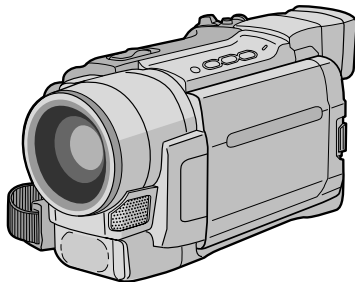


SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVL155EG,DVL160EG/EK,
DVL167EG/EK



Mini DV PAL

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVL155)*

Camcorder		Connectors	
General		S-Video Output	: Y:1 V (p-p), 75 Ω, analogue C:0.29 V (p-p), 75 Ω, analogue
Power supply	: DC 11.0 V (Using AC Adapter) DC 7.2 V (Using battery pack)		
Power consumption		AV Video output	: 1 V (p-p), 75 Ω, analogue Audio output : 300 mV (rms), 1 kΩ, analogue, stereo
LCD monitor off, viewfinder on	: Approx. 4.3 W		
LCD monitor on, viewfinder off	: Approx. 5.3 W	DV Output	: 4-pin, IEEE 1394 compliant
Dimensions (W x H x D)	: 79 mm x 89 mm x 167 mm (with the LCD monitor closed and the viewfinder pushed down)		
Weight	: Approx. 550 g	PC	: ø2.5 mm, 3-pole
Operating temperature	: 0°C to 40°C	JLIP	: ø3.5 mm, 4-pole
Operating humidity	: 35% to 80%	AC Adapter	
Storage temperature	: -20°C to 50°C	Power requirement	: AC 110 V to 240 V~, 50 Hz/60 Hz
Pickup	: 1/4" CCD	Output	: DC 11 V , 1 A
Lens	: F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens	Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.	
Filter diameter	: ø37 mm		
LCD monitor	: 2.5" diagonally measured, LCD panel/TFT active matrix system	Digital Video Camera	
Viewfinder	: Electronic viewfinder with 0.24" black/white LCD		
Speaker	: Monaural	Format	: DV format (SD mode)
		Signal format	: PAL standard
		Recording/Playback format	: Video: Digital component recording : Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
		Cassette	: Mini DV cassette
		Tape speed	: SP: 18.8 mm/s LP: 12.5 mm/s
		Maximum recording time (using 80 min. cassette)	: SP: 80 min. LP: 120 min.

GR-DVL155EG,DVL160EG/EK,DVL167EG/EK

No. 86662

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The following table lists the differing points between Models GR-DVL155EG, GR-DVL160EG/EK and GR-DVL167EG/EK in this serie.

	GR-DVL155EG	GR-DVL160EG	GR-DVL160EK	GR-DVL167EG	GR-DVL167EK
VIDEO LIGHT	NOT USED	USED	USED	USED	USED
DV INPUT	NOT USED	NOT USED	NOT USED	USED	USED
PC CONNECT CABLE	NOT USED	NOT USED	NOT USED	USED	USED
RCU UNIT	NOT USED	RM-V717U-E	RM-V717U-E	RM-V717U-E	RM-V717U-E
SOFT WARE	NOT PROVIDED	NOT PROVIDED	NOT PROVIDED	PROVIDED	PROVIDED

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  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.

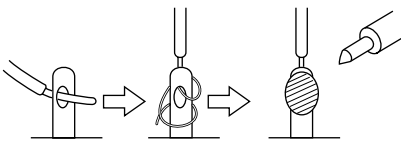


Fig.1

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.

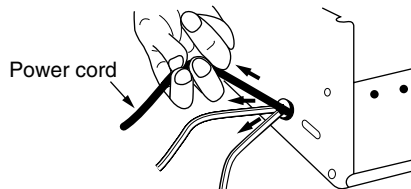


Fig.2

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).

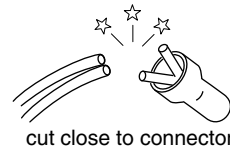


Fig.3

(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.

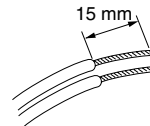


Fig.4

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

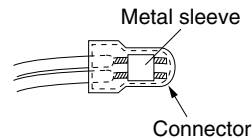


Fig.5

(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.

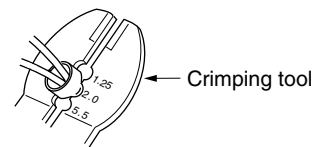


Fig.6

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

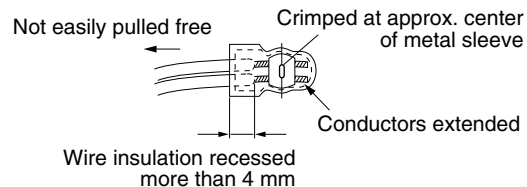


Fig.7

● 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

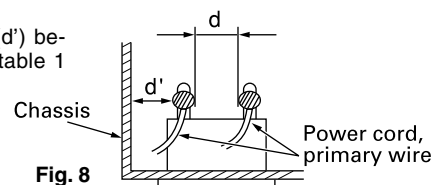
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

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.

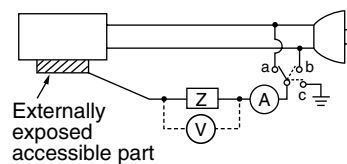


4. Leakage current test

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.

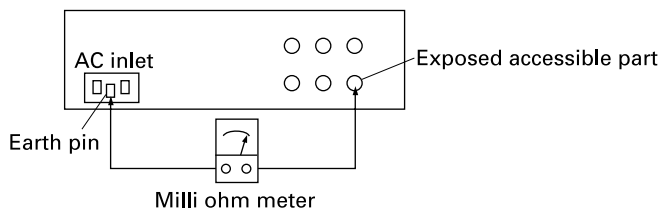


5. Grounding (Class 1 model only)

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.



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 200 to 240 V	Europe & Australia	$R \geq 10 \text{ M}\Omega/500 \text{ V DC}$	AC 3 kV 1 minute (Class II)	$d \geq 4 \text{ mm}$
			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 0.088N·m(0.9kgf·cm).

1.1.2 Assembly and disassembly

STEP No.	PART	Fig.No.	POINT	NOTE
① / ②	UPPER CASE ASSY (Inc. MONITOR ASSY / E.VF ASSY)	Fig. 1-3-1	5(S①a), 4(S①b), 3(S①c), CN①	—
②	DSC BOARD ASSY		(S②), CN②a, CN②b	—
③	COVER (HINGE)	Fig. 1-3-2	2(S③)	—
(1)	(2)	(3)	(4)	(5)

- (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

(Example)

- 2 (S①): Remove the two screws (S①) for removing the part 1.
- CN① : Disconnect the connector①.
- 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]

CONN. No.	CONNECTOR					Pin No.
CN①	MAIN	CN101	↔	MONITOR	CN761	40

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.

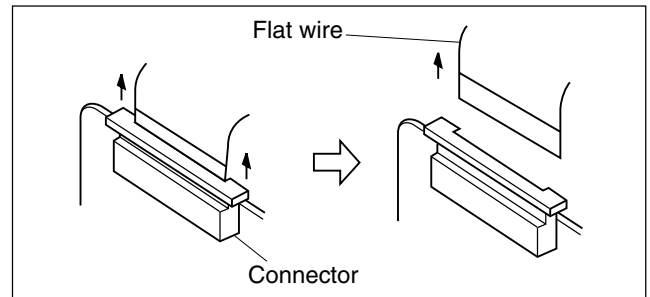


Fig. 1-1-1 Connector 1

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.

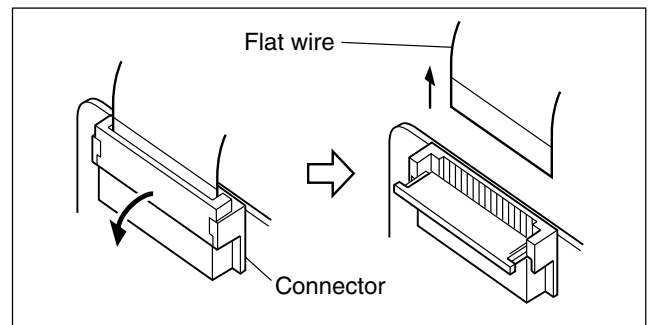


Fig. 1-1-2 Connector 2

B-B connector

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

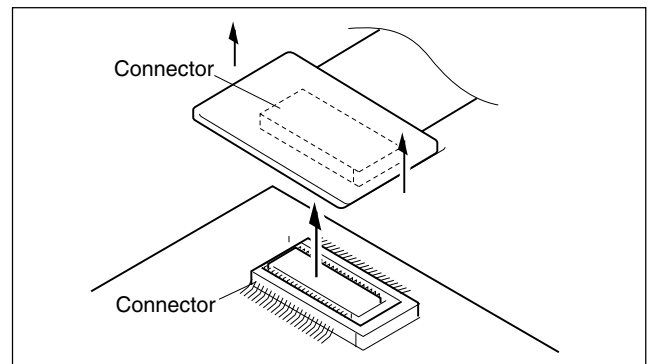


Fig. 1-1-3 Connector 3

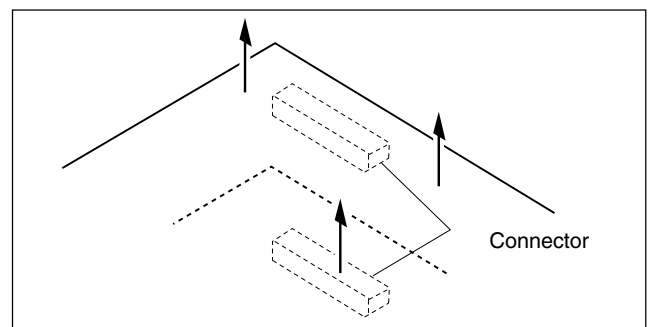


Fig. 1-1-4 Connector 4

1.2 JIGS AND TOOLS REQUIRED FOR DISASSEMBLY, ASSEMBLY AND ADJUSTMENT

1.2.1 Tools required for adjustments

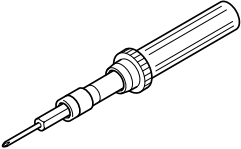
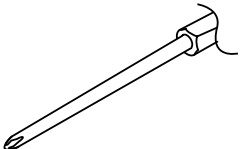
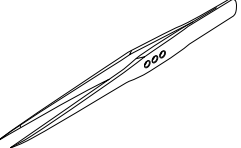
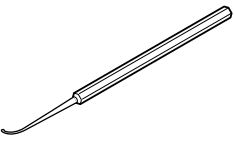
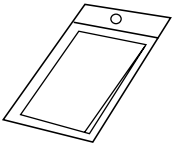
1	Torque Driver YTU94088	2	Bit YTU94088-003
			
3	Tweezers P-895	4	Chip IC Replacement Jig PTS40844-2
			
5	Cleaning Cloth KSMM-01		
			

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.

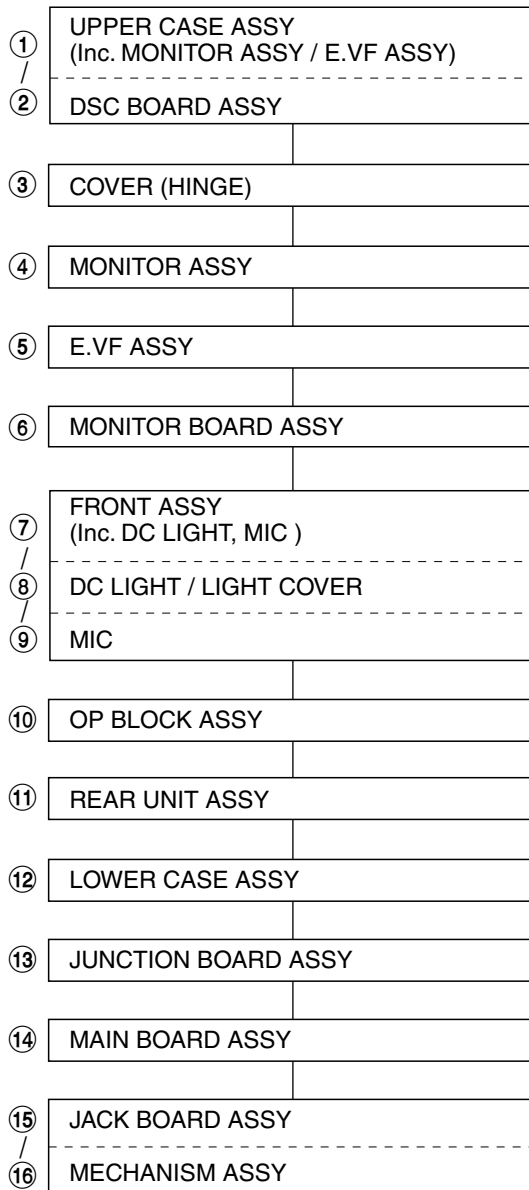


Table 1-3-1

1.3.2 Disassembly method

STEP No.	PART	Fig.No.	POINT	NOTE
① / ②	UPPER CASE ASSY (Inc. MONITOR ASSY / E.VF ASSY)	Fig. 1-3-1	6(S①a), 4(S①b), 3(S①c), CN①	—
③	DSC BOARD ASSY		(S②), CN②a, CN②b	—
④	COVER (HINGE)	Fig. 1-3-2	2(S③)	—
⑤	MONITOR ASSY	Fig. 1-3-3	CN④, 2(S④)	—
⑥	E.VF ASSY	Fig. 1-3-4	CN⑤, 2(S⑤)	—
⑦	MONITOR BOARD ASSY	Fig. 1-3-5	CN⑥, 5(S⑥a), (S⑥b), 4(S⑥c), BRACKET (MONITOR), SPEAKER	NOTE⑥
⑧ / ⑨	FRONT ASSY (Inc. DC LIGHT, MIC)	Fig. 1-3-6	COVER (JACK), CN⑦, 2(S⑦), (L⑦a), (L⑦b)	NOTE⑦
⑩	DC LIGHT / LIGHT COVER		2(L⑧c)	
⑪	MIC		(S⑨)	
⑫	OP BLOCK ASSY	Fig. 1-3-7	CN⑩a, CN⑩b, (S⑩a), (S⑩b)	NOTE⑩
⑬	REAR UNIT ASSY	Fig. 1-3-8	CN⑪a, CN⑪b, COVER(DC), 3(S⑪)	NOTE⑪
⑭	LOWER CASE ASSY	Fig. 1-3-9	CN⑫, 2(S⑫a), 3(S⑫b)	—
⑮	JUNCTION BOARD ASSY	Fig. 1-3-10	(S⑬a), (S⑬b), CN⑬a, CN⑬b, CN⑬c, CN⑬d	NOTE⑬a NOTE⑬b
⑯	MAIN BOARD ASSY	Fig. 1-3-11	(S⑭a), (L⑭a), SHIELD PLATE, CN⑭a, CN⑭b, CN⑭c, 2(S⑭b)	—
⑰	JACK BOARD ASSY	Fig. 1-3-12	2(S⑮a), CN⑮a	—
⑱	MECHANISM ASSY		2(S⑯a), (S⑯b)	—

Table 1-3-2

NOTE⑥ : Be careful not to lose any parts.

NOTE⑦ : As screw No.31 is hidden behind the COVER (JACK), open the COVER (JACK) to enable removal of the screw.

NOTE⑩ : Remove the connector.

Note: Remove the parts marked in .

CONN. No.	CONNECTOR				Pin No.
CN①	MAIN	CN101	⇔	MONITOR	CN761 40
CN②a	DSC	CN8002	⇔	MONITOR	CN762 10
CN②b	DSC	CN8001	⇔	MAIN	CN111 80
CN④	MONITOR	CN764	⇔	LCD BL	CN751 33/32
CN⑤	MONITOR	CN763	⇔	E.VF ASSY	CN721 20
CN⑥	MONITOR	CN765	⇔	SPEAKER	— 2
CN⑦	MAIN	CN106	⇔	MIC	3
			⇔	DC LIGHT	2
CN⑩a	MAIN	CN108	⇔	OP BLOCK ASSY	— 24
CN⑩b	MAIN	CN107	⇔	CCD	— 20
CN⑪a	MAIN	CN103	⇔	REAR UNIT	CN551 12
CN⑪b	MAIN	CN104	⇔	REAR UNIT	CN552 6
CN⑫	MAIN	CN109	⇔	ZOOM UNIT	— 15
CN⑬a	JUNCTION	CN571	⇔	MAIN	CN113 33
CN⑬b	JUNCTION	CN574	⇔	LOADING MOTOR	— 6
CN⑬c	JUNCTION	CN573	⇔	DRUM MOTOR	— 11
CN⑬d	JUNCTION	CN572	⇔	SENSOR	— 15
CN⑭a	MAIN	CN110	⇔	HEAD	— 8
CN⑭b	MAIN	CN112	⇔	CAPSTAN MOTOR	— 18
CN⑭c	MAIN	CN102	⇔	JACK	CN502 24
CN⑮a	JACK	CN501	⇔	ROTARY ENCODER	— 6

Table 1-3-3

NOTE⑪ : Open the COVER (DC).

NOTE⑬a : As the CN572 is located at the back of the assembly, unplug the three connectors and remove the screws before disconnecting the CN572.

NOTE⑬b : Be careful not to damage any of the switches.

