0.7	0
7	2.2	3.0
8	0.5	0
9	0.7	0
10	0.4	0
11	0	0
12	0	0
13	0	0
14	0	0
15	2.9	3.0
16	1.2	0
17	2.8	0
18	2.1	0
19	0	0
20	2.4	0
21	0	0
22	0	0
23	3.0	0
24	0	0
25	0	0
26	1.9	0
27	1.4	0
28	1.9	0
29	2.1	0
30	0	0
31	3.0	3.0
32	1.9	0
33	0.9	0
34	1.4	0
35	1.2	0
36	0	0
37	0	0
38	3.0	3.0
39	0	0
40	0	0
41	3.0	3.0
42	0	0
43	3.0	3.0
44	3.0	0
45	0	1.5
46	3.0	3.0
47	0	0
48	0	0
IC4202		
1	4.8	4.8
2	0	0
3	1.2	1.2

<OP DRIVE>

MODE PIN NO.	REC	PLAY
4	3.0	3.0
5	4.8	4.8
IC4301	-	-
IC4302		
1	0	0
2	0	1.4
3	1.4	0.9
4	0.9	0.9
5	0.9	0.9
6	0.9	0.9
7	0.8	0.8
8	1.2	1.2
9	1.2	1.3
10	1.8	1.9
11	1.0	1.1
12	1.2	1.0
13	1.2	1.1
14	1.3	1.1
15	1.3	1.4
16	0	0
17	2.7	2.6
18	2.9	2.9
19	0	3.0
20	0	0
21	3.0	3.0
22	2.7	2.7
23	2.7	2.7
24	0	0
25	1.3	1.5
26	1.5	1.4
27	1.4	1.3
28	1.3	1.3
29	1.2	1.2
30	1.8	1.8
31	1.5	1.5
32	1.4	1.3
33	1.1	1.1
34	1.2	1.3
35	1.1	0
36	1.1	1.2
37	1.6	1.6
38	0	0
Q4301		
1(E)	0.9	0.9
2(E)	0.9	0.9
3(B)	0	0
4(C)	0	0
5(B)	0	0
6(C)	0	0
Q4302		
1(E)	1.2	1.2
2(E)	0	0.9
3(B)	0	0
4(C)	0	0
5(B)	0.6	0.6
6(C)	0	0

MODE PIN NO.	REC	PLAY
IC4802		
1	2.9	2.9
2	2.6	2.6
3	2.6	2.6
4	0	0
5	2.6	2.6
6	2.6	2.6
7	2.6	2.6
8	4.7	4.7
IC4803		
1	1.0	1.0
2	0	0
3	0	0
4	0	0
5	2.6	2.6
6	2.6	2.6
7	2.4	3.3
8	4.7	4.8
IC4804		
1	2.2	0
2	2.4	3.0
3	2.4	2.9
4	0	0
5	1.8	3.0
6	1.8	3.0
7	1.2	0
8	4.7	4.8
IC4806		
1	2.4	3.0
2	2.4	3.0
3	2.4	3.0
4	0	0
5	3.0	3.0
6	0.6	0
7	0.6	0
8	3.0	3.0
IC4851		
1	0	0
2	0.6	0.6
3	0	0.4
4	0.4	0
5	0	0.4
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	0	0
21	0.7	0
22	0	0
23	4.8	4.8
24	0	0
25	0	0
26	0	0

MODE PIN NO.	REC	PLAY
27	4.8	4.8
28	0	0
29	0	0
30	0	0
31	3.0	3.0
32	0	0
33	0	0
34	1.3	1.5
35	3.0	3.0
36	1.4	1.4
37	1.4	1.4
38	3.1	3.1
Q4801		
E	0	0
C	2.3	2.3
B	1.0	1.0
Q4851		
E	0	0
C	3.8	3.8
B	0	0

<TG/DRV>

MODE PIN NO.	REC	PLAY
IC5501		
1	-0.5	-0.7
2	2.4	0
3	2.9	0
4	2.9	2.9
5	0	0
6	2.9	2.9
7	0	0
8	0.5	0
9	0	0
10	2.9	2.9
11	1.4	0
12	2.9	2.9
13	0	0
14	1.2	0
15	0	0
16	2.9	2.9
17	2.2	0
18	2.2	0
19	2.2	0
20	0	0
21	0	0
22	0	0
23	0	0
24	2.9	2.9
25	1.3	0
26	3.0	3.0
27	0	0
28	1.2	1.8
29	0	0
30	1.3	1.5
31	0	0
32	0	0
33	2.9	2.9
34	1.5	0
35	1.2	0
36	2.9	0

MODE PIN NO.	REC	PLAY
37	2.9	0
38	3.0	3.0
39	0	0
40	0	0
41	-6.3	0
42	0	11.9
43	11.9	11.9
44	-6.2	11.9
45	-6.6	-6.7
46	-6.6	0
47	0	0
48	2.9	0

<REG>

MODE PIN NO.	REC	PLAY
IC6001		
1	8.0	8.0
2	10.4	10.4
3	0	0
4	0	0
IC6101		
1	3.1	3.1
2	3.1	3.1
3	3.1	3.1
4	1.5	1.5
5	3.1	3.1
6	0	0
7	1.3	1.3
8	11.0	11.0
9	1.0	1.0
10	1.2	1.2
11	2.1	2.1
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	2.2	2.2
20	0.9	0.9
21	0	0
22	2.2	2.2
23	1.0	1.0
24	0.6	0.6
25	1.0	1.0
26	0.5	0.5
27	1.0	1.0
28	0.8	0.8
29	1.0	1.0
30	0.9	0.9
31	0	0
32	0	0
33	0.5	0.5
34	0	0
35	0	0
36	0.5	0.5
37	0.8	0.8
38	0	0
39	1.0	1.0

MODE PIN NO.	REC	PLAY
40	0	0
41	2.4	2.4
42	1.1	1.1
43	0	0
44	2.1	2.1
45	2.1	2.1
46	2.1	2.1
47	8	8
48	1.0	1.0
49	1.1	1.1
50	2.1	2.1
51	11.0	11.0
52	0	0
53	10.2	10.2
54	9.4	9.4
55	4.7	4.7
56	6.1	6.1
57	9.3	9.3
58	7.9	7.9
59	0	0
60	11.0	11.0
61	0	0
62	10.3	10.3
63	1.3	1.3
64	1.0	1.0
Q6001		
E	0	0
C	0	0
B	3.0	3.0
Q6002		
D	10.4	10.4
S	0	0
G	0	0
Q6003		
D	0	0
S	4.1	4.1
G	0	3.1
Q6004		
E	11.0	11.0
C	3.0	3.0
B	10.4	10.4
Q6101		
D	0	0
S	0	0
G	3.0	3.0
Q6201		
D	3.0	3.0
S	11.0	11.0
G	7.9	7.9
Q6202		
E	0	3.0
C	2.5	2.5
B	2.3	2.3
Q6203		
1(D)	1.8	1.8
2(D)	1.8	1.8
3(G)	9.3	9.3
4(S)	11.0	11.0
5(D)	1.8	1.8

MODE PIN NO.	REC	PLAY
6(D)	1.8	1.8
Q6204		
D	4.8	4.8
S	11.0	11.0
G	6.2	6.2
Q6205		
E	4.8	4.8
C	0	0
B	4.8	4.8
Q6206		
E	0	0
C	4.8	4.8
B	0	0
Q6207		
E	0	0
C	4.8	4.8
B	0	0
Q6208		
1(D)	1.7	1.7
2(D)	1.7	1.7
3(G)	9.4	9.4
4(S)	11.0	11.0
5(D)	1.7	1.7

MODE PIN NO.	REC	PLAY
24	1.0	1.0
25	0	0
26	1.0	1.0
27	1.0	1.0
28	1.0	1.0
29	1.0	1.0
30	1.0	1.0
31	0	0
32	0.8	0.6
33	0.8	0.6
34	0.8	0.6
35	0.8	0.6
36	1.0	1.0
37	0	1.0
38	1.0	1.0
39	1.0	1.0
40	1.0	1.0
41	1.0	1.0
42	0	0
43	0	0
44	1.0	1.0
45	1.0	1.0
46	0.9	0.6
47	0.9	0.6
48	0.9	0.6
49	0.9	0.6
50	0	0
51	1.0	1.0
52	1.0	1.0
53	1.0	1.0
54	1.0	1.0
55	1.0	1.0
56	0	0
57	1.3	1.0
58	1.0	1.0
59	0	0
60	0	0
61	1.0	1.0
62	1.0	1.0
63	1.0	1.0
64	1.0	1.0
65	0	0
66	0	0
67	1.0	1.0
68	1.0	1.0
69	1.0	1.0
70	1.0	1.0
71	1.0	1.0
72	1.0	1.0
73	0	1.0
74	0	1.0
75	1.0	0
76	0	1.0
77	0	1.0
78	0	1.0
79	0	1.0
80	1.0	1.0
81	1.0	0
82	0	0
83	1.0	1.0
84	0	0
85	1.0	1.0
86	1.0	1.0

MODE PIN NO.	REC	PLAY
87	1.0	1.0
88	1.0	1.0
89	1.0	1.0
90	0	0
91	1.0	1.0
92	0	0
93	1.0	1.0
94	0	1.0
95	1.0	1.0
96	0	0
97	0	0
98	0	0
99	0	0
100	0	0
IC8003		
1	1.0	1.0
2	1.0	1.0
3	1.0	1.0
4	1.0	1.0
5	1.0	1.0
6	1.0	1.0
7	1.0	1.0
8	1.0	1.0
9	1.0	1.0
10	0	0
11	1.0	1.0
12	0	0
13	0	0
14	0	0
15	0.7	0.7
16	1.0	1.6
17	1.0	1.0
18	1.0	1.0
19	1.0	1.0
20	1.0	1.0
21	1.0	0
22	1.0	1.0
23	1.0	1.0
24	1.0	1.0
25	1.0	1.0
26	1.0	1.0
27	0	0
28	1.0	1.0
29	0	0
30	0	0
31	1.0	1.0
32	0.9	0.7
33	1.0	1.0
34	0.9	0.7
35	1.0	1.0
36	0.8	0.8
37	1.0	1.0
38	0	0
39	0.9	0.7
40	0	0
41	0.9	0.7
42	0	0
43	0.9	0.7
44	0	0
45	0.9	0.7
46	0	0
47	1.0	1.0
48	1.0	1.0

MODE PIN NO.	REC	PLAY
IC8004		
1	4.8	0
2	0	0
3	0	0
4	0	0
5	1.0	1.0
IC8006		
1	0.5	0.5
2	0.5	0.5
3	1.0	1.0
4	0	0
5	0	0
6	0.6	0.6
7	0.6	0.6
8	1.0	1.0
IC8007		
1	1.0	1.0
2	1.0	1.0
3	1.0	1.0
4	0	0
5	0	0
6	1.0	1.0
7	1.0	1.0
8	1.0	1.0
IC8051		
1	0.7	0.7
2	1.0	1.0
3	0	0
4	1.0	1.0
5	1.0	1.0
IC8052		
1	0.5	0.5
2	0	0
3	0	0
4	0	0
5	0.7	0.7
6	0	0
7	0	0
8	1.0	1.0
IC8401	-	-
IC8402		
1	0	0
2	0	0
3	0	0
4	0	0
Q8001		
E	4.8	4.8
C	1.0	1.0
B	4.8	4.8
Q8401		
E	3.3	3.3
C	0	3.3
B	1.5	1.5

<JACK>

MODE PIN NO.	REC	PLAY
IC501		
1	1.9	1.9
2	1.9	1.9
3	1.9	1.9
4	0	0
5	1.9	1.9
6	1.9	1.9
7	1.4	1.4
8	4.8	4.8
IC502		
1	0	0
2	0	0
3	4.8	4.8
4	4.8	4.8
Q501		
E	0	0
C	4.2	4.2
B	-	-

<B/W VF>

MODE PIN NO.	REC	PLAY
IC7101	-	-
Q7101	-	-

<MONITOR>

MODE PIN NO.	EE
IC7601	
1	0
2	7.1
3	2.4
4	2.4
5	2.4
6	2.4
7	2.4
8	2.4
9	2.4
10	0
11	0
12	5.9
13	0
14	6.0
15	6.0
16	6.0
17	6.0
18	6.0
19	6.0
20	1.7
21	1.4
22	0
23	1.2
24	0.4
25	0
26	1.1
27	0.9
28	1.3
29	2.9
30	1.1
31	0
32	0.5
33	0
34	0
35	0
36	3.0
37	0
38	0
39	3.0
40	0.9
41	1.5
42	2.9
43	2.9
44	0
45	2.9
46	2.7
47	2.4
48	0
IC7602	
1	11.8
2	0.5
3	0.5
4	0
5	4.8
6	4.8
7	7.1
8	11.9
IC7603	
1	0.7
2	3.1
3	0
4	3.0

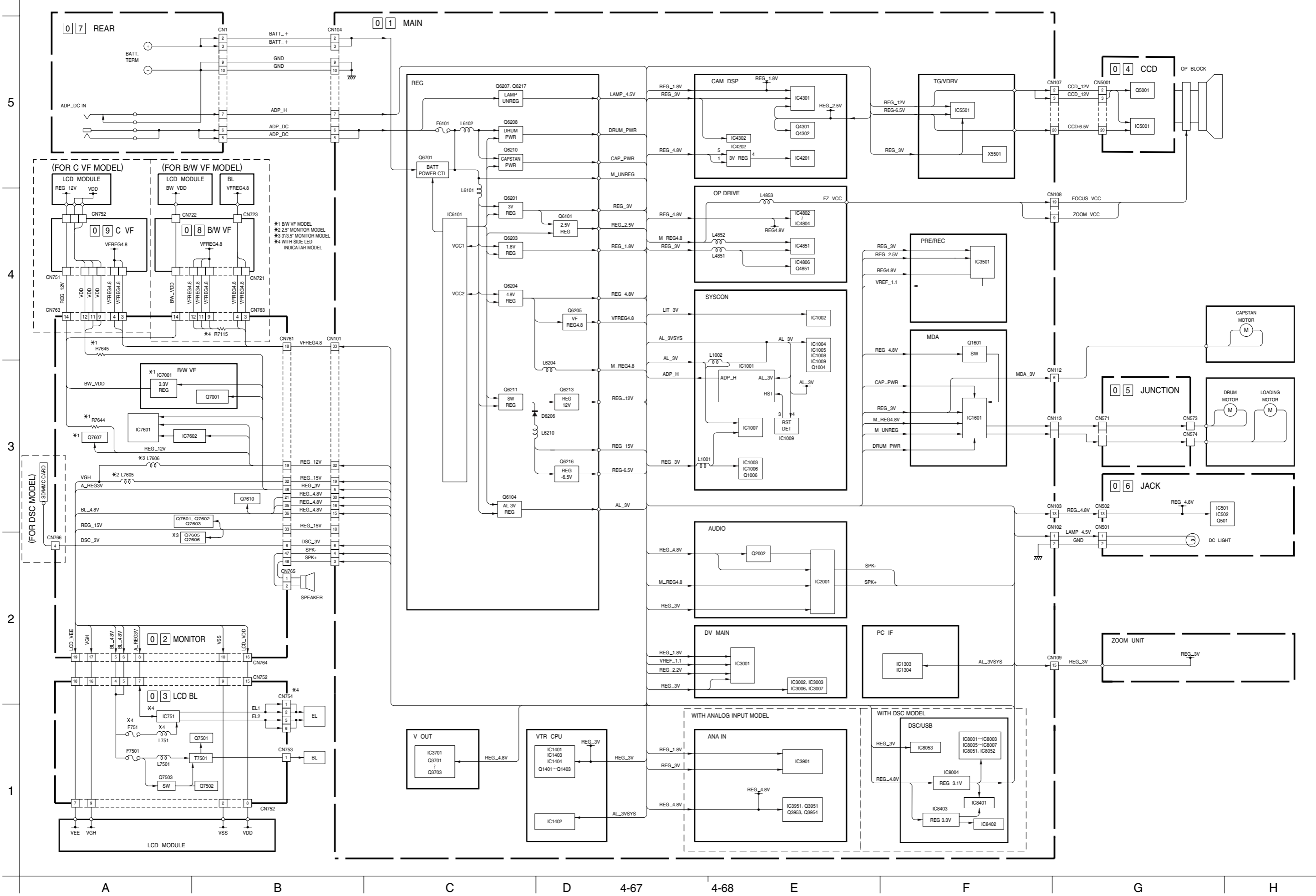
<LCD BL>

MODE PIN NO.	EE
5	3.0
6	0.7
7	0
8	0
IC7604	
1	1.0
2	3.0
3	2.3
4	1.0
5	3.1
6	0
7	0
8	0
9	1.0
10	0
11	0
12	0
13	0
14	3.0
Q7601	
E	-9.1
C	0
B	-8.6
Q7602	
E	0
C	0
B	-8.5
Q7603	
E	-8.6
C	0
B	-8.2
Q7604	
E	-8.6
C	-14.7
B	-9.1
Q7605	
E	2.9
C	2.9
B	0
Q7606	
E	0
C	0
B	2.9
Q7607	
1(E)	0
2(B)	6.3
3(C)	0
4(E)	6.3
5(B)	5.7
6(C)	11.9
Q7608	
E	0
C	0
B	3.1
Q7609	
E	0
C	4.7
B	0
Q7610	
E	4.8
C	1.4
B	4.7