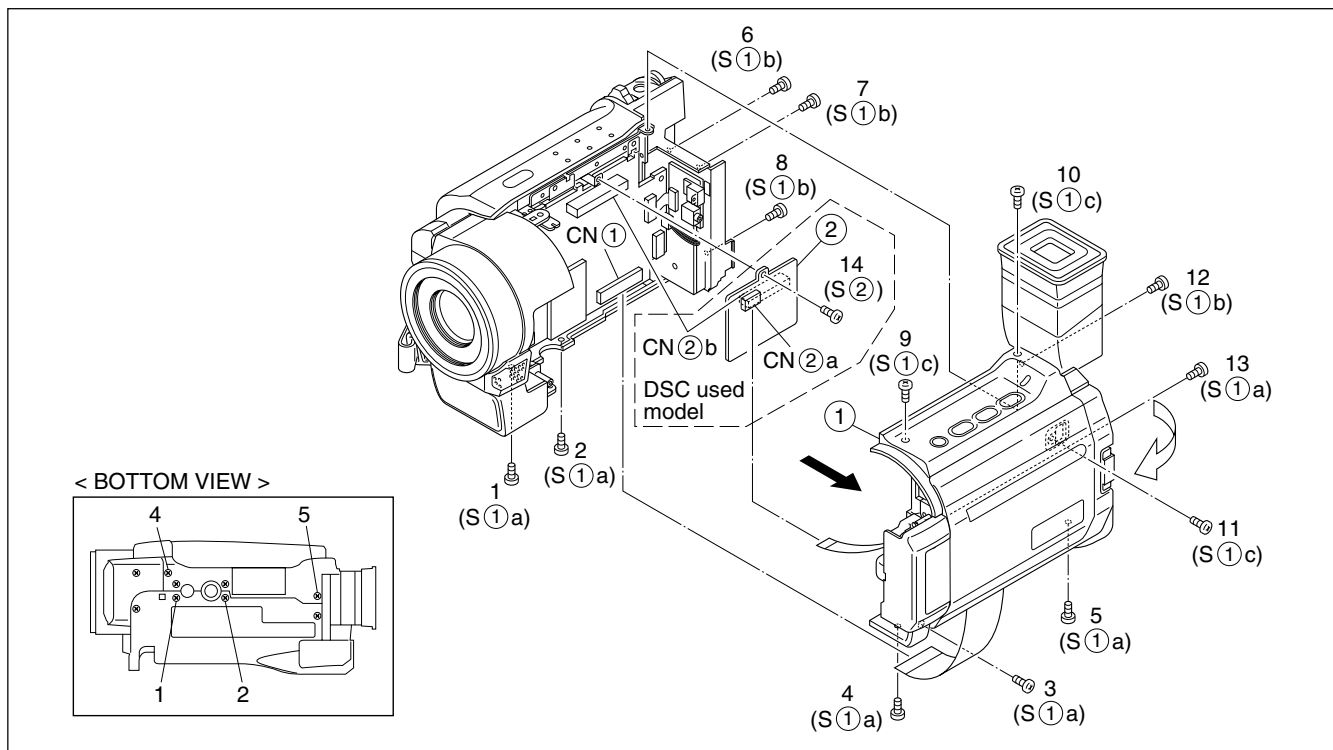


Fig. 1-3-1

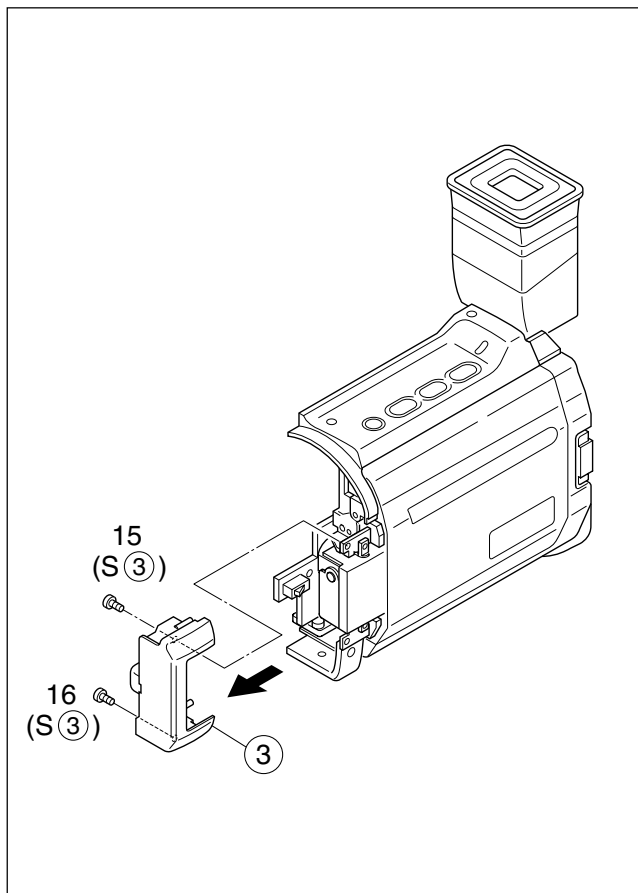


Fig. 1-3-2

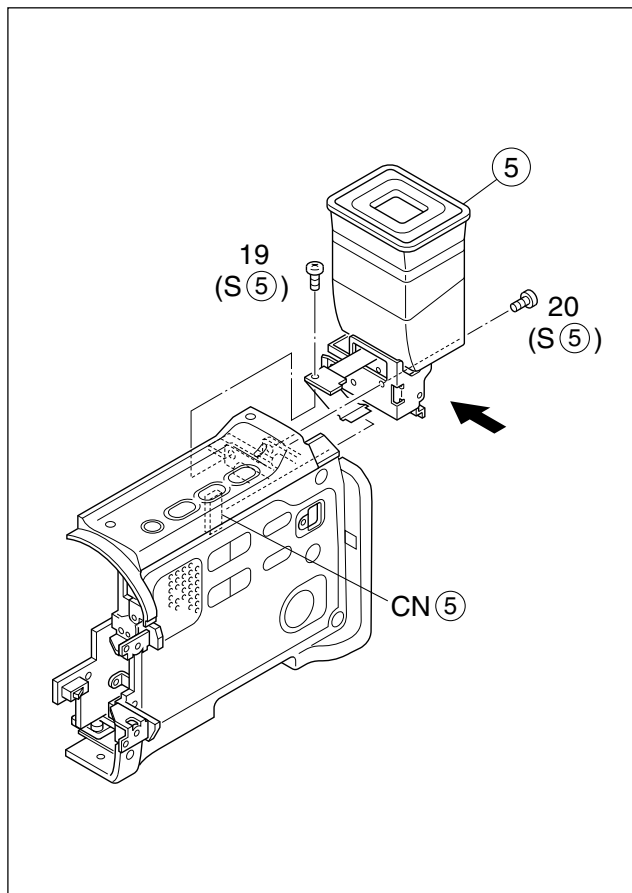


Fig. 1-3-4

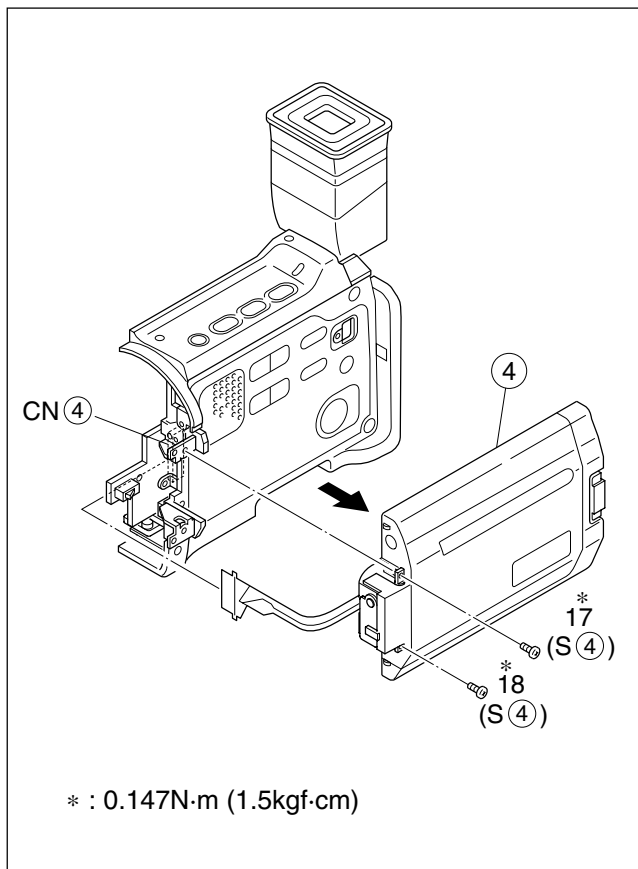


Fig. 1-3-3

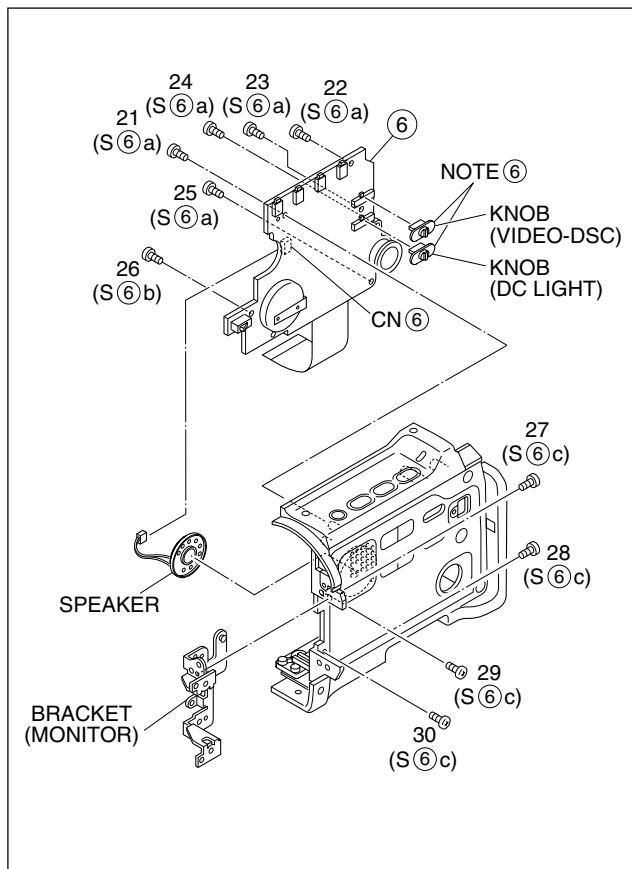


Fig. 1-3-5

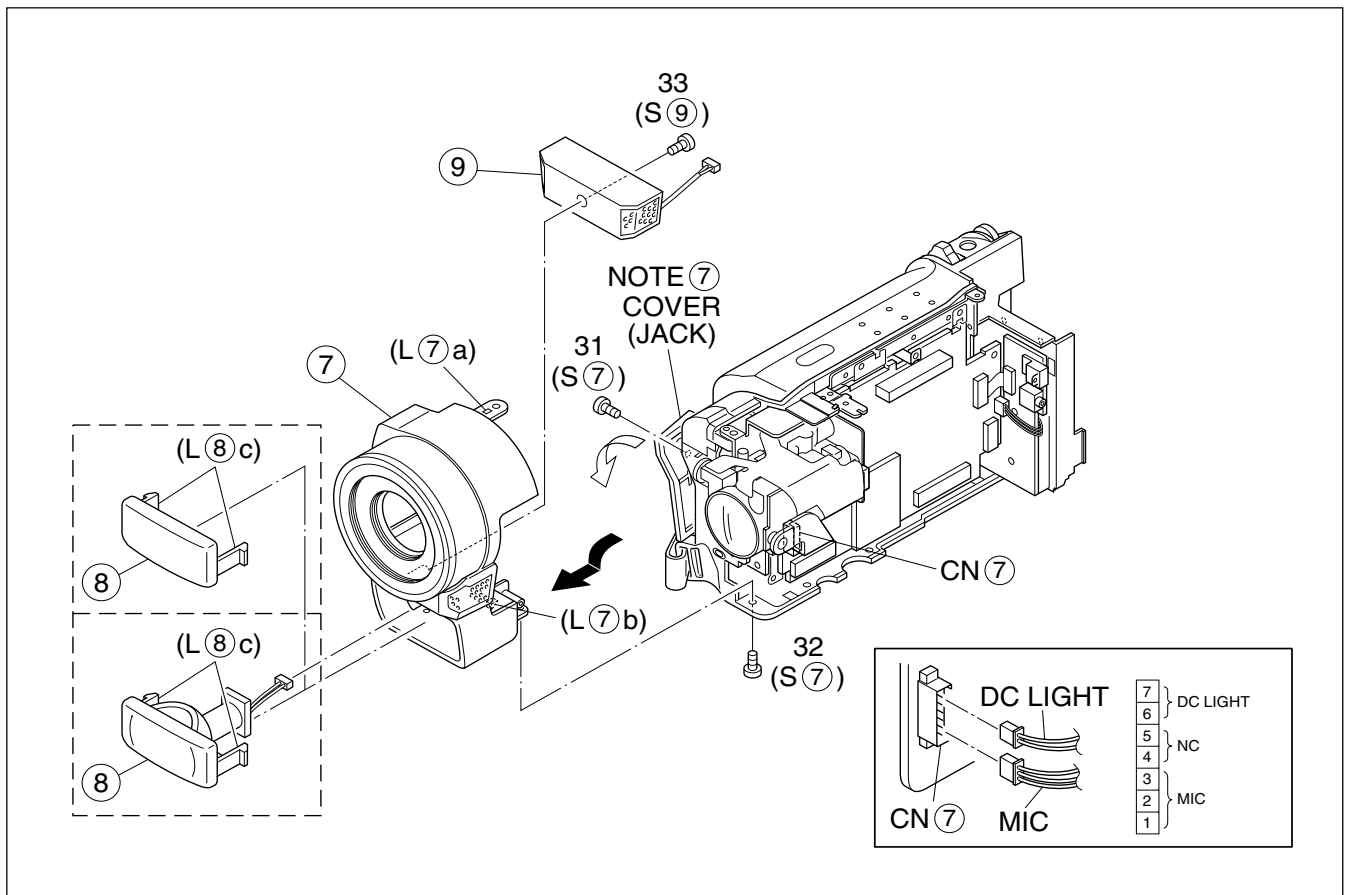


Fig. 1-3-6

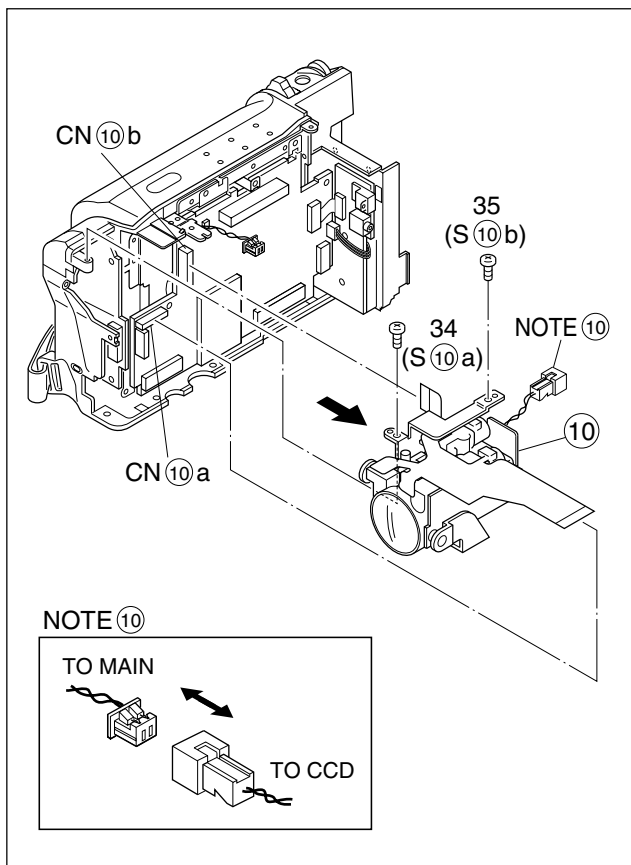


Fig. 1-3-7

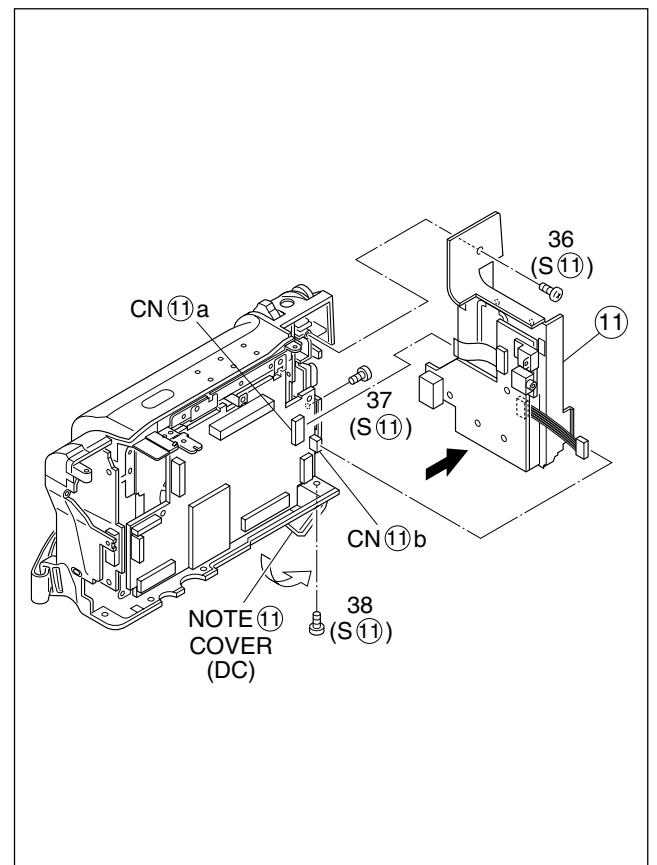


Fig. 1-3-8

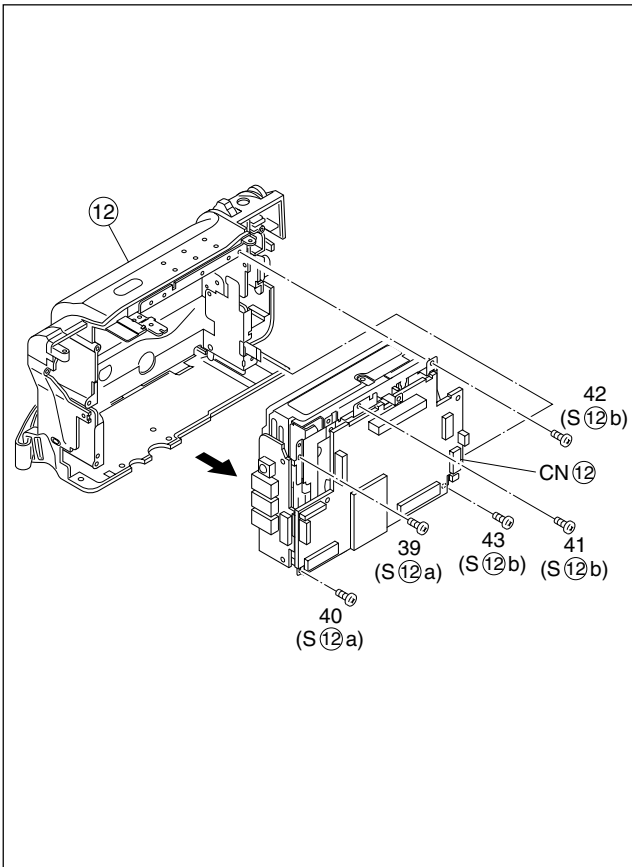


Fig. 1-3-9

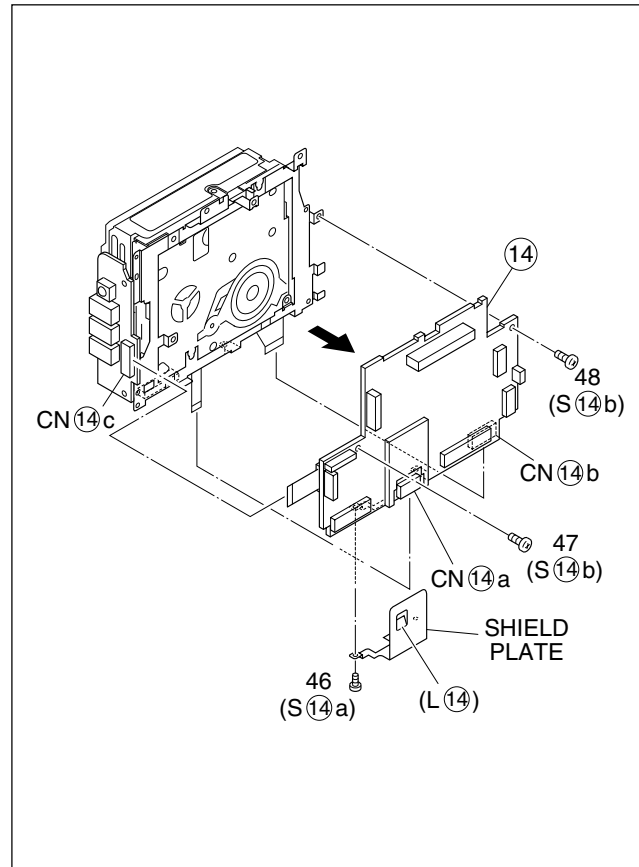


Fig. 1-3-11

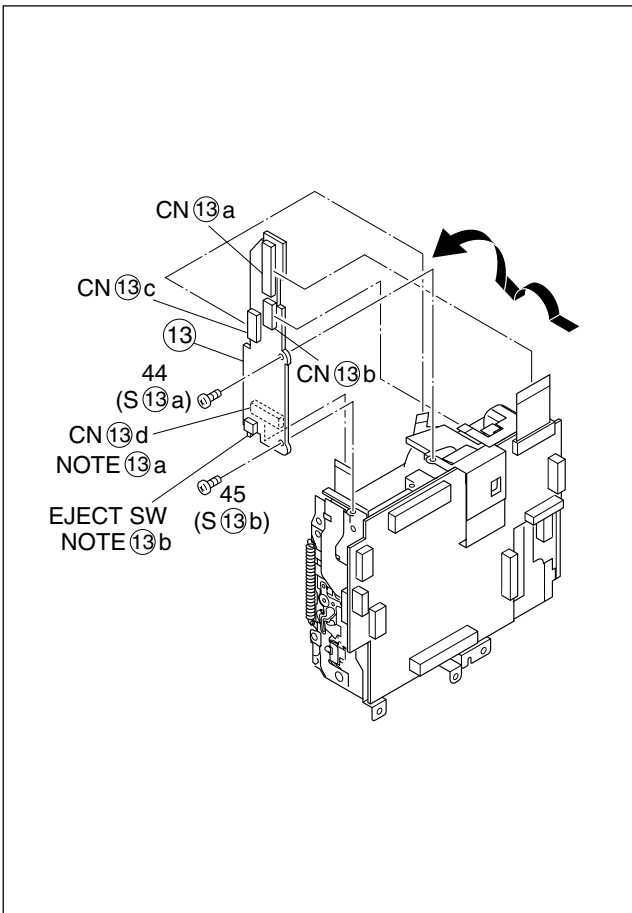


Fig. 1-3-10

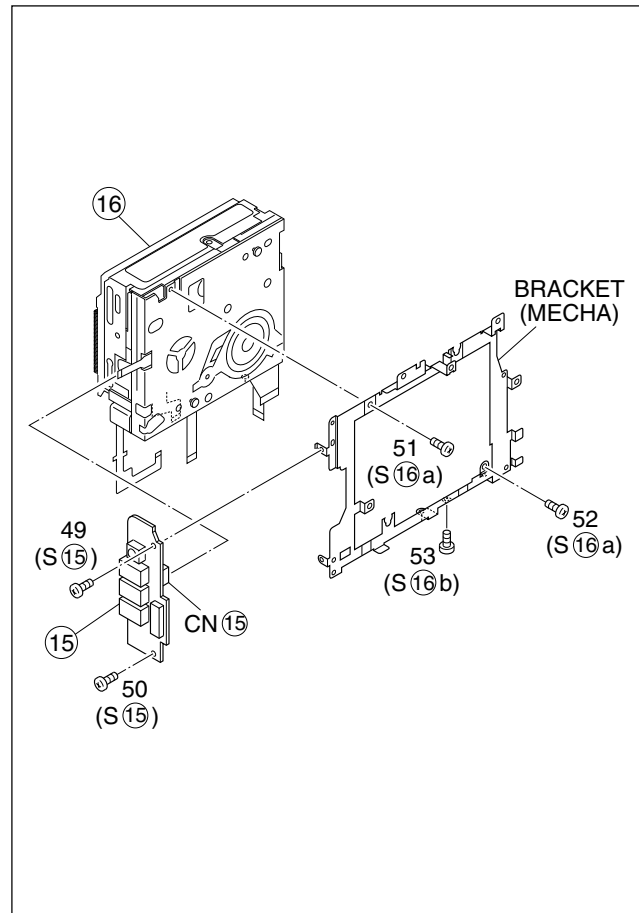


Fig. 1-3-12

1.4 ④ 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 (L④a to L④f) in alphabetical order, remove the monitor cover assembly.
2. Unlock the connector ③ and then disconnect the FPC while lifting the hinge assembly upwards to remove it together with the FPC.

Note④a: 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.

Note④b: 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.

1.4.2 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 (L④g, L④h) at the two sides.
2. Separate the SW board assembly and the FPC from the hinge assembly.

Note④c: 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.

Note④d: When disassembling/assembling the hinge assembly, pay careful attention to every part not to damage anything.

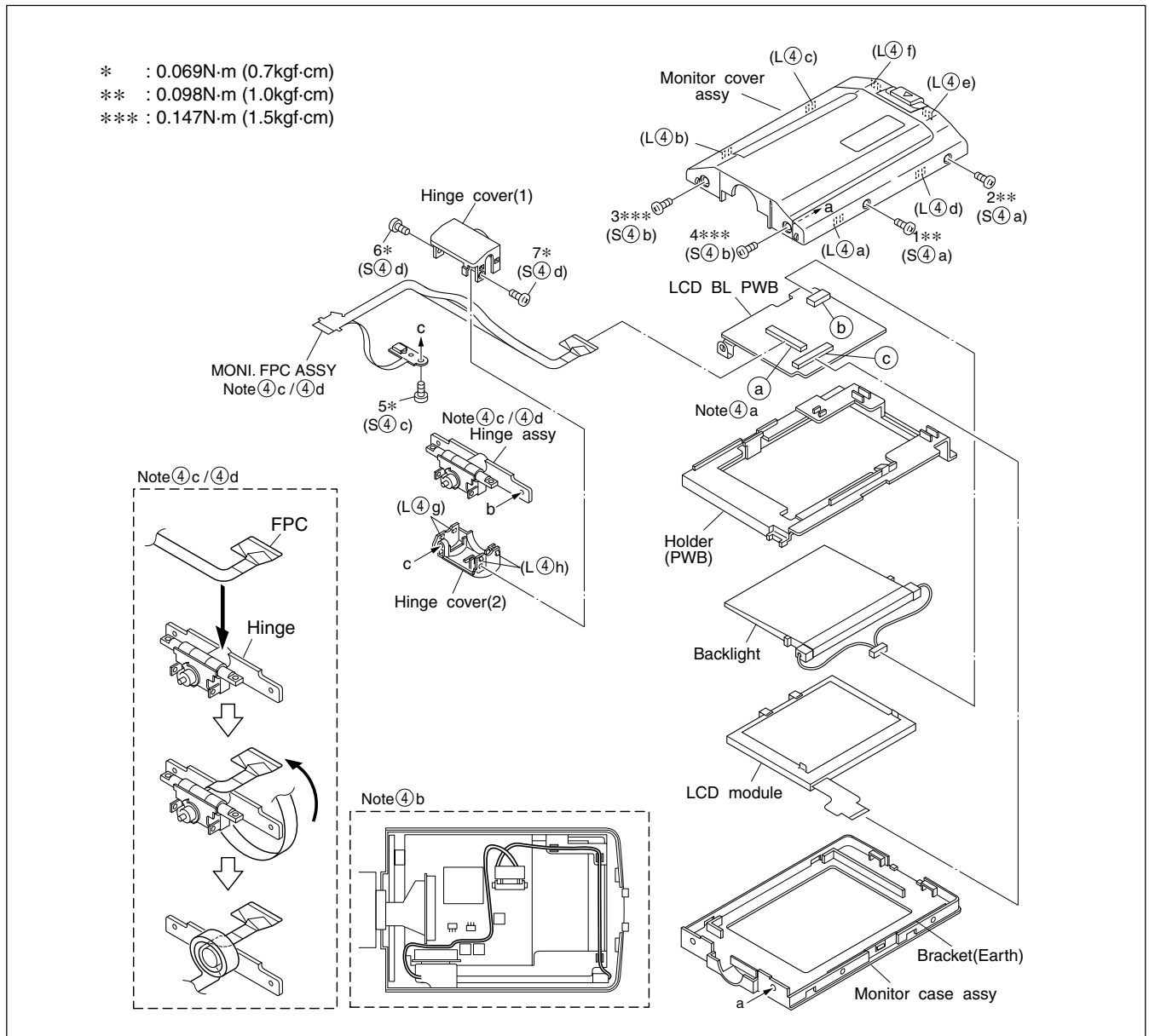


Fig. 1-4-1

1.5 ⑤ E. VF ASSEMBLY

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

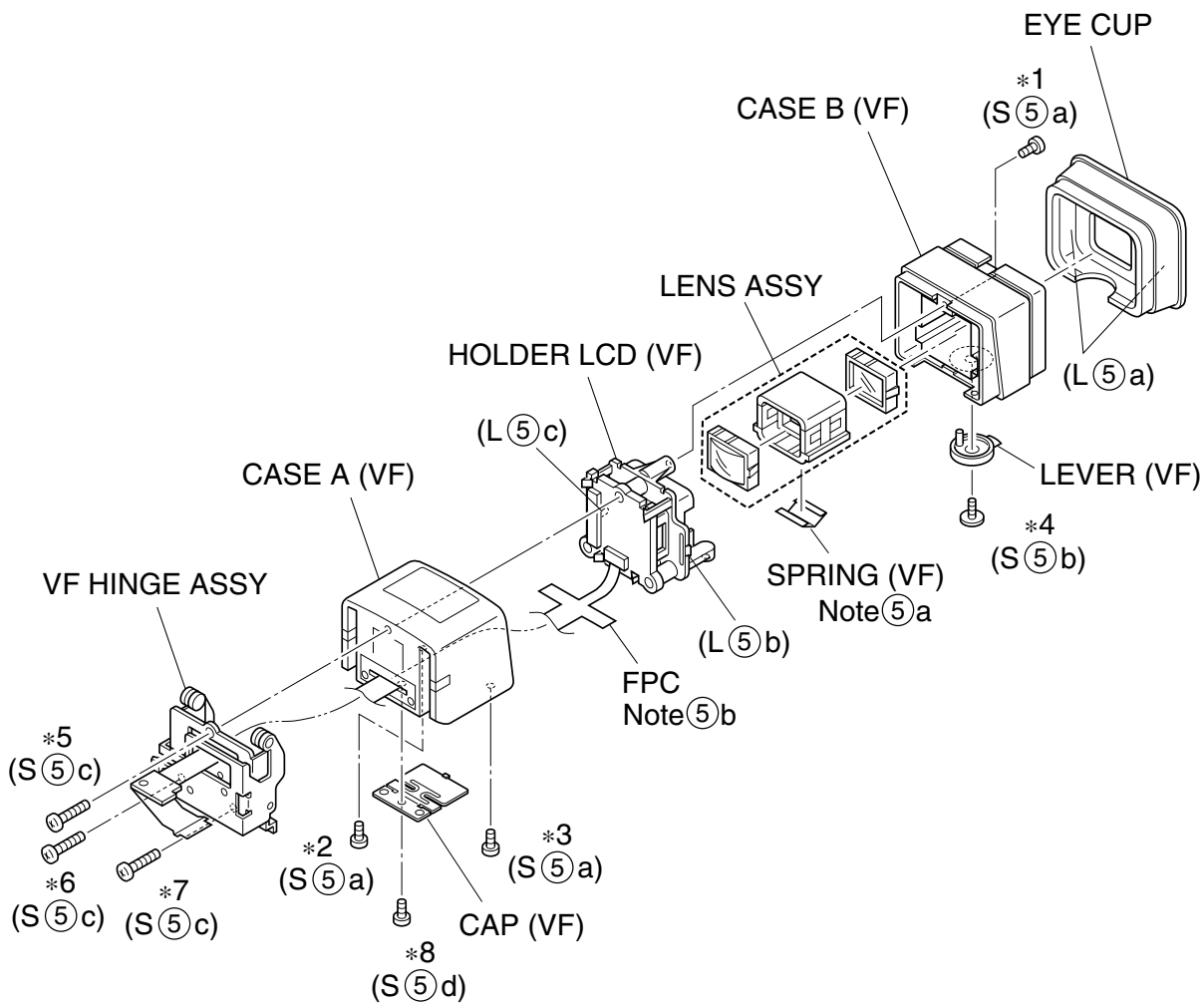
1. Remove the EYE CUP.
2. Remove the three screws (1 to 3) and then remove the CASE B (VF).
3. Remove the screw (4) to remove the LEVER (VF) and pull out the LENS ASSY.

Note⑤a: Be careful not to lose the SPRING (VF).

4. Remove the three screws (5 to 7) and then remove the VF HINGE ASSY.

Note⑤b: Be careful not to damage the FPC and not to break any wires during the operation.

5. Remove the screw (8) and then remove the CAP (VF).
6. Remove the FPC from the CASE A (VF) so that the CASE A (VF) may be unlocked.
7. Remove the HOLDER LCD (VF) while unlocking it by the both side.