<CCD>

MODE PIN NO.	EE
Q5001	
E	0
C	8.1
B	0

### 4.31 POWER SYSTEM BLOCK DIAGRAM



A

B

C

D

4-67

4-68

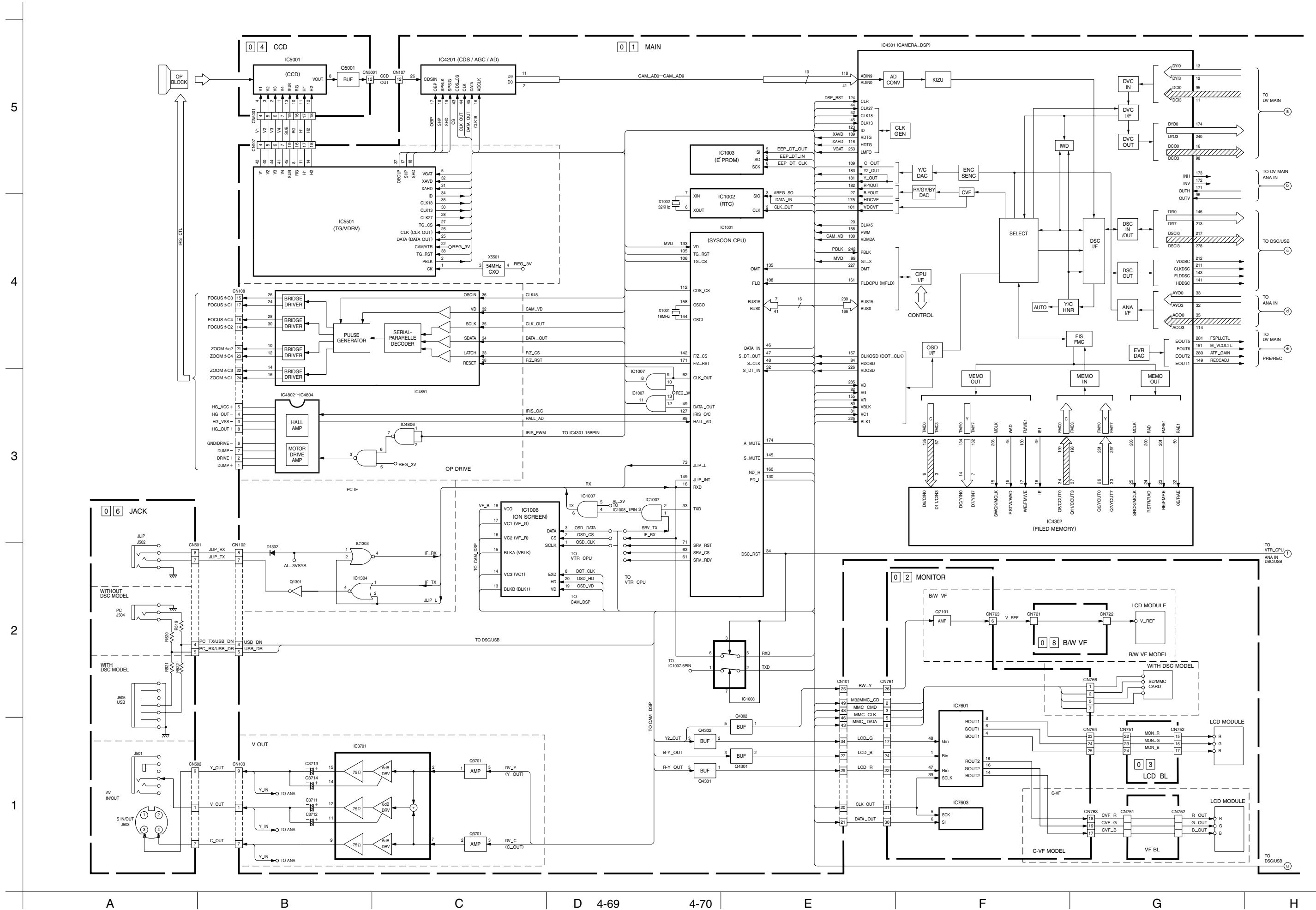
E

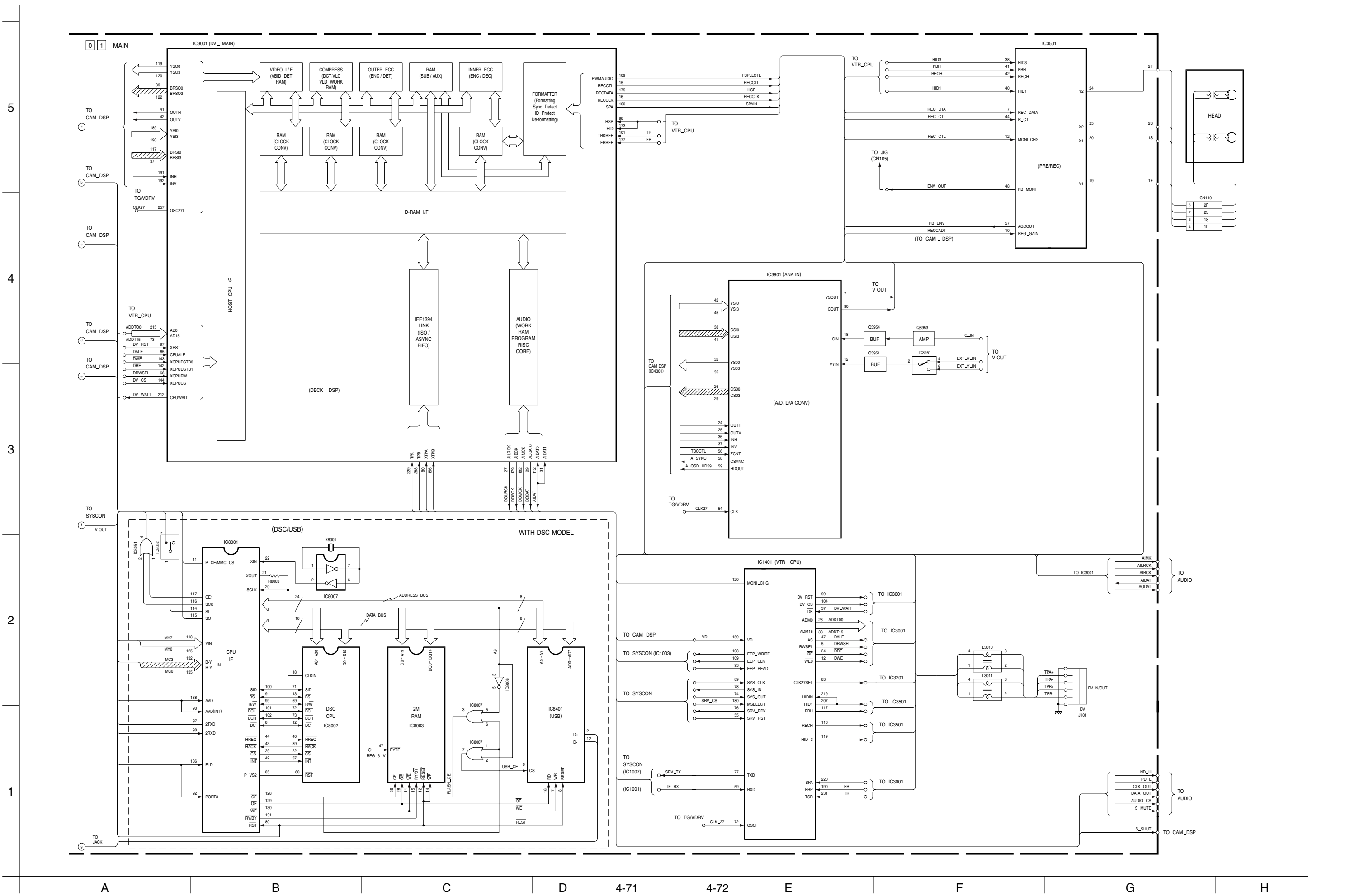
F

G

H

4.32 VIDEO SYSTEM BLOCK DIAGRAM





5

4

3

2

1

A

B

C

D

4-71

4-72

E

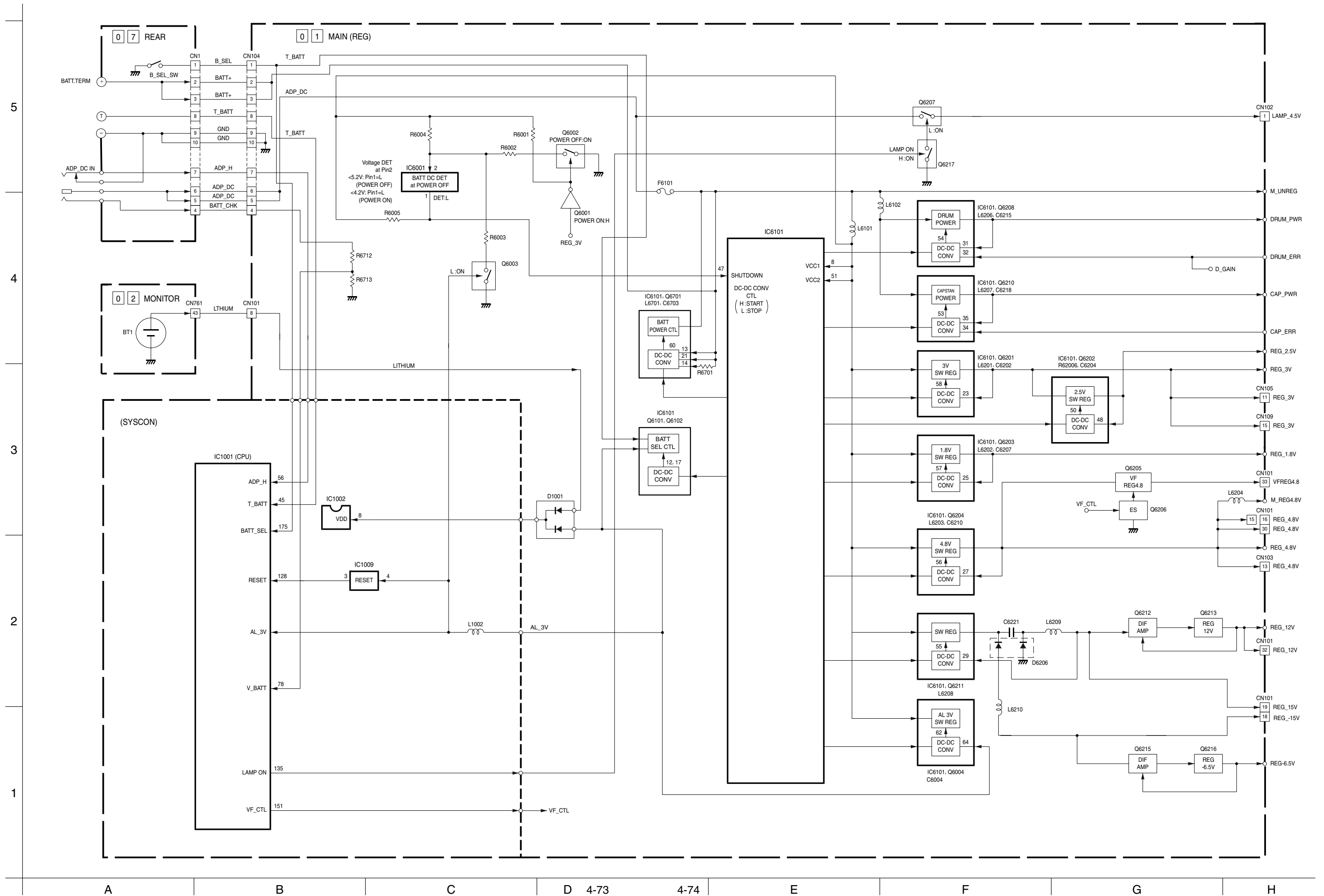
F

G

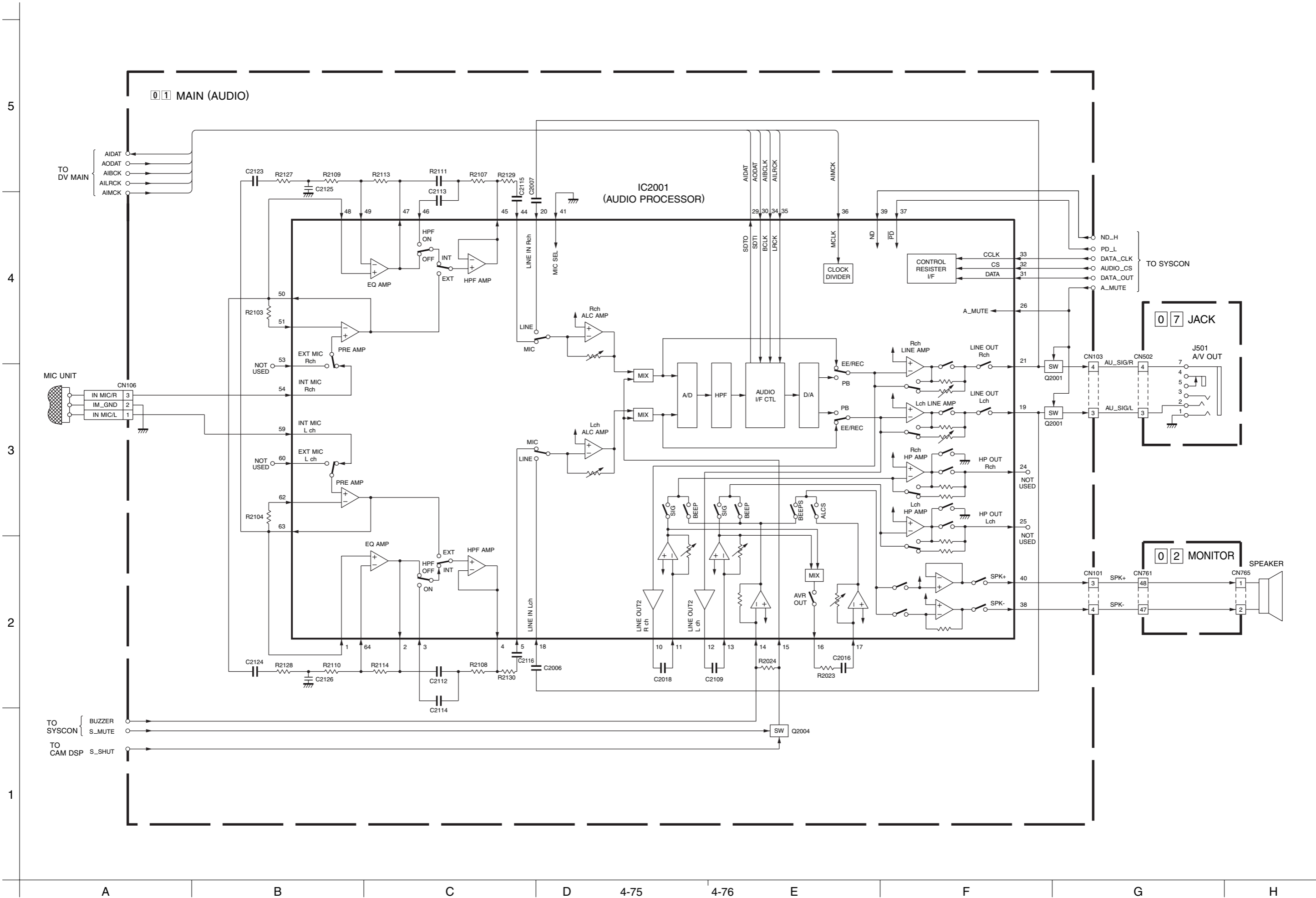
H



### 4.33 REGULATOR SYSTEM BLOCK DIAGRAM

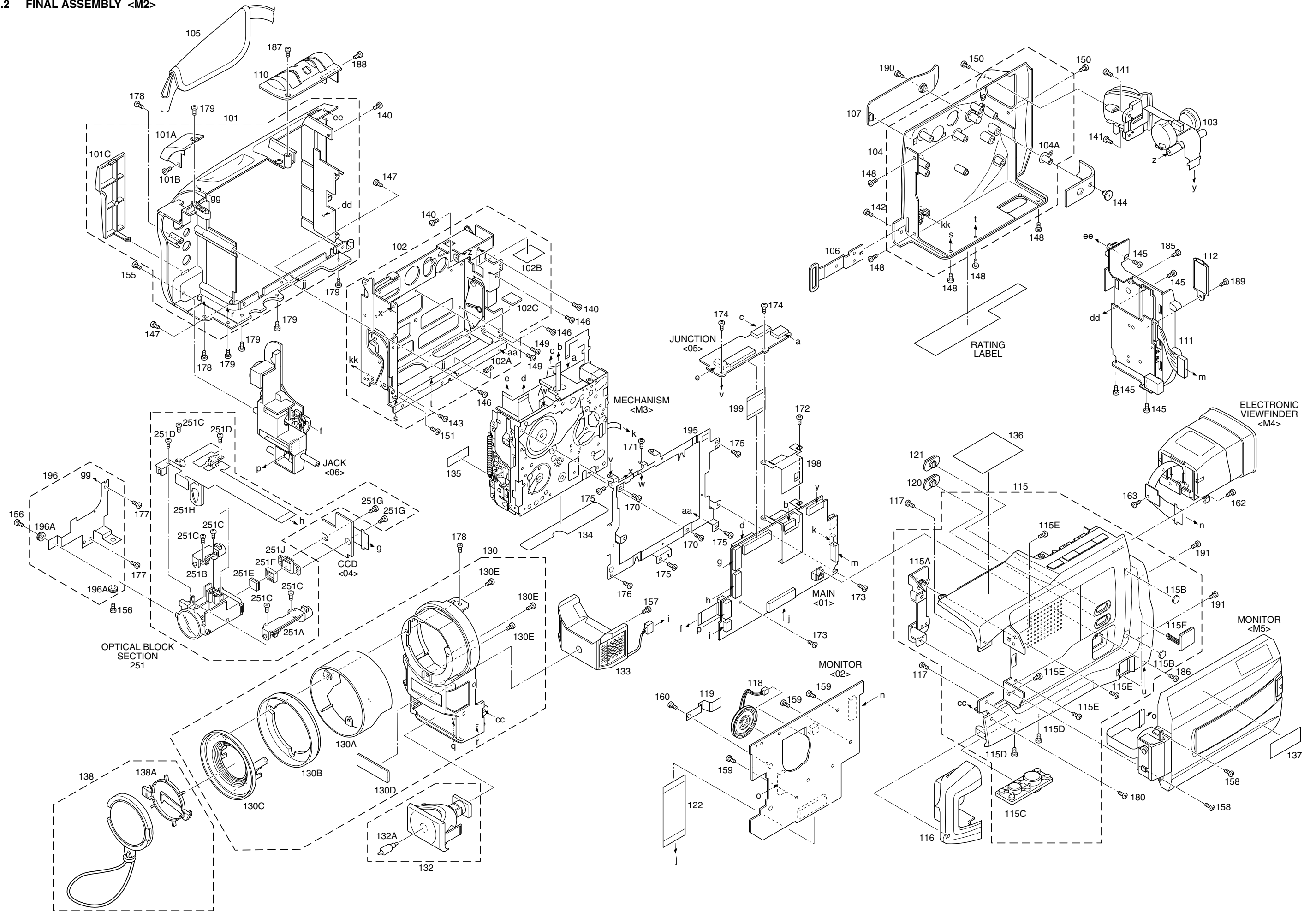


4.34 AUDIO SYSTEM BLOCK DIAGRAM





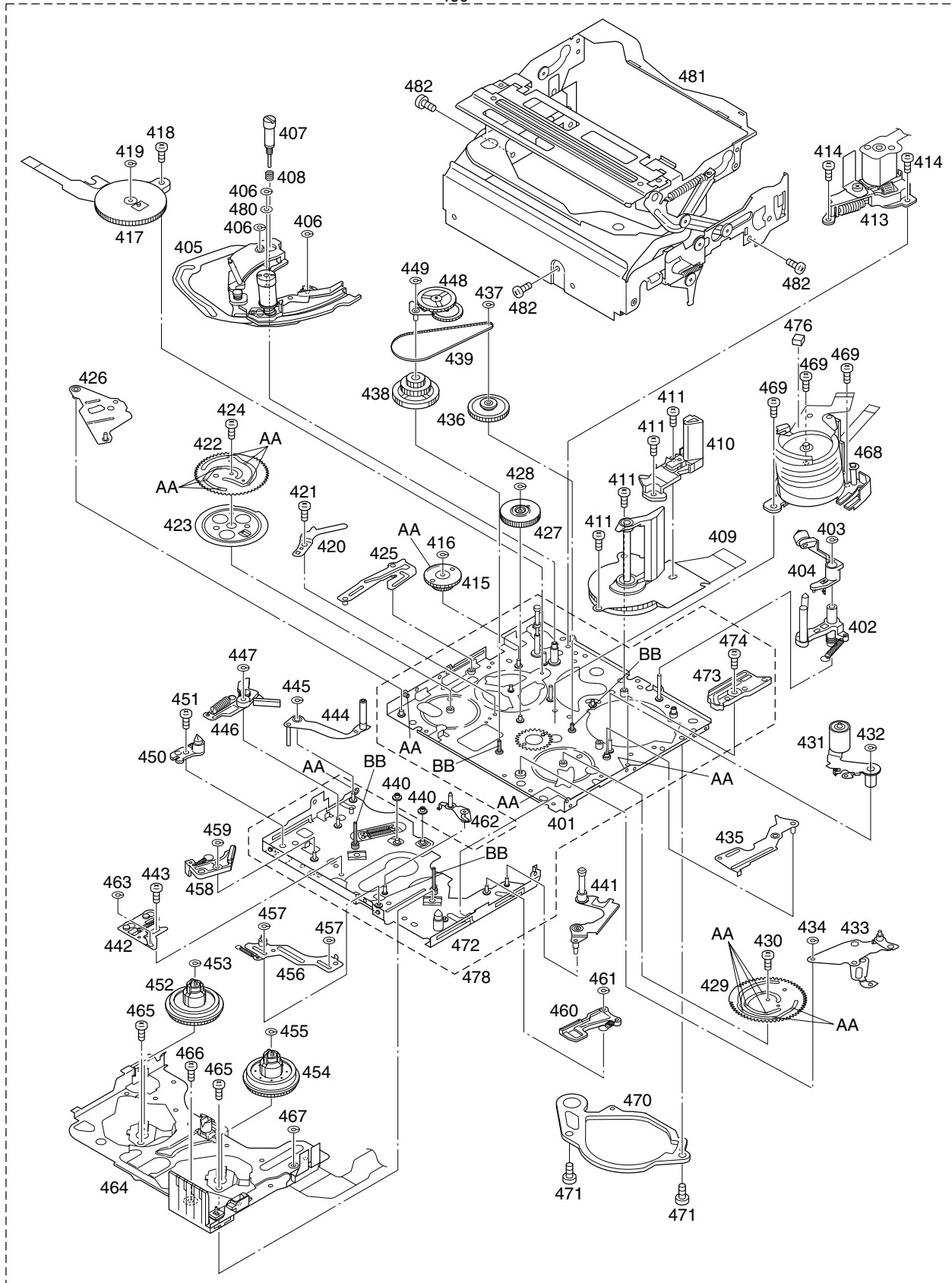
5.2 FINAL ASSEMBLY <M2>



#	△	REF No.	PART No.	PART NAME, DESCRIPTION	#	△	REF No.	PART No.	PART NAME, DESCRIPTION
*****					148		LY30018-038A		SPECIAL SCREW,X5
					149		LY30018-084A		SPECIAL SCREW,X2
					150		LY30018-084A		SPECIAL SCREW,X2
					151		LY30018-023A		SPECIAL SCREW
					155		LY30018-084A		SPECIAL SCREW
					156		LY30019-029B		SPECIAL SCREW,X2
					157		LY30018-023A		SPECIAL SCREW
					158		LY30018-0D6A		SPECIAL SCREW,X2
					159		LY30018-023A		SPECIAL SCREW,X3
					160		LY30018-006B		SPECIAL SCREW
					162		LY30018-063A		SPECIAL SCREW
					163		LY30018-064A		SPECIAL SCREW
					170		LY30019-026A		SPECIAL SCREW,X2
					171		YQ43893-4		MINI SCREW
					172		YQ43893-4		MINI SCREW
					173		LY30019-033A		SPECIAL SCREW,X2
					174		QYSPSPT1730Z		SCREW,X2
					175		LY30018-066A		SPECIAL SCREW,X4
					176		LY30018-084A		SPECIAL SCREW
					177		LY30018-084A		SPECIAL SCREW,X2
					178		LY30018-084A		SPECIAL SCREW,X3
					179		LY30018-084A		SPECIAL SCREW,X5
					180		LY30018-092A		SPECIAL SCREW
					185		LY30018-065A		SPECIAL SCREW
					186		LY30018-006B		SPECIAL SCREW
					187		LY30018-092A		SPECIAL SCREW
					188		LY30018-065A		SPECIAL SCREW
					189		LY30018-037A		SPECIAL SCREW
					190		LY30018-037A		SPECIAL SCREW
					191		LY30018-084A		SPECIAL SCREW,X2
					195		LY20696-001A		BRACKET(MECHA)
					196		LY42846-001A		BKT(OP) ASSY
					196A		LY42796-001A		BUSH,X2
					198		LY32081-001A		SHIELD PLATE
					199		WJT0044-001A		E-CARD WIRE,MAIN CN113-JUNC CN571
<b>FINAL ASSEMBLY &lt;M2&gt;</b>					<b>- OPTICAL BLOCK SECTION -</b>				
					251		J7A-233A		OPTICAL BLOCK ASSY
					251A		LY30723-001B		ZOOM MOTOR
					251B		LY30724-001B		FOCUS MOTOR
					251C		LY30727-002A		SCREW,X5
					251D		LY30727-001A		SCREW,X2
					251E		LY42936-001A		OPTICAL LPF
					251F		LY31639-001A		SPACER RUBBER
					251G		QYSPSGU1750Z		SCREW,X2
					251H		LY32160-001A		IRIS MOTOR
					251J		YS40168F		CCD BASE ASSY
101			LY20706-003C	LOWER CASE ASSY					
101A			LY32098-001A	WINDOW(IR)					
101B			LY30018-063A	SPECIAL SCREW					
101C			LY32099-001C	COVER(JACK)					
102			LY20697-001B	ARM ASSY					
102A			LY30001-023A	TENSION SPRING					
102B			LY30029-0C7A	SPACER(A)					
102C			LY30029-0E9A	SPACER(A)					
103			LY20693-001A	ZOOM UNIT					
104			LY20704-001A	CASSETTE COVER ASSY					
104A			LY40592-001A	CAP(GRIP BELT)					
105			LY20575-004B	GRIP BELT					
106			LY42891-001A	HOOK(GRIP)					
107			LY32092-013A	COVER(AJUST)					
110			LY32093-001A	COVER(ZOOM)ASSY					
111			LY20725-001A	REAR UNIT					
112			LY41691-001A	COVER(JIG)					
115			LY20707-007A	UPPER CASE(2.5)ASSY,A,B,C,D					
			LY20717-004B	UPPER CASE3/3.5ASSY,E,F,G,H					
115A			LY32101-001A	BRACKET					
115B			LY40664-001A	SPACER,X2					
115C			LY31019-001A	BASE					
115D			LY30018-084A	SPECIAL SCREW,X2					
115E			LY30018-0A8A	SPECIAL SCREW,X4					
115F			LY42866-001A	CAP(DC JACK)					
116			LY32106-001A	COVER(HINGE)					
117			LY30018-084A	SPECIAL SCREW,X2					
118			QAS0048-001	SPEAKER					
119			LY42167-001A	PLATE(SPK)					
120			LY42919-001A	KNOB(SLIDE)					
121			LY42919-002A	KNOB(SLIDE)					
122			QUQ105-5007AA	FFC WIRE,MAIN CN101-MONI CN761					
△			LY20711-003A	FRONT COVER ASSY					
130A			LY32111-002A	HOOD					
130B			LY32112-001A	RING					
130C			LY32113-001A	HOOD(SCREW)					
130D			LY42953-001A	MARK					
130E			LY30018-052A	SPECIAL SCREW,X3					
132			LY31617-002A	DC LIGHT ASSY					
132A			YQ44266	LAMP					
133			LY32114-001A	MICROPHONE					
134			LY40698-002A	LABEL(HOUSING)					
135			LY40699-002A	LABEL(PUSH)					
136			LY43093-004A	STICKER(TOP),A,B					
			LY43093-005A	STICKER(TOP),C,D					
			LY43093-006A	STICKER(TOP),E,F					
			LY43093-007A	STICKER(TOP),G,H					
137			LY43094-003A	STICKER(SIDE),C,D,G,H					
			LY43094-004A	STICKER(SIDE),A,B,E,F					
138			LY42182-002A	CAP(HOOD)ASSY					
138A			LY31627-001A	SPRING					
140			LY30018-084A	SPECIAL SCREW,X3					
141			LY30018-096A	SPECIAL SCREW,X2					
142			LY30018-038A	SPECIAL SCREW					
143			LY30018-084A	SPECIAL SCREW					
144			LY30018-0D1A	SPECIAL SCREW					
145			LY30018-084A	SPECIAL SCREW,X4					
146			LY30018-084A	SPECIAL SCREW,X3					
147			LY30018-038A	SPECIAL SCREW,X2					

5.3 MECHANISM ASSEMBLY <M3>

400



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-P	AA
Oil	YTU94027	BB

**NOTE:**The section marked in **AA** and **BB** indicate lubrication and greasing areas.

# ▲ REF No. PART No. PART NAME, DESCRIPTION  
 \*\*\*\*\*

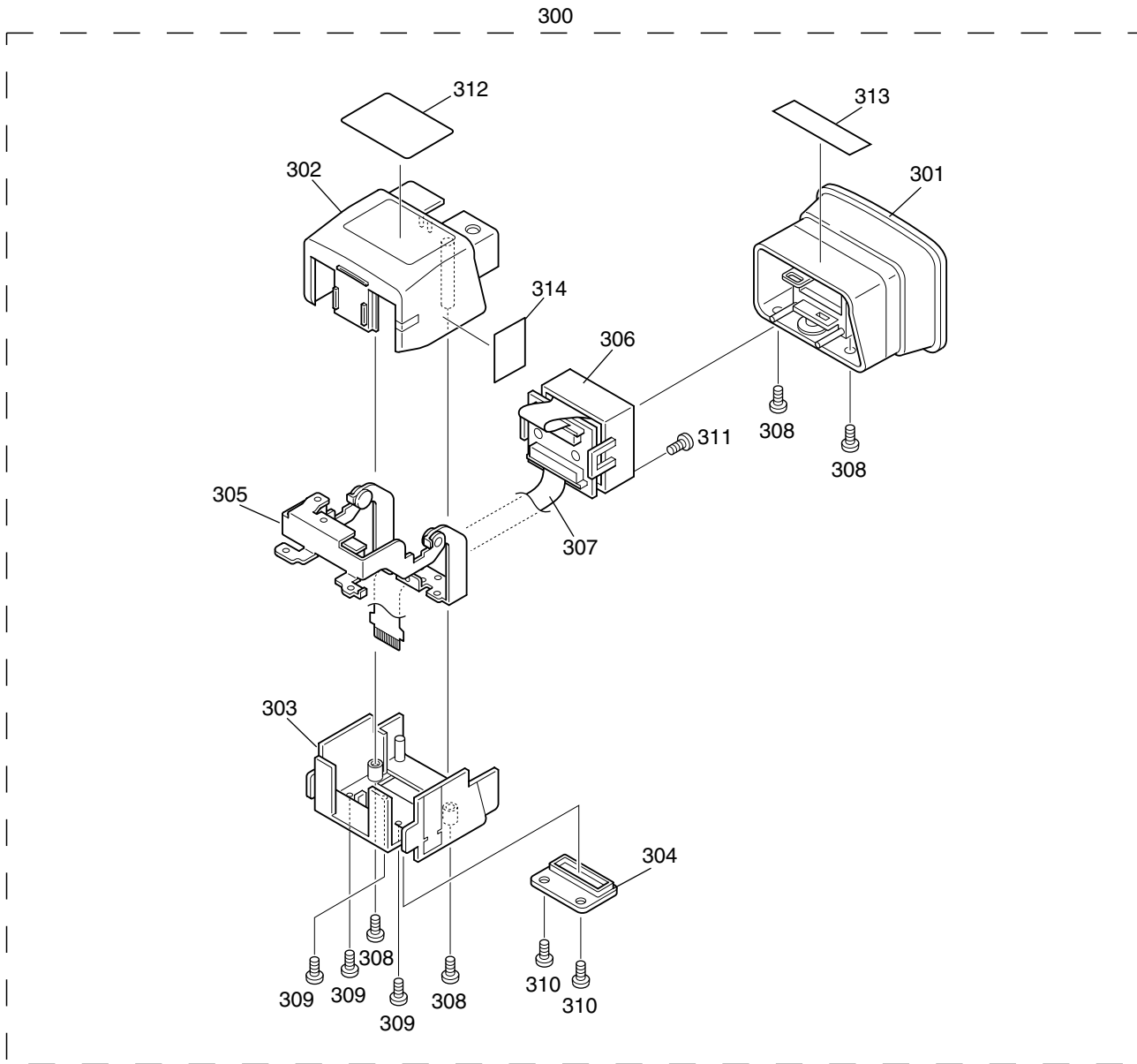
**MECHANISM ASSEMBLY <M3>**

400	YMA0025H	MECHA(A)ASSY
401	LY10077-001M	MAIN DECK ASSY
402	LY30436-001G	SLANT POLE ARM ASSY
403	YQ44246	SLIT WASHER
404	LY30438-001B	CLEANER ARM ASSY
405	LY10080-001V	RAIL ASSY
406	YQ44246	SLIT WASHER,X3
407	LY40353-001D	GUIDE ROLLER(S)ASSY
408	LY30002-006C	COMPRESSION SPRING
409	QAR0026-002	CAPSTAN MOTOR
410	LY30504-001C	CATCHER(T)ASSY
411	YQ43893	MINI SCREW,X4
413	LY30448-001H	MOTOR BKT ASSY
414	YQ43893	MINI SCREW,X2
415	LY30449-001C	WORM WHEEL
416	YQ44246	SLIT WASHER
417	LY40496-001C	ROTARY ENCODER
418	YQ43893	MINI SCREW
419	YQ44246	SLIT WASHER
420	LY40614-001B	GEAR HOLDER
421	YQ43893-6	MINI SCREW
422	LY30450-001C	MAIN CAM
423	LY30840-001A	BRAKE CTL PLATE
424	YQ43893	MINI SCREW
425	LY40373-001C	TC LEVER ASSY
426	LY30452-001G	SLIDE LEVER ASSY
427	LY30454-001A	CONNECT GEAR
428	YQ44246	SLIT WASHER
429	LY30455-001B	SUB CAM
430	YQ43893	MINI SCREW
431	LY30456-001F	PINCHROLLER ARM ASSY
432	YQ44246	SLIT WASHER
433	LY30459-001A	CHARGE ARM ASSY
434	YQ44246	SLIT WASHER
435	LY40387-001D	BC LEVER ASSY
436	LY40389-001D	REEL DRIVE PULLEY ASSY
437	YQ44246-2	SLIT WASHER
438	LY40391-002B	CENTER GEAR ASSY
439	LY40396-001A	TIMING BELT
440	LY40413-001A	COLLAR,X2
441	LY30468-001E	GUIDE ARM ASSY
442	LY30618-001C	SLIDE GUIDE PLATE ASSY
443	YQ43893-2	MINI SCREW
444	LY40420-001J	TENSION ARM ASSY
445	YQ44246	SLIT WASHER
446	LY30471-001D	PAD ARM ASSY
447	YQ44246	SLIT WASHER
448	LY40432-001H	IDLER ARM ASSY
449	YQ44246-2	SLIT WASHER
450	LY30476-001A	GUIDE PIN(S)
451	YQ43893	MINI SCREW
452	LY40441-001B	REEL DISK(SUPPLY)ASSY
453	YQ44246	SLIT WASHER
454	LY40443-001B	REEL DISK(TAKE-UP)ASSY
455	YQ44246	SLIT WASHER
456	LY30477-001F	CTL PLATE ASSY
457	YQ44246	SLIT WASHER,X2
458	LY40444-001E	LOADING BRAKE ASSY
459	YQ44246	SLIT WASHER