* : 0.078 N•m (0.8 kgf•cm)

Fig. 1-5-1

1.6 DISASSEMBLY/ASSEMBLY OF ⑩ 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 (SD⑩) and then remove it.
2. Remove the two screws (1, 2) and remove the CCD base assembly.

Note⑩a: 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 ⑩b: 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.

Note⑩c: 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 (SD⑩).

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

Note⑩d: When replacing the focusing motor or the zoom motor, solder the FPC at a space of about 1 mm above the terminal pin.

Note⑩e: The iris motor unit includes the FPC Assembly and two sensors.

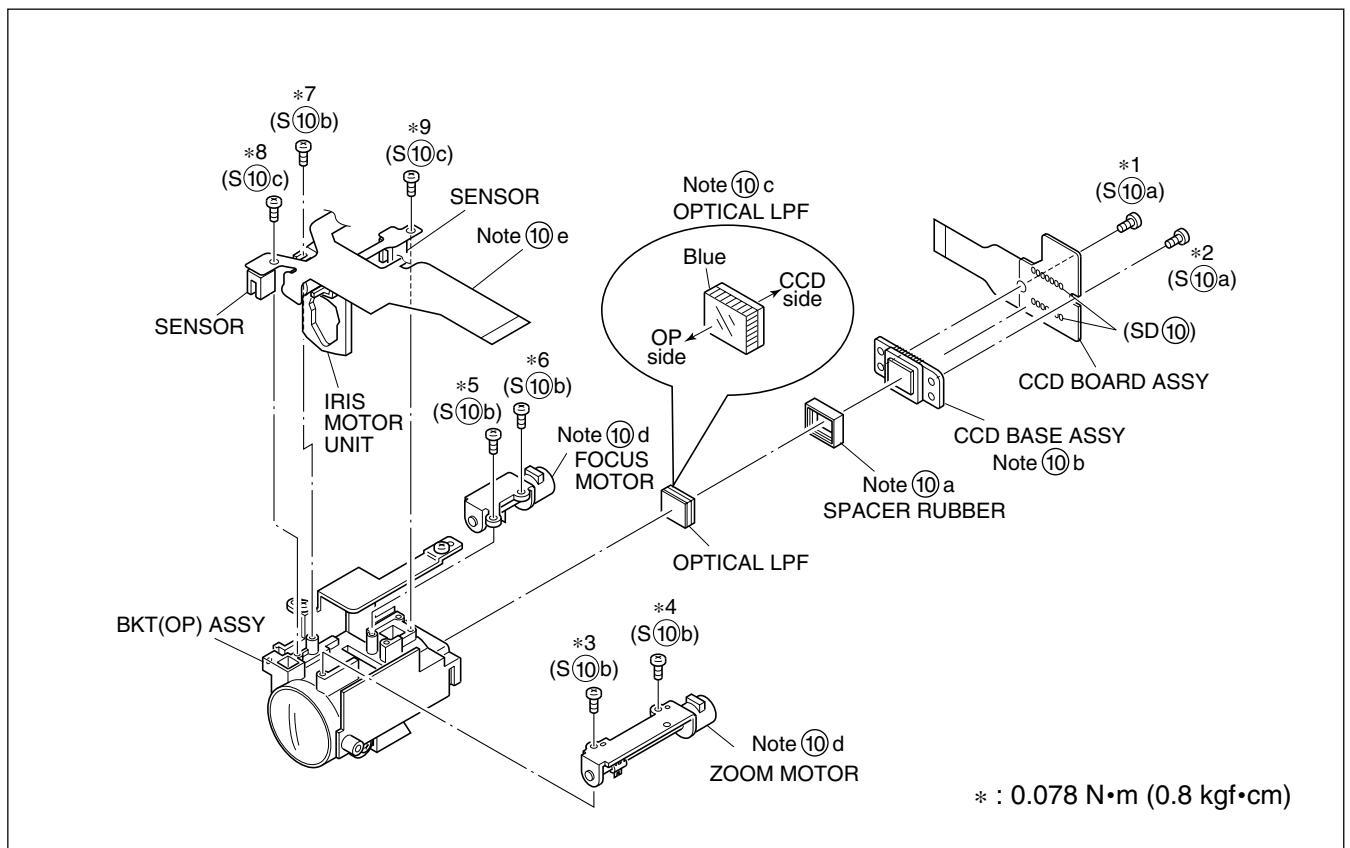


Fig. 1-6-1

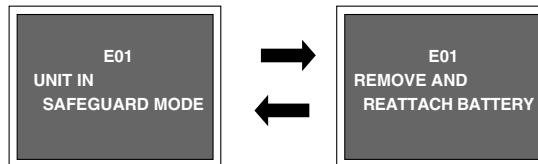
1.7 EMERGENCY DISPLAY

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].	- The mechanism is locked during mode shift. - The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. - No power is supplied to the loading MDA.
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].	- The mechanism is locked during mode shift. - The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
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.	- The idler gear does not engage with the reel disk well. - Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. - No FG pulse is output from the reel sensor. - No power is supplied to the reel sensor. - Tape transport operation takes place with a cassette having no tape inside. - The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
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.	- The drum cannot be started or drum rotation is stopped because tape transport load is too high. - Tape tension is extremely high. - The tape is damaged or soiled with grease, etc. - The DRUM FG signal is not received by the syscon CPU. - Disconnection in the middle of the signal line. - Failure of the DRUM FG pulse generator (hall element). - No drum control voltage is supplied to the MDA. - No power is supplied to the DRUM MDA.
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.	- The CAPSTAN FG signal is not received by the syscon CPU. - Disconnection in the middle of the signal line. - Failure of the CAPSTAN FG pulse generator (MR element). - No capstan control voltage is supplied to the MDA. - No power is supplied to the CAPSTAN MDA. - The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. - Tape tension is extremely high. (Mechanical locking) - The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

(DVC_03)

Table 1-7-1

Symbol No. →	①														②	③	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					
Place to stick screw →																									
Reference drawing →	Fig. 1-3-1																Fig. 1-3-2	Fig. 1-3-3	Fig. 1-3-4						
Screw tightening torque →															I					II					I

Symbol No. →	⑥										⑦ / ⑧ / ⑨			⑩	⑪			⑫						
Removing order of screw →	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	
Place to stick screw →															*					*	*	*	*	
Reference drawing →	Fig. 1-3-5										Fig. 1-3-6			Fig. 1-3-7			Fig. 1-3-8			Fig. 1-3-9				
Screw tightening torque →	I																							

Symbol No. →	⑬	⑭			⑮					MONITOR ASSY							
Removing order of screw →	44	45	46	47	48	49	50	51	52	53	1	2	3	4	5	6	7
Place to stick screw →	*												*	*			
Reference drawing →	Fig. 1-3-10	Fig. 1-3-11			Fig. 1-3-12					Fig. 1-4-1							
Screw tightening torque →		I								III			II		IV		

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

^
^
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 : 0.098N·m (1.0kgf·cm) |
| IV : 0.069N·m (0.7kgf·cm) | V : 0.078N·m (0.8kgf·cm) | VI : 0.118N·m (1.2kgf·cm) |

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
①	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)

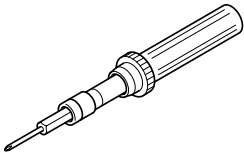
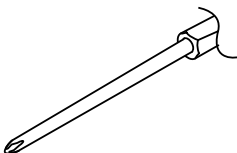
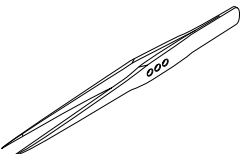
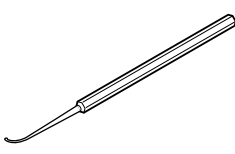
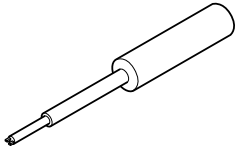
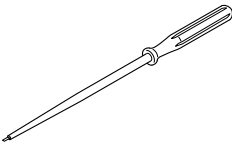
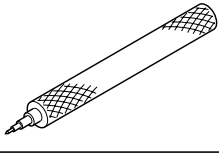
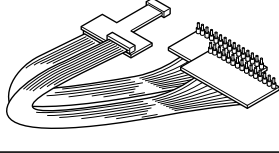
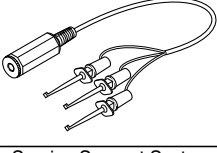
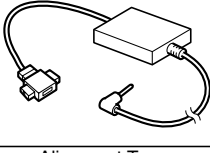
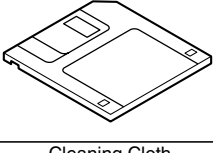
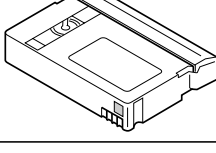
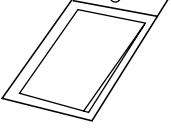
↑
(5)

↑
(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	Jig Connector cable YTU93082C
			
9	Communication cable YTU93107A	10	PC cable QAM0099-002
			
11	Service Support System YTU94057-57	12	Alignment Tape MC-2
			
13	Cleaning Cloth KSMM-01		
			

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. Jig Connector cable

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

9. Communication cable

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

10. PC cable

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

11. Service Support System

To be used for adjustment with a personal computer.

12. Alignment Tape

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

13. Cleaning Cloth

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

Table 2-2-1

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 compulsorily.

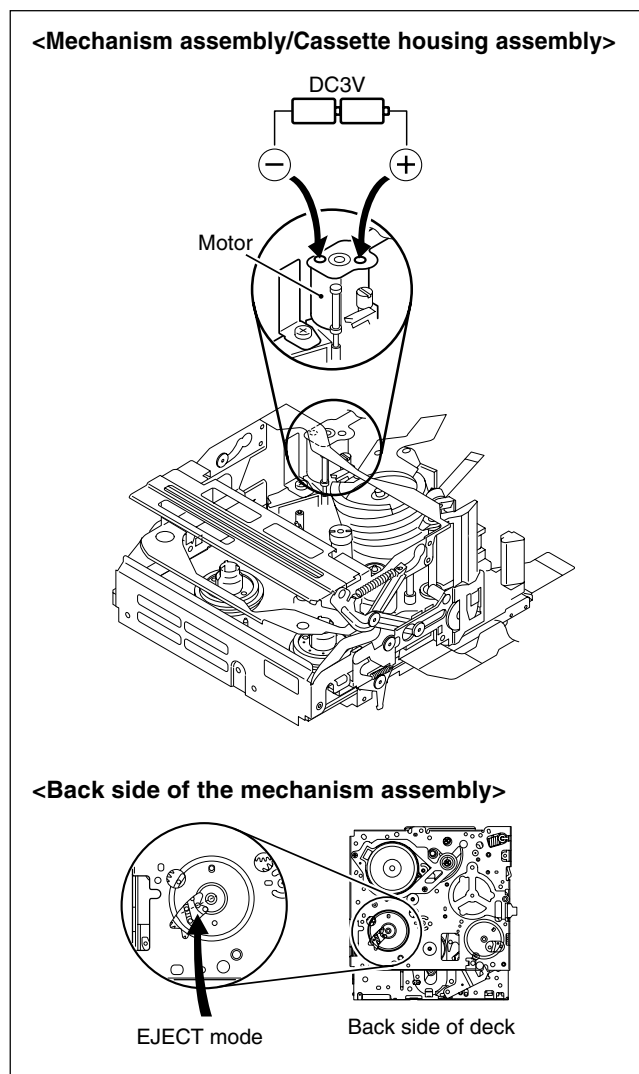


Fig. 2-3-1

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 "○" to the inner protrusion, while the STOP mode, REV mode and PLAY mode should be recognized by that to the outer protrusion.

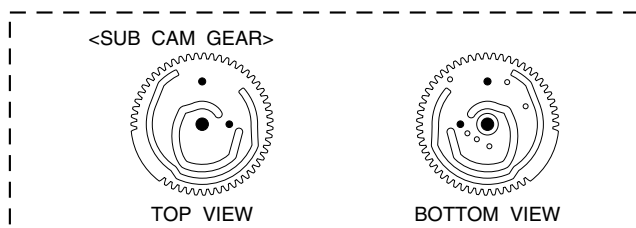


Fig. 2-3-2

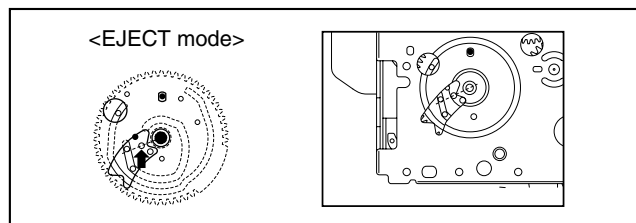


Fig. 2-3-3

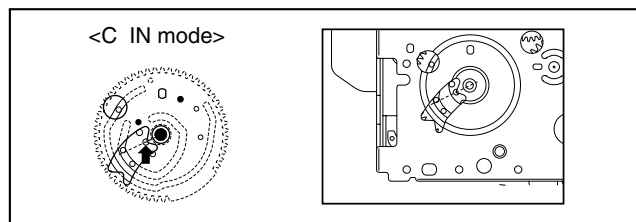


Fig. 2-3-4

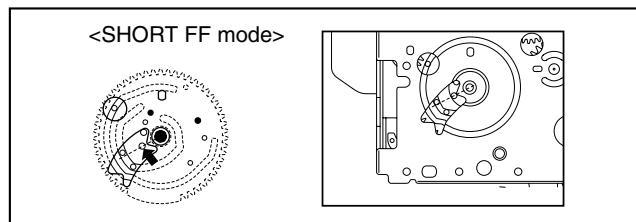


Fig. 2-3-5

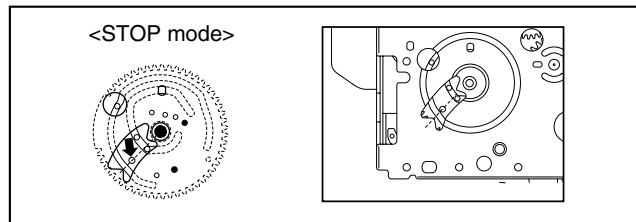


Fig. 2-3-6

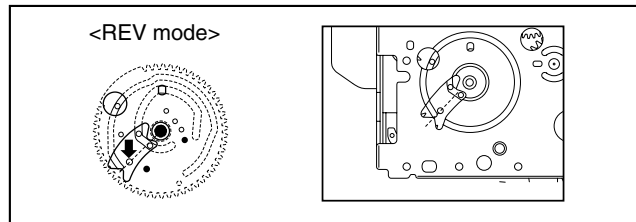


Fig. 2-3-7

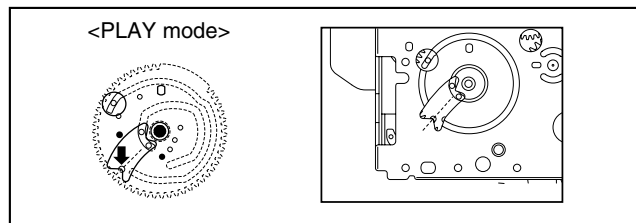


Fig. 2-3-8

2.3.3 Mechanism timing chart

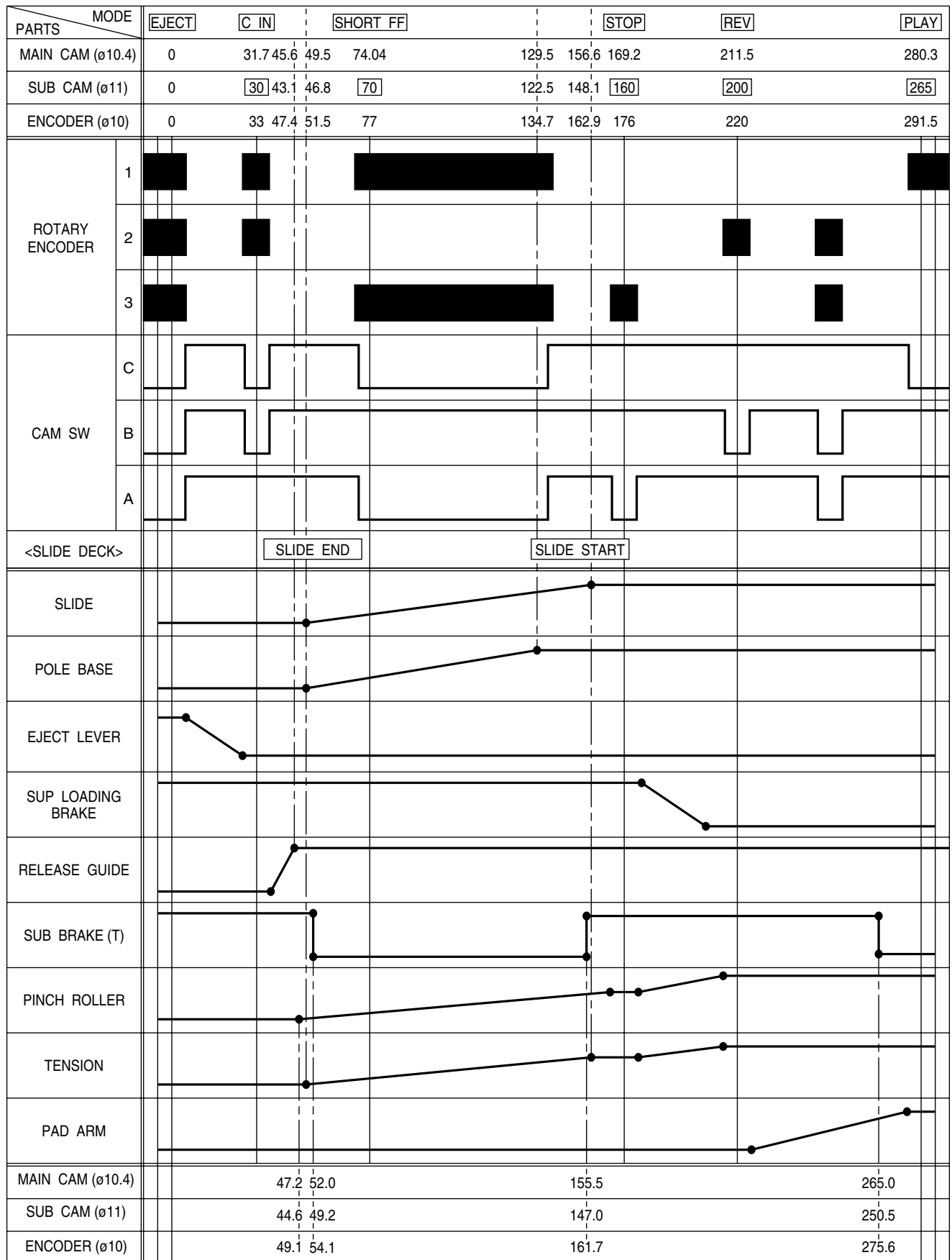


Table 2-3-1

2.4 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

2.4.1 Follow chart

1. Configuration

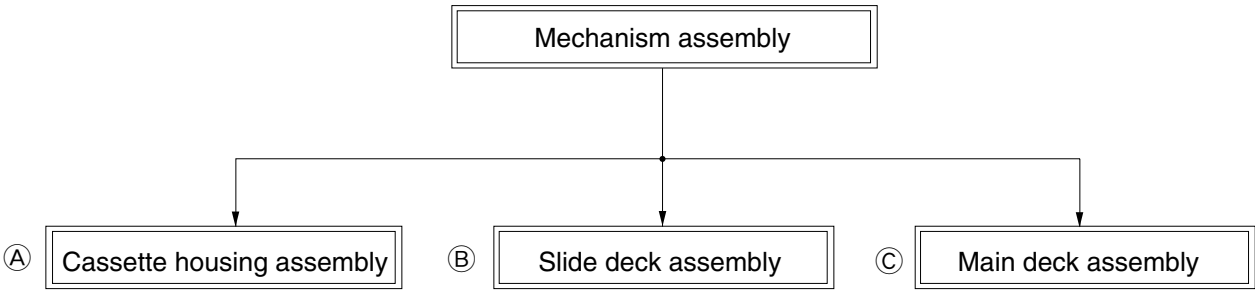


Fig. 2-4-1

2. Procedures for disassembly

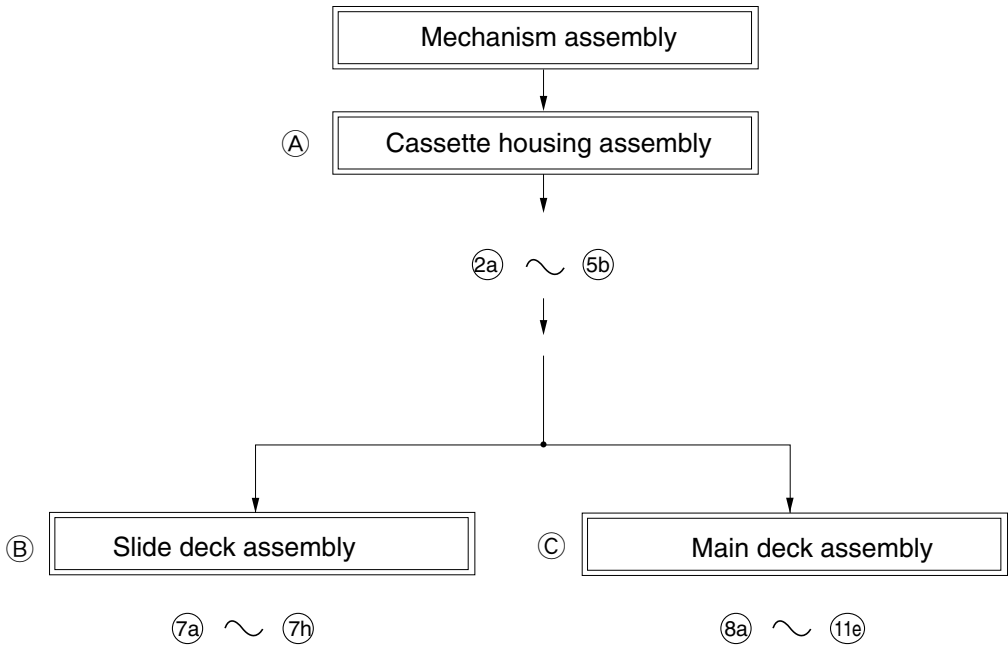


Fig. 2-4-2

3. Disassembling procedure table

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
①A	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	
⑥	Slide deck assembly / ⑦C Main deck assembly	T	Fig. 2-4-10	(W6),(L6a)-(L6d)	6a, 6b	(Adjustment)
⑦B	Slide deck assembly					
⑦a	Loading brake assembly	T	Fig. 2-4-11	(W7),(L7a),(P7a)	7e	Adjustment
⑦b	Guide pin (S)	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	
⑦C	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 >