# ▲ REF No. PART No. PART NAME, DESCRIPTION  
 -----

460	LY40452-001C	SUB BRAKE ASSY
461	YQ44246	SLIT WASHER
462	LY30479-001E	RELEASE GUIDE ASSY
463	YQ44246	SLIT WASHER
464	LY20146-001H	REEL COVER ASSY
465	YQ43893-4	MINI SCREW,X2
466	YQ43893	MINI SCREW
467	YQ44246	SLIT WASHER
468	YDV2086K	DRUM ASSY
469	YQ43893	MINI SCREW,X3
470	LY20138-001D	PWB HOLDER
471	YQ43893	MINI SCREW,X2
472	LY10082-001L	SLIDE DECK ASSY
473	LY30462-001B	LOADING GUIDE
474	YQ43893	MINI SCREW
476	LY30018-0M1A	SPACER-A
478	LY30496-001W	DECK ASSY
480	LY41573-001A	WASHER
481	LY30483-001Q	CASSETTE HOUSING ASSY
482	YQ43893-4	MINI SCREW,X3

5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4> [GR-DVL555EG/EK, 557EG]



# Δ REF No. PART No. PART NAME, DESCRIPTION  
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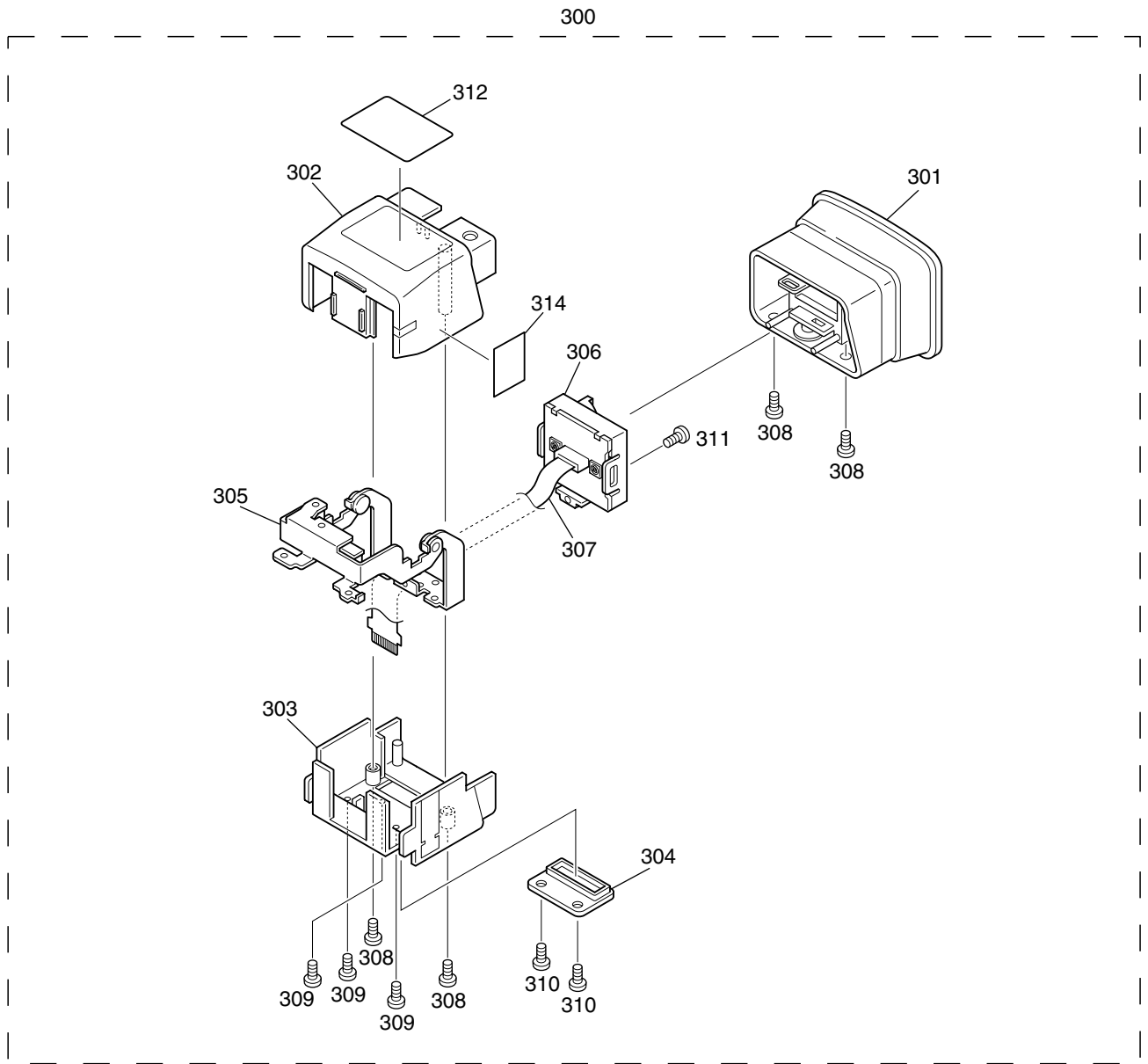
**ELECTRONIC VIEWFINDER ASSEMBLY <M4>**

#	REF No.	PART No.	PART NAME, DESCRIPTION
300	LY20712-002B		VF ASSY,E,G
	LY20712-004A		VF ASSY,F
301	PTY20712-001		EYE PIECE ASSY
302	PTY20712-011		TOP CASE SUB ASSY
303	PTY20712-021		BOTTOM CASE
304	PTY20712-022		CAP(VF)

#	REF No.	PART No.	PART NAME, DESCRIPTION
305	PTY20712-031		HINGE ASSY
306	PTY20712-041		LCD ASSY
307	QAL0287-001		FPC
308	LY30018-063A		SPECIAL SCREW,X4
309	LY30018-055A		SPECIAL SCREW,X3
310	LY30018-035A		SPECIAL SCREW,X2
311	PTY20712-051		SCREW
312	LY41701-002A		SHEET(CAUTION)1
313	LY40074-001A		LABEL/COLOR
314	LY43041-002A		LABEL(VF)



5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4> [GR-DVL355EG/EK, 357EG/EK, 557EK]



# ▲ REF No. PART No. PART NAME, DESCRIPTION

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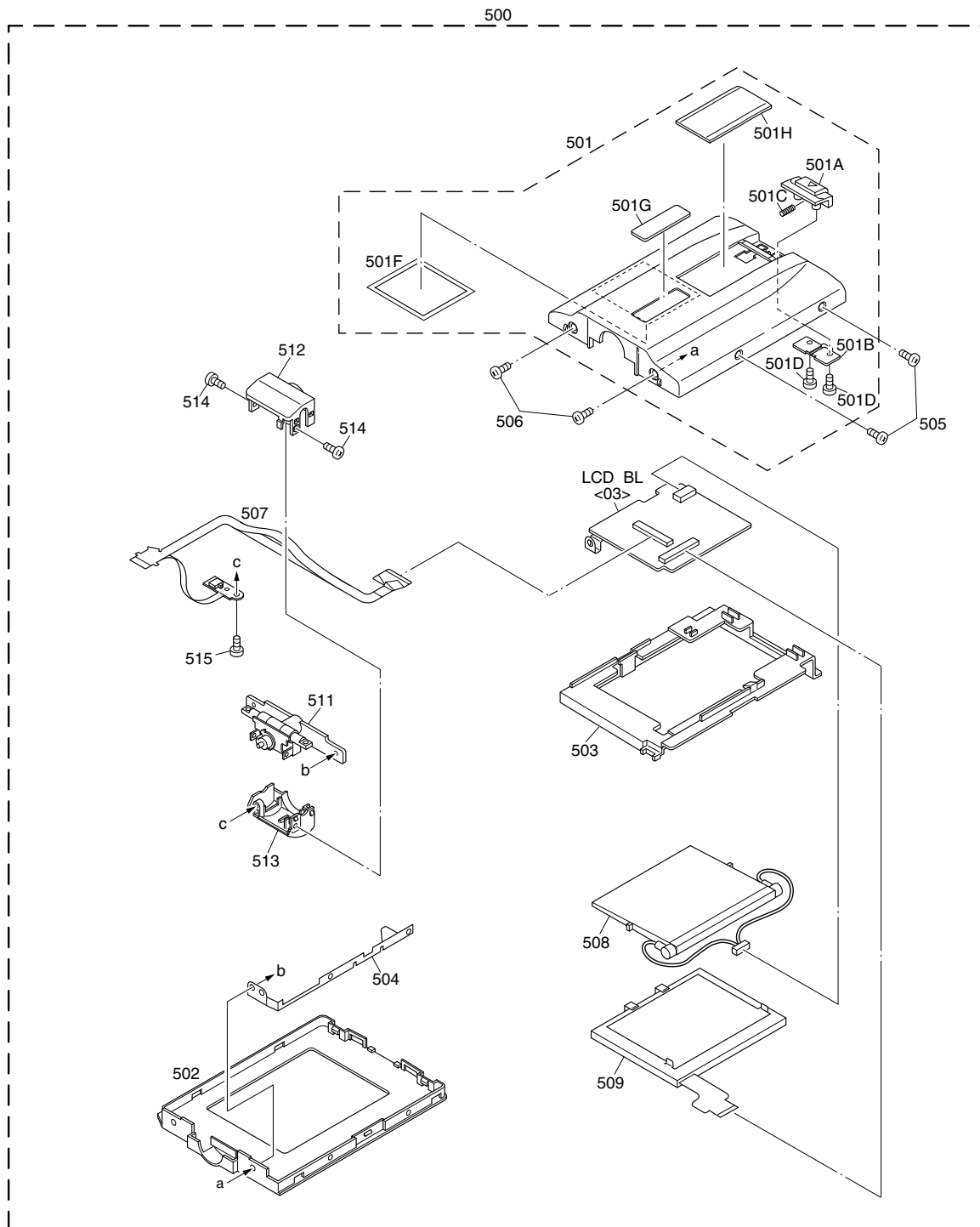
**ELECTRONIC VIEWFINDER ASSEMBLY <M4>**

300	LY20744-002B	VF UNIT,A,C,H
	LY20744-003A	VF UNIT,B,D
301	PTY20744-001	EYE PIECE ASSY
302	PTY20712-011	TOP CASE SUB ASSY
303	PTY20712-021	BOTTOM CASE
304	PTY20712-022	CAP(VF)

# ▲ REF No. PART No. PART NAME, DESCRIPTION

305	PTY20712-031	HINGE ASSY
306	PTY20744-041	LCD ASSY
307	QAL0288-001	FPC
308	LY30018-063A	SPECIAL SCREW,X4
309	LY30018-055A	SPECIAL SCREW,X3
310	LY30018-035A	SPECIAL SCREW,X2
311	PTY20744-051	SCREW
312	LY41701-002A	SHEET(CAUTION)1
314	LY43041-002A	LABEL(VF)

5.5 MONITOR ASSEMBLY <M5> [GR-DVL355EG/EK, 357EG/EK]



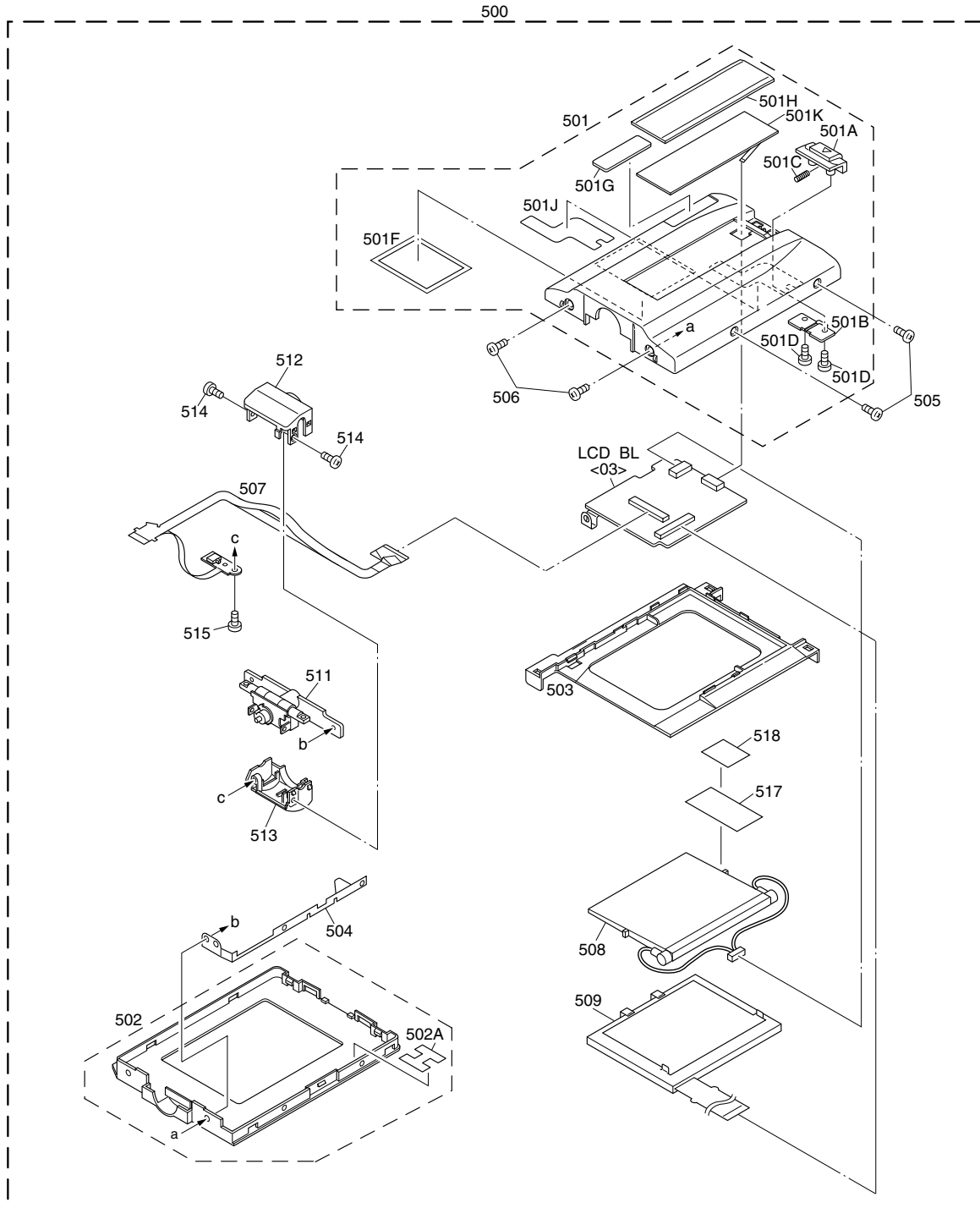
# ▲ REF No. PART No. PART NAME, DESCRIPTION  
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**MONITOR ASSEMBLY <M5>**

# ▲	REF No.	PART No.	PART NAME, DESCRIPTION
▲	500	LYH20246-010B	MONITOR ASSY
▲	501	LY20721-003B	MONITOR COVER(2.5)ASSY
	501A	LY31620-001A	KNOB(LOCK 1)
	501B	LY42180-001A	KNOB(LOCK 2)
	501C	LY30002-044A	COMPRES. SPRING
	501D	LY30018-084A	SPECIAL SCREW,X2
	501F	LY40559-001A	SHIELD SHEET
	501G	LY42883-001A	MARK
	501H	LY32087-002B	WINDOW
	502	LY10264-001A	MONITOR CASE(2.5)

# ▲	REF No.	PART No.	PART NAME, DESCRIPTION
	503	LY20674-001A	HOLDER(2.5PWB)
	504	LY31622-001A	BRACKET(EARTH)
	505	QYSPSPT1730R	SCREW,X2
	506	QYSLSP2040D	SCREW,X2
	507	LY31743-001A	MONITOR FPC ASSY
	508	QLL0093-001	BACK LIGHT
	509	QLD0154-001	LCD MODULE
	511	LY32079-001A	HINGE ASSY
	512	LY32088-001A	HINGE COVER(1)
	513	LY32089-001A	HINGE COVER(2)
	514	LY30018-058A	SPECIAL SCREW,X2
	515	LY30018-023A	SPECIAL SCREW

5.5 MONITOR ASSEMBLY <M5> [GR-DVL555EG/EK, 557EG/EK]



# ▲ REF No. PART No. PART NAME, DESCRIPTION  
 \*\*\*\*\*

**MONITOR ASSEMBLY <M5>**

# ▲	REF No.	PART No.	PART NAME, DESCRIPTION
△	500	LYH20246-011A	MONITOR ASSY
△	501	LY20721-002B	MONITOR COVER(3.5)ASSY
	501A	LY31620-001A	KNOB(LOCK 1)
	501B	LY42180-001A	KNOB(LOCK 2)
	501C	LY30002-044A	COMPRES. SPRING
	501D	LY30018-084A	SPECIAL SCREW,X2
	501F	LY40559-001A	SHIELD SHEET
	501G	LY42883-001A	MARK
	501H	LY32121-002B	WINDOW
	501J	LY42386-001A	EARTH MON
	501K	LY42193-001A	EL(WINDOW)
	502	LY20598-002A	MONITOR CASE ASSY

# ▲ REF No. PART No. PART NAME, DESCRIPTION

	502A	LY42388-001A	EARTH MON(2)
	503	LY20568-001A	HOLDER(3.5PWB)
	504	LY31622-001A	BRACKET(EARTH)
	505	QYSPST1730R	SCREW,X2
	506	QYSLSP2040D	SCREW,X2
	507	LY31743-001A	MONITOR FPC ASSY
	508	QLL0081-001	BACK LIGHT
	509	QLD0096-002	LCD MODULE
	511	LY32079-001A	HINGE ASSY
	512	LY32088-001A	HINGE COVER(1)
	513	LY32089-001A	HINGE COVER(2)
	514	LY30018-058A	SPECIAL SCREW,X2
	515	LY30018-023A	SPECIAL SCREW
	517	LY30029-0A5A	SPACER(A)
	518	PU59915-105	#500SPACER0.01

5.6 ELECTRICAL PARTS LIST

MODEL	MARK	MODEL	MARK
GR-DVL355EG	A	GR-DVL555EG	E
GR-DVL355EK	B	GR-DVL555EK	F
GR-DVL357EG	C	GR-DVL557EG	G
GR-DVL357EK	D	GR-DVL557EK	H

#	△ REF No.	PART No.	PART NAME, DESCRIPTION
*****			
<b>MAIN BOARD ASSEMBLY &lt;01&gt;</b>			
PW1		YB10317PB-05	MAIN BOARD ASSY,A,B,C,D,E,F,H
		YB10317PA-05	MAIN BOARD ASSY,G
IC1001		UPD703039F1-A03	IC(MICRO C ROM)
		or UPD70F3040F1A03	IC(MICRO C ROM)
IC1002		RS5C314	IC
IC1003		AT25160N-10SC-X	IC
		or X25170S8I-2.5-X	IC
		or 25LC160-I/SN-X	IC
IC1004		TC75S56FU	IC
IC1005		TC7S00FU	IC
		or SN74AHC1G00K	IC
IC1006		MB90097PFV139	IC(MICRO C ROM)
IC1007		TC74VHC08FT	IC(DIGITAL)
		or SN74LV08APW	IC
IC1008		TC7W66FK	IC
IC1009		IC-PST9323U-X	IC
IC1303		TC7S32FU	IC(DIGITAL)
		or SN74AHC1G32K	IC
IC1304		TC7S02FU	IC(DIGITAL)
		or SN74AHC1G02K	IC
IC1401		YQ44882A	CSP IC ASSY
IC1403		SN74AHC2G53T	IC,A,B,E
IC1404		TC7W14FU	IC(DIGITAL)
		or SN74AHC2G14T	IC
IC1601		BD6630KV	IC
IC2001		AK4560AVQ	IC
IC3001		JCY0133	IC
IC3002		JCY0136	IC
IC3003		TLC2940IPW	IC
IC3004		SN74AHC1G04K	IC
IC3006		JCY0164	IC
IC3007		SN74AHC2G53T	IC
IC3501		JCY0132	IC
IC3701		BA7665FS	IC
IC3901		JCP8029	IC,G
IC3951		MM1504XN	IC,G
IC4201		HD49326BF	IC
IC4202		MM1385HN	IC
IC4301		JCY0150	IC
IC4302		TMS4C2973-28-X	IC
IC4802		TA75W01FU	IC
IC4803		TA75W01FU	IC
IC4804		UPC358G2/5/-W	IC
IC4806		TC7W00FK	IC
IC4851		UPD16879GS	IC
IC5501		JCY0117	IC
IC6001		S-80842ANNP-W	IC
IC6101		FA3698F	IC
IC8001		JCY0076B	IC
IC8002		M32000D4AFP	IC(MICRO C ROM)
		or M32000D4BFP	IC(MICRO C ROM)
IC8003		MBV400TC90PTA10	IC(MICRO C ROM)
		or MBV400TC70PTA10	IC(MICRO C ROM)
		or 39VF400A7CEKA05	IC(MICRO C ROM)
		or 39VF400A9CEKA05	IC(MICRO C ROM)
IC8004		S-814A31AMC-W	IC
IC8006		TC7WHU04FU	IC
IC8007		TC7W32FK	IC
IC8051		TC7S32FU	IC(DIGITAL)

#	△ REF No.	PART No.	PART NAME, DESCRIPTION
		IC8052	SN74AHC2G53T IC
		IC8401	ML60851CLB IC
		IC8402	S-80842ANNP-W IC
		IC8403	S-814A33AMC-W IC
		Q1001	DTC124EE TRANSISTOR
		Q1002	2SC4617/RS/-X TRANSISTOR
		Q1003	DTC143EE TRANSISTOR
		Q1004	DTA114EE TRANSISTOR
			or PDTA114EE TRANSISTOR
			or RN2102 TRANSISTOR
		Q1005	DTC144EE TRANSISTOR
			or UN9213J TRANSISTOR
			or RN1104 TRANSISTOR
			or PDTC144EE TRANSISTOR
		Q1006	DTA114EE TRANSISTOR
			or PDTA114EE TRANSISTOR
			or RN2102 TRANSISTOR
		Q1007	DTC144EE TRANSISTOR
			or UN9213J TRANSISTOR
			or PDTC144EE TRANSISTOR
			or RN1104 TRANSISTOR
		Q1301	2SC4617/RS/-X TRANSISTOR
		Q1401	DTA114EE TRANSISTOR
			or PDTA114EE TRANSISTOR
			or RN2102 TRANSISTOR
		Q1402	UMC3N TRANSISTOR
		Q1403	UMC3N TRANSISTOR
		Q1404	DTC144EE TRANSISTOR
			or PDTC144EE TRANSISTOR
			or RN1104 TRANSISTOR
			or UN9213J TRANSISTOR
		Q1601	UMC3N TRANSISTOR
		Q2001	UMX1N PAIR TRANSISTOR
		Q2002	2SC4617/RS/-X TRANSISTOR
		Q2004	2SC4617/RS/-X TRANSISTOR
		Q3701	UMT2N PAIR TRANSISTOR
		Q3702	UMZ1N PAIR TRANSISTOR
		Q3703	2SC4617/RS/-X TRANSISTOR,G
		Q3951	UMZ1N PAIR TRANSISTOR,G
		Q3952	DTC144EE TRANSISTOR,G
			or PDTC144EE TRANSISTOR,G
			or RN1104 TRANSISTOR,G
			or UN9213J TRANSISTOR,G
		Q3953	UMZ1N PAIR TRANSISTOR,G
		Q3954	2SC4617/RS/-X TRANSISTOR,G
		Q4301	UMT2N PAIR TRANSISTOR
		Q4302	UMT2N PAIR TRANSISTOR
		Q4801	2SC4655/BC/-X TRANSISTOR
		Q4851	2SC4617/RS/-X TRANSISTOR
		Q6001	DTC144EE TRANSISTOR
			or PDTC144EE TRANSISTOR
			or RN1104 TRANSISTOR
			or UN9213J TRANSISTOR
		Q6002	2SK3019 MOS FET
		Q6003	2SJ347 MOS FET
		Q6004	2SB1121/TU/-X TRANSISTOR
		Q6101	2SK3019 MOS FET
		Q6102	2SK3019 MOS FET
		Q6201	NDS352AP MOS FET
		Q6202	2SA1577/RS/-X TRANSISTOR
		Q6203	SSM6J07FU MOS FET
		Q6204	CPH3304 MOS FET
		Q6205	CPH3101 TRANSISTOR

#	△ REF No.	PART No.	PART NAME, DESCRIPTION	#	△ REF No.	PART No.	PART NAME, DESCRIPTION		
		Q6206	2SC4617/RS/-X			R1024	NRSA6AJ-823W	MG RESISTOR	82kΩ, 1/16W
		Q6207	2SD1621/TU/-X			R1025	NRVA6AD-623W	CMF RESISTOR	62kΩ, 1/16W
		Q6208	SSM6J07FU			R1026	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
		Q6210	SSM6J07FU			R1027	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
		Q6211	NDS352AP			R1028	NRSA6AJ-185W	MG RESISTOR	1.8MΩ, 1/16W
		Q6212	HN1C01FU/G/-X			R1029	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
			or PUMX1			R1030	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
		Q6213	2SA1577/RS/-X			R1031	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
		Q6214	DTC144EE			R1032	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
			or PDC144EE			R1033	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
			or RN1104			R1034	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
			or UN9213J			R1035	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
		Q6215	HN1A01FU/G/-X			R1036	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
			or PUMT1			R1037	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W
		Q6216	2SC4617/RS/-X			R1038	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
		Q6217	UMZ1N			R1039	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W
		Q6701	TPC6102			R1040	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
		Q8001	2SB1121/TU/-X			R1041	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		Q8401	DTA114EE			R1042	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		D1001	DA221			R1043	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		D1302	RB501V-40-X			R1044	NRSA6AJ-123W	MG RESISTOR	12kΩ, 1/16W
		D1602	DAP222			R1045	NRSA6AJ-822W	MG RESISTOR	8.2kΩ, 1/16W
		D1603	DAP222			R1046	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W
		D1604	DAP222			R1047	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		D3001	EC2C01C			R1048	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		D3002	EC2C01C			R1049	NRSA6AJ-393W	MG RESISTOR	39kΩ, 1/16W
		D3003	EC2C01C			R1050	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W
		D5501	1SS355			R1051	NRSA6AJ-272W	MG RESISTOR	2.7kΩ, 1/16W
△		D6002	RB715F			R1052	NRSA6AJ-183W	MG RESISTOR	18kΩ, 1/16W
		D6201	EP10LA03			R1053	NRSA6AJ-154W	MG RESISTOR	150kΩ, 1/16W
		D6202	EP10LA03			R1054	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		D6203	EP10LA03			R1055	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W
		D6204	EP10LA03			R1056	NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W
		D6205	EP10LA03			R1057	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		D6206	1SS383			R1058	NRSA6AJ-222W	MG RESISTOR	2.2kΩ, 1/16W
		D6207	MA8091/L/-X			R1059	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		D6701	CRS09			R1061	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
		D6702	CRS09			R1062	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		D8051	RB715F			R1080	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
		D8401	1SS355			R1302	NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W
		R1001	NRSA6AJ-104W	MG RESISTOR		R1306	NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W
		R1002	NRSA6AJ-224W	MG RESISTOR		R1401	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
		R1003	NRSA6AJ-472W	MG RESISTOR		R1402	NRSA6AJ-222W	MG RESISTOR	2.2kΩ, 1/16W
		R1004	NRSA6AJ-103W	MG RESISTOR		R1403	NRSA6AJ-222W	MG RESISTOR	2.2kΩ, 1/16W
		R1005	NRSA6AJ-153W	MG RESISTOR		R1408	NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W
		R1006	NRSA6AJ-103W	MG RESISTOR		R1409	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
		R1007	NRSA6AJ-334W	MG RESISTOR		R1410	NRSA6AJ-331W	MG RESISTOR, A,B,E	330Ω, 1/16W
		R1008	NRSA6AJ-561W	MG RESISTOR		R1411	NRSA6AJ-473W	MG RESISTOR, A,B,E	47kΩ, 1/16W
		R1009	NRSA6AJ-151W	MG RESISTOR		R1412	NRSA6AJ-331W	MG RESISTOR, A,B,E	330Ω, 1/16W
		R1010	NRSA6AJ-221W	MG RESISTOR		R1413	NRSA6AJ-331W	MG RESISTOR, C,D,F,G,H	330Ω, 1/16W
		R1011	NRSA6AJ-103W	MG RESISTOR		R1414	NRSA6AJ-331W	MG RESISTOR	330Ω, 1/16W
		R1012	NRSA6AJ-102W	MG RESISTOR		R1415	NRSA6AJ-331W	MG RESISTOR	330Ω, 1/16W
		R1013	NRSA6AJ-103W	MG RESISTOR		R1416	NRSA6AJ-331W	MG RESISTOR	330Ω, 1/16W
		R1014	NRSA6AJ-103W	MG RESISTOR		R1417	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
		R1015	NRSA6AJ-474W	MG RESISTOR		R1418	NRSA6AJ-221W	MG RESISTOR	220Ω, 1/16W
		R1016	NRSA6AJ-474W	MG RESISTOR		R1419	NRSA6AJ-221W	MG RESISTOR	220Ω, 1/16W
		R1017	NRSA6AJ-104W	MG RESISTOR		R1420	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
		R1018	NRSA6AJ-103W	MG RESISTOR		R1422	NRSA6AJ-332W	MG RESISTOR	3.3kΩ, 1/16W
		R1019	NRSA6AJ-0R0W	MG RESISTOR		R1423	NRSA6AJ-332W	MG RESISTOR	3.3kΩ, 1/16W
		R1020	NRSA6AJ-331W	MG RESISTOR		R1424	NRSA6AJ-332W	MG RESISTOR	3.3kΩ, 1/16W
		R1021	NRSA6AJ-331W	MG RESISTOR		R1425	NRVA6AD-753W	CMF RESISTOR	75kΩ, 1/16W
		R1022	NRSA6AJ-331W	MG RESISTOR		R1426	NRSA6AJ-334W	MG RESISTOR	330kΩ, 1/16W
		R1023	NRSA6AJ-103W	MG RESISTOR		R1427	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W

#	△ REF No.	PART No.	PART NAME, DESCRIPTION	#	△ REF No.	PART No.	PART NAME, DESCRIPTION
R1428		NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W	R2020		NRSA6AJ-2R7W	MG RESISTOR 2.7Ω,1/16W
R1429		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R2023		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W
R1430		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R2024		NRSA6AJ-183W	MG RESISTOR 18kΩ,1/16W
R1432		NRSA6AJ-820W	MG RESISTOR 82Ω,1/16W	R2025		NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W
R1433		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R2026		NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
R1434		NRSA6AJ-683W	MG RESISTOR 68kΩ,1/16W	R2027		NRSA6AJ-332W	MG RESISTOR 3.3kΩ,1/16W
R1435		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R2028		NRSA6AJ-224W	MG RESISTOR 220kΩ,1/16W
R1436		NRSA6AJ-683W	MG RESISTOR 68kΩ,1/16W	R2029		NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
R1437		NRVA6AD-103W	CMF RESISTOR 10kΩ,1/16W	R2101		NRSA6AJ-182W	MG RESISTOR 1.8kΩ,1/16W
R1439		NRSA6AJ-332W	MG RESISTOR 3.3kΩ,1/16W	R2102		NRSA6AJ-182W	MG RESISTOR 1.8kΩ,1/16W
R1440		NRSA6AJ-332W	MG RESISTOR 3.3kΩ,1/16W	R2103		NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W
R1441		NRSA6AJ-332W	MG RESISTOR 3.3kΩ,1/16W	R2104		NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W
R1442		NRSA6AJ-332W	MG RESISTOR 3.3kΩ,1/16W	R2105		NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W
R1443		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R2106		NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W
R1444		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R2107		NRSA6AJ-473W	MG RESISTOR 47kΩ,1/16W
R1445		NRSA6AJ-101W	MG RESISTOR 100Ω,1/16W	R2108		NRSA6AJ-473W	MG RESISTOR 47kΩ,1/16W
R1601		NRSA6AJ-681W	MG RESISTOR 680Ω,1/16W	R2109		NRSA6AJ-472W	MG RESISTOR 4.7kΩ,1/16W
R1602		NRSA6AJ-124W	MG RESISTOR 120kΩ,1/16W	R2110		NRSA6AJ-472W	MG RESISTOR 4.7kΩ,1/16W
R1603		NRSA6AJ-472W	MG RESISTOR 4.7kΩ,1/16W	R2111		NRSA6AJ-222W	MG RESISTOR 2.2kΩ,1/16W
R1604		NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W	R2112		NRSA6AJ-222W	MG RESISTOR 2.2kΩ,1/16W
R1605		NRV142F-R22X	CMF RESISTOR 0.22Ω,1/4W	R2113		NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W
R1606		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W	R2114		NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W
R1608		NRSA02J-0R0X	MG RESISTOR 0Ω,1/10W	R2117		NRSA6AJ-472W	MG RESISTOR 4.7kΩ,1/16W
R1609		NRV142F-R33X	CMF RESISTOR 0.33Ω,1/4W	R2118		NRSA6AJ-472W	MG RESISTOR 4.7kΩ,1/16W
R1610		NRSA6AJ-471W	MG RESISTOR 470Ω,1/16W	R2119		NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W
R1611		NRSA6AJ-471W	MG RESISTOR 470Ω,1/16W	R2120		NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W
R1612		NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W	R2127		NRSA6AJ-472W	MG RESISTOR 4.7kΩ,1/16W
R1613		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R2128		NRSA6AJ-472W	MG RESISTOR 4.7kΩ,1/16W
R1614		NRVA6AD-682W	CMF RESISTOR 6.8kΩ,1/16W	R2129		NRSA6AJ-332W	MG RESISTOR 3.3kΩ,1/16W
R1615		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W	R2130		NRSA6AJ-332W	MG RESISTOR 3.3kΩ,1/16W
R1616		NRSA6AJ-391W	MG RESISTOR 390Ω,1/16W	R2201		NRSA6AJ-182W	MG RESISTOR 1.8kΩ,1/16W
R1617		NRSA6AJ-224W	MG RESISTOR 220kΩ,1/16W	R2202		NRSA6AJ-182W	MG RESISTOR 1.8kΩ,1/16W
R1618		NRSA6AJ-154W	MG RESISTOR 150kΩ,1/16W	R3002		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W
R1619		NRSA6AJ-223W	MG RESISTOR 22kΩ,1/16W	R3004		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W
R1620		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W	R3007		NRSA6AJ-562W	MG RESISTOR 5.6kΩ,1/16W
R1621		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W	R3008		NRSA6AJ-222W	MG RESISTOR 2.2kΩ,1/16W
R1622		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W	R3009		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W
R1624		NRVA6AD-123W	CMF RESISTOR 12kΩ,1/16W	R3010		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W
R1625		NRSA6AJ-181W	MG RESISTOR 180Ω,1/16W	R3011		NRSA6AJ-224W	MG RESISTOR 220kΩ,1/16W
R1626		NRSA6AJ-181W	MG RESISTOR 180Ω,1/16W	R3013		NRSA6AJ-242W	MG RESISTOR 2.4kΩ,1/16W
R1628		NRVA6AD-271W	CMF RESISTOR 270Ω,1/16W	R3014		NRSA6AJ-392W	MG RESISTOR 3.9kΩ,1/16W
R1629		NRSA6AJ-684W	MG RESISTOR 680kΩ,1/16W	R3015		NRSA6AJ-392W	MG RESISTOR 3.9kΩ,1/16W
R1630		NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W	R3016		NRSA6AD-560W	MG RESISTOR 56Ω,1/16W
R1631		NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W	R3017		NRSA6AD-560W	MG RESISTOR 56Ω,1/16W
R1635		NRSA6AJ-472W	MG RESISTOR 4.7kΩ,1/16W	R3018		NRSA6AD-560W	MG RESISTOR 56Ω,1/16W
R1636		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W	R3019		NRSA6AD-560W	MG RESISTOR 56Ω,1/16W
R1637		NRSA6AJ-154W	MG RESISTOR 150kΩ,1/16W	R3020		NRSA6AD-512W	MG RESISTOR 5.1kΩ,1/16W
R2006		NRSA6AJ-100W	MG RESISTOR 10Ω,1/16W	R3021		NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
R2007		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R3022		NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
R2008		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R3023		NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
R2009		NRSA6AJ-332W	MG RESISTOR 3.3kΩ,1/16W	R3024		NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
R2010		NRSA6AJ-273W	MG RESISTOR,G 27kΩ,1/16W	R3027		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W
R2011		NRSA6AJ-0R0W	MG RESISTOR,A,B,C,D,E,F,H 0Ω,1/16W	R3029		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W
		NRSA6AJ-223W	MG RESISTOR,G 22kΩ,1/16W	R3030		NRSA6AJ-224W	MG RESISTOR 220kΩ,1/16W
R2012		NRSA6AJ-273W	MG RESISTOR,G 27kΩ,1/16W	R3031		NRSA6AJ-224W	MG RESISTOR 220kΩ,1/16W
R2013		NRSA6AJ-223W	MG RESISTOR,G 22kΩ,1/16W	R3033		NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
		NRSA6AJ-0R0W	MG RESISTOR,A,B,C,D,E,F,H 0Ω,1/16W	R3034		NRSA6AJ-222W	MG RESISTOR 2.2kΩ,1/16W
R2014		NRSA6AJ-820W	MG RESISTOR 82Ω,1/16W	R3041		NRSA6AJ-561W	MG RESISTOR 560Ω,1/16W
R2015		NRSA6AJ-820W	MG RESISTOR 82Ω,1/16W	R3042		NRSA6AJ-561W	MG RESISTOR 560Ω,1/16W
R2016		NRSA6AJ-820W	MG RESISTOR 82Ω,1/16W	R3043		NRSA6AJ-561W	MG RESISTOR 560Ω,1/16W
R2017		NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W	R3044		NRSA6AJ-392W	MG RESISTOR 3.9kΩ,1/16W
R2018		NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W	R3046		NRSA6AD-222W	MG RESISTOR 2.2kΩ,1/16W
R2019		NRSA6AJ-2R7W	MG RESISTOR 2.7Ω,1/16W	R3050		NRSA6AJ-101W	MG RESISTOR 100Ω,1/16W

#	△ REF No.	PART No.	PART NAME, DESCRIPTION	#	△ REF No.	PART No.	PART NAME, DESCRIPTION	
R3052		NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R4302	NRSA6AJ-100W	MG RESISTOR	10Ω, 1/16W
R3053		NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R3054		NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R4307	NRSA6AD-333W	MG RESISTOR	33kΩ, 1/16W
R3055		NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R4308	NRSA6AD-682W	MG RESISTOR	6.8kΩ, 1/16W
R3501		NRSA6AJ-471W	MG RESISTOR	470Ω, 1/16W	R4311	NRSA6AD-272W	MG RESISTOR	2.7kΩ, 1/16W
R3502		NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W	R4312	NRSA6AD-272W	MG RESISTOR	2.7kΩ, 1/16W
R3503		NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W	R4313	NRSA6AD-272W	MG RESISTOR	2.7kΩ, 1/16W
R3504		NRSA6AD-241W	MG RESISTOR	240Ω, 1/16W	R4314	NRSA6AD-123W	MG RESISTOR	12kΩ, 1/16W
R3505		NRSA6AD-241W	MG RESISTOR	240Ω, 1/16W	R4315	NRSA6AD-103W	MG RESISTOR	10kΩ, 1/16W
R3506		NRSA6AD-241W	MG RESISTOR	240Ω, 1/16W	R4316	NRSA6AD-111W	MG RESISTOR	110Ω, 1/16W
R3507		NRSA6AD-241W	MG RESISTOR	240Ω, 1/16W	R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R3508		NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W	R4318	NRSA6AJ-152W	MG RESISTOR	1.5kΩ, 1/16W
R3521		NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R4319	NRSA6AD-111W	MG RESISTOR	110Ω, 1/16W
R3522		NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R4320	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R3701		NRSA6AD-241W	MG RESISTOR	240Ω, 1/16W	R4321	NRSA6AJ-152W	MG RESISTOR	1.5kΩ, 1/16W
R3702		NRSA6AD-241W	MG RESISTOR	240Ω, 1/16W	R4322	NRSA6AD-111W	MG RESISTOR	110Ω, 1/16W
R3703		NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W	R4323	NRSA6AD-101W	MG RESISTOR	100Ω, 1/16W
R3704		NRSA6AJ-0R0W	MG RESISTOR,A,B,C,D,E,F,H	0Ω, 1/16W	R4324	NRSA6AJ-152W	MG RESISTOR	1.5kΩ, 1/16W
R3705		NRSA6AJ-0R0W	MG RESISTOR,A,B,C,D,E,F,H	0Ω, 1/16W	R4326	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R3706		NRSA6AD-221W	MG RESISTOR	220Ω, 1/16W	R4327	NRSA6AJ-152W	MG RESISTOR	1.5kΩ, 1/16W
R3707		NRSA6AD-221W	MG RESISTOR	220Ω, 1/16W	R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R3708		NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W	R4336	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R3709		NRSA6AJ-104W	MG RESISTOR,G	100kΩ, 1/16W	R4338	NRSA6AJ-220W	MG RESISTOR	22Ω, 1/16W
R3710		NRSA6AJ-104W	MG RESISTOR,G	100kΩ, 1/16W	R4340	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R3711		NRSA6AD-680W	MG RESISTOR	68Ω, 1/16W	R4343	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R3712		NRSA6AD-680W	MG RESISTOR	68Ω, 1/16W	R4344	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R3713		NRSA6AD-680W	MG RESISTOR	68Ω, 1/16W	R4346	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R3714		NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R4347	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W
R3715		NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R4348	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W
R3716		NRSA6AJ-105W	MG RESISTOR	1MΩ, 1/16W	R4349	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W
R3717		NRSA6AJ-823W	MG RESISTOR	82kΩ, 1/16W	R4350	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W
R3718		NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W	R4351	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W
R3719		NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R4804	NRSA6AJ-331W	MG RESISTOR	330Ω, 1/16W
R3721		NRSA6AJ-101W	MG RESISTOR,G	100Ω, 1/16W	R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W
R3722		NRSA6AJ-472W	MG RESISTOR,G	4.7kΩ, 1/16W	R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ, 1/16W
R3723		NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W	R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ, 1/16W
R3724		NRSA6AJ-392W	MG RESISTOR,A,B,C,D,E,F,H	3.9kΩ, 1/16W	R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ, 1/16W
R3901		NRSA6AD-681W	MG RESISTOR,G	680Ω, 1/16W	R4809	NRSA6AJ-681W	MG RESISTOR	680Ω, 1/16W
R3904		NRSA6AD-821W	MG RESISTOR,G	820Ω, 1/16W	R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W
R3905		NRSA63J-0R0X	MG RESISTOR,G	0Ω, 1/16W	R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ, 1/16W
R3911		NRSA6AJ-0R0W	MG RESISTOR,G	0Ω, 1/16W	R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ, 1/16W
R3951		NRSA6AD-561W	MG RESISTOR,G	560Ω, 1/16W	R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ, 1/16W
R3953		NRSA6AD-152W	MG RESISTOR,G	1.5kΩ, 1/16W	R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W
R3954		NRSA6AJ-222W	MG RESISTOR,G	2.2kΩ, 1/16W	R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ, 1/16W
R3955		NRSA6AJ-102W	MG RESISTOR,G	1kΩ, 1/16W	R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ, 1/16W
R3956		NRSA6AJ-474W	MG RESISTOR,G	470kΩ, 1/16W	R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ, 1/16W
R3961		NRSA6AD-561W	MG RESISTOR,G	560Ω, 1/16W	R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W
R3962		NRSA6AJ-822W	MG RESISTOR,G	8.2kΩ, 1/16W	R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
R3963		NRSA6AD-182W	MG RESISTOR,G	1.8kΩ, 1/16W	R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
R3964		NRSA6AJ-183W	MG RESISTOR,G	18kΩ, 1/16W	R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ, 1/16W
R3965		NRSA6AJ-183W	MG RESISTOR,G	18kΩ, 1/16W	R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R3966		NRSA6AJ-681W	MG RESISTOR,G	680Ω, 1/16W	R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W
R3967		NRSA6AJ-821W	MG RESISTOR,G	820Ω, 1/16W	R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
R3968		NRSA6AJ-821W	MG RESISTOR,G	820Ω, 1/16W	R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R3969		NRSA6AJ-102W	MG RESISTOR,G	1kΩ, 1/16W	R4856	NRSA63J-6R8X	MG RESISTOR	6.8Ω, 1/16W
R4202		NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R4857	NRSA63J-6R8X	MG RESISTOR	6.8Ω, 1/16W
R4203		NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ, 1/16W
R4204		NRSA6AJ-220W	MG RESISTOR	22Ω, 1/16W	R4862	NRSA63J-6R8X	MG RESISTOR	6.8Ω, 1/16W
R4205		NRSA6AJ-243W	MG RESISTOR	24kΩ, 1/16W	R4863	NRSA63J-6R8X	MG RESISTOR	6.8Ω, 1/16W
R4206		NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W	R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4207		NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W	R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4208		NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W	R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4301		NRSA6AJ-101W	MG RESISTOR	100Ω, 1/16W	R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W

#	△ REF No.	PART No.	PART NAME, DESCRIPTION	#	△ REF No.	PART No.	PART NAME, DESCRIPTION
	R4868	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R6223	NRVA6AD-123W	CMF RESISTOR 12kΩ,1/16W
	R4870	NRVA6AD-271W	CMF RESISTOR 270Ω,1/16W		R6224	NRVA6AD-473W	CMF RESISTOR 47kΩ,1/16W
	R4874	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R6225	NRVA6AD-562W	CMF RESISTOR 5.6kΩ,1/16W
	R5501	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R6226	NRVA6AD-223W	CMF RESISTOR 22kΩ,1/16W
	R5503	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R6227	NRVA6AD-473W	CMF RESISTOR 47kΩ,1/16W
	R5504	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R6228	NRVA6AD-473W	CMF RESISTOR 47kΩ,1/16W
	R5505	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R6229	NRVA6AD-332W	CMF RESISTOR 3.3kΩ,1/16W
	R5506	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R6230	NRSA6AJ-272W	MG RESISTOR 2.7kΩ,1/16W
	R5507	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R6231	NRVA6AD-104W	CMF RESISTOR 100kΩ,1/16W
	R5509	NRSA6AJ-470W	MG RESISTOR 47Ω,1/16W		R6232	NRVA6AD-473W	CMF RESISTOR 47kΩ,1/16W
	R5510	NRSA6AJ-470W	MG RESISTOR 47Ω,1/16W		R6233	NRSA6AJ-822W	MG RESISTOR 8.2kΩ,1/16W
	R5511	NRSA6AJ-470W	MG RESISTOR 47Ω,1/16W		R6234	NRSA6AJ-273W	MG RESISTOR 27kΩ,1/16W
	R5512	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W		R6235	NRVA6AD-683W	CMF RESISTOR 68kΩ,1/16W
	R5513	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W		R6236	NRVA6AD-473W	CMF RESISTOR 47kΩ,1/16W
	R5514	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W		R6237	NRVA6AD-753W	CMF RESISTOR 75kΩ,1/16W
	R6001	NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W		R6238	NRVA6AD-104W	CMF RESISTOR 100kΩ,1/16W
	R6002	NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W		R6239	NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W
	R6003	NRSA6AJ-224W	MG RESISTOR 220kΩ,1/16W		R6240	NRSA6AJ-333W	MG RESISTOR 33kΩ,1/16W
	R6004	NRSA6AJ-183W	MG RESISTOR 18kΩ,1/16W		R6241	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W
	R6005	NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W		R6242	NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W
△	R6009	NRSA63J-102X	MG RESISTOR 1kΩ,1/16W		R6243	NRSA6AJ-823W	MG RESISTOR 82kΩ,1/16W
	R6010	NRSA6AJ-473W	MG RESISTOR 47kΩ,1/16W		R6244	NRSA6AJ-152W	MG RESISTOR 1.5kΩ,1/16W
	R6011	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W		R6245	NRSA6AJ-562W	MG RESISTOR 5.6kΩ,1/16W
	R6012	NRVA6AD-104W	CMF RESISTOR 100kΩ,1/16W		R6246	NRSA6AJ-222W	MG RESISTOR 2.2kΩ,1/16W
	R6013	NRVA6AD-683W	CMF RESISTOR 68kΩ,1/16W		R6701	NRZ0058-R20X	MG RESISTOR 0.2Ω
	R6014	NRSA63J-0R0X	MG RESISTOR,C,D,F,G,H 0Ω,1/16W		R6702	NRVA6AD-104W	CMF RESISTOR 100kΩ,1/16W
	R6015	NRVA6AD-104W	CMF RESISTOR 100kΩ,1/16W		R6703	NRVA6AD-123W	CMF RESISTOR 12kΩ,1/16W
	R6016	NRVA6AD-333W	CMF RESISTOR 33kΩ,1/16W		R6712	NRVA6AD-823W	CMF RESISTOR 82kΩ,1/16W
	R6101	NRVA6AD-103W	CMF RESISTOR 10kΩ,1/16W		R6713	NRVA6AD-333W	CMF RESISTOR 33kΩ,1/16W
	R6102	NRVA6AD-751W	CMF RESISTOR 750Ω,1/16W		R8001	NRSA63J-270X	MG RESISTOR 27Ω,1/16W
	R6103	NRVA6AD-333W	CMF RESISTOR 33kΩ,1/16W		R8002	NRSA6AJ-101W	MG RESISTOR 100Ω,1/16W
	R6104	NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W		R8003	NRSA6AJ-101W	MG RESISTOR 100Ω,1/16W
	R6105	NRVA6AD-123W	CMF RESISTOR 12kΩ,1/16W		R8004	NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W
	R6106	NRSA6AJ-333W	MG RESISTOR 33kΩ,1/16W		R8006	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W
	R6107	NRVA6AD-562W	CMF RESISTOR 5.6kΩ,1/16W		R8014	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6108	NRSA6AJ-223W	MG RESISTOR 22kΩ,1/16W		R8015	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6110	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R8016	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6113	NRSA6AJ-472W	MG RESISTOR 4.7kΩ,1/16W		R8017	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6114	NRSA6AJ-823W	MG RESISTOR 82kΩ,1/16W		R8018	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6115	NRSA6AJ-823W	MG RESISTOR 82kΩ,1/16W		R8019	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6116	NRVA6AD-153W	CMF RESISTOR 15kΩ,1/16W		R8020	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6117	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W		R8021	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6118	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W		R8022	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6122	NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W		R8023	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6124	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W		R8024	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6201	NRVA6AD-243W	CMF RESISTOR 24kΩ,1/16W		R8025	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6203	NRVA6AD-123W	CMF RESISTOR 12kΩ,1/16W		R8026	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6204	NRSA6AJ-473W	MG RESISTOR 47kΩ,1/16W		R8027	NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W
	R6205	NRSA6AJ-102W	MG RESISTOR 1kΩ,1/16W		R8030	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6206	NRVA6AD-183W	CMF RESISTOR 18kΩ,1/16W		R8031	NRSA6AJ-223W	MG RESISTOR 22kΩ,1/16W
	R6207	NRVA6AD-123W	CMF RESISTOR 12kΩ,1/16W		R8035	NRSA6AJ-331W	MG RESISTOR 330Ω,1/16W
	R6208	NRVA6AD-123W	CMF RESISTOR 12kΩ,1/16W		R8038	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6209	NRVA6AD-153W	CMF RESISTOR 15kΩ,1/16W		R8056	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6210	NRVA6AD-183W	CMF RESISTOR 18kΩ,1/16W		R8059	NRSA6AJ-473W	MG RESISTOR 47kΩ,1/16W
	R6212	NRVA6AD-472W	CMF RESISTOR 4.7kΩ,1/16W		R8060	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6213	NRSA6AJ-103W	MG RESISTOR 10kΩ,1/16W		R8401	NRSA6AJ-105W	MG RESISTOR 1MΩ,1/16W
	R6214	NRSA6AJ-152W	MG RESISTOR 1.5kΩ,1/16W		R8402	NRS181J-220X	MG RESISTOR 22Ω,1/8W
	R6215	NRSA6AJ-473W	MG RESISTOR 47kΩ,1/16W		R8403	NRS181J-220X	MG RESISTOR 22Ω,1/8W
	R6217	NRSA6AJ-151W	MG RESISTOR 150Ω,1/16W		R8404	NRSA6AJ-152W	MG RESISTOR 1.5kΩ,1/16W
	R6218	NRSA6AJ-104W	MG RESISTOR 100kΩ,1/16W		R8406	NRSA6AJ-153W	MG RESISTOR 15kΩ,1/16W
	R6219	NRVA6AD-243W	CMF RESISTOR 24kΩ,1/16W		R8407	NRSA6AJ-0R0W	MG RESISTOR 0Ω,1/16W
	R6220	NRVA6AD-302W	CMF RESISTOR 3kΩ,1/16W		R8408	NRSA6AJ-223W	MG RESISTOR 22kΩ,1/16W
	R6221	NRVA6AD-104W	CMF RESISTOR 100kΩ,1/16W		R8409	NRSA6AJ-105W	MG RESISTOR 1MΩ,1/16W