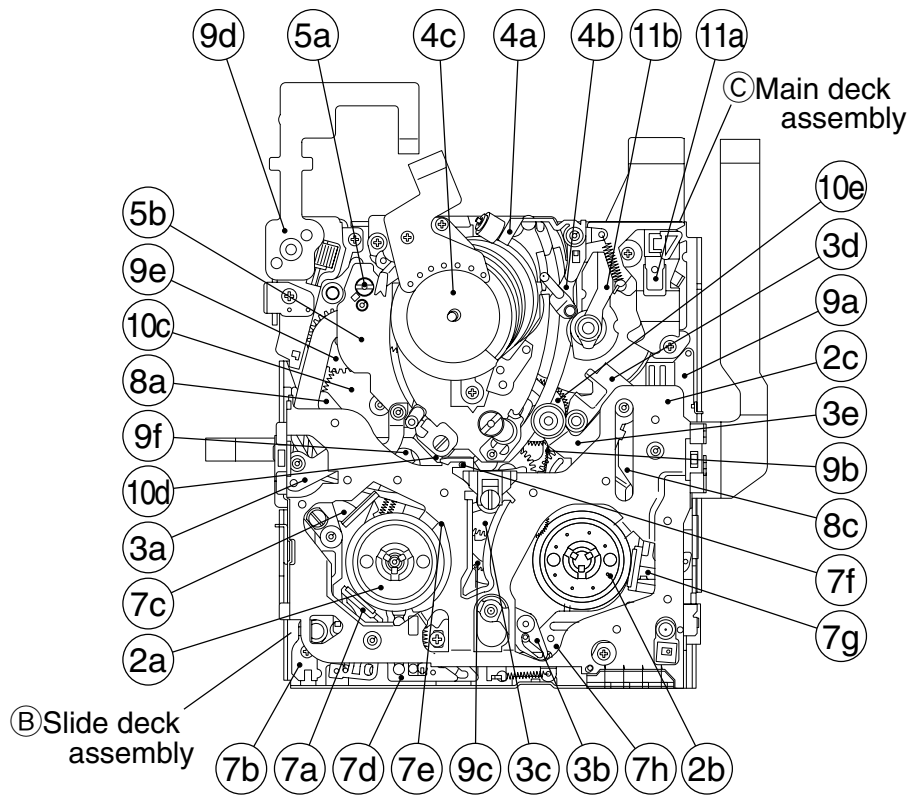


Fig. 2-4-3

< BOTTOM VIEW >

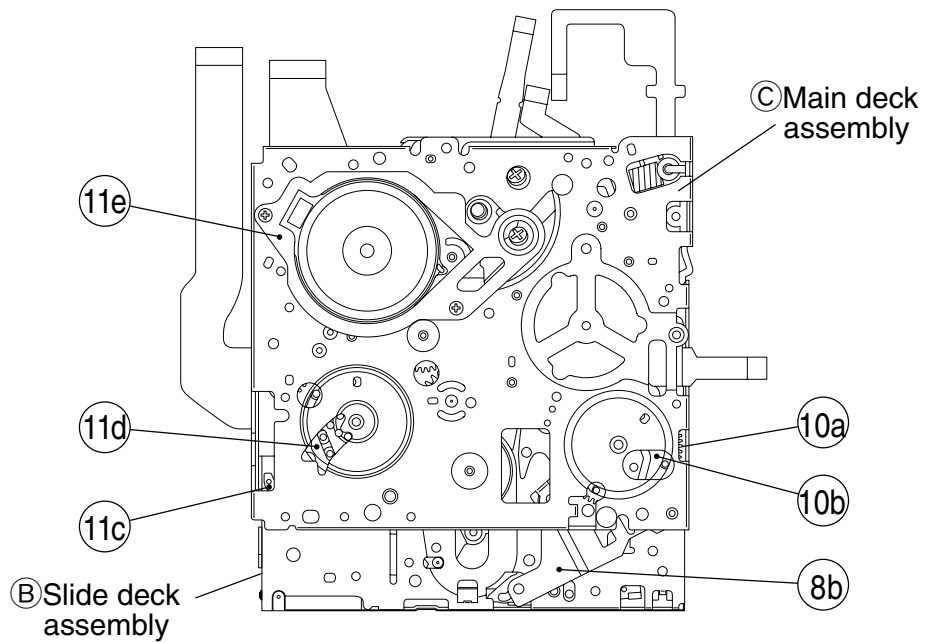


Fig. 2-4-4

2.4.2 Disassembly/assembly

1. ① Cassette housing assembly

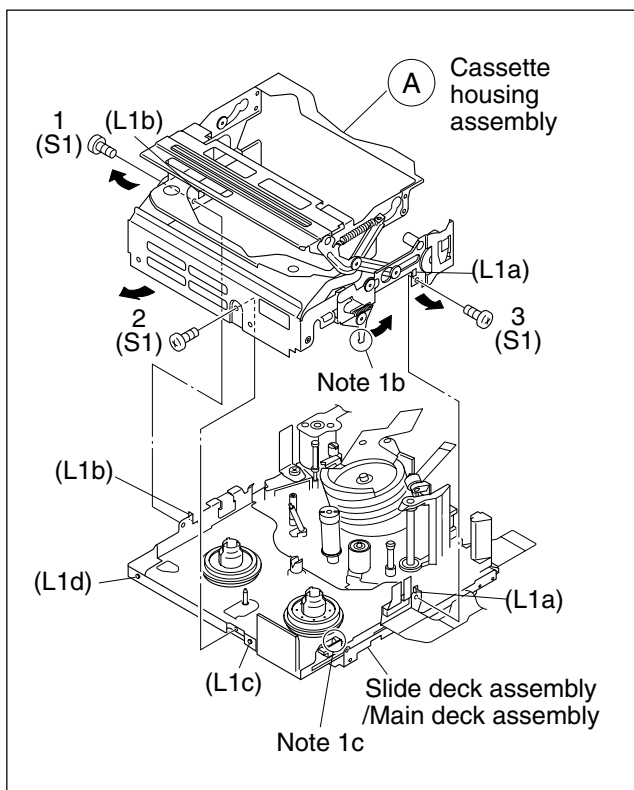


Fig. 2-4-5

2. ②a Reel disk (SUP) assembly

②b Reel disk (TU) assembly

②c Reel cover assembly

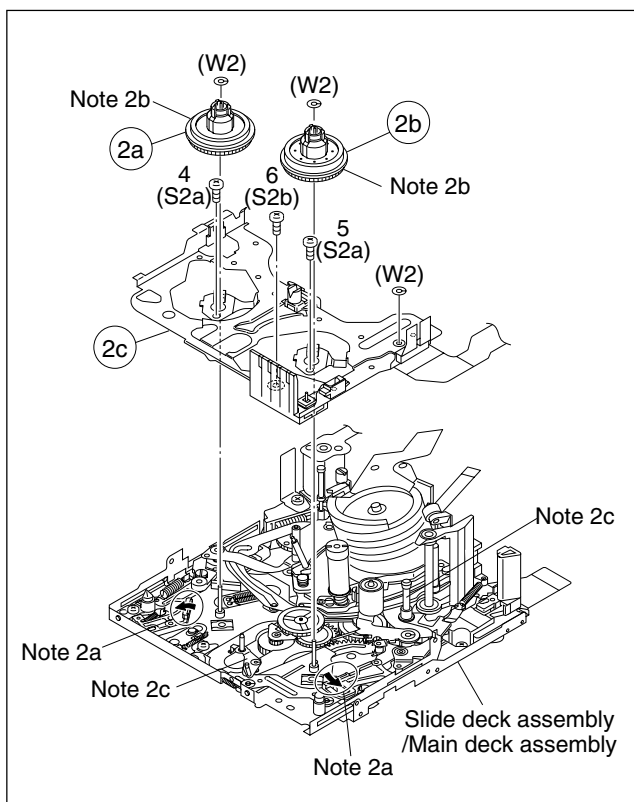
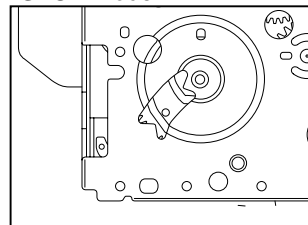
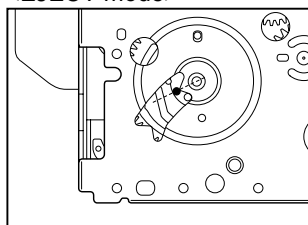


Fig. 2-4-6

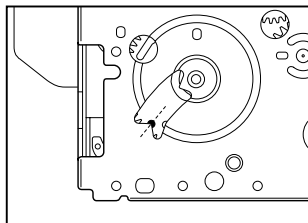
<STOP mode>



<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.

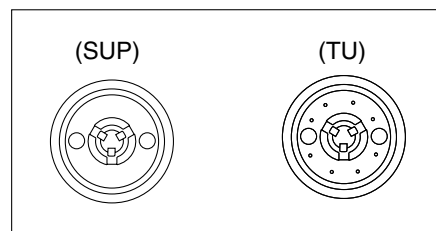
For details of checking method, refer to "2.6.1 assembling slide deck assembly and main deck assembly".

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
 ③c Idler arm assembly/ ③d Guide arm assembly
 ③e Pinch roller arm assembly

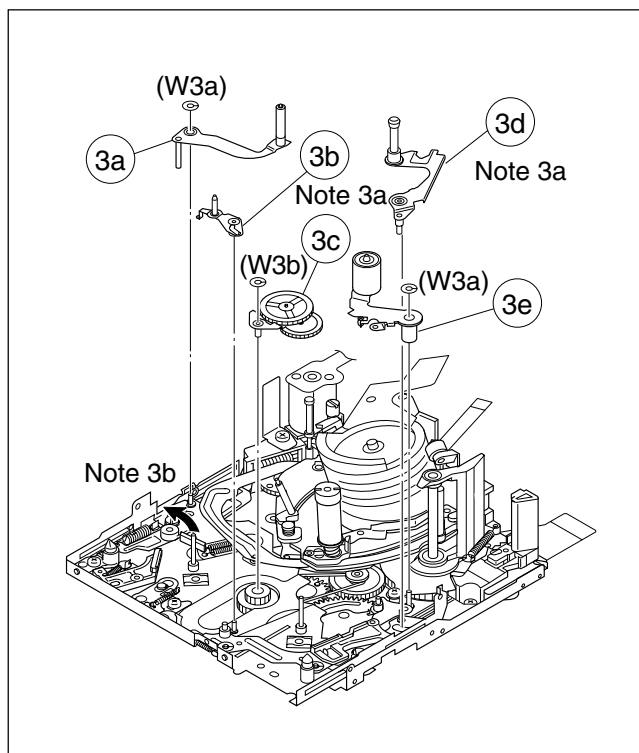


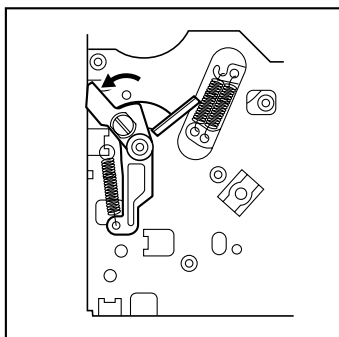
Fig. 2-4-7

Note 3a:

When removing the reel cover assembly, pay heed to release guide assembly and guide 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
 ④c Drum assembly

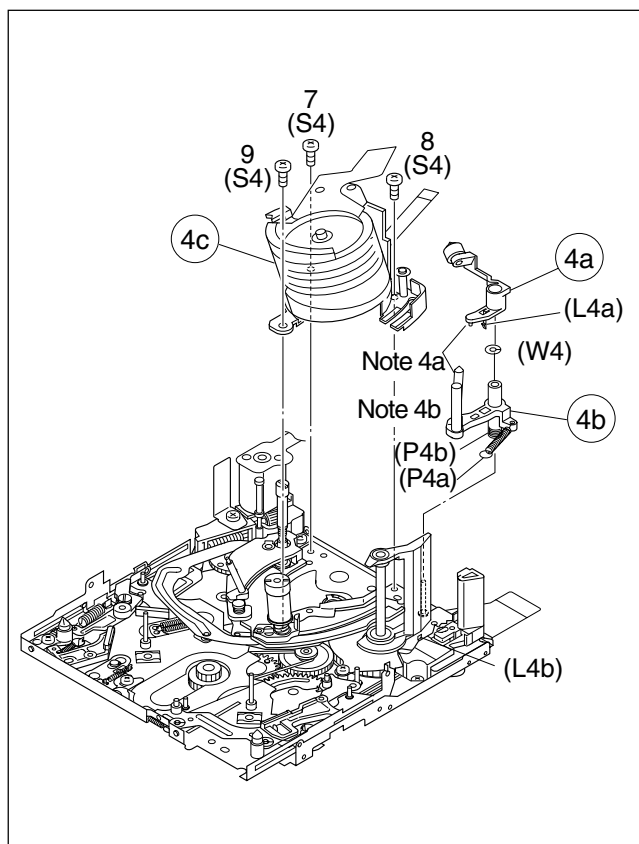


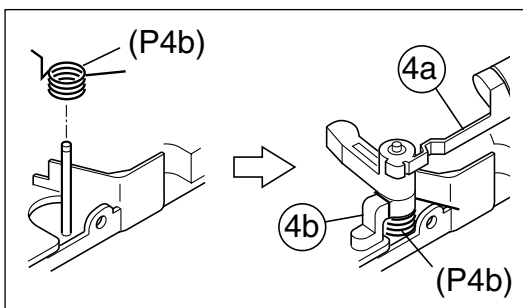
Fig. 2-4-8

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 (S) assembly/ 5b Rail assembly

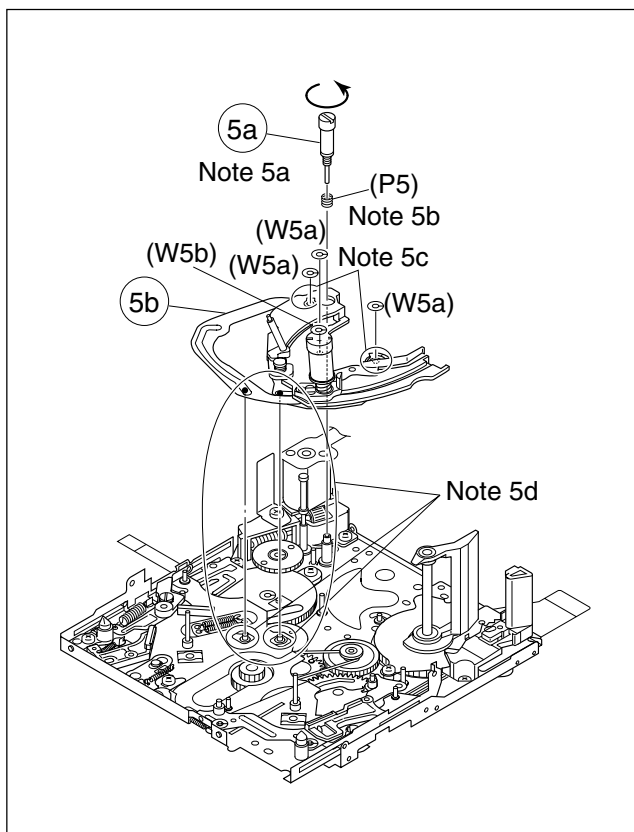
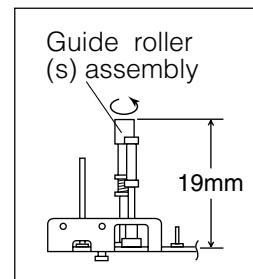


Fig. 2-4-9

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. B Slide deck assembly/ C Main deck assembly

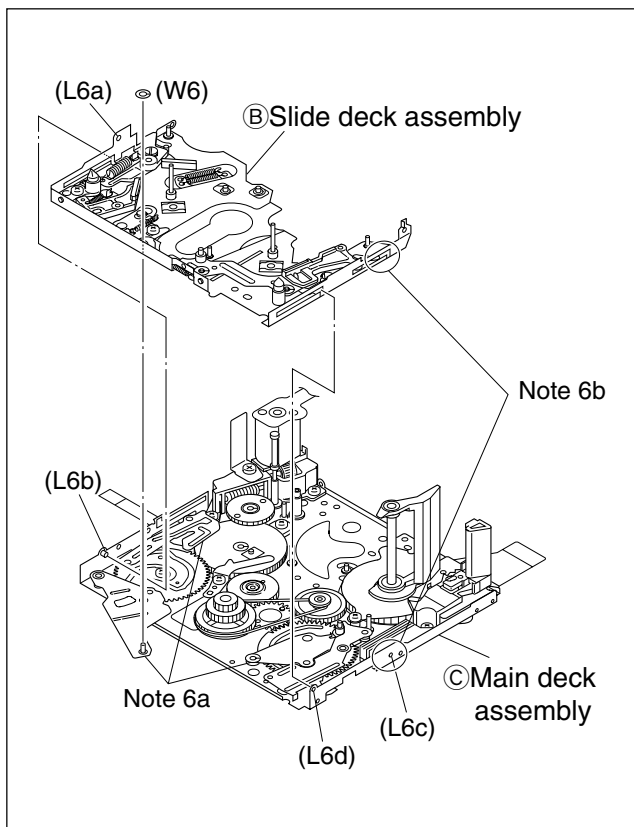


Fig. 2-4-10

Note 6a:

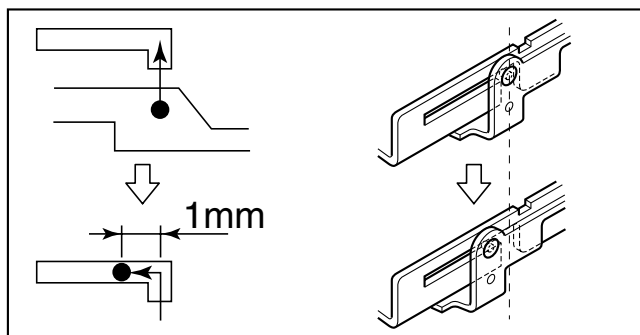
When removing the slide deck assembly, pay heed to the three components of the following because they are apt to come off after the slide deck assembly is removed.

- 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

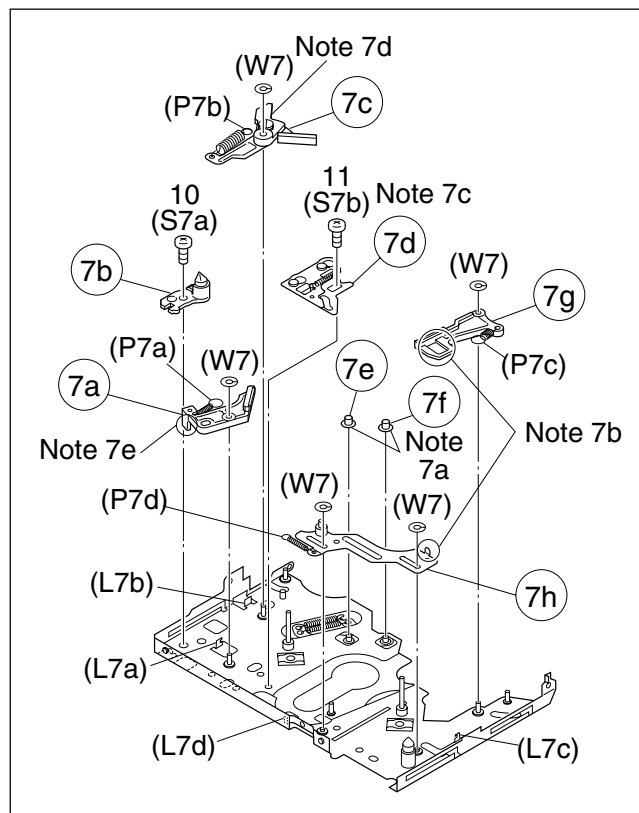


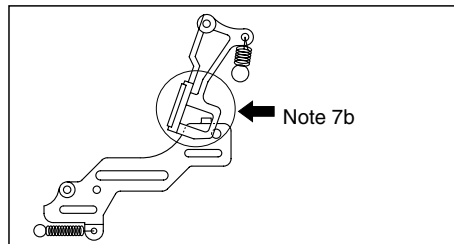
Fig. 2-4-11

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

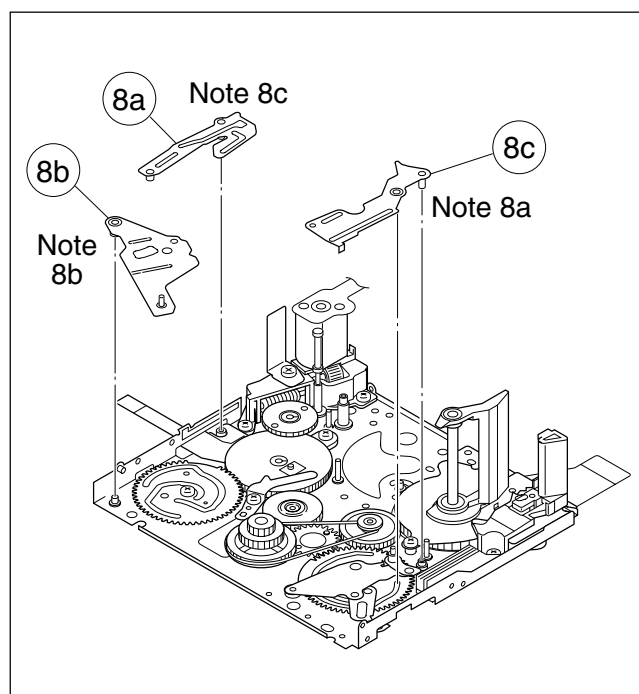
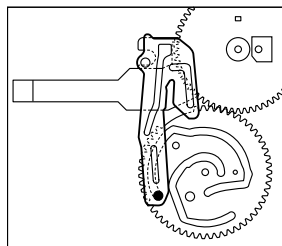


Fig. 2-4-12

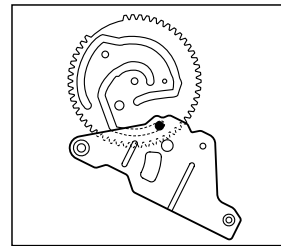
Note 8a, 8b, 8c:

For refitting the respective parts, refer to the following figures

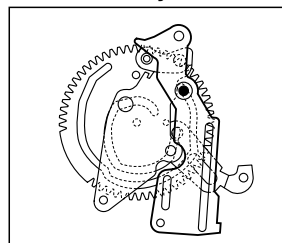
⑧a Tension lever assembly



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

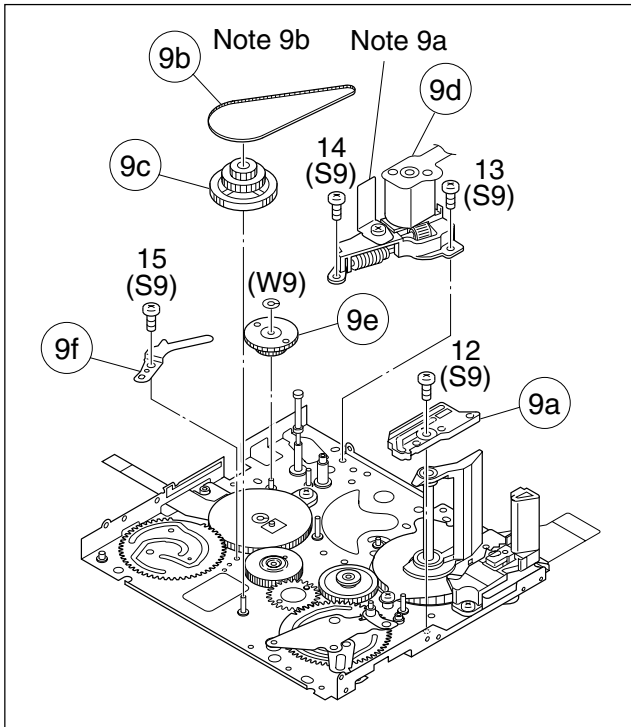


Fig. 2-4-13

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

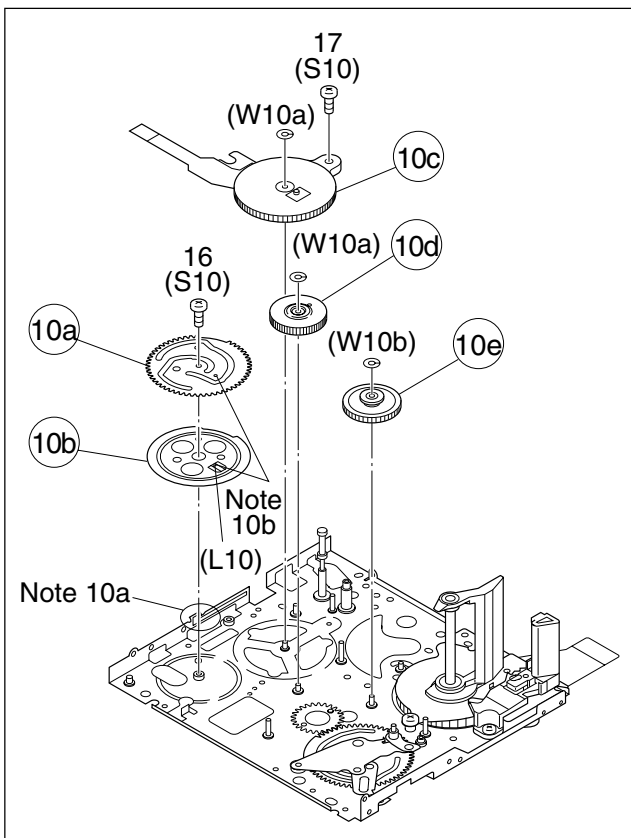


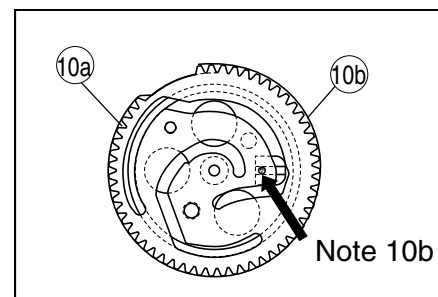
Fig. 2-4-14

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

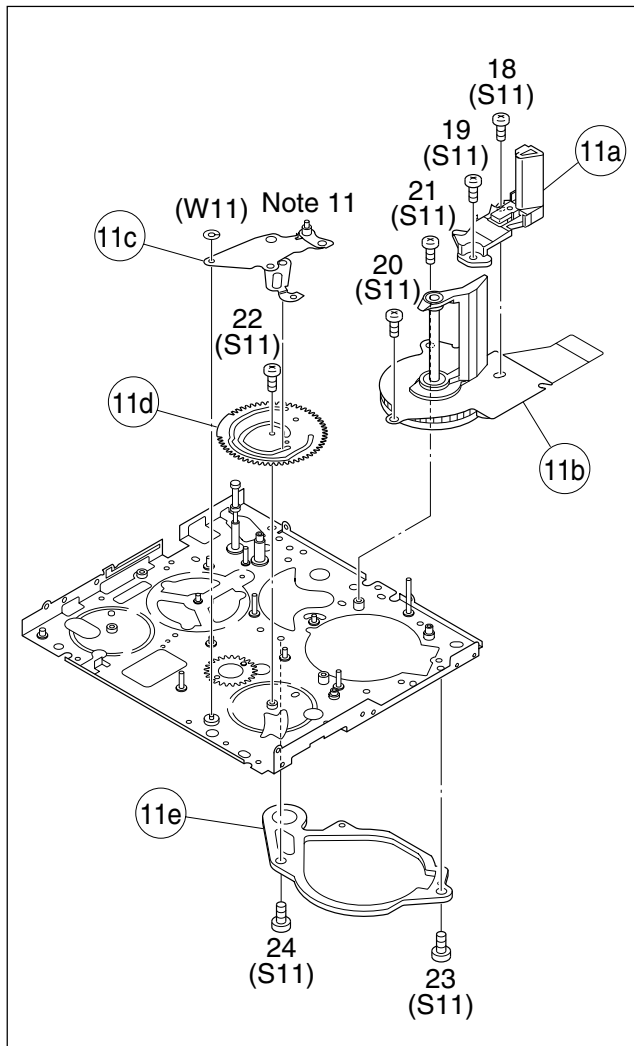
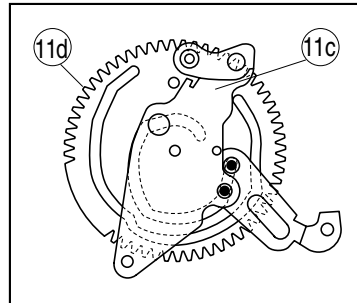


Fig. 2-4-15

Note 11:

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



2.4.3 List of procedures for disassembly

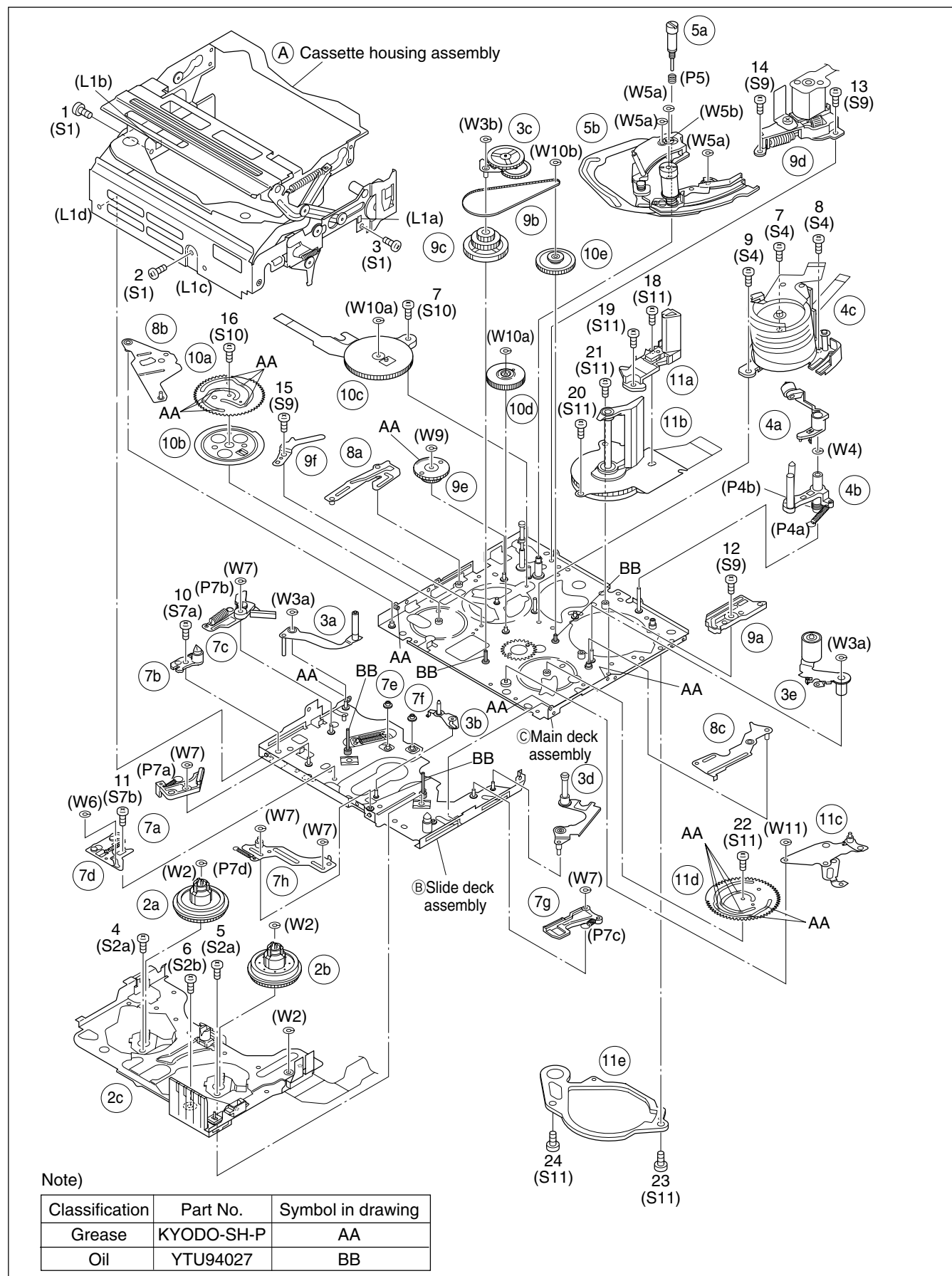
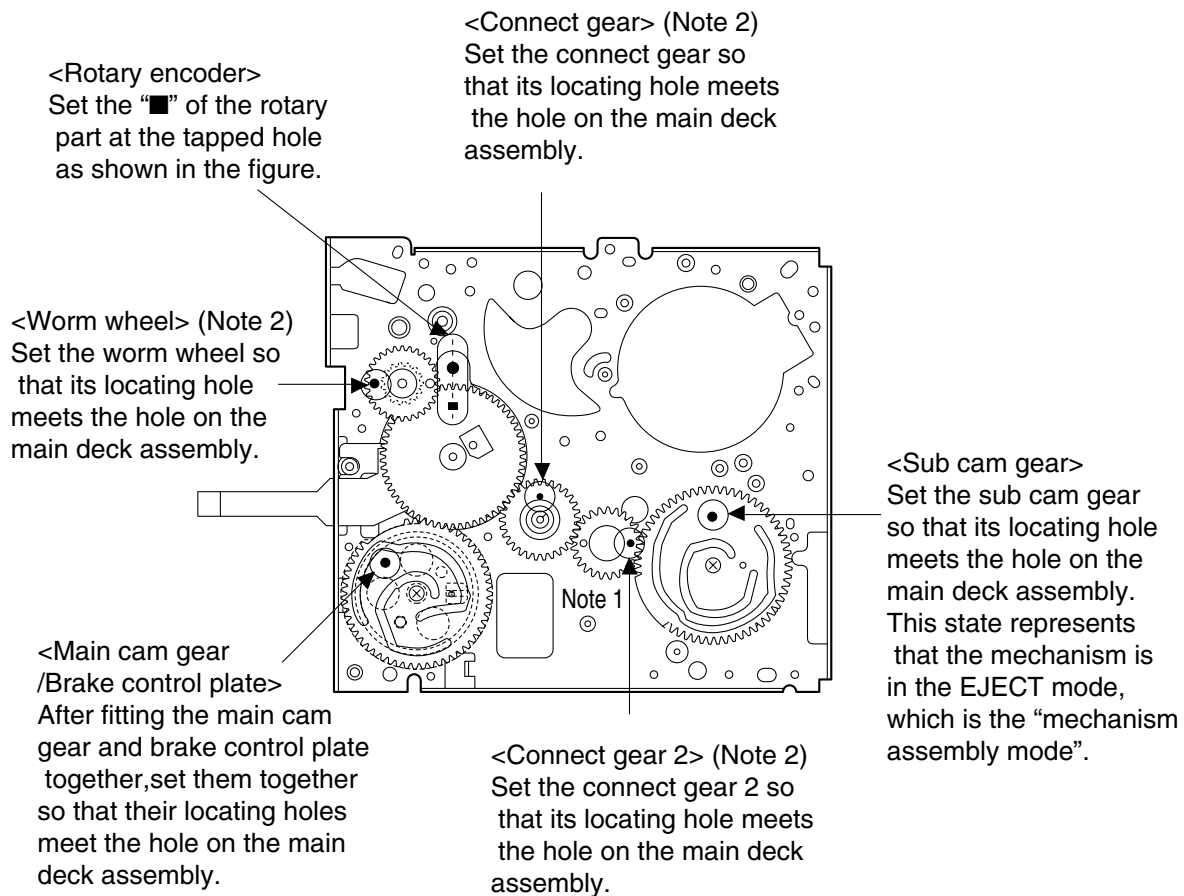


Fig. 2-4-16

2.5 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE



Note 1:

Since the connect gear 2 is tightly fixed to the main deck by caulking, adjust its phase with the connect gear and sub cam gear.

Note 2:

The part that needs phase adjustment by the hole on the main deck assembly must exactly be set as the specified phase. There is a fear that some part is installed in a wrong phase because assembling of the mechanism is automated. If so, set every part in the correct phase whenever the mechanism is reassembled.

Fig. 2-5-1

2.6 MECHANISM ADJUSTMENTS

2.6.1 Assembling slide deck assembly and main deck assembly

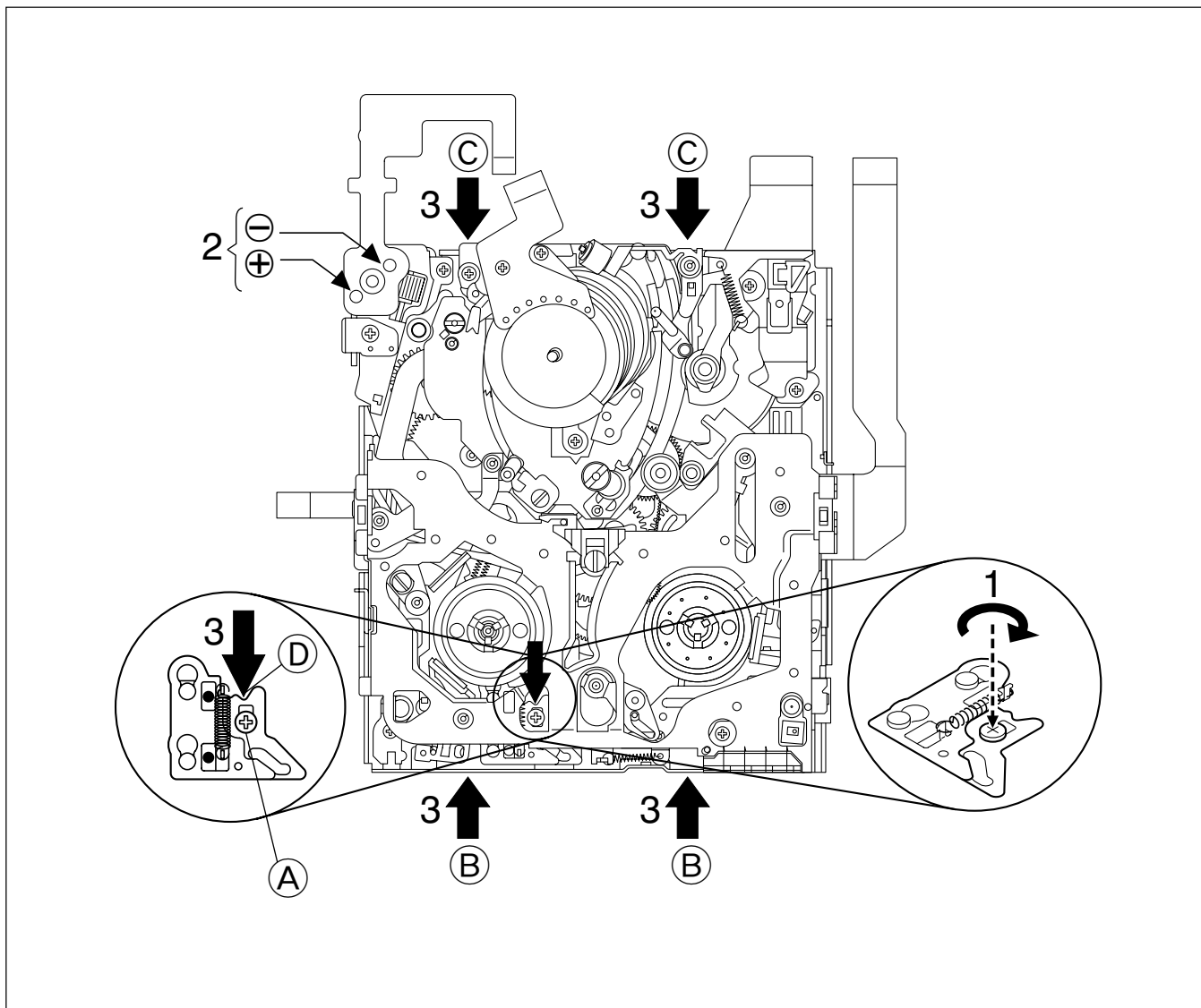


Fig. 2-6-1

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

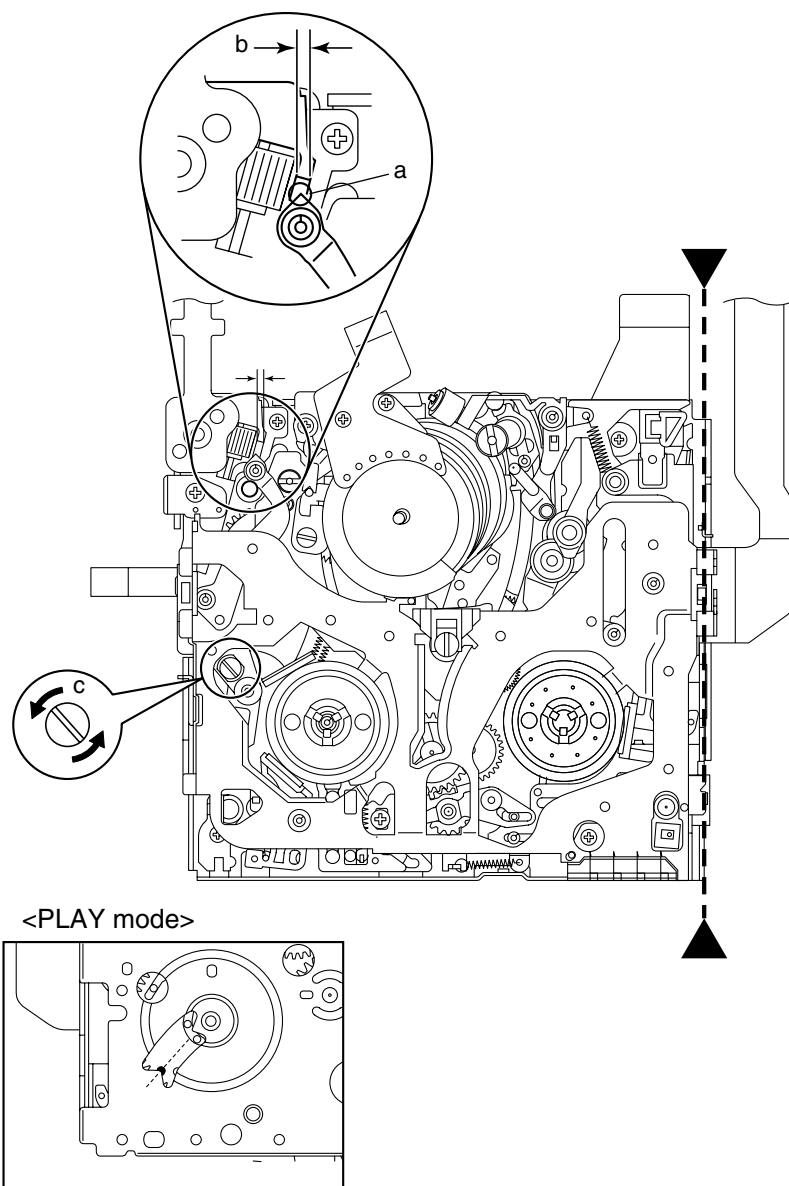


Fig. 2-6-2

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.

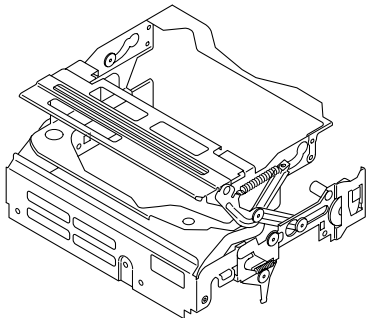
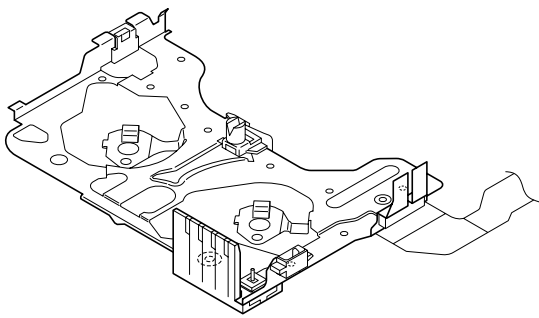
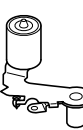
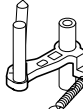
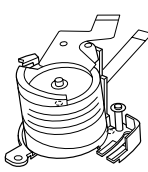
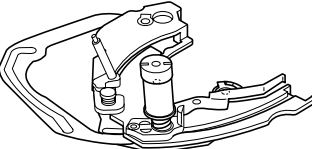
1	A Cassette housing assembly  S1×3				
2	2a Reel disk (SUP) assembly  W2×1		2c Reel cover assembly  S2a×2 S2b×1 W2×1		
	2b Reel disk (TU) assembly  W2×1				
3	3a Tension arm assembly  W3a×1	3b Release guide assembly 	3c Idler arm assembly  W3b×1	3d Guide arm assembly 	3e Pinch roller arm assembly  W3a×1
	4a Cleaner arm assembly 		4b Slant pole arm assembly  W4×1 P4a×1 P4b×1		4c Drum assembly  S4×3
5	5a Guide roller (S) assembly  P5×1		5b Rail assembly  W5a×3 W5b×1		

Table 2-7-1a

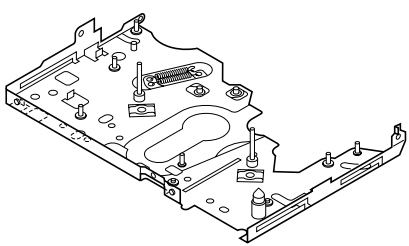
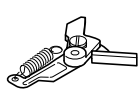
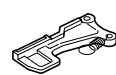
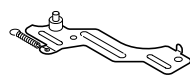
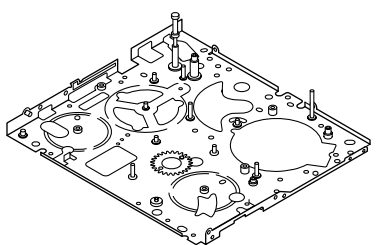
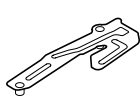
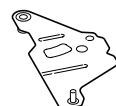
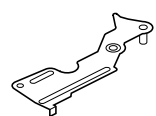
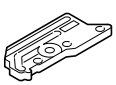
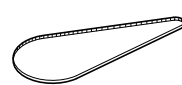
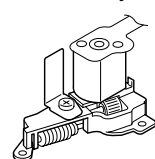
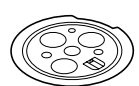
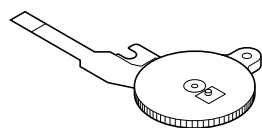
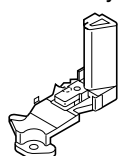
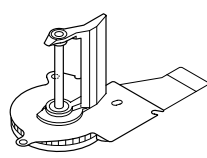
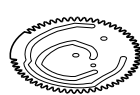
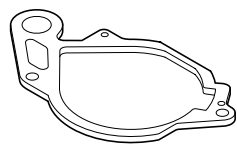
6	(B) Slide deck assembly  W6×1		7	7a Loading brake assembly  W7×1 P7a×1	7b Guide pin (S)  S7a×1	7c Pad arm assembly  W7×1 P7b×1	7d Slide guide plate assembly  S7b×1
				7e Collar 	7f Collar 	7g Sub brake assembly  W7×1 P7c×1	7h Control plate assembly  W7×2 P7d×1
8	(C) Main deck assembly 		8a Tension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

Table 2-7-1b

2.8 JIG CONNECTOR CABLE CONNECTION

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

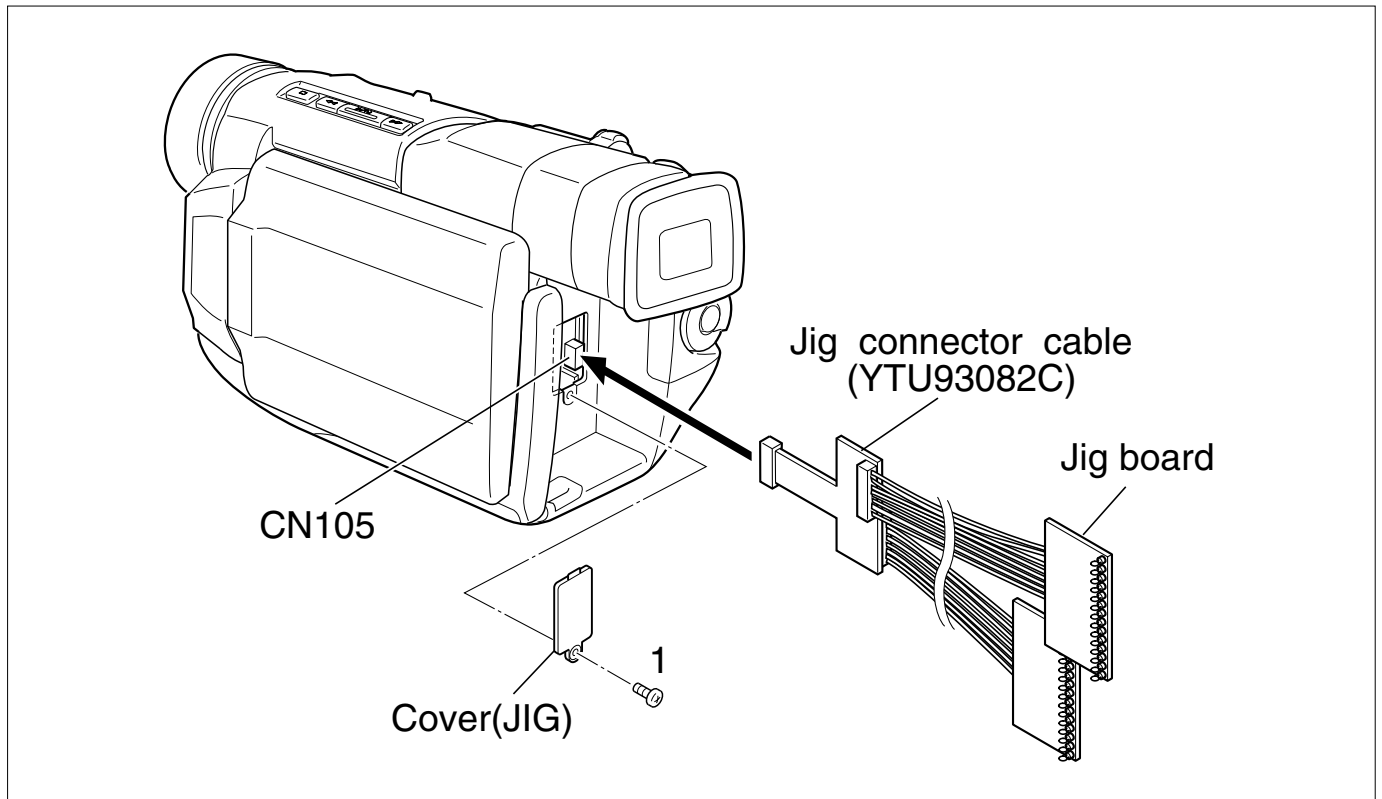


Fig. 2-8-1 Jig connector cable connection

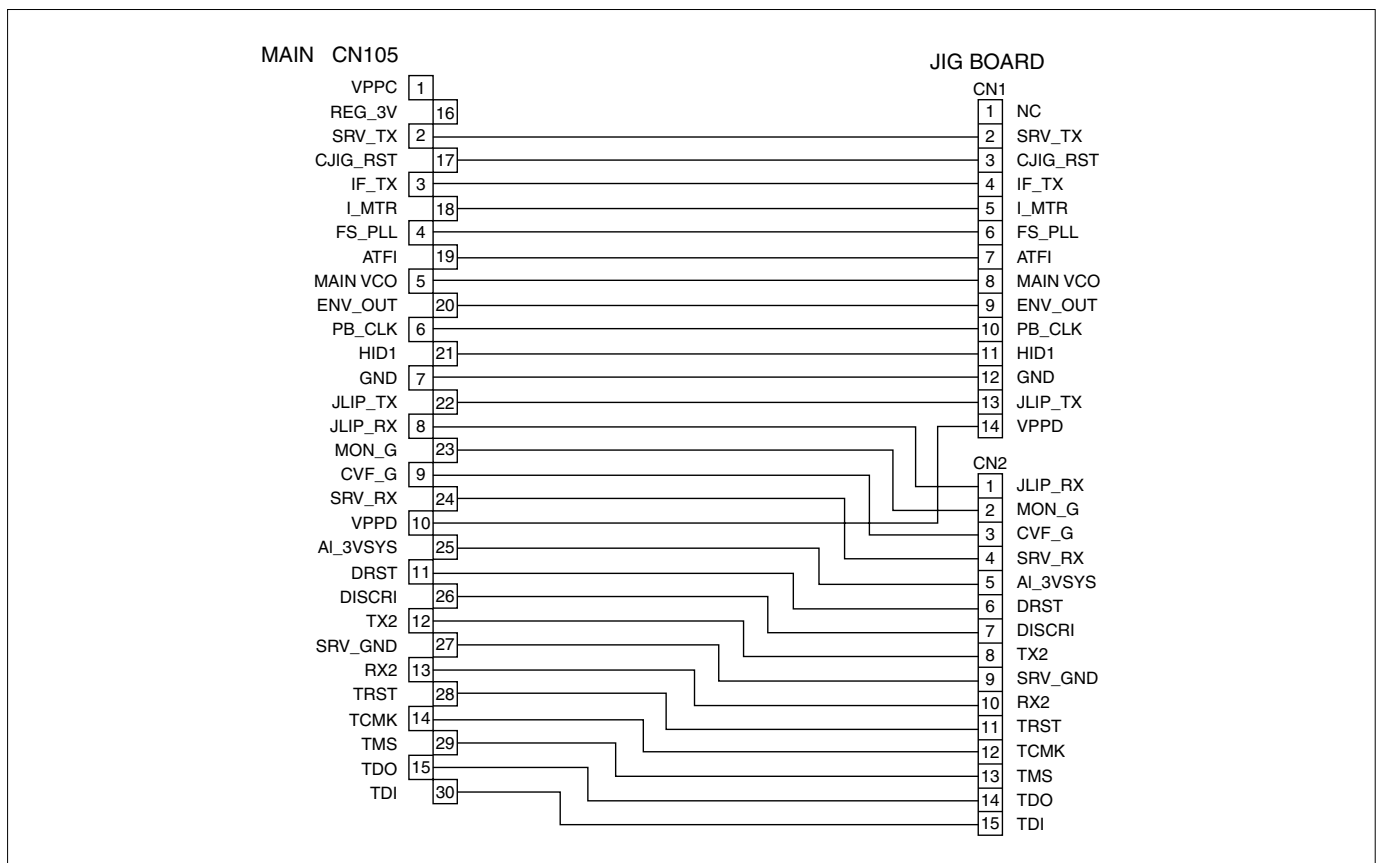


Fig. 2-8-2 Jig connector cable schematic diagram

2.8.1 Tape pattern check

- (1) Play back the compatibility adjustment tape.
- (2) While triggering the MAIN CN105-21PIN (HID1), observe the waveform of CN105-20PIN (ENV_OUT).
- (3) Confirm that the waveform is free from remarkable level-down, and entirely parallel and straight. Moreover, perform the following adjustment as required.
- (4) In case any level-down is observed on the left hand side, straighten the level by turning the guide roller of the pole base assembly (supply).
In case any level-down is observed on the right hand side, however, straighten the level by turning the guide roller of the pole base assembly (Take-up).
- (5) After adjustment, try the unloading motion once, and confirm that the waveform is flat (straight) when the tape has been played back again. Moreover, perform readjustment as required.
- (6) When the recording has been played back again, play back the self-recording to confirm that the waveform is flat.