#	△ REF No.	PART No.	PART NAME, DESCRIPTION		#	△ REF No.	PART No.	PART NAME, DESCRIPTION	
	RA1001	NRZ0034-102W	NETWORK RESISTOR	1kΩ		C1413	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
	RA1002	NRZ0034-102W	NETWORK RESISTOR	1kΩ		C1414	NCBA1CK-103W	CAPACITOR	0.01μF,16V
	RA1003	NRZ0034-102W	NETWORK RESISTOR	1kΩ		C1415	NCBA1CK-103W	CAPACITOR	0.01μF,16V
	RA1004	NRZ0034-102W	NETWORK RESISTOR	1kΩ		C1416	NCBA1CK-103W	CAPACITOR	0.01μF,16V
	RA1005	NRZ0034-102W	NETWORK RESISTOR	1kΩ		C1417	NCBA1CK-223W	CAPACITOR	0.022μF,16V
	RA1006	NRZ0034-102W	NETWORK RESISTOR	1kΩ		C1418	NCBA1CK-223W	CAPACITOR	0.022μF,16V
	RA1007	NRZ0034-102W	NETWORK RESISTOR	1kΩ		C1419	NCBA1CK-223W	CAPACITOR	0.022μF,16V
	RA1008	NRZ0034-104W	NETWORK RESISTOR	100kΩ		C1420	NCBA1CK-223W	CAPACITOR	0.022μF,16V
	RA1009	NRZ0034-104W	NETWORK RESISTOR	100kΩ		C1601	NCBA1CK-103W	CAPACITOR	0.01μF,16V
	RA1010	NRZ0034-104W	NETWORK RESISTOR	100kΩ		C1602	NBE21AM-106X	T CAPACITOR	10μF,10V
	RA1401	NRZ0034-473W	NETWORK RESISTOR	47kΩ		C1603	NBE21AM-106X	T CAPACITOR	10μF,10V
	RA1402	NRZ0034-102W	NETWORK RESISTOR	1kΩ		C1605	NCBA1AK-104W	CAPACITOR	0.1μF,10V
	RA1403	NRZ0034-102W	NETWORK RESISTOR	1kΩ		C1606	NCB31HK-152X	CAPACITOR	0.0015μF,50V
	RA4301	NRZ0034-101W	NETWORK RESISTOR	100Ω		C1607	NCBA1AK-473W	CAPACITOR	0.047μF,10V
	RA4302	NRZ0034-101W	NETWORK RESISTOR	100Ω		C1614	NBE21AM-106X	T CAPACITOR	10μF,10V
	RA4303	NRZ0034-101W	NETWORK RESISTOR	100Ω		C1618	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
	RA4304	NRZ0034-100W	NETWORK RESISTOR	10Ω		C1619	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
	RA4305	NRZ0034-100W	NETWORK RESISTOR	10Ω		C1620	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
	RA4306	NRZ0034-100W	NETWORK RESISTOR	10Ω		C1621	NCB21CK-105X	CAPACITOR	1μF,16V
	RA8401	NRZ0034-221W	NETWORK RESISTOR	220Ω		C1622	NCBA1CK-223W	CAPACITOR	0.022μF,16V
	RA8402	NRZ0034-221W	NETWORK RESISTOR	220Ω		C1623	NCBA1AK-473W	CAPACITOR	0.047μF,10V
	RA8403	NRZ0034-100W	NETWORK RESISTOR	10Ω		C1624	NCBA1CK-103W	CAPACITOR	0.01μF,16V
	RA8404	NRZ0034-100W	NETWORK RESISTOR	10Ω		C1625	NCBA1AK-473W	CAPACITOR	0.047μF,10V
	C1001	NBE20JM-226X	T CAPACITOR	22μF,6.3V		C1626	NCBA1HK-331W	CAPACITOR	330pF,50V
	C1002	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C1627	NCBA1CK-822W	CAPACITOR	0.0082μF,16V
	C1003	NBE20JM-226X	T CAPACITOR	22μF,6.3V		C1628	NCB21CK-224X	CAPACITOR	0.22μF,16V
	C1004	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C1632	NBE21AM-106X	T CAPACITOR	10μF,10V
	C1005	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C1633	NCB21CK-474X	CAPACITOR	0.47μF,16V
	C1006	NDCA1HJ-130W	CAPACITOR	13pF,50V		C1635	NCBA1AK-104W	CAPACITOR	0.1μF,10V
	C1007	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C1641	NCB21CK-474X	CAPACITOR	0.47μF,16V
	C1008	NCBA1CK-103W	CAPACITOR.A.B.E	0.01μF,16V		C2001	NBE20JM-106X	T CAPACITOR	10μF,6.3V
	C1009	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2002	NBE20JM-106X	T CAPACITOR	10μF,6.3V
	C1010	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2004	NCB21CK-105X	CAPACITOR	1μF,16V
	C1011	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2005	NCB21CK-105X	CAPACITOR	1μF,16V
	C1012	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2006	NCBA1AK-104W	CAPACITOR,G	0.1μF,10V
	C1013	NCBA1CK-103W	CAPACITOR,A,B,E	0.01μF,16V			NCBA1CK-103W	CAPACITOR,A,B,C,D,E,F,H	0.01μF,16V
	C1014	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2007	NCBA1AK-104W	CAPACITOR,G	0.1μF,10V
	C1015	NCBA1CK-103W	CAPACITOR	0.01μF,16V			NCBA1CK-103W	CAPACITOR,A,B,C,D,E,F,H	0.01μF,16V
	C1016	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2008	NCB21CK-105X	CAPACITOR	1μF,16V
	C1017	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2009	NCB21CK-105X	CAPACITOR	1μF,16V
	C1018	NCBA1CK-103W	CAPACITOR,A,B.E	0.01μF,16V		C2010	NCB21CK-105X	CAPACITOR	1μF,16V
	C1019	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2011	NBE20JM-106X	T CAPACITOR	10μF,6.3V
	C1023	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2012	NBE20JM-106X	T CAPACITOR	10μF,6.3V
	C1026	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2013	NCBA1AK-104W	CAPACITOR	0.1μF,10V
	C1027	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2014	NCBA1AK-104W	CAPACITOR	0.1μF,10V
	C1028	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2015	NBE20JM-106X	T CAPACITOR	10μF,6.3V
	C1029	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2016	NCBA1CK-223W	CAPACITOR	0.022μF,16V
	C1030	NCBA1CK-103W	CAPACITOR	0.01μF,16V		C2017	NCBA1AK-333W	CAPACITOR	0.033μF,10V
	C1031	NCB30JK-105X	CAPACITOR	1μF,6.3V		C2018	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C1036	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2019	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C1039	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2020	NCBA1AK-104W	CAPACITOR	0.1μF,10V
	C1040	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2021	NCBA1AK-104W	CAPACITOR	0.1μF,10V
	C1041	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2101	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C1307	NCBA1AK-104W	CAPACITOR	0.1μF,10V		C2102	NCB31CK-104X	CAPACITOR	0.1μF,16V
	C1401	NBE20JM-106X	T CAPACITOR	10μF,6.3V		C2103	NCB21CK-105X	CAPACITOR	1μF,16V
	C1402	NBE20JM-106X	T CAPACITOR	10μF,6.3V		C2104	NCB21CK-105X	CAPACITOR	1μF,16V
	C1405	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2109	NBE20JM-106X	T CAPACITOR	10μF,6.3V
	C1406	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2110	NCB21CK-105X	CAPACITOR	1μF,16V
	C1408	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2111	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
	C1409	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2112	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
	C1410	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2113	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
	C1411	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2114	NCBA1EK-472W	CAPACITOR	0.0047μF,25V
	C1412	NCFA1AZ-104W	CAPACITOR	0.1μF,10V		C2115	NCB31CK-104X	CAPACITOR	0.1μF,16V

#	△ REF No.	PART No.	PART NAME, DESCRIPTION	#	△ REF No.	PART No.	PART NAME, DESCRIPTION
C2116		NCB31CK-104X	CAPACITOR 0.1μF,16V	C3502		NBE20JM-106X	T CAPACITOR 10μF,6.3V
C2121		NCBA1CK-223W	CAPACITOR 0.022μF,16V	C3503		NBE20JM-106X	T CAPACITOR 10μF,6.3V
C2122		NCBA1CK-223W	CAPACITOR 0.022μF,16V	C3504		NCBA1AK-473W	CAPACITOR 0.047μF,10V
C2123		NCBA1CK-223W	CAPACITOR 0.022μF,16V	C3505		NCBA1CK-223W	CAPACITOR 0.022μF,16V
C2124		NCBA1CK-223W	CAPACITOR 0.022μF,16V	C3506		NCB21CK-105X	CAPACITOR 1μF,16V
C2125		NCBA1CK-223W	CAPACITOR 0.022μF,16V	C3507		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C2126		NCBA1CK-223W	CAPACITOR 0.022μF,16V	C3508		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C2131		NCBA1HK-102W	CAPACITOR 0.001μF,50V	C3509		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C2132		NCBA1HK-102W	CAPACITOR 0.001μF,50V	C3510		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C2133		NCBA1CK-223W	CAPACITOR 0.022μF,16V	C3511		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C2134		NCBA1CK-223W	CAPACITOR 0.022μF,16V	C3512		NCB31CK-104X	CAPACITOR 0.1μF,16V
C2201		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3513		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C2202		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3514		NCBA1AK-473W	CAPACITOR 0.047μF,10V
C3001		NBE20JM-106X	T CAPACITOR 10μF,6.3V	C3515		NCBA1AK-473W	CAPACITOR 0.047μF,10V
C3003		NCB21CK-105X	CAPACITOR 1μF,16V	C3516		NCBA1AK-473W	CAPACITOR 0.047μF,10V
C3004		NCB21CK-105X	CAPACITOR 1μF,16V	C3517		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C3005		NBE20JM-106X	T CAPACITOR 10μF,6.3V	C3518		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C3007		NCB11CK-105X	CAPACITOR 1μF,16V	C3519		NCBA1HK-102W	CAPACITOR 0.001μF,50V
C3008		NBE20JM-106X	T CAPACITOR 10μF,6.3V	C3520		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C3011		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3521		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C3012		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3522		NCB20JM-475X	CAPACITOR 4.7μF,6.3V
C3013		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3523		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C3015		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3524		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C3016		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3525		NCB20JM-475X	CAPACITOR 4.7μF,6.3V
C3017		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3526		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C3020		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3527		NDCA1EJ-221W	CAPACITOR 220pF,25V
C3021		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3701		NBE20JM-106X	T CAPACITOR 10μF,6.3V
C3022		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3702		NDCA1HJ-101W	CAPACITOR,G 100pF,50V
C3023		NDCA1HJ-330W	CAPACITOR 33pF,50V			NDCA1HJ-151W	CAPACITOR,A,B,C,D,E,F,H 150pF,50V
C3024		NCBA1HK-102W	CAPACITOR 0.001μF,50V	C3703		NDCA1HJ-330W	CAPACITOR 33pF,50V
C3025		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3704		NDCA1HJ-101W	CAPACITOR 100pF,50V
C3026		NCB30JK-105X	CAPACITOR 1μF,6.3V	C3705		NDCA1HJ-330W	CAPACITOR 33pF,50V
C3027		NCBA1EK-472W	CAPACITOR 0.0047μF,25V	C3706		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C3028		NDCA1EJ-271W	CAPACITOR 270pF,25V	C3707		NCFA1AZ-104W	CAPACITOR 0.1μF,10V
C3029		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3708		NCB30JK-105X	CAPACITOR 1μF,6.3V
C3030		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3709		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C3031		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3710		NCBA1CK-103W	CAPACITOR 0.01μF,16V
C3032		NCBA1HK-102W	CAPACITOR 0.001μF,50V	C3711		NBE20GM-226X	T CAPACITOR 22μF,4.0V
C3033		NDCA1HJ-470W	CAPACITOR 47pF,50V	C3712		NBE40GM-107X	T CAPACITOR 100μF,4.0V
C3034		NCBA1HK-102W	CAPACITOR 0.001μF,50V	C3713		NBE40GM-107X	T CAPACITOR 100μF,4.0V
C3035		NDCA1HJ-330W	CAPACITOR 33pF,50V	C3714		NBE20GM-226X	T CAPACITOR 22μF,4.0V
C3038		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3716		NCBA1CK-103W	CAPACITOR,G 0.01μF,16V
C3039		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3717		NCB30JK-105X	CAPACITOR,G 1μF,6.3V
C3040		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3718		NCB30JK-105X	CAPACITOR,G 1μF,6.3V
C3041		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3901		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3042		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3902		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3043		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3903		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3044		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3904		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3045		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3905		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3046		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3906		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3047		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3907		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3051		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3908		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3052		NCBA1HK-102W	CAPACITOR 0.001μF,50V	C3909		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3053		NCBA1AK-473W	CAPACITOR 0.047μF,10V	C3910		NCBA1CK-103W	CAPACITOR,G 0.01μF,16V
C3056		NCB30JK-105X	CAPACITOR 1μF,6.3V	C3911		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3057		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3912		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3058		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3913		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3060		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3914		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3061		NCB21CK-105X	CAPACITOR 1μF,16V	C3915		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3062		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3916		NBE20JM-106X	T CAPACITOR,G 10μF,6.3V
C3063		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C3917		NCBA1AK-104W	CAPACITOR,G 0.1μF,10V
C3064		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C3919		NCB21CK-105X	CAPACITOR,G 1μF,16V
C3501		NBE20JM-106X	T CAPACITOR 10μF,6.3V	C3920		NBE20JM-106X	T CAPACITOR,G 10μF,6.3V

#	△ REF No.	PART No.	PART NAME, DESCRIPTION		#	△ REF No.	PART No.	PART NAME, DESCRIPTION	
C3923		NBE20JM-106X	T CAPACITOR,G	10μF,6.3V	C4337		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3951		NBE20JM-226X	T CAPACITOR,G	22μF,6.3V	C4338		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3954		NCBA1AK-104W	CAPACITOR,G	0.1μF,10V	C4339		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3955		NDCA1HJ-3R0W	CAPACITOR,G	3pF,50V	C4340		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3956		NDCA1HJ-5R0W	CAPACITOR,G	5pF,50V	C4341		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3957		NDCA1HJ-330W	CAPACITOR,G	33pF,50V	C4342		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3958		NCB20JM-475X	CAPACITOR,G	4.7μF,6.3V	C4343		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3959		NCBA1CK-103W	CAPACITOR,G	0.01μF,16V	C4344		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3961		NCBA1HK-102W	CAPACITOR,G	0.001μF,50V	C4345		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3962		NDCA1HJ-3R0W	CAPACITOR,G	3pF,50V	C4346		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3963		NDCA1HJ-5R0W	CAPACITOR,G	5pF,50V	C4347		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3964		NDCA1HJ-330W	CAPACITOR,G	33pF,50V	C4348		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3965		NCBA1HK-102W	CAPACITOR,G	0.001μF,50V	C4349		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3967		NCBA1CK-103W	CAPACITOR,G	0.01μF,16V	C4350		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3968		NCBA1CK-103W	CAPACITOR,G	0.01μF,16V	C4803		NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4201		NBE40GM-107X	T CAPACITOR	100μF,4.0V	C4804		NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4202		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4805		NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4203		NCB30JK-105X	CAPACITOR	1μF,6.3V	C4806		NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4204		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4808		NCB30JK-105X	CAPACITOR	1μF,6.3V
C4205		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4809		NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4206		NCB21CK-105X	CAPACITOR	1μF,16V	C4810		NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4207		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4811		NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4208		NCBA1HK-392W	CAPACITOR	0.0039μF,50V	C4812		NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4209		NCB30JK-105X	CAPACITOR	1μF,6.3V	C4813		NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4210		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4814		NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4211		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4815		NCB31HK-152X	CAPACITOR	0.0015μF,50V
C4212		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4819		NCB31CK-104X	CAPACITOR	0.1μF,16V
C4213		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4851		NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4214		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4852		NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C4215		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4853		NBE21AM-335X	T CAPACITOR	3.3μF,10V
C4216		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4854		NBE21AM-106X	T CAPACITOR	10μF,10V
C4301		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4855		NCB31CK-104X	CAPACITOR	0.1μF,16V
C4303		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4858		NDCA1HJ-330W	CAPACITOR	33pF,50V
C4304		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4859		NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4305		NBE20JM-106X	T CAPACITOR	10μF,6.3V	C4860		NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4306		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4861		NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4307		NBE20JM-106X	T CAPACITOR	10μF,6.3V	C4862		NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4308		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4864		NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4309		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4865		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4310		NBE20JM-106X	T CAPACITOR	10μF,6.3V	C5501		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4311		NCB30JK-105X	CAPACITOR	1μF,6.3V	C5503		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4312		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5504		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4313		NBE20JM-226X	T CAPACITOR	22μF,6.3V	C5505		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4314		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5506		NBE40JM-476X	T CAPACITOR	47μF,6.3V
C4315		NBE20JM-106X	T CAPACITOR	10μF,6.3V	C5507		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4317		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5508		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4318		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5509		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4319		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5510		NBP21VM-105X	T CAPACITOR	1μF,35V
C4320		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5511		NBP21DM-475X	T CAPACITOR	4.7μF,20V
C4321		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5512		NBE21AM-106X	T CAPACITOR	10μF,10V
C4323		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5513		NCB31CK-104X	CAPACITOR	0.1μF,16V
C4324		NBE20JM-106X	T CAPACITOR	10μF,6.3V	C5514		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4325		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5515		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4327		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5516		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4328		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5517		NCB31CK-104X	CAPACITOR	0.1μF,16V
C4329		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5518		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4330		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5519		NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4331		NBE20JM-106X	T CAPACITOR	10μF,6.3V	C6001		NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4332		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6004		NCB21CK-105X	CAPACITOR	1μF,16V
C4333		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6005		NDCA1HJ-101W	CAPACITOR	100pF,50V
C4334		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6101		NCB21CK-105X	CAPACITOR	1μF,16V
C4335		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6102		NEA71CM-106X	E CAPACITOR	10μF,16V
C4336		NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6103		NCB21CK-105X	CAPACITOR	1μF,16V

#	△ REF No.	PART No.	PART NAME, DESCRIPTION	#	△ REF No.	PART No.	PART NAME, DESCRIPTION
C6105		NCB21CK-105X	CAPACITOR 1μF,16V	C8006		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6106		NCB21CK-105X	CAPACITOR 1μF,16V	C8007		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6107		NCB21CK-105X	CAPACITOR 1μF,16V	C8008		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6108		NCB21CK-105X	CAPACITOR 1μF,16V	C8009		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6109		NCB21CK-105X	CAPACITOR 1μF,16V	C8010		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6110		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C8011		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6111		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C8012		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6112		NCBA1AK-333W	CAPACITOR 0.033μF,10V	C8013		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6113		NCBA1HK-561W	CAPACITOR 560pF,50V	C8014		NBE40JM-476X	T CAPACITOR 47μF,6.3V
C6114		NCBA1HK-272W	CAPACITOR 0.0027μF,50V	C8015		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6115		NCBA1HK-561W	CAPACITOR 560pF,50V	C8016		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6116		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C8017		NCBA1HK-102W	CAPACITOR 0.001μF,50V
C6117		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C8018		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6118		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C8019		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6119		NDCA1HJ-101W	CAPACITOR 100pF,50V	C8020		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6120		NCB11CK-105X	CAPACITOR 1μF,16V	C8021		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6121		NCB31CK-104X	CAPACITOR 0.1μF,16V	C8022		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6122		NCBA1CK-223W	CAPACITOR 0.022μF,16V	C8023		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6123		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C8024		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6124		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C8025		NBE20JM-106X	T CAPACITOR 10μF,6.3V
C6125		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C8026		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6126		NCBA1CK-103W	CAPACITOR 0.01μF,16V	C8039		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6127		NCBA1HK-102W	CAPACITOR 0.001μF,50V	C8040		NDCA1HJ-270W	CAPACITOR 27pF,50V
C6128		NCB21CK-105X	CAPACITOR 1μF,16V	C8045		NBE20JM-106X	T CAPACITOR 10μF,6.3V
C6129		NCBA1HK-561W	CAPACITOR 560pF,50V	C8046		NBE21AM-106X	T CAPACITOR 10μF,10V
C6131		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C8047		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6132		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C8401		NBE20JM-106X	T CAPACITOR 10μF,6.3V
C6133		NCBA1AK-104W	CAPACITOR 0.1μF,10V	C8402		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6201		NCB21CK-105X	CAPACITOR 1μF,16V	C8403		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6202		NCB10JK-106X	CAPACITOR 10μF,6.3V	C8404		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6203		NCBA1HK-102W	CAPACITOR 0.001μF,50V	C8405		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6204		NCBA1HK-561W	CAPACITOR 560pF,50V	C8406		NBE21AM-106X	T CAPACITOR 10μF,10V
C6205		NCB21CK-105X	CAPACITOR 1μF,16V	C8407		NBE20JM-106X	T CAPACITOR 10μF,6.3V
C6206		NCB21CK-105X	CAPACITOR 1μF,16V	C8408		NBE20JM-106X	T CAPACITOR 10μF,6.3V
C6207		NCB10JK-106X	CAPACITOR 10μF,6.3V	C8409		NCBA1AK-104W	CAPACITOR 0.1μF,10V
C6208		NCBA1EK-472W	CAPACITOR 0.0047μF,25V	L1001		NQL315K-100X	COIL 10μH
C6209		NCB21CK-105X	CAPACITOR 1μF,16V	L1002		NQL315K-100X	COIL 10μH
C6210		NCB10JK-106X	CAPACITOR 10μF,6.3V	L1401		NQR0006-001X	FERRITE BEAD
C6211		NCBA1HK-102W	CAPACITOR 0.001μF,50V	L1402		NRSA02J-0R0X	MG RESISTOR 0Ω,1/10W
C6212		NCB21CK-105X	CAPACITOR 1μF,16V	L2001		NQL315K-100X	COIL 10μH
C6213		NCB11EK-105X	CAPACITOR 1μF,25V	L2002		NQL38DK-220X	COIL 22μH
C6214		NCB21CK-105X	CAPACITOR 1μF,16V	L3001		NQR0006-001X	FERRITE BEAD
C6215		NCB21CK-105X	CAPACITOR 1μF,16V	L3002		NQR0129-002X	FERRITE BEAD
C6216		NCBA1AK-683W	CAPACITOR 0.068μF,10V	L3003		NQR0129-002X	FERRITE BEAD
C6217		NCB21CK-105X	CAPACITOR 1μF,16V	L3004		NQR0006-001X	FERRITE BEAD
C6218		NCB21CK-105X	CAPACITOR 1μF,16V	L3005		NQR0129-002X	FERRITE BEAD
C6219		NCB21CK-224X	CAPACITOR 0.22μF,16V	L3006		NQR0006-001X	FERRITE BEAD
C6220		NCB21CK-105X	CAPACITOR 1μF,16V	L3007		NQL085J-2R2X	COIL 2.2μH
C6221		NCB11EK-105X	CAPACITOR 1μF,25V	L3008		NQL085J-120X	COIL 12μH
C6222		NCB11EK-105X	CAPACITOR 1μF,25V	L3009		NQL085J-120X	COIL 12μH
C6224		NCBA1HK-102W	CAPACITOR 0.001μF,50V	L3012		NQR0006-001X	FERRITE BEAD
C6225		NCBA1CK-103W	CAPACITOR 0.01μF,16V	L3013		NQR0006-001X	FERRITE BEAD
C6226		NCB21CK-105X	CAPACITOR 1μF,16V	L3501		NQR0129-002X	FERRITE BEAD
C6227		NCB11EK-105X	CAPACITOR 1μF,25V	L3502		NQL302N-100X	COIL 10μH
C6228		NCB11EK-105X	CAPACITOR 1μF,25V	L3503		NQR0006-001X	FERRITE BEAD
C6230		NCB21CK-105X	CAPACITOR 1μF,16V	L3504		NQR0006-001X	FERRITE BEAD
C6231		NCBA1CK-103W	CAPACITOR 0.01μF,16V	L3505		NQR0006-001X	FERRITE BEAD
C6701		NCB21CK-105X	CAPACITOR 1μF,16V	L3701		NQL38DK-100X	COIL 10μH
C6703		NCB11CK-105X	CAPACITOR 1μF,16V	L3901		NQR0006-001X	FERRITE BEAD,G
C8001		NCBA1AK-104W	CAPACITOR 0.1μF,10V	L3902		NQR0129-002X	FERRITE BEAD,G
C8002		NBE20JM-106X	T CAPACITOR 10μF,6.3V	L3904		NQL38DK-100X	COIL,G 10μH
C8003		NCBA1AK-104W	CAPACITOR 0.1μF,10V	L3951		NQL302N-100X	COIL,G 10μH
C8005		NCBA1AK-104W	CAPACITOR 0.1μF,10V	L3952		NQL085J-6R8X	COIL,G 6.8μH