Note:

When an adjustment is performed with the lower case cover attached, first slide the plate open (adjustment hole plate) and then perform the compatibility adjustment.
Be sure not to damage the cover plate (adjustment hole plate) when sliding it open to make an adjustment because it must be re-positioned after completing the adjustment.

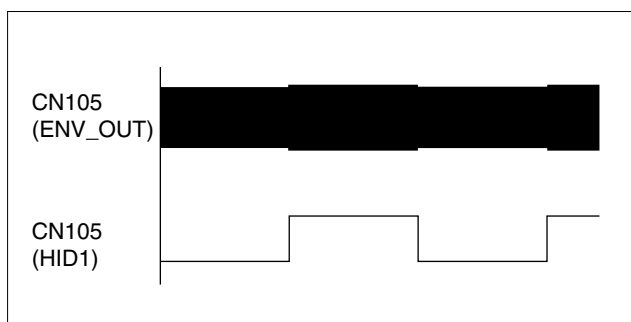


Fig. 2-8-3

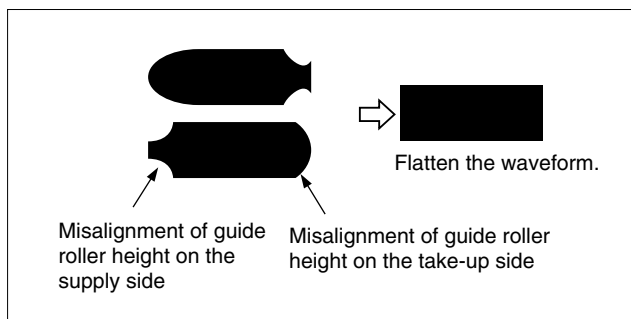


Fig. 2-8-4

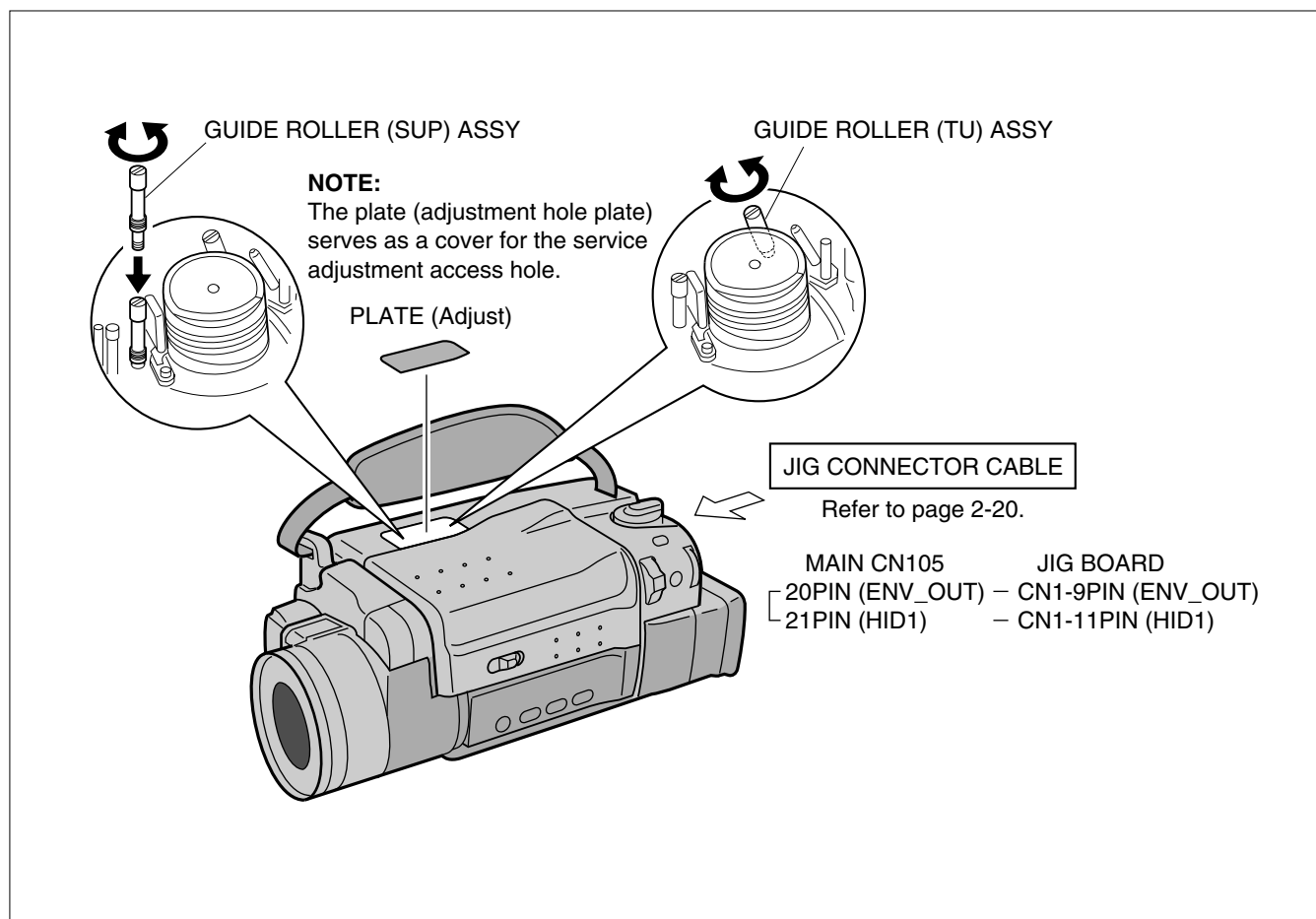


Fig. 2-8-5

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
- E²PROM (IC1003 of MAIN board)
- MONITOR
- E²PROM (IC7603 of MONITOR board)

In the event of malfunction with electrical circuits, trouble-shooting 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 and DECK chassis.

2. Required test equipment

1. Color TV monitor.
2. AC adapter
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

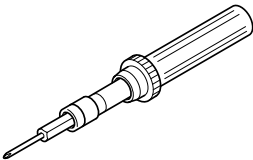
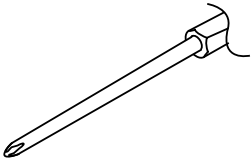
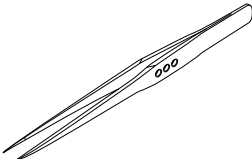
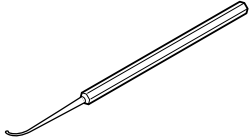
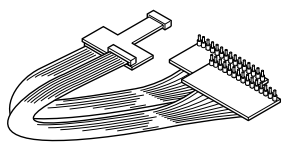
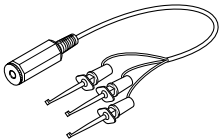
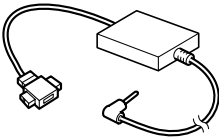
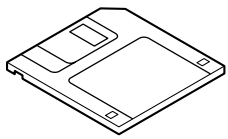
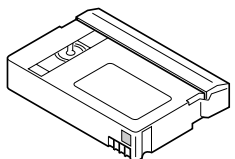
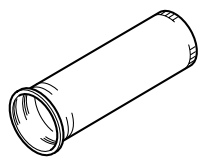
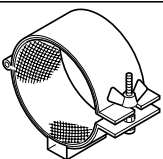
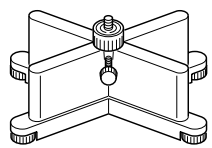
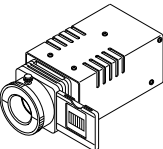
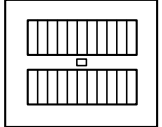
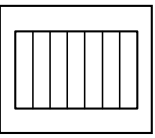
1	Torque Driver YTU94088	2	Bit YTU94088-003
			
3	Tweezers P-895	4	Chip IC Replacement Jig PTS40844-2
			
5	Jig Connector Cable YTU93082C	6	Communication Cable YTU93107A
			
7	PC Cable QAM0099-002	8	Service Support System YTU94057-57
			
9	Alignment Tape MC-2	10	INF Adjustment Lens YTU92001B
			
11	INF 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.

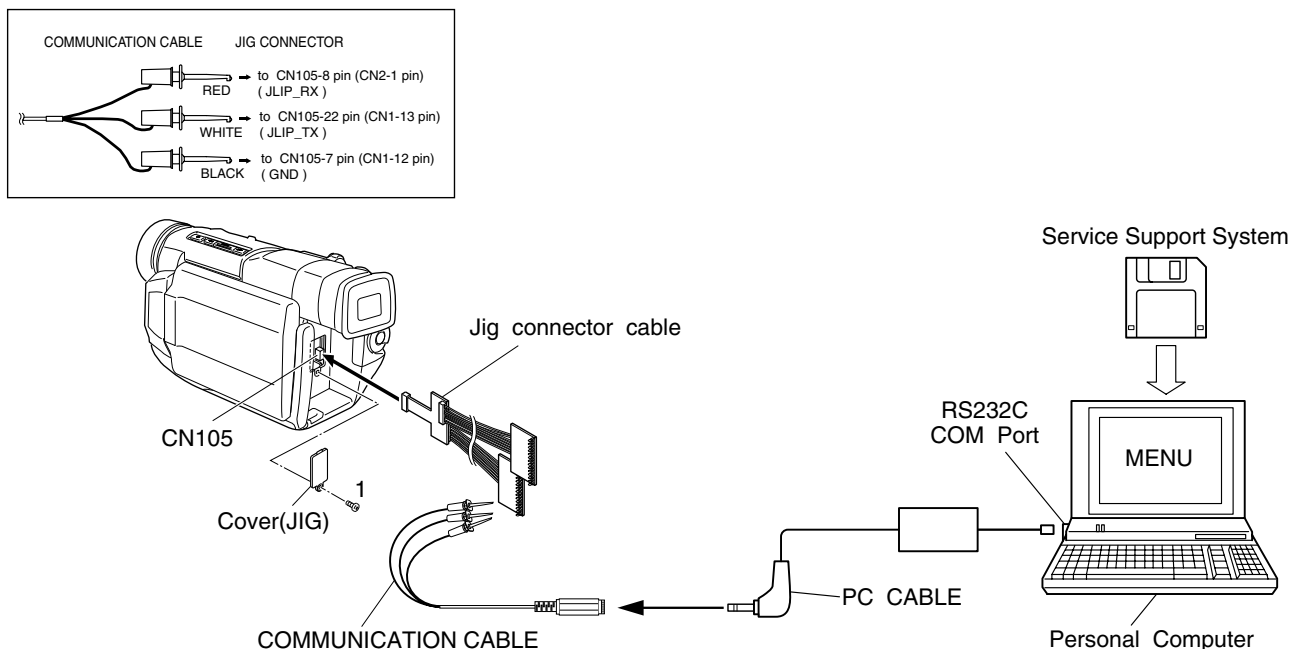


Fig. 3-2-1 Connection for Service support system

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 Ω (1000 Ω), M: M Ω (1000K Ω)
- 2) All capacitance values are in μ F, (P: PF).
- 3) All inductance values are in μ H, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

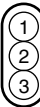
AUX : Active at high.

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

3. Interpreting Connector indications



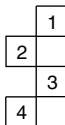
Removable connector



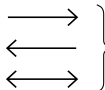
Wire soldered directly on board



Non-removable Board connector



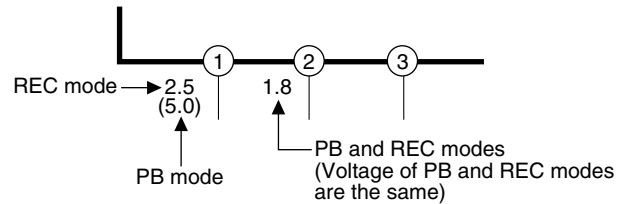
Board to Board



Connected pattern on board
The arrows indicate signal path

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.

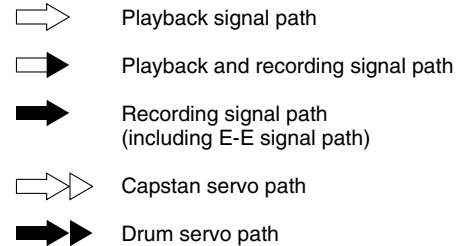


Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

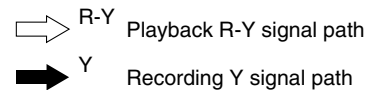
5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.



(Example)



6. Indication of the parts for adjustments

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



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

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



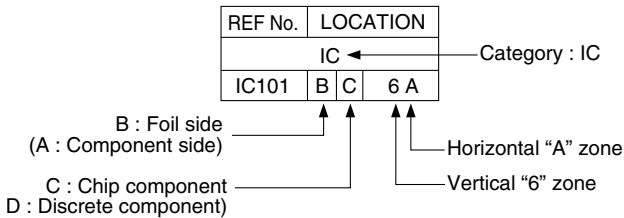
CIRCUIT BOARD NOTES

1. Foil and Component sides

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

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).

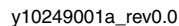
5

4

3

2

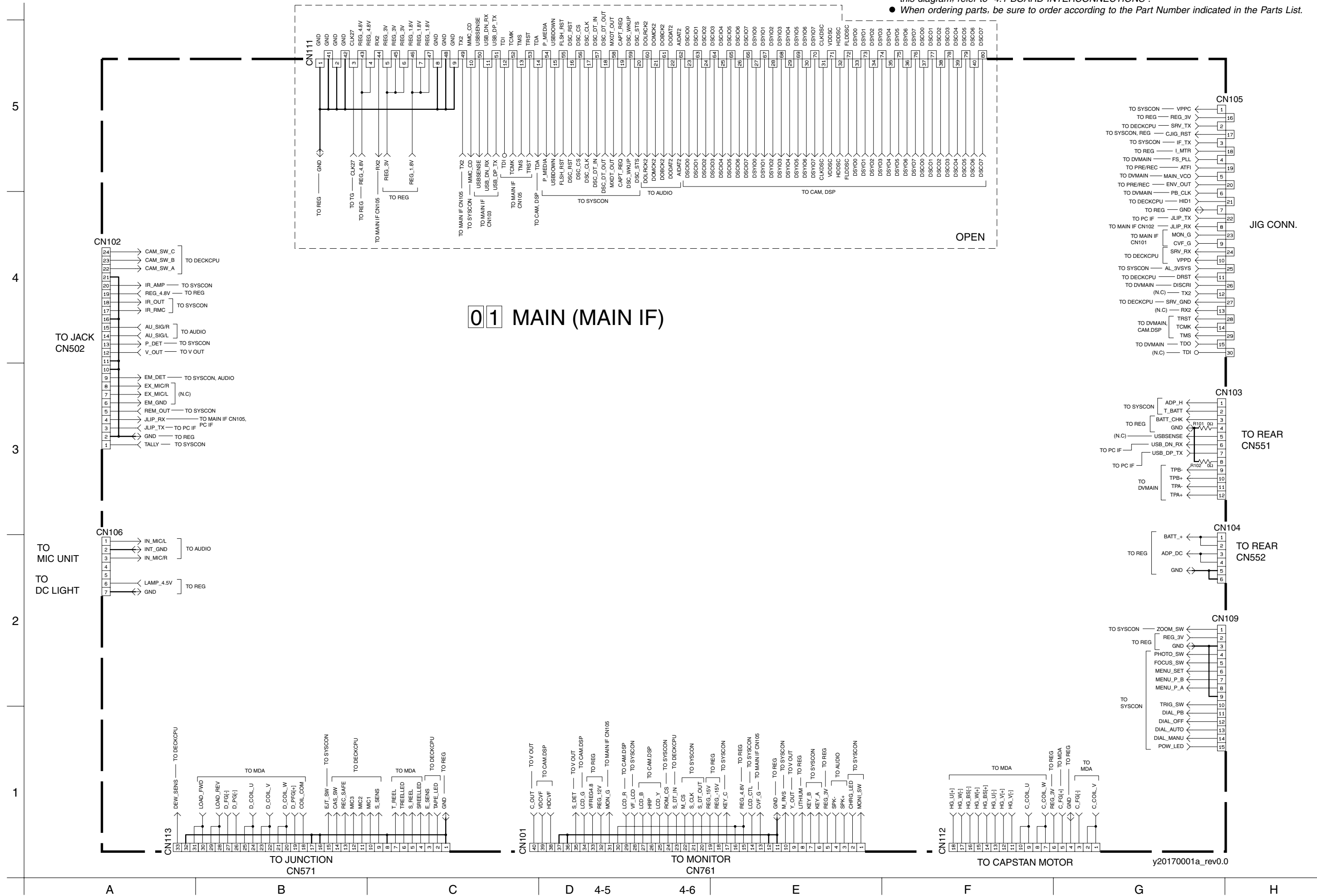
1



4.2 MAIN 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.



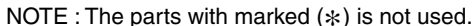
5

4

3

2

1



	IC101 ROM No.	R1059
With DSC MODEL	-A25	*
Without DSC MODEL	-A22	0Ω

A

B

C

D

4-7

4-8

E

F

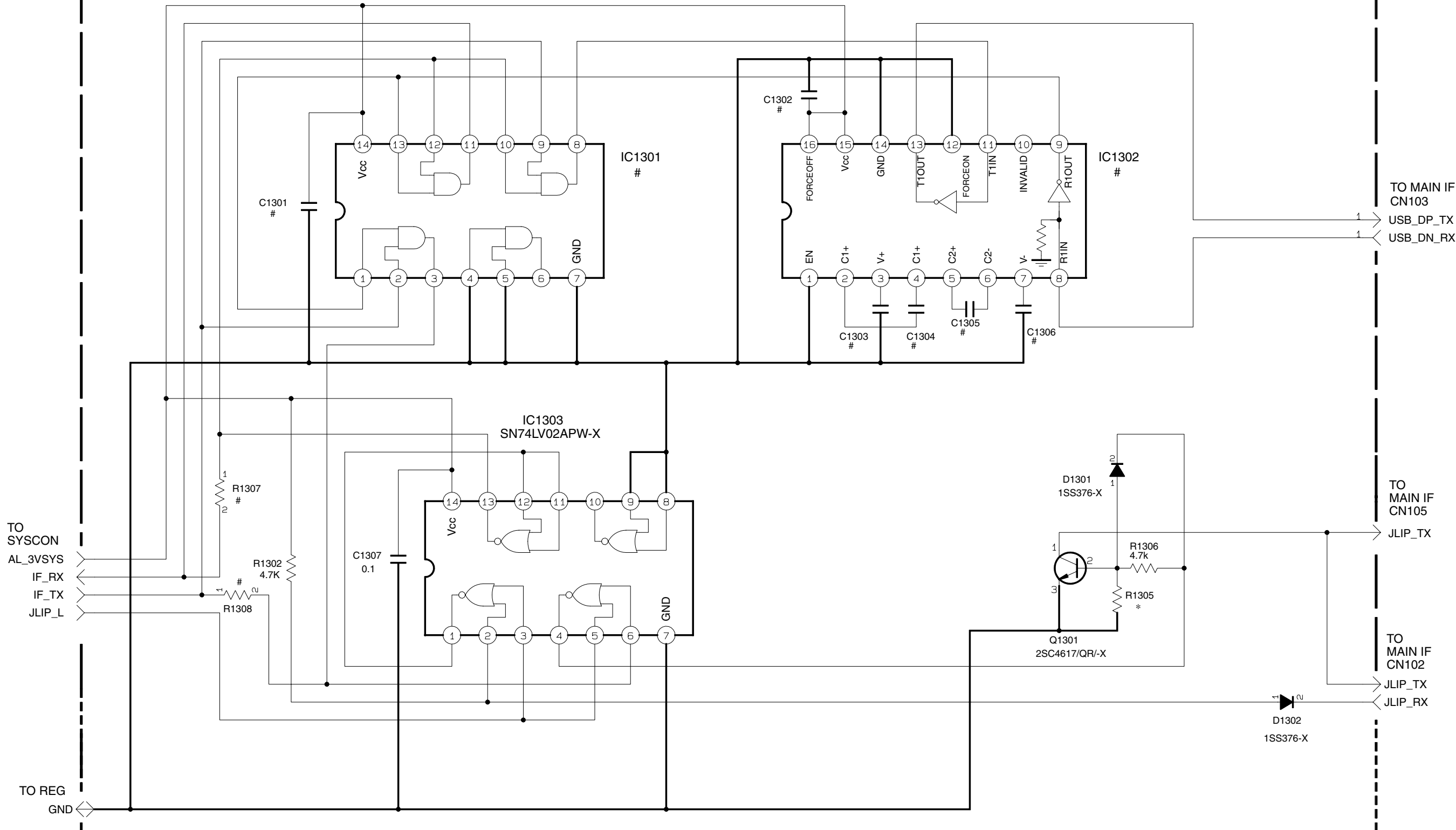
G

H

4.4 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.

0 1 MAIN (PC IF)



NOTE : The parts with marked (*) is not used.

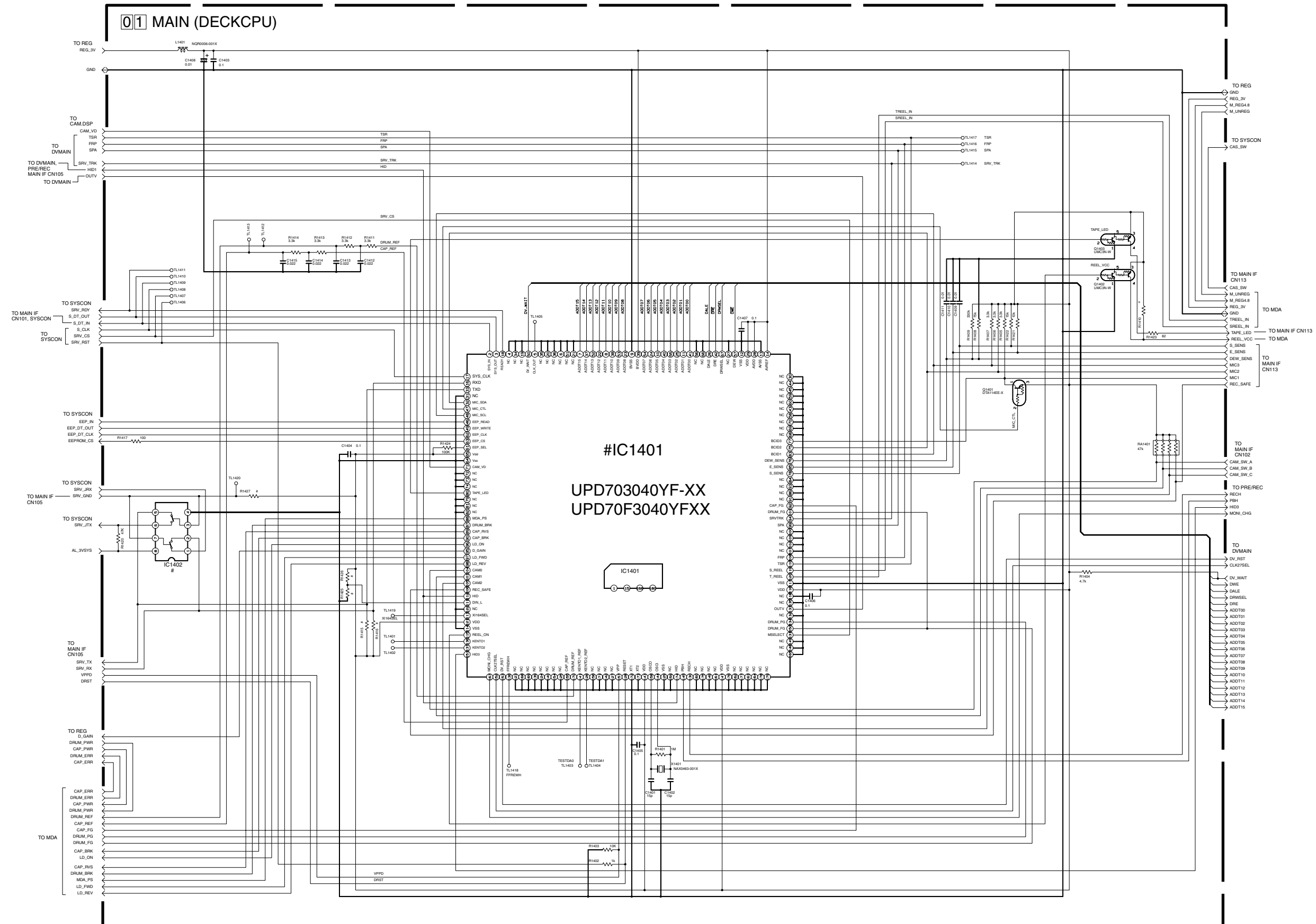
# Exchange Parts List	IC1301	IC1302	C1301-C1306	R1307/R1308
With DSC MODEL	*	*	*	0
Without DSC MODEL	SN74LV08APW-X	MAX3221CAE-X	0.1	*

y30159001a_rev0.0

4.5 DECKCPU 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.



NOTE : The parts with marked (*) is not used.

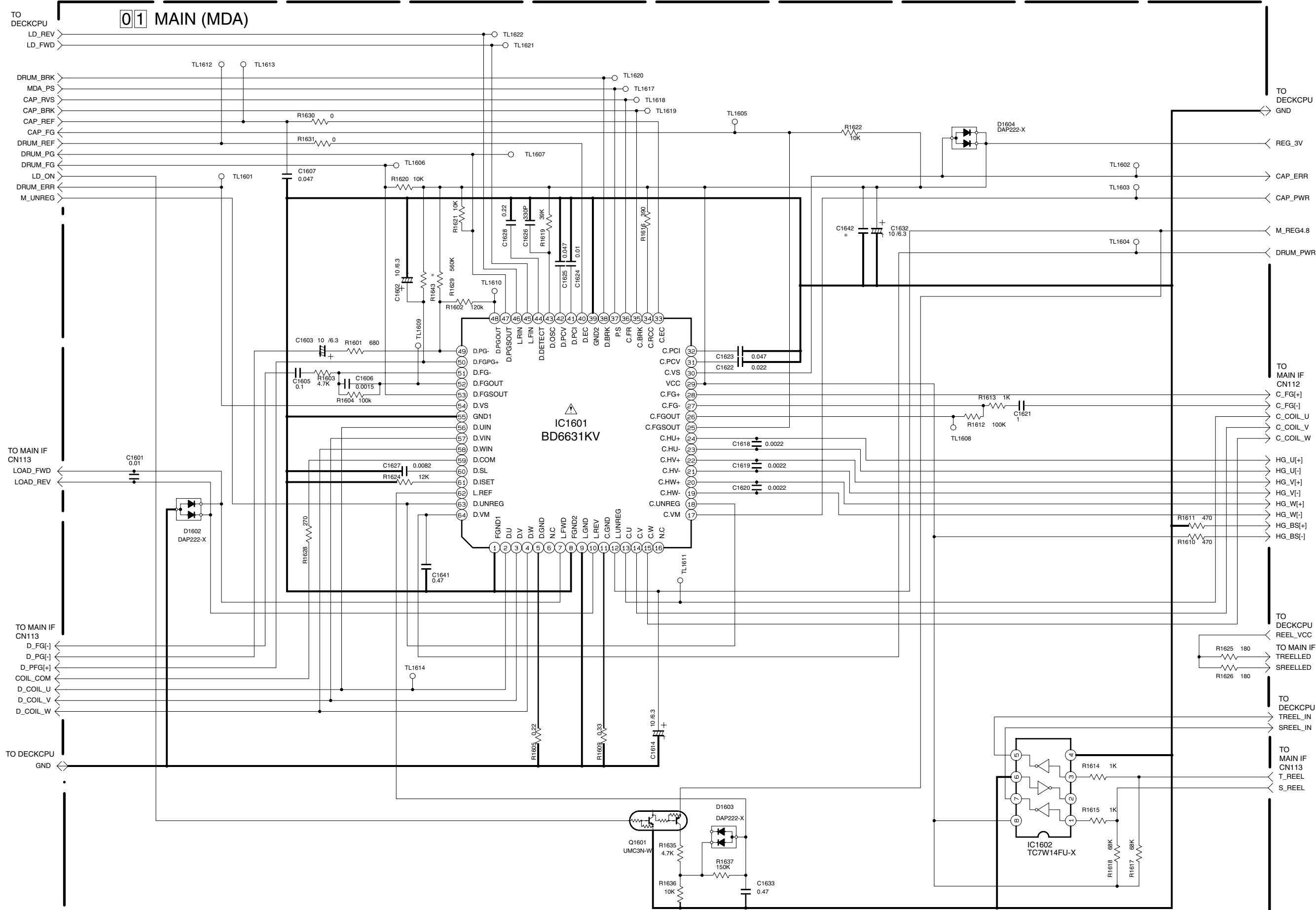
	IC1402	R1416/R1417	R1427
With DSC MODEL	*	4.7k	*
Without DSC MODEL	TC7W66FU-X	*	100k

	R1425	R1426	IC1401 ROM No.
DV INPUT MODEL	47k	*	M06
NON DV INPUT MODEL	*	47k	M07

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4.6 MDA SCHEMATIC DIAGRAM

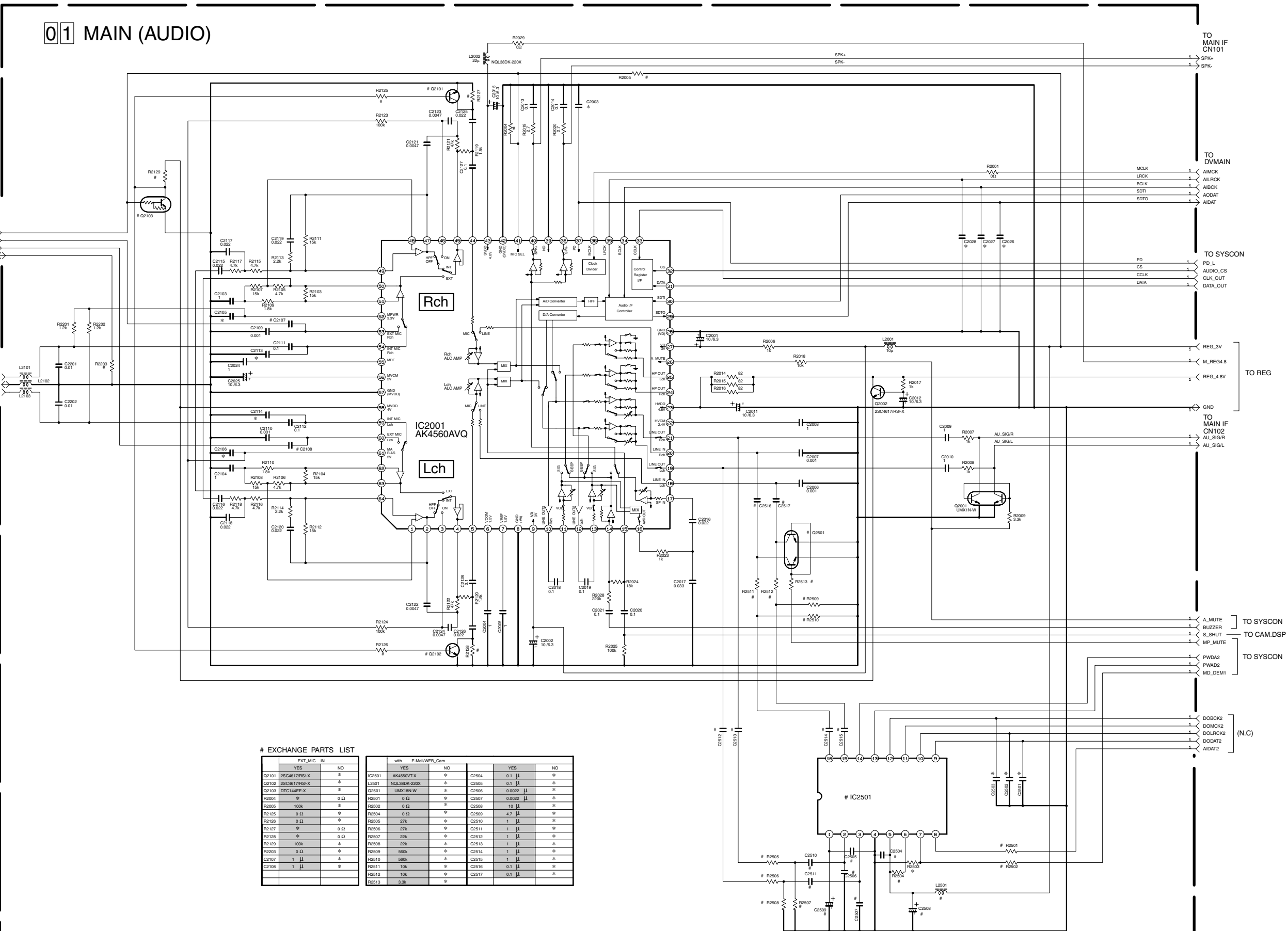
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTE : The parts with marked (*) is not used.

4.7 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.

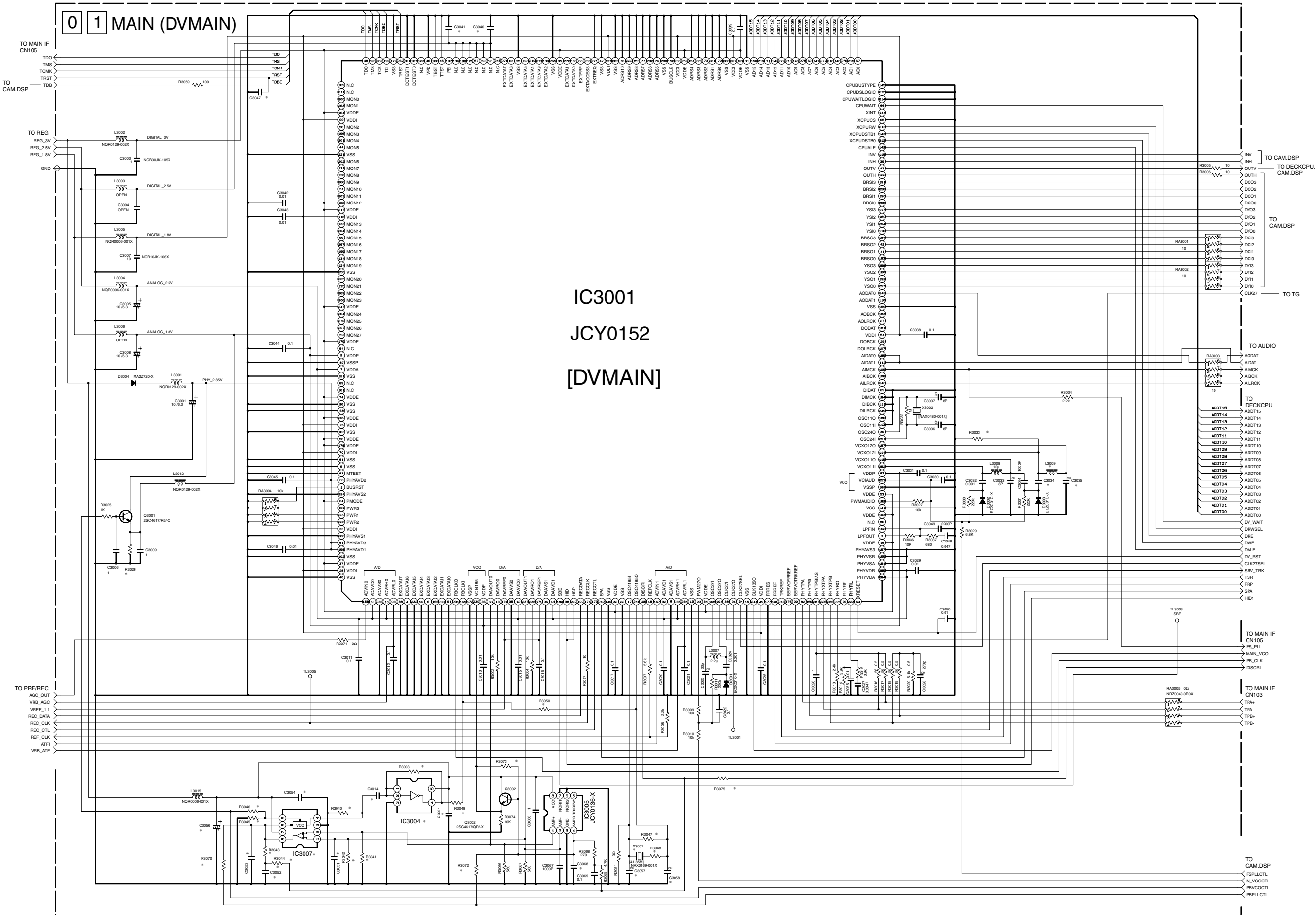


NOTE : The parts with marked (*) is not used.

y10252001a_rev0.0

4.8 DVMAIN SCHEMATIC DIAGRAM

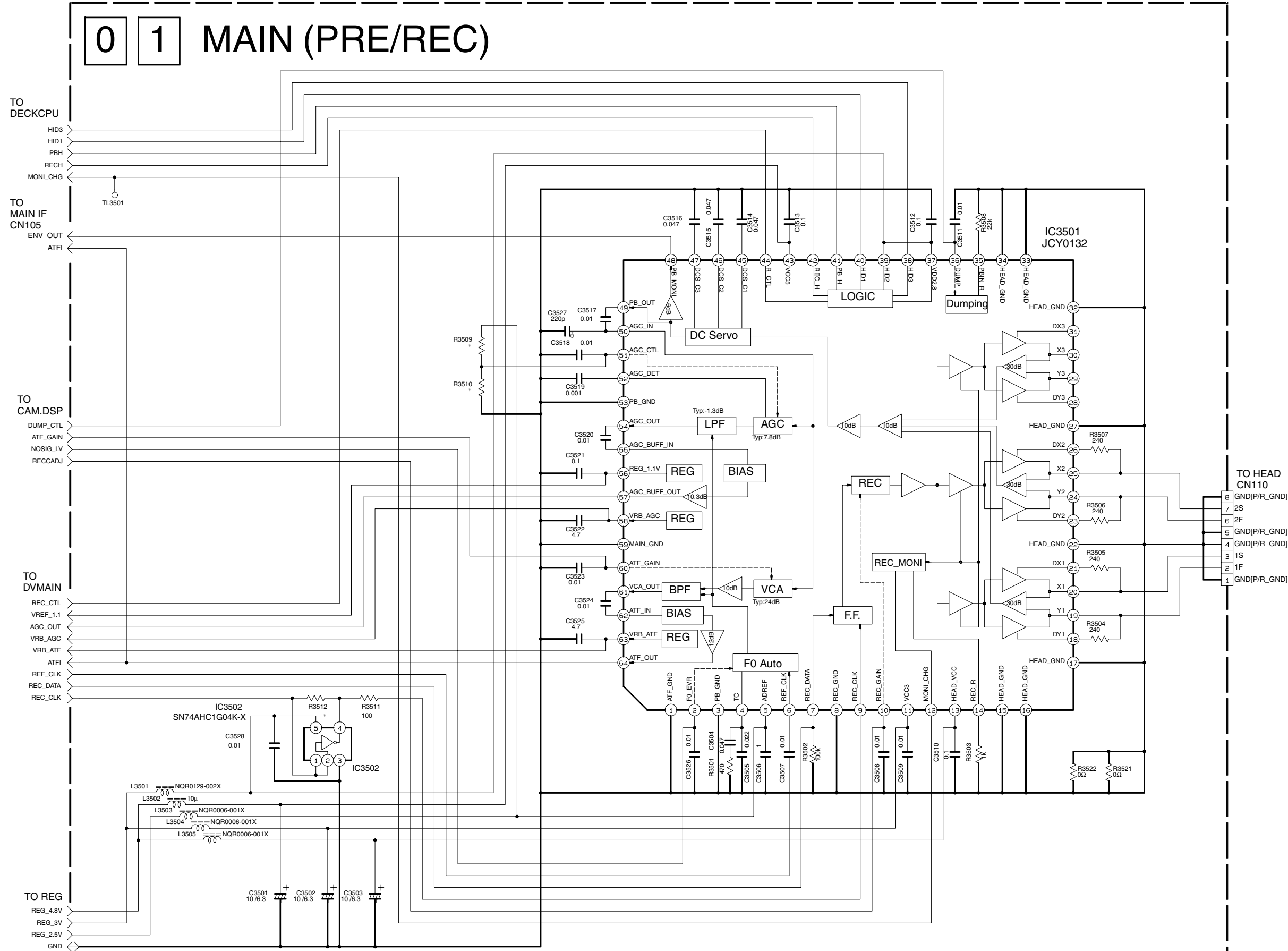
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



NOTE : The parts with marked (*) is not used.

4.9 PRE/REC SCHEMATIC DIAGRAM

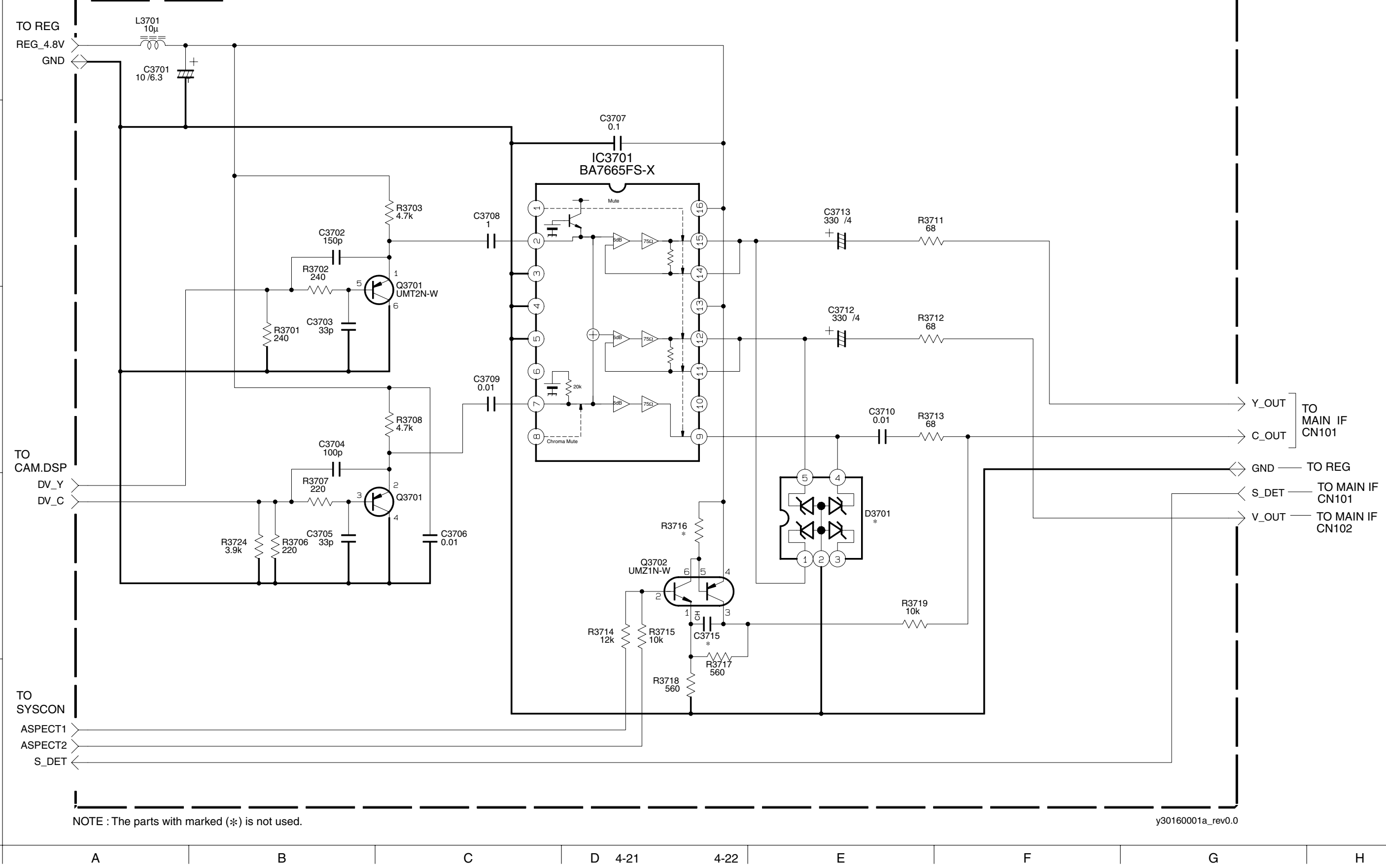
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



4.10 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.

0 1 MAIN (V OUT)

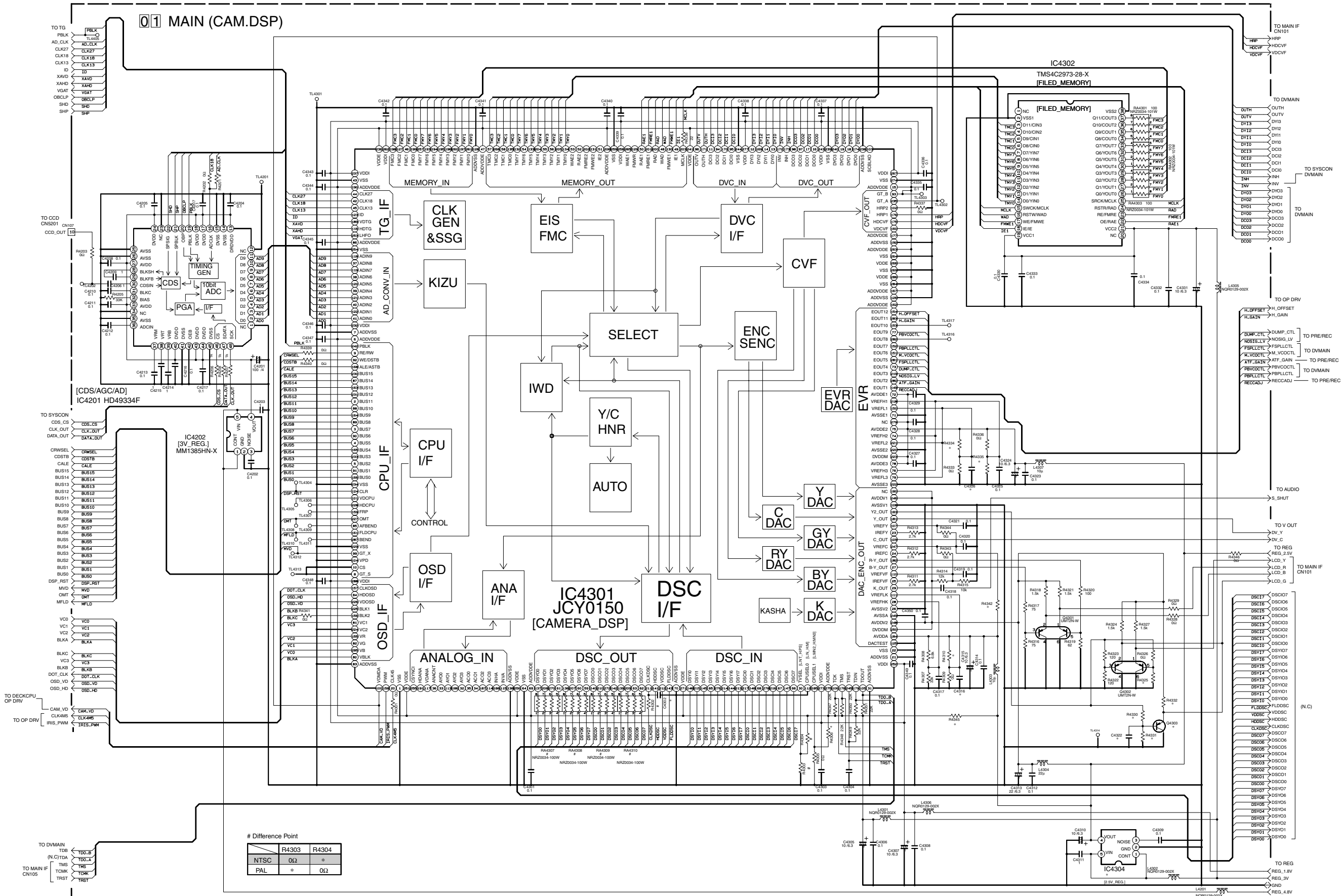


NOTE : The parts with marked (*) is not used.