#	△ REF No.	PART No.	PART NAME, DESCRIPTION	#	△ REF No.	PART No.	PART NAME, DESCRIPTION
R18		NRSA63J-473X	MG RESISTOR 47kΩ,1/16W	C7608		NCB31EK-103X	CAPACITOR 0.01μF,25V
R19		NRSA63J-103X	MG RESISTOR 10kΩ,1/16W	C7609		NCB31CK-104X	CAPACITOR 0.1μF,16V
R21		NRSA63J-103X	MG RESISTOR 10kΩ,1/16W	C7610		NCB11CK-225X	CAPACITOR 2.2μF,16V
R22		NRSA63J-473X	MG RESISTOR 47kΩ,1/16W	C7611		NCB11CK-225X	CAPACITOR 2.2μF,16V
R23		NRSA63J-104X	MG RESISTOR 100kΩ,1/16W	C7612		NCB11CK-225X	CAPACITOR 2.2μF,16V
R24		NRSA63J-0R0X	MG RESISTOR 0Ω,1/16W	C7613		NCB11CK-225X	CAPACITOR 2.2μF,16V
R27		NRSA63J-0R0X	MG RESISTOR 0Ω,1/16W	C7614		NCB31HK-152X	CAPACITOR 0.0015μF,50V
R7101		NRSA63J-562X	MG RESISTOR,A,B,C,D,H 5.6kΩ,1/16W	C7615		NCB31EK-103X	CAPACITOR 0.01μF,25V
R7102		NRSA63J-562X	MG RESISTOR,A,B,C,D,H 5.6kΩ,1/16W	C7616		NCB31EK-103X	CAPACITOR 0.01μF,25V
R7103		NRSA63J-103X	MG RESISTOR,A,B,C,D,H 10kΩ,1/16W	C7617		NCB31EK-103X	CAPACITOR 0.01μF,25V
R7104		NRSA63J-0R0X	MG RESISTOR 0Ω,1/16W	C7618		NCB10JK-106X	CAPACITOR 10μF,6.3V
R7110		NRSA63J-0R0X	MG RESISTOR,A,B,C,D,H 0Ω,1/16W	C7619		NCB10JK-106X	CAPACITOR 10μF,6.3V
R7111		NRSA63J-0R0X	MG RESISTOR,A,B,C,D,H 0Ω,1/16W	C7620		NCB31EK-103X	CAPACITOR 0.01μF,25V
R7112		NRSA63J-0R0X	MG RESISTOR,A,B,C,D,H 0Ω,1/16W	C7621		NCB21CK-105X	CAPACITOR 1μF,16V
R7113		NRSA63J-0R0X	MG RESISTOR,A,B,C,D,H 0Ω,1/16W	C7622		NCB21CK-105X	CAPACITOR 1μF,16V
R7114		NRSA63J-0R0X	MG RESISTOR,A,B,C,D,H 0Ω,1/16W	C7623		NBE21AM-106X	T CAPACITOR 10μF,10V
R7115		NRSA63J-0R0X	MG RESISTOR,A,B,C,D,H 0Ω,1/16W	C7624		NCB31EK-103X	CAPACITOR 0.01μF,25V
R7601		NRVA63D-622X	CMF RESISTOR 6.2kΩ,1/16W	C7626		NCB31CK-104X	CAPACITOR 0.1μF,16V
R7602		NRSA63J-153X	MG RESISTOR 15kΩ,1/16W	C7627		NCF31CZ-104X	CAPACITOR 0.1μF,16V
R7603		NRSA63J-683X	MG RESISTOR 68kΩ,1/16W	C7628		NBP41EM-475X	T CAPACITOR 4.7μF,25V
R7608		NRSA63J-153X	MG RESISTOR 15kΩ,1/16W	C7629		NBP21CM-335X	T CAPACITOR 3.3μF,16V
R7609		NRVA63D-223X	CMF RESISTOR 22kΩ,1/16W	C7630		NBP41EM-475X	T CAPACITOR 4.7μF,25V
R7610		NRVA63D-433X	CMF RESISTOR 43kΩ,1/16W	C7631		NCB31EK-103X	CAPACITOR 0.01μF,25V
R7611		NRVA63D-821X	CMF RESISTOR 820Ω,1/16W	C7632		NBP41EM-475X	T CAPACITOR 4.7μF,25V
R7612		NRVA63D-682X	CMF RESISTOR,E,F,G,H 6.8kΩ,1/16W	C7633		NCB31EK-103X	CAPACITOR 0.01μF,25V
		NRVA63D-223X	CMF RESISTOR,A,B,C,D 22kΩ,1/16W	C7634		NCB10JK-106X	CAPACITOR 10μF,6.3V
R7613		NRVA63D-223X	CMF RESISTOR 22kΩ,1/16W	C7635		NCB31EK-103X	CAPACITOR 0.01μF,25V
R7614		NRVA63D-223X	CMF RESISTOR 22kΩ,1/16W	C7636		NCF31CZ-104X	CAPACITOR,E,F,G,H 0.1μF,16V
R7615		NRSA63J-223X	MG RESISTOR 22kΩ,1/16W	C7637		NCB31EK-103X	CAPACITOR 0.01μF,25V
R7616		NRSA63J-223X	MG RESISTOR 22kΩ,1/16W	C7638		NCB21AK-225X	CAPACITOR,E,F,G 2.2μF,10V
R7617		NRSA02J-561X	MG RESISTOR 560Ω,1/10W	C7639		NBE21AM-106X	T CAPACITOR,E,F,G 10μF,10V
R7618		NRSA02J-561X	MG RESISTOR 560Ω,1/10W	C7640		NCB31EK-103X	CAPACITOR 0.01μF,25V
R7621		NRSA63J-0R0X	MG RESISTOR,A,B,C,D 0Ω,1/16W	C7642		NCF31CZ-104X	CAPACITOR 0.1μF,16V
R7622		NRSA63J-223X	MG RESISTOR,E,F,G,H 22kΩ,1/16W	L10		NQR0129-002X	FERRITE BEAD
R7623		NRSA63J-223X	MG RESISTOR,E,F,G,H 22kΩ,1/16W	L7601		NQL315K-100X	COIL 10μH
R7624		NRVA63D-223X	CMF RESISTOR,E,F,G,H 22kΩ,1/16W	L7602		NQL315K-100X	COIL 10μH
R7625		NRVA63D-223X	CMF RESISTOR,E,F,G,H 22kΩ,1/16W	L7604		NQL315K-100X	COIL 10μH
R7626		NRVA63D-183X	CMF RESISTOR,E,F,G 18kΩ,1/16W	L7605		NQL315K-100X	COIL,A,B,C,D 10μH
R7627		NRVA63D-334X	CMF RESISTOR,E,F,G 330kΩ,1/16W	L7606		NQL315K-100X	COIL,E,F,G,H 10μH
R7628		NRSA63J-224X	MG RESISTOR,E,F,G 220kΩ,1/16W	L7607		NQL315K-100X	COIL 10μH
R7629		NRSA63J-393X	MG RESISTOR,E,F,G 39kΩ,1/16W	SW1		NSW0092-001X	SLIDE SWITCH,LIGHT
R7630		NRSA63J-223X	MG RESISTOR 22kΩ,1/16W	SW2		NSW0008-001X	TACT SWITCH,STOP
R7631		NRSA63J-335X	MG RESISTOR 3.3MΩ,1/16W	SW3		NSW0008-001X	TACT SWITCH,REW
R7633		NRSA63J-103X	MG RESISTOR 10kΩ,1/16W	SW4		NSW0008-001X	TACT SWITCH,FF
R7640		NRSA63J-0R0X	MG RESISTOR,E,F,G 0Ω,1/16W	SW5		NSW0008-001X	TACT SWITCH,PLAY/PAUSE
R7641		NRSA63J-0R0X	MG RESISTOR,E,F,G 0Ω,1/16W	SW6		NSW0099-001X	SLIDE SWITCH,DSC
R7642		NRSA63J-0R0X	MG RESISTOR,E,F,G 0Ω,1/16W	SW7601		NSW0105-001X	DETECT SWITCH,OPEN
R7643		NRSA63J-0R0X	MG RESISTOR,E,F,G 0Ω,1/16W	CN761		QGF0508F1-50X	FPC CONNECTOR
R7644		NRSA63J-0R0X	MG RESISTOR,E,F,G 0Ω,1/16W	CN763		QGF0507F3-20X	FFC/FPC CONNECTOR
R7645		NRSA63J-0R0X	MG RESISTOR,E,F,G 0Ω,1/16W	CN764		QGF0305F1-33X	FPC CONNECTOR
R7646		NRSA63J-0R0X	MG RESISTOR,E,F,G 0Ω,1/16W	CN765		QGA1201F2-02X	CONNECTOR
C1		NCB31EK-103X	CAPACITOR 0.01μF,25V	CN766		NNZ0058-001X	SD CARD CONNECTOR
C11		NBE20JM-106X	T CAPACITOR 10μF,6.3V	△ BT1		QAB0025-001	LI BATTERY
C7101		NCF31CZ-104X	CAPACITOR 0.1μF,16V	OT1		LY43043-001B	SHIELD SHEET
C7102		NCB31HK-103X	CAPACITOR 0.01μF,50V	OT2		LY43119-001A	SHIELD SHEET,A,B,C,D,H
C7103		NBE20JM-475X	T CAPACITOR,A,B,C,D,H 4.7μF,6.3V				
C7601		NCB21CK-105X	CAPACITOR 1μF,16V				
C7602		NCB31EK-103X	CAPACITOR 0.01μF,25V				
C7603		NCB11CK-225X	CAPACITOR 2.2μF,16V				
C7604		NCB11CK-225X	CAPACITOR 2.2μF,16V				
C7605		NCB11CK-225X	CAPACITOR 2.2μF,16V				
C7606		NCB31CK-104X	CAPACITOR 0.1μF,16V				
C7607		NBP41CM-106X	T CAPACITOR 10μF,16V				

# ▲ REF No. PART No. PART NAME, DESCRIPTION

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**LCD BL BOARD ASSEMBLY <03>**

PW2	YB10324A2-02	LCD BL BOARD ASSY,E,F,G,H	
	YB10324B2-02	LCD BL BOARD ASSY,A,B	
	YB10325B	LCD BL BOARD ASSY,C,D	
IC751	MIP805	IC,E,F,G,H	
Q7501	2SC3647/ST/-X	POW TRANSISTOR	
Q7502	2SC3647/ST/-X	POW TRANSISTOR	
Q7503	DTA144EE	TRANSISTOR	
	or RN2104	TRANSISTOR	
	or UN9113J	TRANSISTOR	
Q7504	2SC4617/QR/-X	TRANSISTOR	
D751	1SS376	DIODE,E,F,G,H	
R751	NRSA63J-104X	MG RESISTOR,E,F,G,H	100kΩ, 1/16W
R7501	NRSA63J-102X	MG RESISTOR	1kΩ, 1/16W
R7502	NRSA63J-102X	MG RESISTOR	1kΩ, 1/16W
R7503	NRSA63J-102X	MG RESISTOR	1kΩ, 1/16W
R7506	NRSA63J-473X	MG RESISTOR	47kΩ, 1/16W
R7507	NRSA63J-473X	MG RESISTOR	47kΩ, 1/16W
C751	NBE20JM-106X	T CAPACITOR,E,F,G,H	10μF,6.3V
C752	NBE20JM-106X	T CAPACITOR,E,F,G,H	10μF,6.3V
C753	NCB31HK-222X	CAPACITOR,E,F,G,H	0.0022μF,50V
C754	NCB31HK-222X	CAPACITOR,E,F,G,H	0.0022μF,50V
C7501	NCZ1016-120X	CAPACITOR	12pF,2k
C7503	NFV41HJ-223X	MPPS CAPACITOR	0.022μF,50V
C7504	NCB31EK-103X	CAPACITOR	0.01μF,25V
C7505	NBE20JM-226X	T CAPACITOR	22μF,6.3V
L751	NQLZ011-681X	COIL,E,F,G,H	680μH
L752	NQL315K-100X	COIL,E,F,G,H	10μH
L7501	NQLZ010-680X	COIL	68μH
L7502	NQLZ010-220X	COIL	22μH
T7501	NQS0048-001X	SW TRANSF	
CN751	QGF0506F2-32X	FPC CONNECTOR	
CN752	QGF0505F1-24X	FPC CONNECTOR	
CN753	QGA5002F1-02X	CONNECTOR	
CN754	QGF0505F2-06X	FPC CONNECTOR,E,F,G,H	
△ F751	NMFZ007-R20X-K	FUSE,E,F,G,H	T0.2A
△ F7501	NMFZ009-R375XJ1	FUSE	T0.37A
OT1	LY41726-001A	PLATE(EARTH)	

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**CCD BOARD ASSEMBLY <04>**

PW	YB10316A-01	CCD BOARD ASSY	
Q5001	2SC3931/CD/-X	TRANSISTOR	
R5001	NRSA02J-472X	MG RESISTOR	4.7kΩ, 1/10W
R5002	NRSA02J-0R0X	MG RESISTOR	0Ω, 1/10W
R5003	NRSA02J-104X	MG RESISTOR	100kΩ, 1/10W
R5004	NRS181J-0R0X	MG RESISTOR	0Ω, 1/8W
R5006	NRSA02J-0R0X	MG RESISTOR	0Ω, 1/10W
R5007	NRS181J-0R0X	MG RESISTOR	0Ω, 1/8W
C5001	NCB21CK-104X	CAPACITOR	0.1μF,16V
C5002	NBP41DM-106X	T CAPACITOR	10μF,20V
C5003	NCB21CK-104X	CAPACITOR	0.1μF,16V
C5004	NBE21AM-106X	T CAPACITOR	10μF,10V
C5005	NCB11EK-104X	CAPACITOR	0.1μF,25V
C5006	NCB21CK-104X	CAPACITOR	0.1μF,16V
C5007	NCB21HK-222X	CAPACITOR	0.0022μF,50V
C5011	NCB21CK-105X	CAPACITOR	1μF,16V
L5001	NQL315K-100X	COIL	10μH

# ▲ REF No. PART No. PART NAME, DESCRIPTION

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**JUNCTION BOARD ASSEMBLY <05>**

PW2	YB10314A2-01	JUNCTION BOARD ASSY
D571	SML-010MT-X	LE DIODE
SW571	NSW0120-002X	PUSH SWITCH
CN571	QGF0508F1-34X	FPC CONNECTOR
CN572	QGF0507F3-15X	FFC/FPC CONNECTOR
CN573	QGF0505F2-11X	FPC CONNECTOR
CN574	QGF0505F2-06X	FPC CONNECTOR

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**JACK BOARD ASSEMBLY <06>**

PW1	YB10314B1-02	JACK BOARD ASSY	
IC501	BA10358F-XE	IC	
IC502	RS-171-X	IC(PHOTO SENSOR)	
Q501	RPM-22PB	PHOTO TRANSISTOR	
D501	MA8068	ZENER DIODE	
D502	MA8068	ZENER DIODE	
D504	MA8068	ZENER DIODE	
D505	MA8068	ZENER DIODE	
D506	EMZ6.8N	ZENER DIODE	
R501	NRSA63J-103X	MG RESISTOR	10kΩ, 1/16W
R502	NRSA63J-684X	MG RESISTOR	680kΩ, 1/16W
R503	NRSA63J-182X	MG RESISTOR	1.8kΩ, 1/16W
R504	NRSA63J-222X	MG RESISTOR	2.2kΩ, 1/16W
R505	NRSA63J-103X	MG RESISTOR	10kΩ, 1/16W
R506	NRSA63J-824X	MG RESISTOR	820kΩ, 1/16W
R507	NRSA63J-104X	MG RESISTOR	100kΩ, 1/16W
R508	NRSA63J-683X	MG RESISTOR	68kΩ, 1/16W
R509	NRSA63J-822X	MG RESISTOR	8.2kΩ, 1/16W
R510	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R511	NRSA63J-302X	MG RESISTOR	3kΩ, 1/16W
R512	NRSA63J-470X	MG RESISTOR	47Ω, 1/16W
R513	NRSA63J-101X	MG RESISTOR	100Ω, 1/16W
R514	NRSA63J-101X	MG RESISTOR	100Ω, 1/16W
R515	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R516	NRSA63J-221X	MG RESISTOR	220Ω, 1/16W
R517	NRSA63J-331X	MG RESISTOR	330Ω, 1/16W
R518	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R521	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R522	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R523	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R524	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R525	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R526	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R527	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
C501	NBE21AM-335X	T CAPACITOR	3.3μF,10V
C502	NCF31CZ-104X	CAPACITOR	0.1μF,16V
C503	NCB31EK-153X	CAPACITOR	0.015μF,25V
C504	NCB31EK-153X	CAPACITOR	0.015μF,25V
C506	NBE21AM-106X	T CAPACITOR	10μF,10V
C509	NBE20JM-226X	T CAPACITOR	22μF,6.3V
C514	NCB31HK-103X	CAPACITOR	0.01μF,50V
C515	NCB31HK-103X	CAPACITOR	0.01μF,50V
L501	NQR0251-004X	FERRITE BEAD	
L502	NQR0251-004X	FERRITE BEAD	

#	△ REF No.	PART No.	PART NAME, DESCRIPTION
	L503	NQR0251-004X	FERRITE BEAD
	TL501	YQ43810-1-1	CONTACT(LIGHT)
	TL502	YQ43810-1-1	CONTACT(LIGHT)
	HD1	LY32086-001B	HOLDER(J.PWB)
	WR1	WJJ0207-002A	E-SI C WIRE C-C,CN501-MAIN CN102
	J501	QNS0078-001	3.5 JACK
	J502	PEMC1203	MINI JACK
	J503	QND0004-001	S JACK
	J505	QNZ0497-001	USB CONNECTOR
	CN501	QGA1002F1-09X	CONNECTOR
	CN502	QGF0507F3-14X	FFC/FPC CONNECTOR
	OT1	LY30018-023A	SPECIAL SCREW,X4
	OT2	LY30017-023A	SPACER-B,X2

#	△ REF No.	PART No.	PART NAME, DESCRIPTION
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# JVC

## SERVICE MANUAL

Additional edition

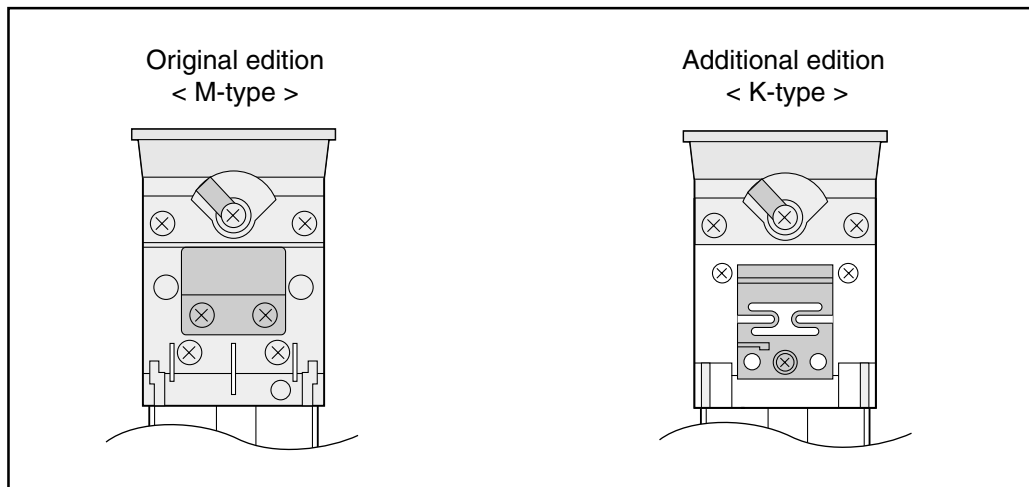
GR-DVL355EG/EK, DVL357EG/EK, DVL555EG/EK, DVL557EG/EK

### NOTES:

1. Two types of B/W (black and white) VFs are used for this model. One type has been described in the service manual which has already been published. The other type of B/W VF is described in this additional manual.
2. Two types of B/W VFs do not have compatibility with each other.
3. Two types of B/W VFs can be recognized based on the shape of the coating parts.

When repairing, please confirm the shape of the parts and see the service manual which describes them.

How to recognize the parts described in original edition and the ones in additional edition is shown below.



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The following table indicate different parts number between models GR-DVL355EG, GR-DVL355EG(Additional), GR-DVL355EK and GR-DVL355EK(Additional).

## ELECTRONIC VIEWFINDER ASSEMBLY <M4>

REF. No.	ITEM	MODEL	GR-DVL355EG	GR-DVL355EG (Additional)	GR-DVL355EK	GR-DVL355EK (Additional)
300	VF UNIT		LY20744-002B	—	LY20744-003A	—
301	EYE PIECE ASSY/EYE CUP		PTY20744-001	LY32349-001A	PTY20744-001	LY32349-001A
302	TOP CASE SUB ASSY/CASE A(VF)		PTY20712-011	LY20766-001A	PTY20712-011	LY20766-001A
303	BOTTOM CASE		PTY20712-021	—	PTY20712-021	—
304	CAP(VF)		PTY20712-022	LY32351-001A	PTY20712-022	LY32351-001A
305	HINGE ASSY/VF HINGE ASSY		PTY20712-031	LY20768-001B	PTY20712-031	LY20768-001B
306	LCD ASSY/LCD MODULE		PTY20744-041	QLD0193-001	PTY20744-041	QLD0193-001
307	FPC		QAL0288-001	QAL0380-002	QAL0288-001	QAL0380-002
308	SPECIAL SCREW,X4		LY30018-063A	—	LY30018-063A	—
309	SPECIAL SCREW,X3		LY30018-055A	LY30018-0F1A	LY30018-055A	LY30018-0F1A
310	SPECIAL SCREW,X2		LY30018-035A	—	LY30018-035A	—
311	SCREW		PTY20744-051	—	PTY20744-051	—
321	CASE B(VF)		—	LY20767-001B	—	LY20767-001B
322	SPECIAL SCREW		—	LY30019-037A	—	LY30019-037A
323	LEVER(VF)		—	LY43231-001B	—	LY43231-001B
324	LENS ASSY		—	LY32472-002A	—	LY32472-002A
324A	LENS(A)		—	LY43356-001A	—	LY43356-001A
324B	LENS(B)		—	LY43357-001A	—	LY43357-001A
325	SPRING(VF)		—	LY43404-001A	—	LY43404-001A
331	SHEET		—	LY43236-001A	—	LY43236-001A
332	SHEET2(POLA)		—	LY43246-001A	—	LY43246-001A
333	HOLDER LCD(VF)		—	LY32347-001C	—	LY32347-001C
334	SHEET(CUSION)		—	LY43245-001A	—	LY43245-001A
335	SHEET1(POLA)		—	LY43234-001A	—	LY43234-001A
336	SHEET(VF)		—	LY43232-001A	—	LY43232-001A
337	SHEET(DIFF)		—	LY43235-001A	—	LY43235-001A
338	HOLDER(LED)		—	LY43238-001A	—	LY43238-001A
339	GUIDE(VF),X2		—	LY43239-001A	—	LY43239-001A
340	SPECIAL SCREW,X4		—	LY30018-060A	—	LY30018-060A
341	SPACER(A)		—	LY30029-0U6A	—	LY30029-0U6A
342	PLATE(VF)		—	LY43489-001B	—	LY43489-001B

## MONITOR ASSEMBLY <M5>

REF. No.	ITEM	MODEL	GR-DVL355EG	GR-DVL355EG (Additional)	GR-DVL355EK	GR-DVL355EK (Additional)
△500	MONITOR ASSY		LYH20246-010B	LYH20246-018A	LYH20246-010B	LYH20246-018A
△501	MONITOR COVER(2.5)ASSY		LY20721-003B	LY20702-003E	LY20721-003B	LY20702-003E
501F	SHIELD SHEET		LY40559-001A	—	LY40559-001A	—
501G	MARK		LY42883-001A	LY42883-001B	LY42883-001A	LY42883-001B
513	HINGE COVER(2)		LY32089-001A	LY32089-001B	LY32089-001A	LY32089-001B

**Notes :** Mark ← is same as left.  
Mark — is not used.

**MONITOR BOARD ASSEMBLY<02>**

REF. No.	ITEM	MODEL	GR-DVL355EG	GR-DVL355EG (Additional)	GR-DVL355EK	GR-DVL355EK (Additional)
PW	MONITOR BOARD ASSY		YB1032401-03	YB10326OK-01	YB1032401-03	YB10326OK-01
IC7602	IC		BA15532F	BA4558F	BA15532F	BA4558F
R10	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R11	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R12	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R13	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R14	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R15	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R16	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R17	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R24	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R27	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R7101	MG RESISTOR		NRSA63J-562X	NRSA63J-271X	NRSA63J-562X	NRSA63J-271X
R7102	MG RESISTOR/CAPACITOR		NRSA63J-562X	NDC31HJ-221X	NRSA63J-562X	NDC31HJ-221X
R7103	MG RESISTOR		NRSA63J-103X	—	NRSA63J-103X	—
R7111	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R7112	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R7113	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R7114	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R7115	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	—
R7116	MG RESISTOR		—	NRSA63J-392X	—	NRSA63J-392X
R7644	MG RESISTOR		—	NRSA63J-0R0X	—	NRSA63J-0R0X
R7645	MG RESISTOR		—	NRSA63J-0R0X	—	NRSA63J-0R0X
C7607	T CAPACITOR		NBP41CM-106X	NBP41DM-106X	NBP41CM-106X	NBP41DM-106X
C7618	CAPACITOR		NCB10JK-106X	NCB11CK-225X	NCB10JK-106X	NCB11CK-225X
C7619	CAPACITOR		NCB10JK-106X	NCB11CK-225X	NCB10JK-106X	NCB11CK-225X
C7634	CAPACITOR		NCB10JK-106X	NCB11CK-225X	NCB10JK-106X	NCB11CK-225X

**LCD BL BOARD ASSEMBLY<03>**

REF. No.	ITEM	MODEL	GR-DVL355EG	GR-DVL355EG (Additional)	GR-DVL355EK	GR-DVL355EK (Additional)
PW	LCD BL BOARD ASSY		YB10324B2-02	YB10325B-01	YB10324B2-02	YB10325B-01
Q7501	POW TRANSISTOR/TRANSISTOR		2SC3647/ST/-X	2SD1664/QR/-W	2SC3647/ST/-X	2SD1664/QR/-W
Q7502	POW TRANSISTOR/TRANSISTOR		2SC3647/ST/-X	2SD1664/QR/-W	2SC3647/ST/-X	2SD1664/QR/-W
R7511	MG RESISTOR		—	NRSA63J-0R0X	—	NRSA63J-0R0X
C7503	MPPS CAPACITOR/CAPACITOR		NFV41HJ-223X	NCB31EK-223X	NFV41HJ-223X	NCB31EK-223X
C7505	T CAPACITOR		NBE20JM-226X	NBE20JM-106X	NBE20JM-226X	NBE20JM-106X
L7502	COIL		NQLZ010-220X	—	NQLZ010-220X	—

**B/W VF BOARD ASSEMBLY<08>**

REF. No.	ITEM	MODEL	GR-DVL355EG	GR-DVL355EG (Additional)	GR-DVL355EK	GR-DVL355EK (Additional)
PW	B/W VF BOARD ASSY		—	YB20910B	—	YB20910B
IC7001	IC		—	MCVVQ111FB	—	MCVVQ111FB
Q7001	PAIR TRANSISTOR		—	PUMX1	—	PUMX1
D7001	LED		—	NSCW100A0/ST/-X	—	NSCW100A0/ST/-X
D7002	SI DIODE		—	MA111	—	MA111
R7001	MG RESISTOR		—	NRSA63J-103X	—	NRSA63J-103X
R7002	MG RESISTOR		—	NRSA63J-182X	—	NRSA63J-182X
R7003	MG RESISTOR		—	NRSA63J-183X	—	NRSA63J-183X
R7004	MG RESISTOR		—	NRSA63J-0R0X	—	NRSA63J-0R0X
R7006	CMF RESISTOR		—	NRVA63D-333X	—	NRVA63D-333X
R7007	CMF RESISTOR		—	NRVA63D-153X	—	NRVA63D-153X
R7008	CMF RESISTOR		—	NRVA63D-473X	—	NRVA63D-473X
R7009	MG RESISTOR		—	NRSA63J-682X	—	NRSA63J-682X
R7010	MG RESISTOR		—	NRSA63J-102X	—	NRSA63J-102X
R7011	MG RESISTOR/CAPACITOR		—	NRSA63J-332X	—	NRSA63J-332X
R7012	MG RESISTOR		—	NRSA63J-561X	—	NRSA63J-561X
R7013	MG RESISTOR		—	NRSA63J-470X	—	NRSA63J-470X
VR7001	TRIM RESISTOR		—	NVP0016-223X	—	NVP0016-223X
C7001	CAPACITOR		—	NCF31CZ-104X	—	NCF31CZ-104X
C7002	CAPACITOR		—	NCF31CZ-104X	—	NCF31CZ-104X
C7003	CAPACITOR		—	NCB21AK-105X	—	NCB21AK-105X
C7004	CAPACITOR		—	NCB31EK-223X	—	NCB31EK-223X
C7005	CAPACITOR		—	NCB31EK-103X	—	NCB31EK-103X
C7006	CAPACITOR		—	NCF21CZ-105X	—	NCF21CZ-105X
C7007	CAPACITOR		—	NCF31CZ-104X	—	NCF31CZ-104X
C7008	CAPACITOR		—	NCF31CZ-104X	—	NCF31CZ-104X
C7009	CAPACITOR		—	NCF31CZ-104X	—	NCF31CZ-104X
C7010	CAPACITOR		—	NCF31CZ-104X	—	NCF31CZ-104X
C7011	CAPACITOR		—	NCB31HK-102X	—	NCB31HK-102X
C7012	CAPACITOR		—	NCB31EK-103X	—	NCB31EK-103X
C7013	CAPACITOR		—	NCF31CZ-104X	—	NCF31CZ-104X
C7014	CAPACITOR		—	NCF31CZ-104X	—	NCF31CZ-104X
C7015	CAPACITOR		—	NCB31EK-103X	—	NCB31EK-103X
C7016	CAPACITOR		—	NCB11CK-475X	—	NCB11CK-475X
C7017	CAPACITOR		—	NCB10JK-106X	—	NCB10JK-106X
L7001	COIL		—	NQL38DK-100K	—	NQL38DK-100K
L7002	COIL		—	NQL38DK-100K	—	NQL38DK-100K
CN7001	FPC CONNECTOR		—	QGF0517F1-06X	—	QGF0517F1-06X
CN7002	FPC CONNECTOR		—	QGF0517F2-20X	—	QGF0517F2-20X

Notes : Mark ← is same as left.

Mark — is not used.



# SCHEMATIC DIAGRAMS

Additional edition

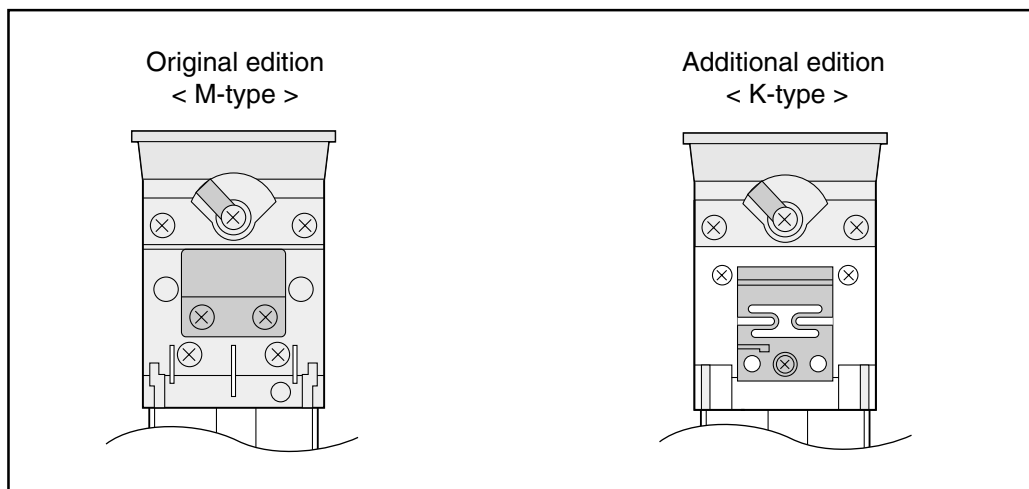
GR-DVL355EG/EK, DVL357EG/EK, DVL555EG/EK, DVL557EG/EK

CD-ROM NO. SML200207

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## 4.2 LCD BL SCHEMATIC DIAGRAM

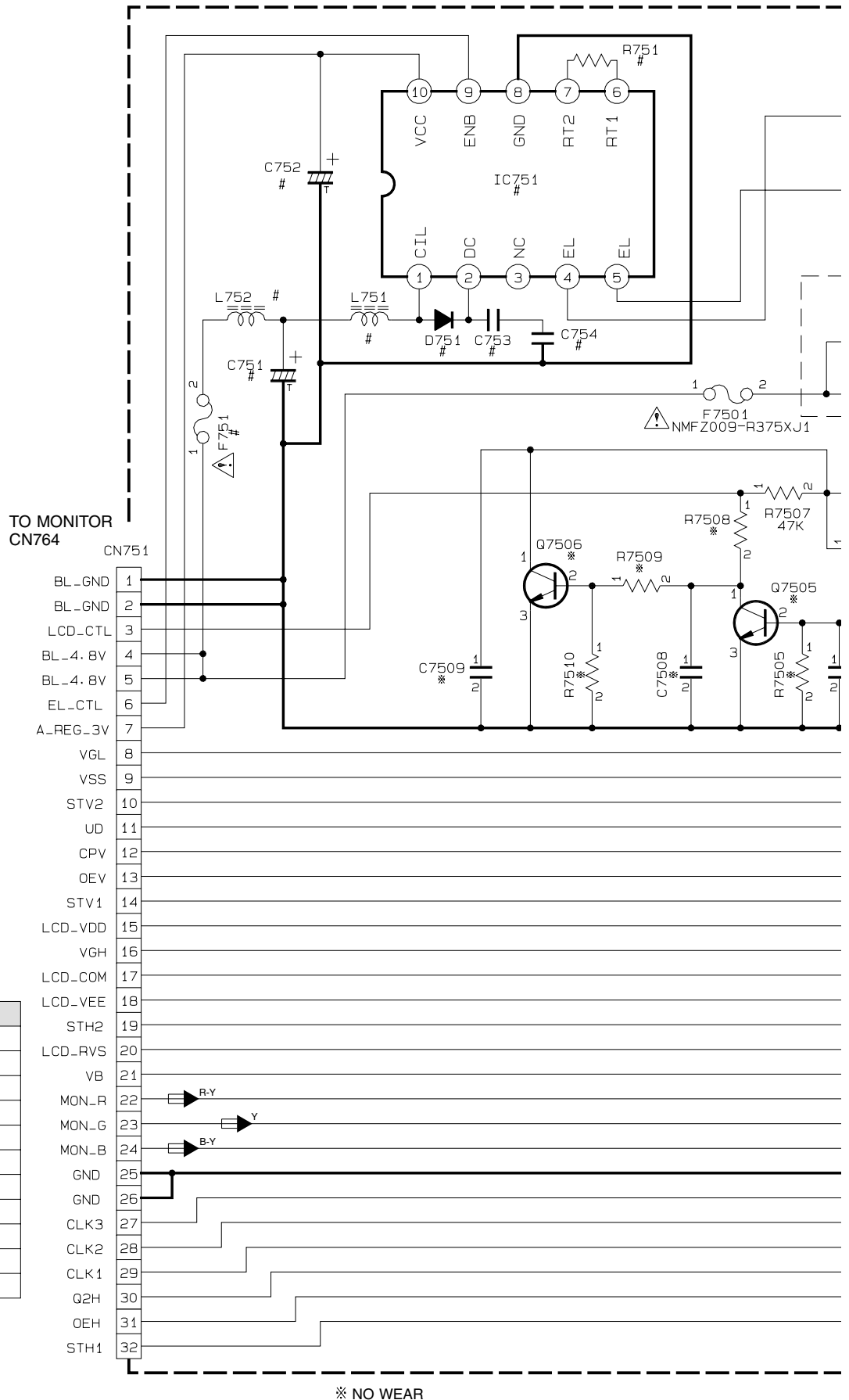
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4

3

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1

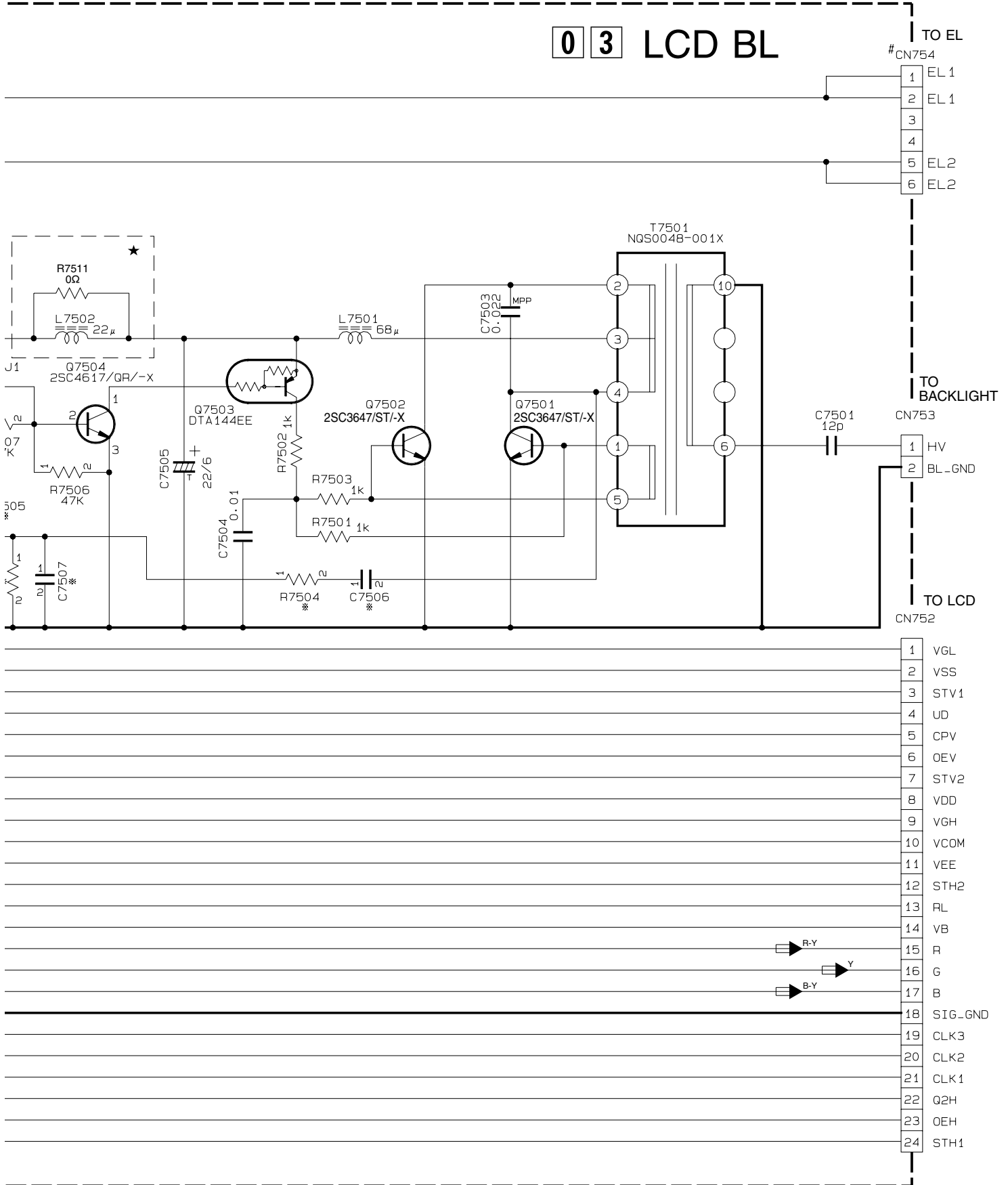


### # : EXCHANGE PARTS LIST

	With EL	Without EL
IC751	MIP805	※
F751	NMFZ007-R20X-K	※
D751	1SS376	※
L751	680	※
L752	10	※
R751	100K	※
C751	10/6.3	※
C752	10/6.3	※
C753	2200p	※
C754	2200p	※
CN754	QG0505F2-06X	※

- NOTES 1. How to find the page showing the continuative schematic diagram.  
 Example) TO SYSCON: Refer to the GR-DVL355EG service manual (NO. 86614).  
 TO SYSCON: Refer to this service manual.  
 2. The mark ★ means modified points.  
 3. When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

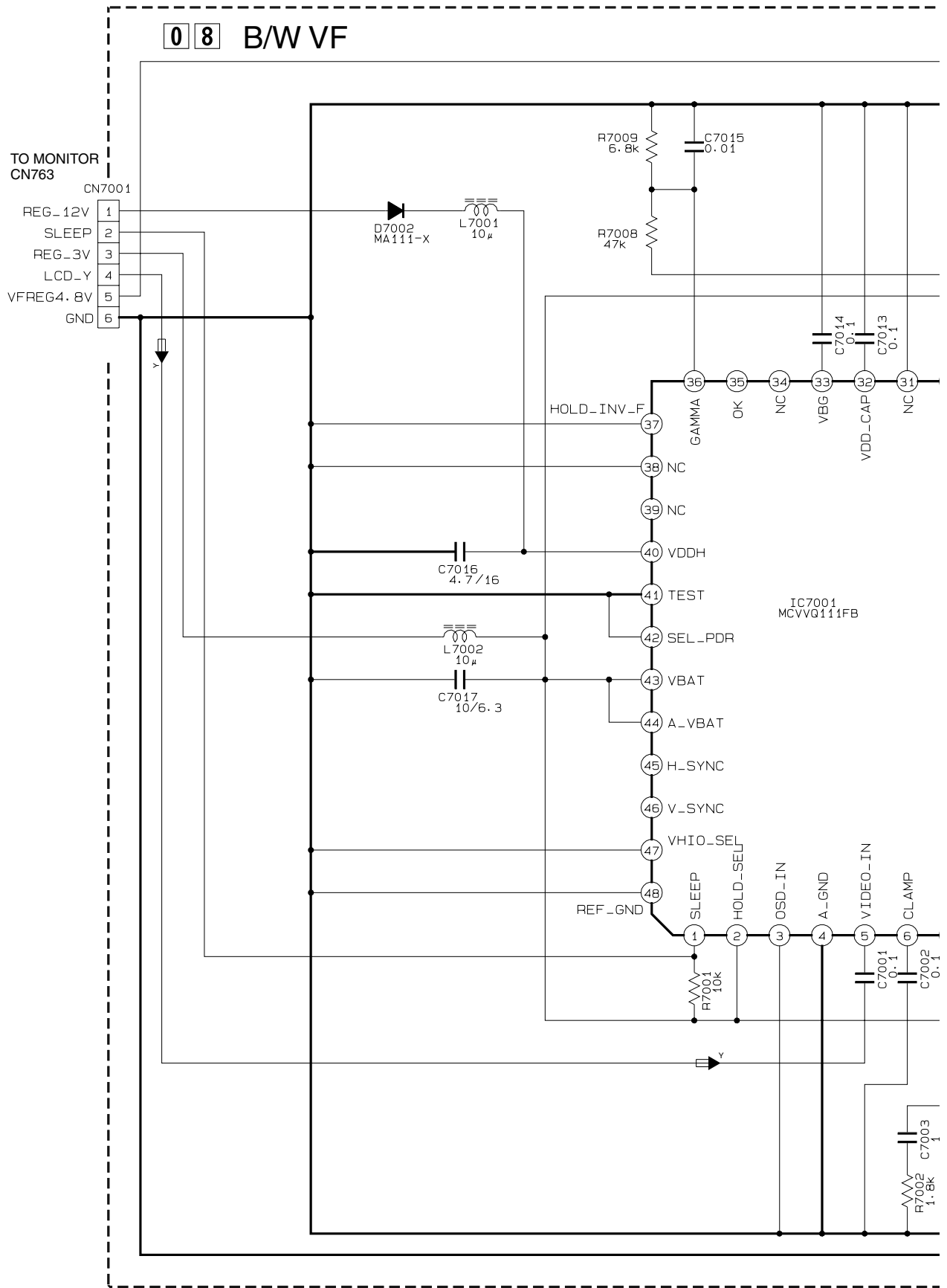
# 0 3 LCD BL



y30127001a\_rev0.1



### 4.3 B/W VF SCHEMATIC DIAGRAM



Difference table

※ NO WEAR

	R7004
NTSC	*
PAL	0

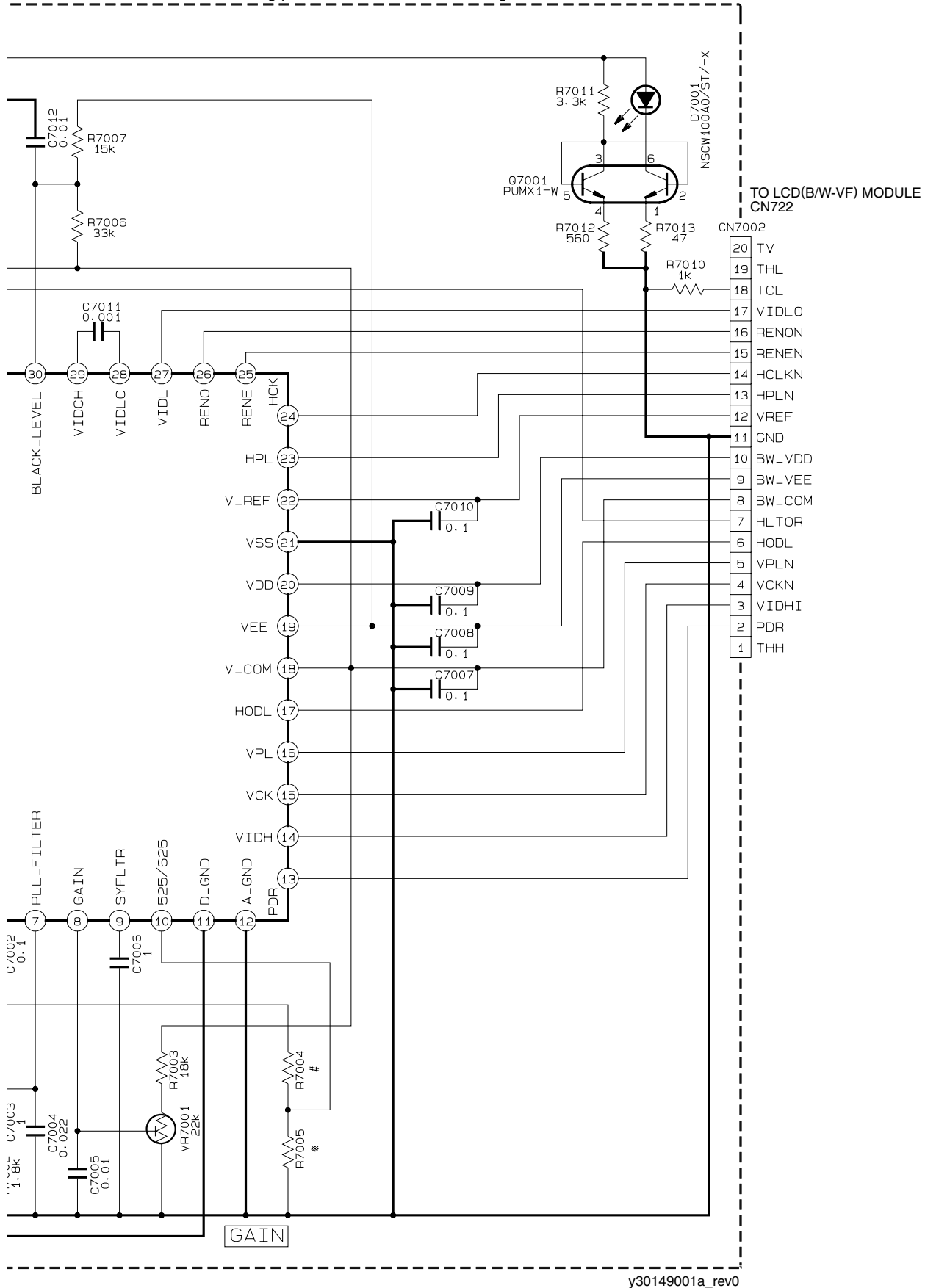
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TO SYSCON: Refer to this service manual.

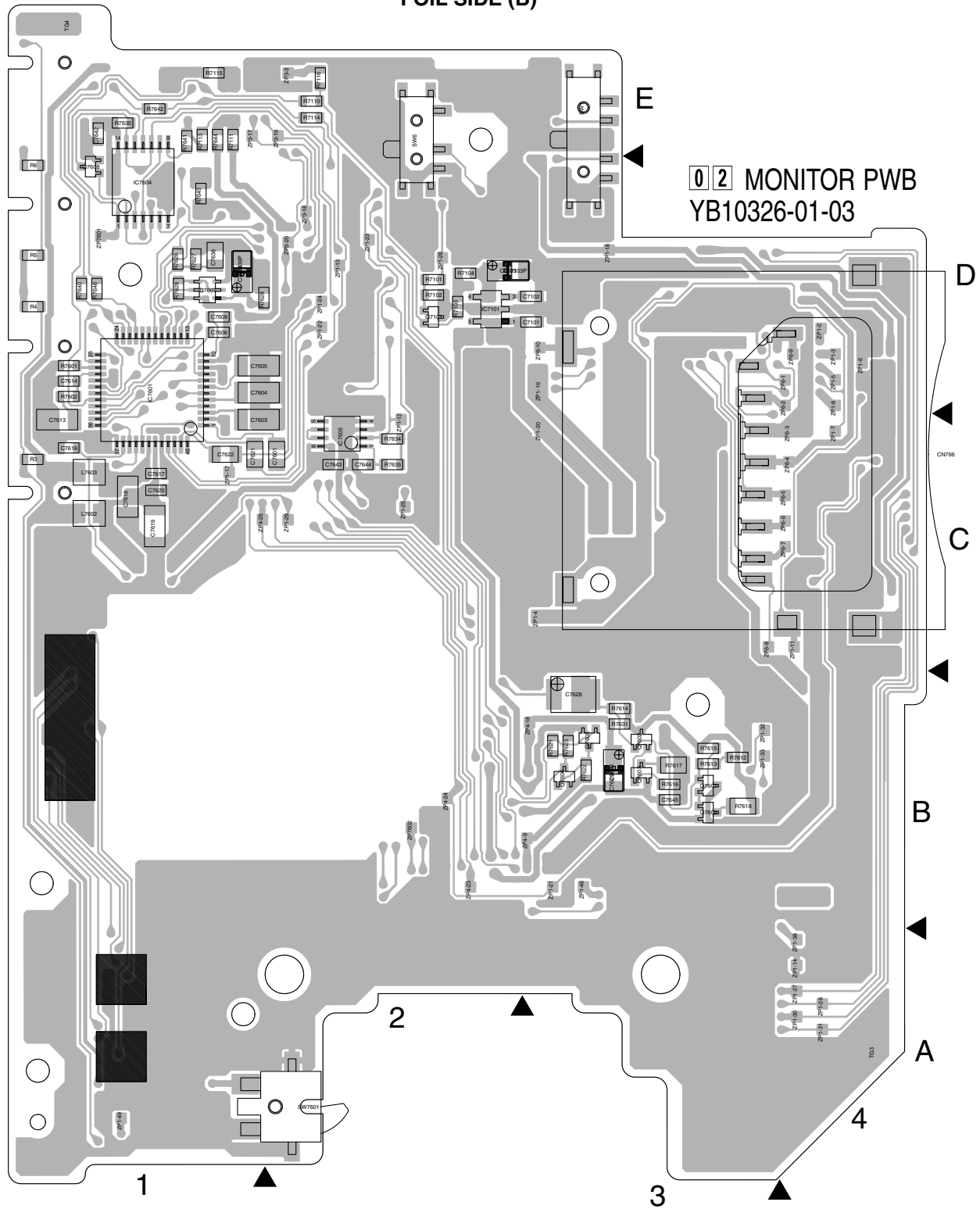
2. The mark ★ means modified points.

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# 4.4 MONITOR CIRCUIT BOARD

FOIL SIDE (B)



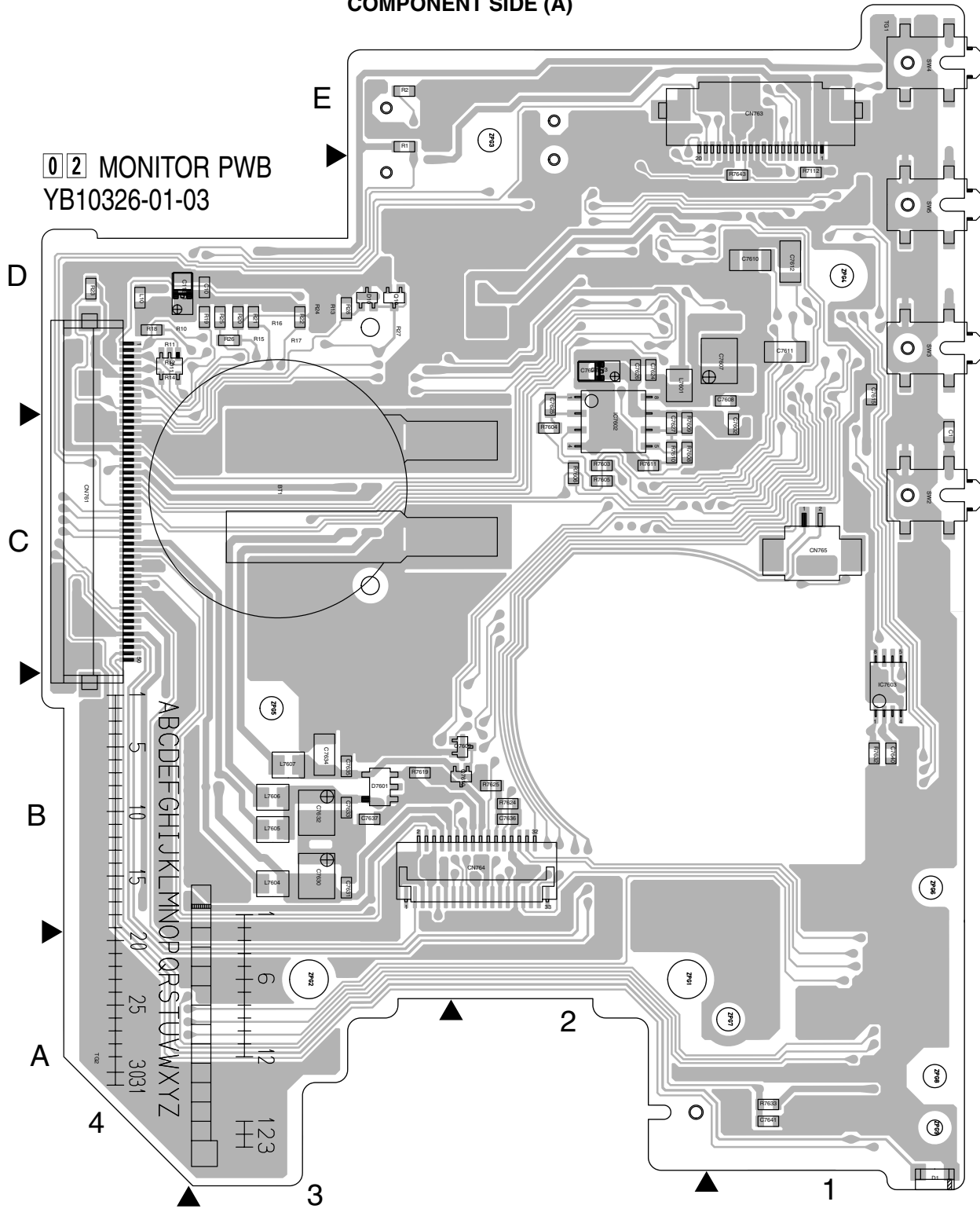
COMPONENT PARTS LOCATION GUIDE <MONITOR/YB10326-01-03>

(1/2)

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
<b>CAPACITOR</b>													
C1	A C	C7613	B C	C7632	A C	CN765	A C	<b>COIL</b>		Q7607	B C	R26	A C
C10	A C C	C7614	B C	C7633	A C C	CN766	B C	L10	A C	Q7608	B C	R28	A B C
C11	A C C	C7615	A C	C7634	A C C			L7601	A C	Q7609	A C	R7101	B C C
C7101	B C C	C7616	B C	C7635	A C C			L7602	B C	Q7610	A C	R7102	B C C
C7102	B C C	C7617	B C	C7636	A C	<b>DIODE</b>		L7603	B C	<b>RESISTOR</b>			
C7103	B C C	C7618	B C	C7637	A C	D1	A C	L7604	A C	R1	A C	R7103	B C C
C7601	B C C	C7619	B C	C7638	B C	D10	A C	L7605	A C	R2	A C	R7110	B C C
C7602	A C C	C7620	B C	C7639	B C	D11	A C	L7606	A C	R3	B C	R7111	B C C
C7603	B C C	C7621	B C	C7640	A C	D7601	A C	L7607	A C	R4	B C	R7112	A C C
C7604	B C C	C7622	B C	C7641	A C	<b>IC</b>		<b>TRANSISTOR</b>		R5	B C	R7113	B C C
C7605	B C C	C7623	A C	C7642	B C	IC7101	B C	Q10	A C	R6	B C	R7114	B C C
C7606	B C C	C7624	A C	C7643	B C	IC7601	B C	Q7101	B C	R7	A C	R7115	B C C
C7607	A C C	C7625	A C	C7644	B C	IC7602	A C	Q7601	B C	R8	A C	R7161	B C C
C7608	A C C	C7626	A C	C7645	B C	IC7603	A C	Q7602	B C	R9	A C	R7602	A C C
C7609	B C C	C7627	B C	<b>CONNECTOR</b>		IC7604	B C	Q7603	B C	R10	A C	R7603	A C C
C7610	A C C	C7628	B C	CN761	A C	IC7605	B C	Q7604	B C	R11	A C	R7604	A C C
C7611	A C C	C7629	B C	CN763	A C			Q7605	B C	R12	A C	R7605	A C C
C7612	A C C	C7630	A C	CN764	A C			Q7606	B C	R13	A C	R7606	A C C
		C7631	A C							R14	A C		
										R15	A C		
										R16	A C		
										R17	A C		
										R18	A C		
										R19	A C		
										R20	A C		
										R21	A C		
										R22	A C		
										R23	A C		
										R24	A C		
										R25	A C		

COMPONENT SIDE (A)

02 MONITOR PWB  
YB10326-01-03



COMPONENT PARTS LOCATION GUIDE <MONITOR/YB10326-01-03>

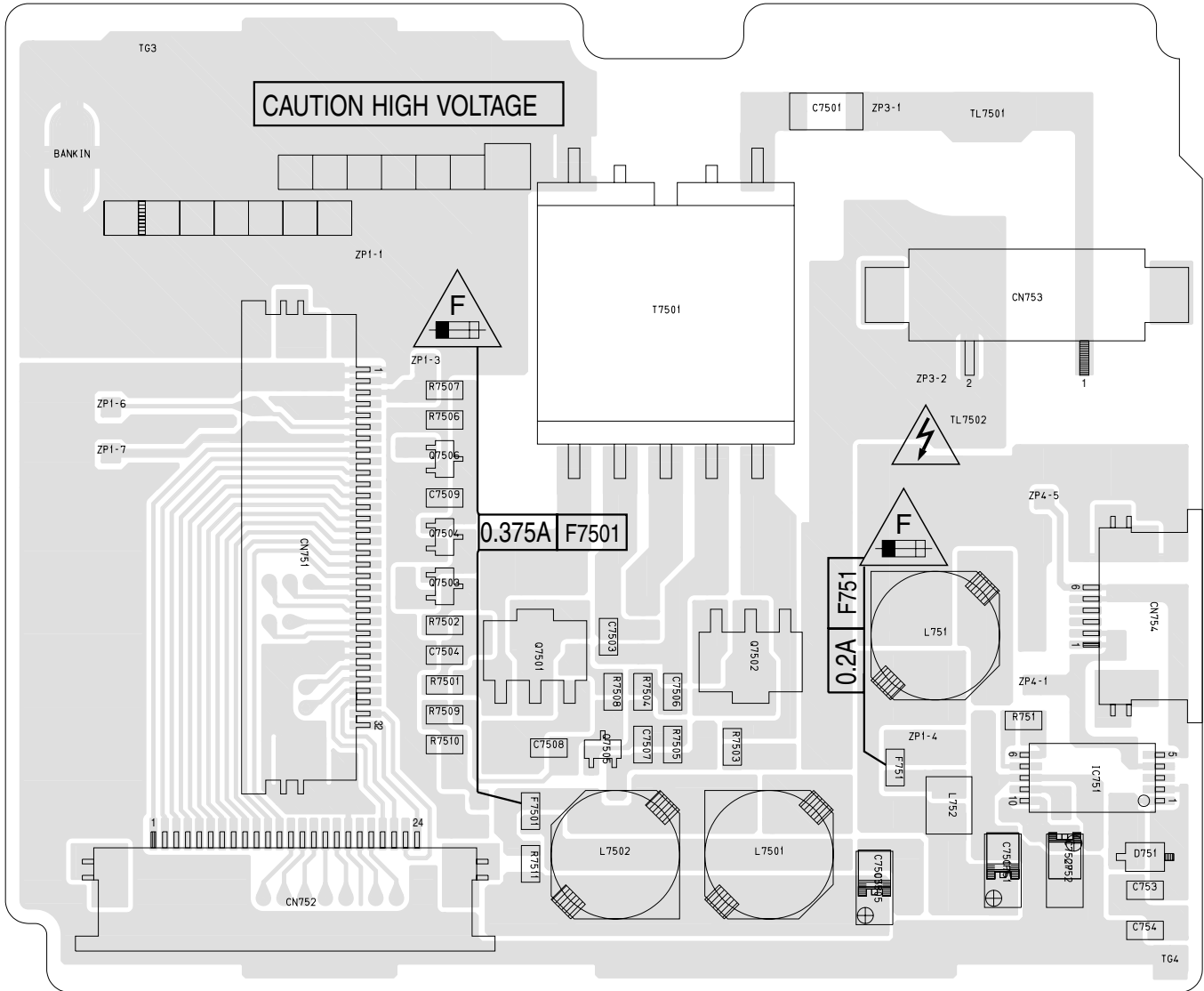
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REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
R7608	A C	R7628	B C	C7103P	B C	ZP1-7	B C	ZP1-19	B C	ZP3-18	B C
R7609	A C	R7629	B C	C7623P	A C	ZP1-8	B C	ZP1-20	B C	ZP3-19	B C
R7610	A C	R7630	B C	C7629P	B C	ZP3-3	B C	ZP1-21	B C	ZP3-20	B C
R7611	A C	R7631	A C	C7639P	B C	ZP4-9	B C	ZP1-22	B C	ZP4-18	B C
R7612	B C	R7632	A C	SW1	B C	ZP6-1	B C	ZP1-23	B C	ZP4-23	B C
R7613	B C	R7633	A C	SW2	A C	ZP6-2	B C	ZP1-24	B C	ZP4-24	B C
R7614	B C	R7634	B C	SW3	A C	ZP6-3	B C	ZP1-25	B C	ZP4-25	B C
R7615	B C	R7635	B C	SW4	A C	ZP6-4	B C	ZP1-26	B C	ZP6-10	B C
R7616	B C	R7640	B C	SW5	A C	ZP6-5	B C	ZP1-27	B C	ZP7601	B C
R7617	B C	R7641	B C	SW6	B C	ZP6-6	B C	ZP1-28	B C	ZP7602	B C
R7618	B C	R7642	B C	SW7601	B C	ZP6-7	B C	ZP1-29	B C	ZPG1	A D
R7619	A C	R7643	A C	TM1	A C	ZP6-8	B C	ZP1-30	B C	ZPG2	A D
R7621	B C	R7644	B C	TM3	A C	ZP6-9	B C	ZP1-31	B C	ZPG3	A D
R7622	B C	R7645	B C	TM3	A C	ZP1-11	B C	ZP1-32	B C	ZPG4	A D
R7623	B C	R7646	B C	ZP1-2	B C	ZP1-12	B C	ZP1-33	B C	ZPG5	A D
R7624	A C	OTHER		ZP1-3	B C	ZP1-13	B C	ZP1-38	B C	ZPG6	A D
R7625	A C	BT1	A C	ZP1-4	B C	ZP1-14	B C	ZP1-46	B C	ZPG7	A D
R7626	B C	C11P	A C	ZP1-5	B C	ZP1-17	B C	ZP1-49	B C	ZPG8	A D
R7627	B C			ZP1-6	B C	ZP1-18	B C	ZP3-17	B C	ZPG9	A D

4.5 LCD BL CIRCUIT BOARD

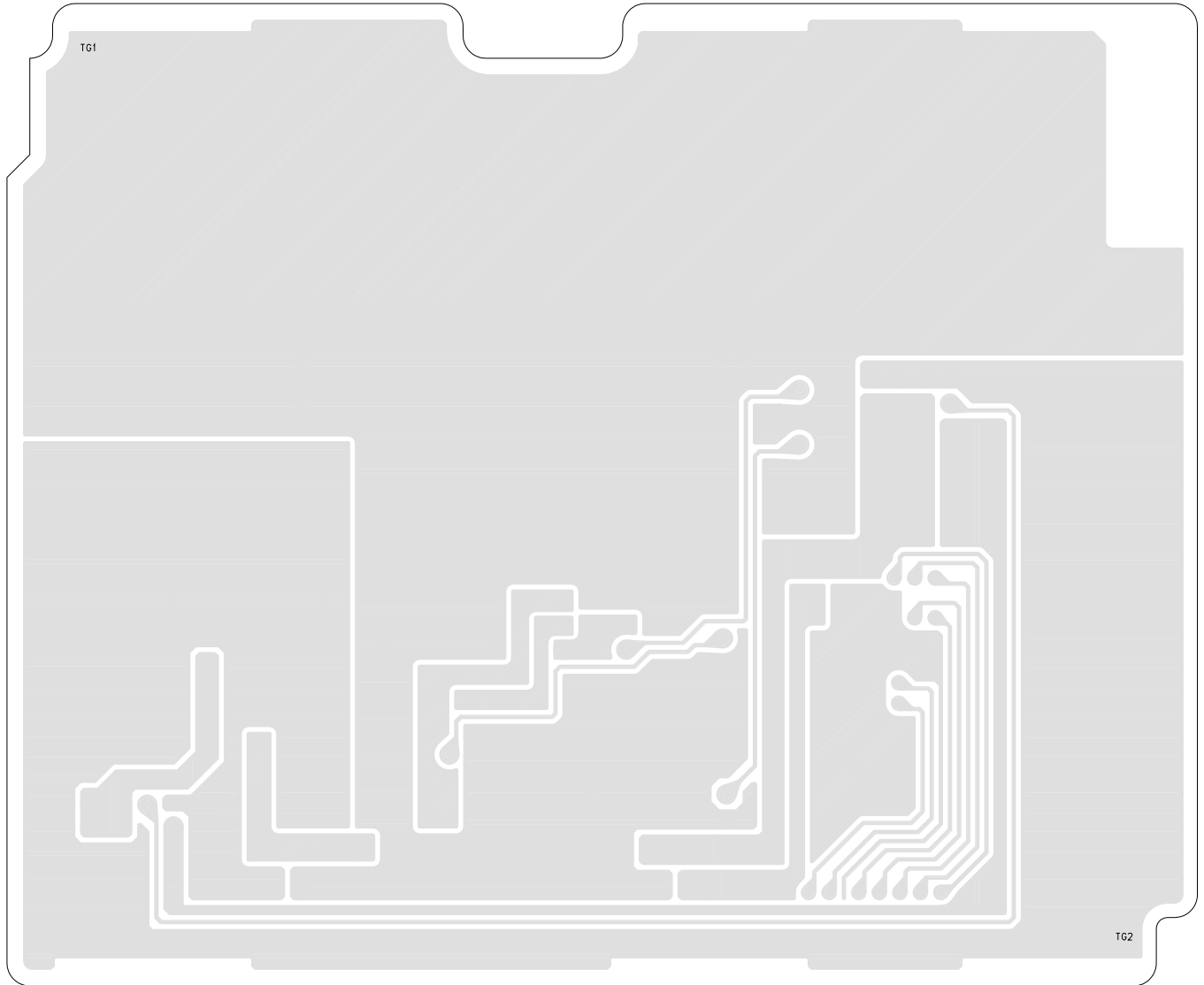
FOIL SIDE (B)

03 LCD BL PWB  
YB10325-01-03



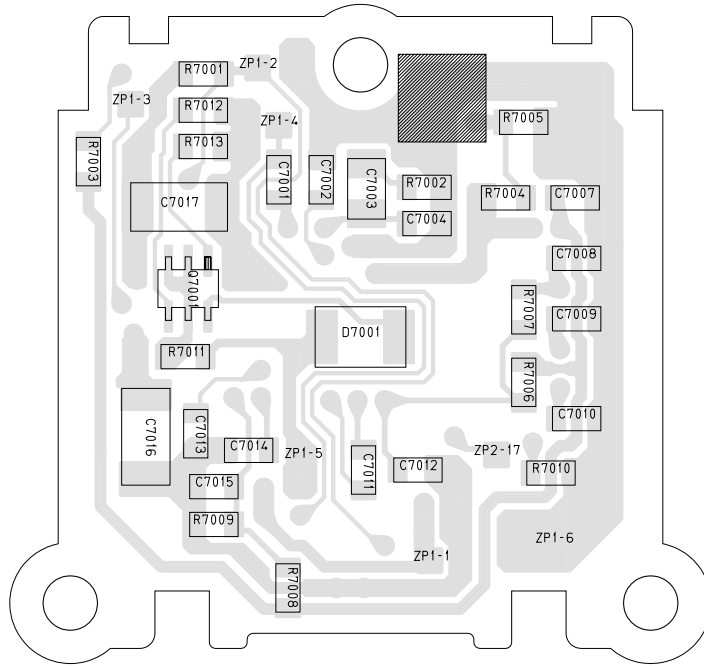
**COMPONENT SIDE (A)**

**03** LCD BL PWB  
YB10325-01-03



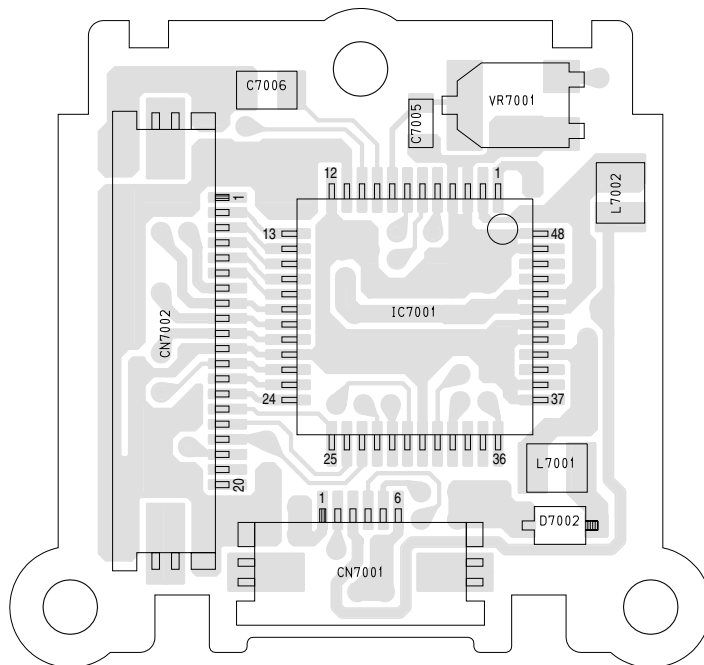
FOIL SIDE (B)

08 B/W VF PWB  
YB20910



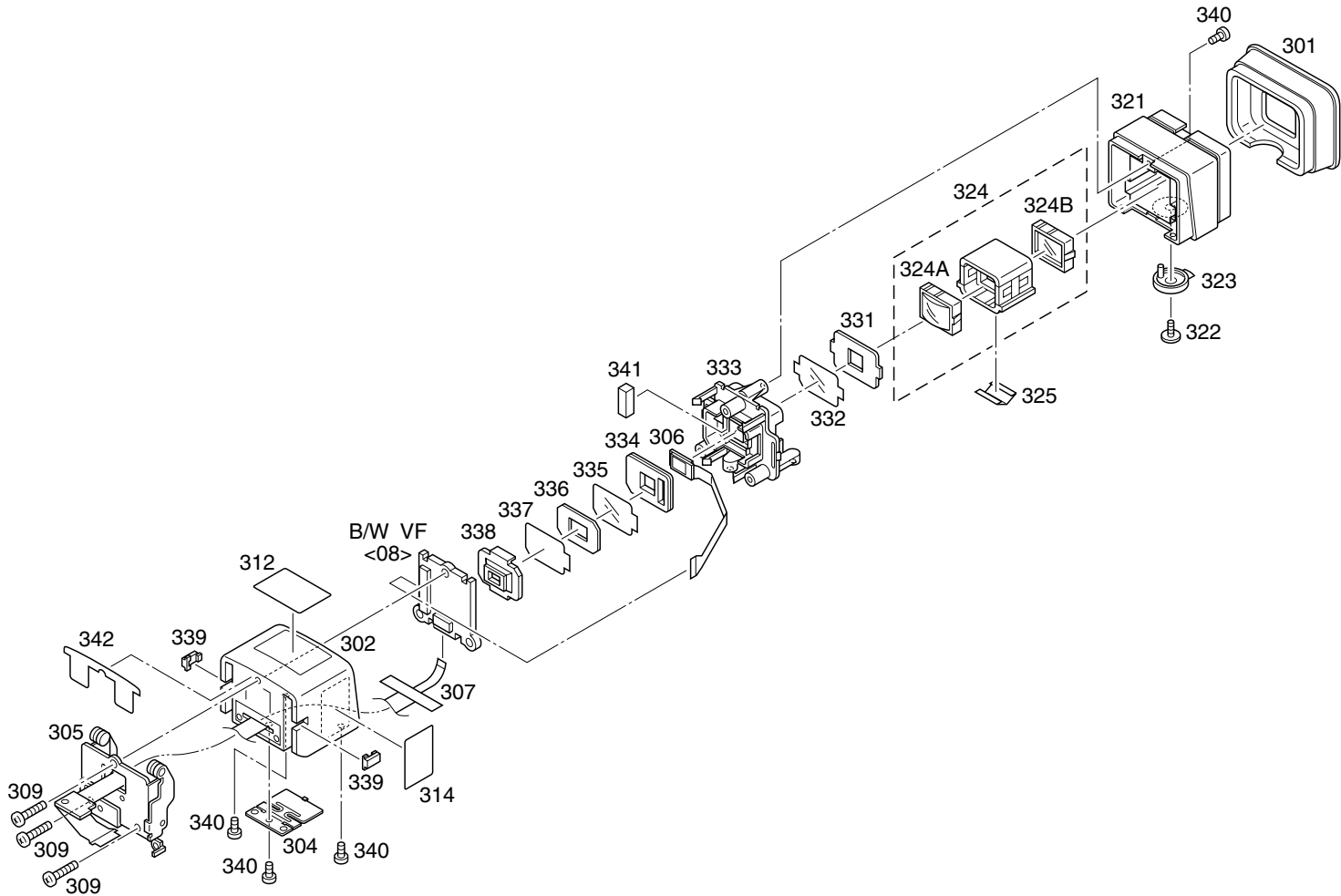
COMPONENT SIDE (A)

08 B/W VF PWB  
YB20910



# SECTION 5 PARTS LIST

## 5.1 ELECTRONIC VIEWFINDER ASSEMBLY <M4>



# ▲ REF No. PART No. PART NAME, DESCRIPTION  
\*\*\*\*\*

### ELECTRONIC VIEWFINDER ASSEMBLY <M4>

#	REF No.	PART No.	PART NAME, DESCRIPTION
301	LY32349-001A	EYE CUP	
302	LY20766-001A	CASE A(VF)	
304	LY32351-001A	CAP(VF)	
305	LY20768-001B	VF HINGE ASSY	
306	QLD0193-001	LCD MODULE	
307	QAL0380-002	FPC	
309	LY30018-0F1A	SPECIAL SCREW,X3	
312	LY41701-002A	SHEET(CAUTION)1	
314	LY43041-002A	LABEL(VF)	
321	LY20767-001B	CASE B(VF)	
322	LY30019-037A	SPECIAL SCREW	
323	LY43231-001B	LEVER(VF)	

# ▲ REF No. PART No. PART NAME, DESCRIPTION

324	LY32472-002A	LENS ASSY
324A	LY43356-001A	LENS(A)
324B	LY43357-001A	LENS(B)
325	LY43404-001A	SPRING(VF)
331	LY43236-001A	SHEET
332	LY43246-001A	SHEET2(POLA)
333	LY32347-001C	HOLDER LCD(VF)
334	LY43245-001A	SHEET(CUSION)
335	LY43234-001A	SHEET1(POLA)
336	LY43232-001A	SHEET(VF)
337	LY43235-001A	SHEET(DIFF)
338	LY43238-001A	HOLDER(LED)
339	LY43239-001A	GUIDE(VF),X2
340	LY30018-060A	SPECIAL SCREW,X4
341	LY30029-0U6A	SPACER(A)
342	LY43489-001B	PLATE(VF)