y30160001a_rev0.0

4.11 CAM.DSP 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.

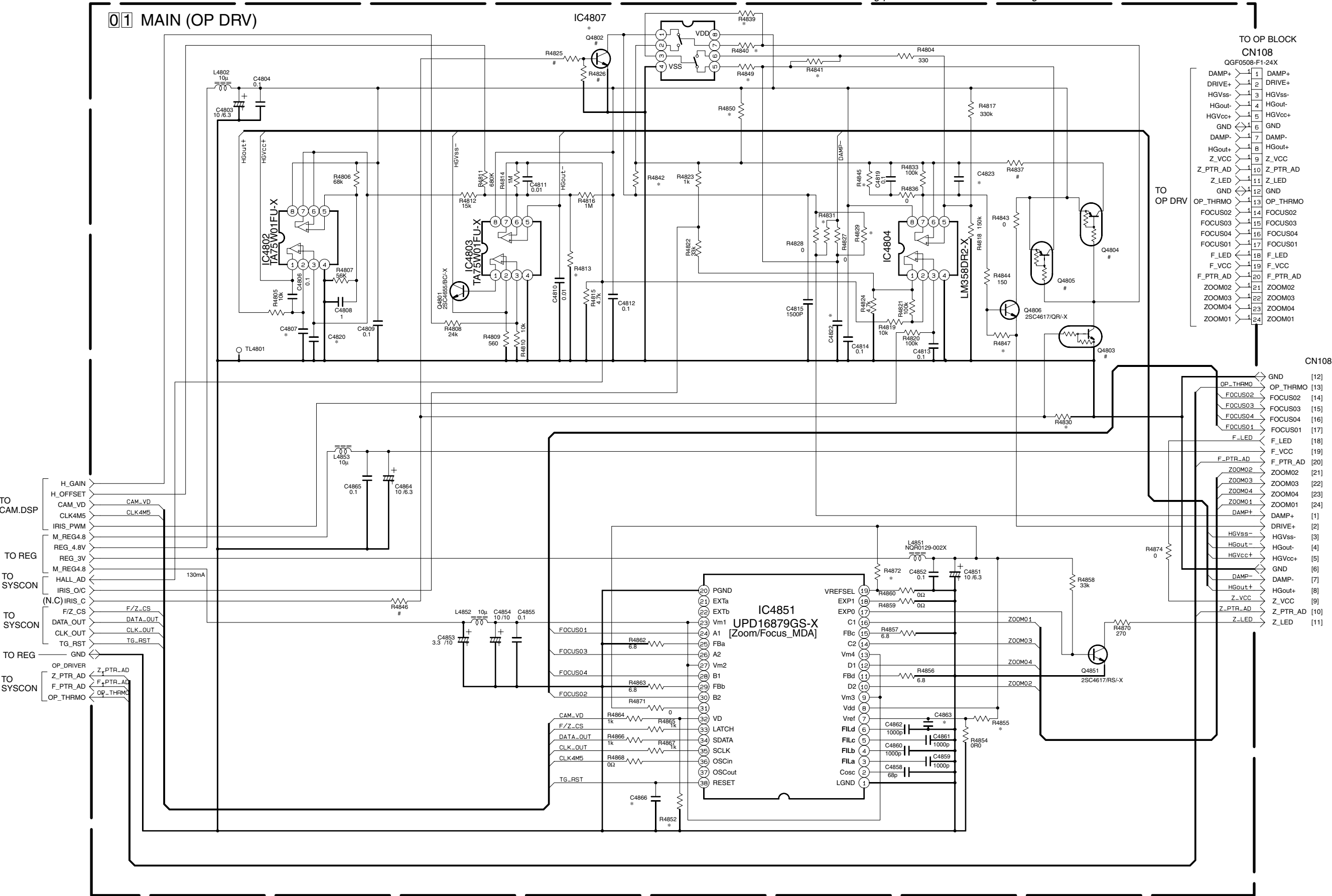


NOTE : The parts with marked (*) is not used.

y10254001a_rev0.0

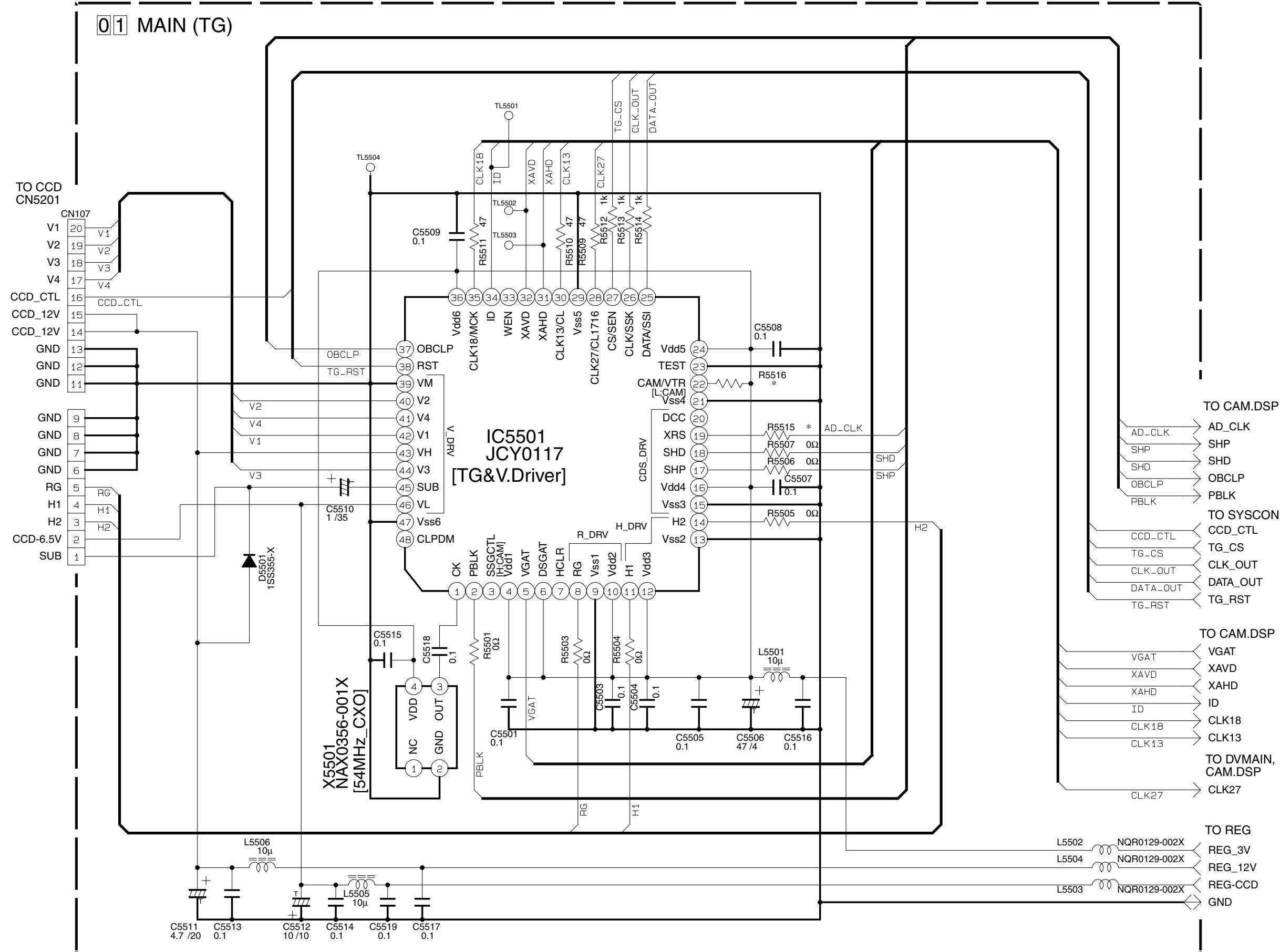
4.12 OP DRV SCHEMATIC DIAGRAM

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.



4.13 TG 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.

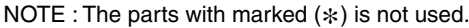


NOTE : The parts with marked (*) is not used.

y30161001a_rev0.0

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

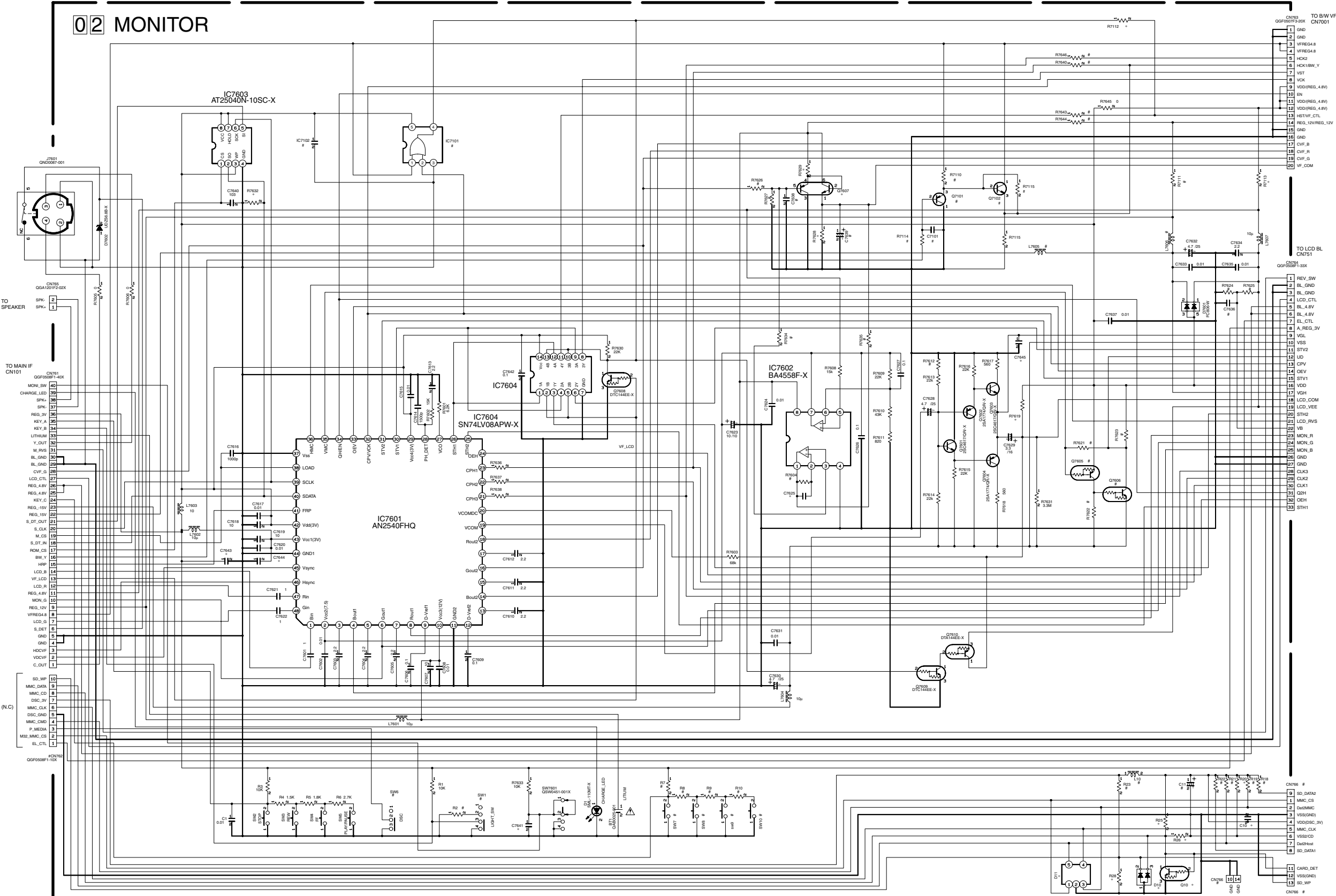
	L6205	Q6207	Q6217	R6217	R6218	R6244	R6245	R6246	C6212	C6213	C6231
With DC LIGHT	22 μ	2SD2444K-X	UMZ1N-W	150	100k	1.5k	5.6k	2.2k	1	1	0.01
Without DC LIGHT	open	open	open	open	open	open	open	open	open	open	open

	R6237
680k CCD	75k
Mega CCD	82k

y10255001a_rev0.0

4.15 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.



NOTE : The parts with marked (*) is not used.

Exchange Parts List

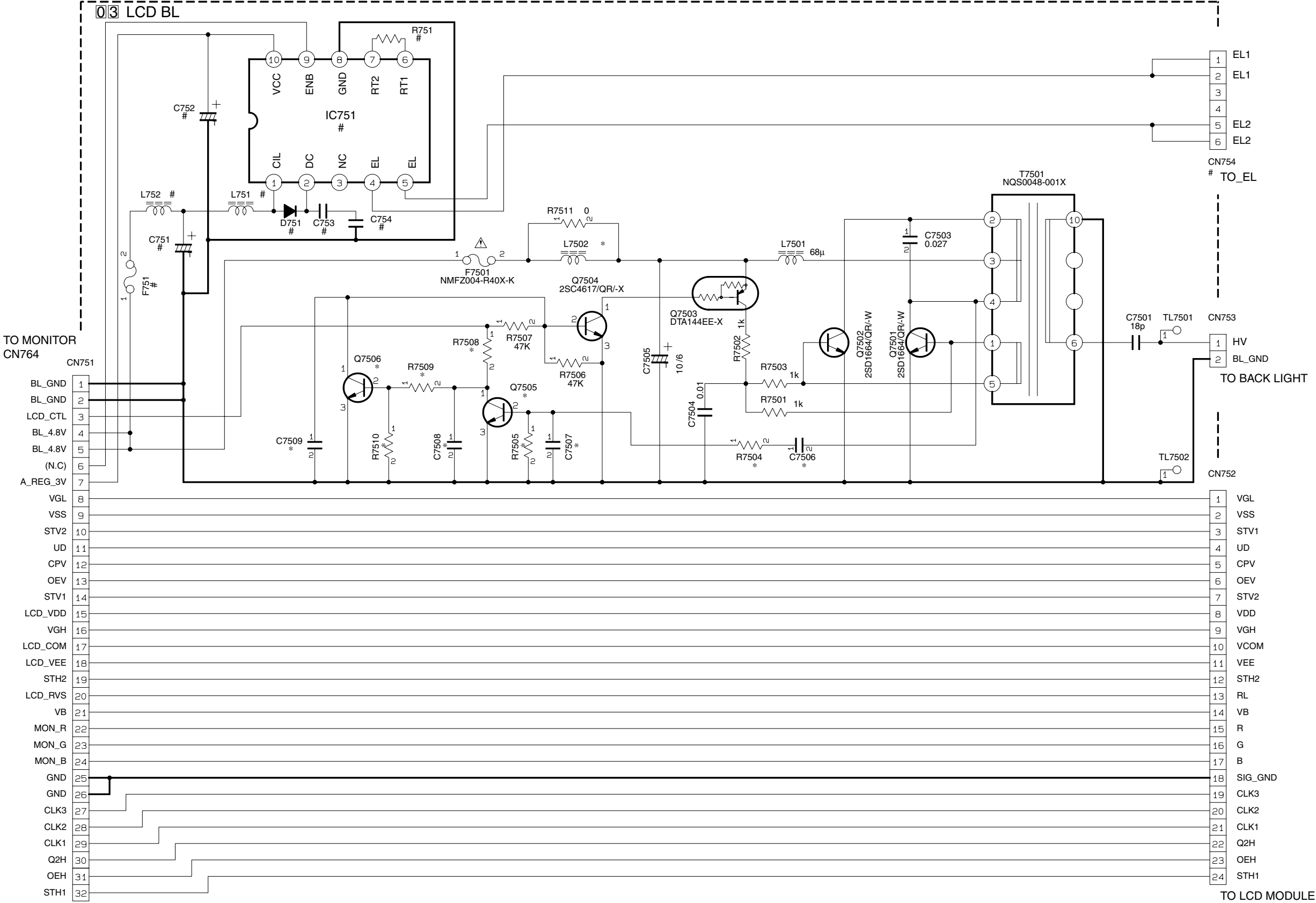
	Q7603	Q7606	L7605	R7610	R7612	R7621	R7622	R7623	R7624	R7625	R7626
2.5inch MODEL	+	+	+	10u	22K	0	+	+	+	+	+
3inch MODEL	+	+	+	10u	5.6K	+	22K	22K	22K	22K	0.1
3.5inch MODEL	+	+	+	10u	5.6K	0	+	+	22K	22K	0.1

	R7604	R7626	R7627	R7628	R7635	R7643	R7644	R7646	R7638	C7639	Q7101	R7110	R7111	R7112	R7113	IC7101	C7102	R7114	C7101	Q7102	R7116
BW VF MODEL	+	+	+	+	+	+	+	+	+	+	SA1174QH-L	5.6K	0	+	0	1C79H5F04	0.1	270	220p	2SC4617QH-X	1K
COLOR VF MODEL	0	18K	330K	0	0	0	0	0	0	2.2	10/10	+	+	+	0	+	+	+	+	+	+

	CN762	CN766	SW6	SW7	SW8	SW9	SW10	R7	R8	R9	R10	R18	R19	R21	R22	R23	C11	L10
DSC MODEL [WITH E-MAIL-WEB CAM]	CGP500P1-10X	NA20258-001X	NS00299-0010	NS01610-0010	NS00160-0010	NS00160-0010	NS00160-0010	10K	1.5K	1.8K	2.7K	47K	10K	10K	47K	100K	106.3	NOR0129-001X
DSC MODEL [WITHOUT E-MAIL-WEB CAM]	CGP500P1-10X	NA20258-001X	NS00299-0010	NS01610-0010	NS00160-0010	*	*	10K	1.5K	*	*	47K	10K	10K	47K	100K	106.3	NOR0129-001X
Without DSC MODEL						*	*	*	*	*	*	*	*	*	*	*	*	*

4.16 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.



NOTE : The parts with marked (*) is not used.

Exchange Prats List

	IC751	D751	L751	L752	R751	C751	C752	C753	C754	CN754	F751
With EL MODEL	MIP805-X	1SS376-X	680	10	100K	10/6	10/6	2200p	2200p	QGF0505F2-06X	NMFZ007-R40X-K
Without EL MODEL	*	*	*	*	*	*	*	*	*	*	*

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A

B

C

D 4-33

4-34

E

F

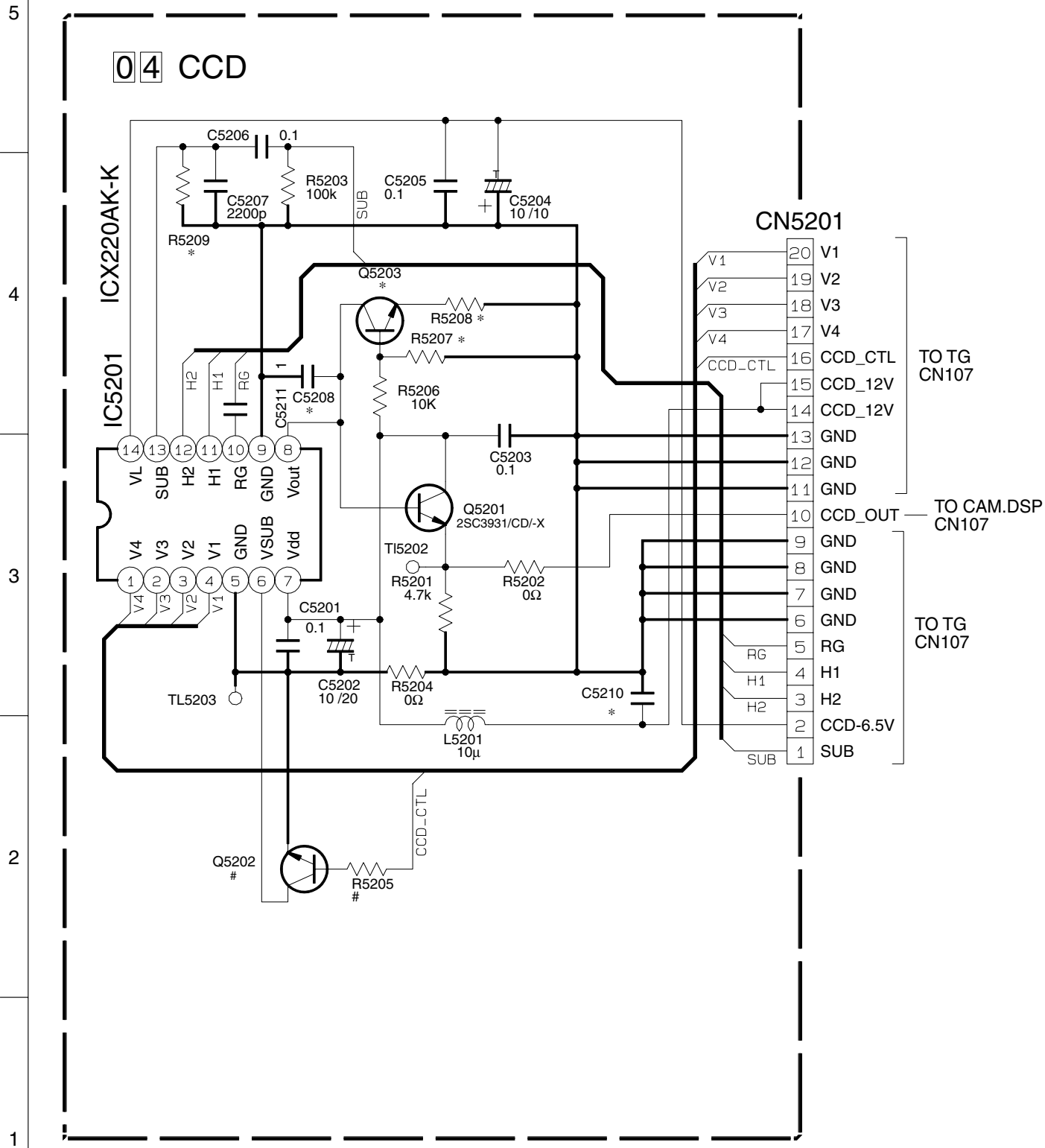
G

H

4.17 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.

● IC5201 is incorporated in the CCD base assembly.
When IC5201 needs replacement, replace the CCD base assembly in whole because it cannot be re-placed alone.



NOTE : The parts with marked (*) is not used.

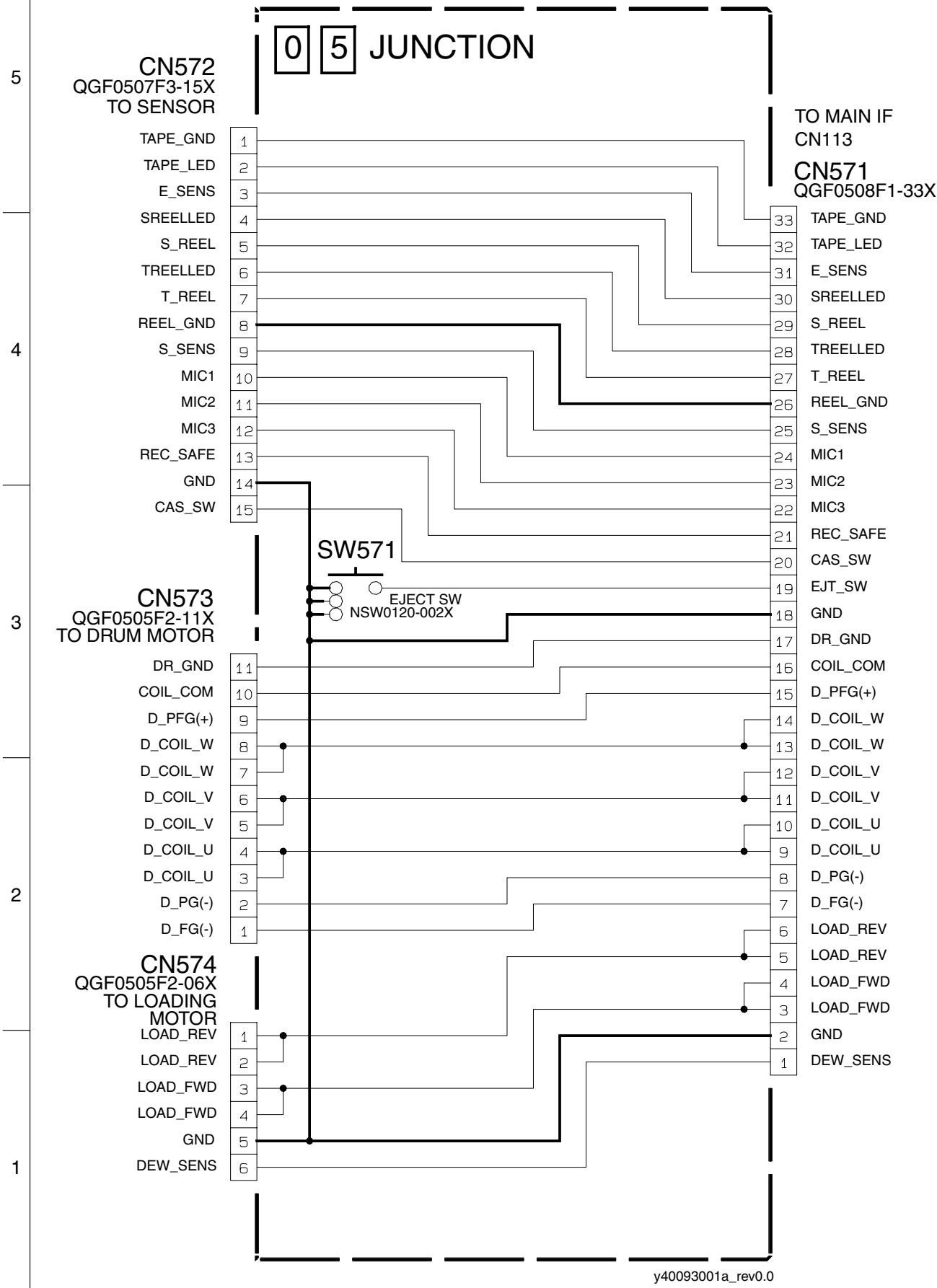
Exchange Parts List

	Q5202	R5202
With DSC MODEL	2SC4081/RS/-X	4.7k
Without DSC MODEL	*	*

y30163001a_rev0.0

4.18 JUNCTION SCHEMATIC DIAGRAM

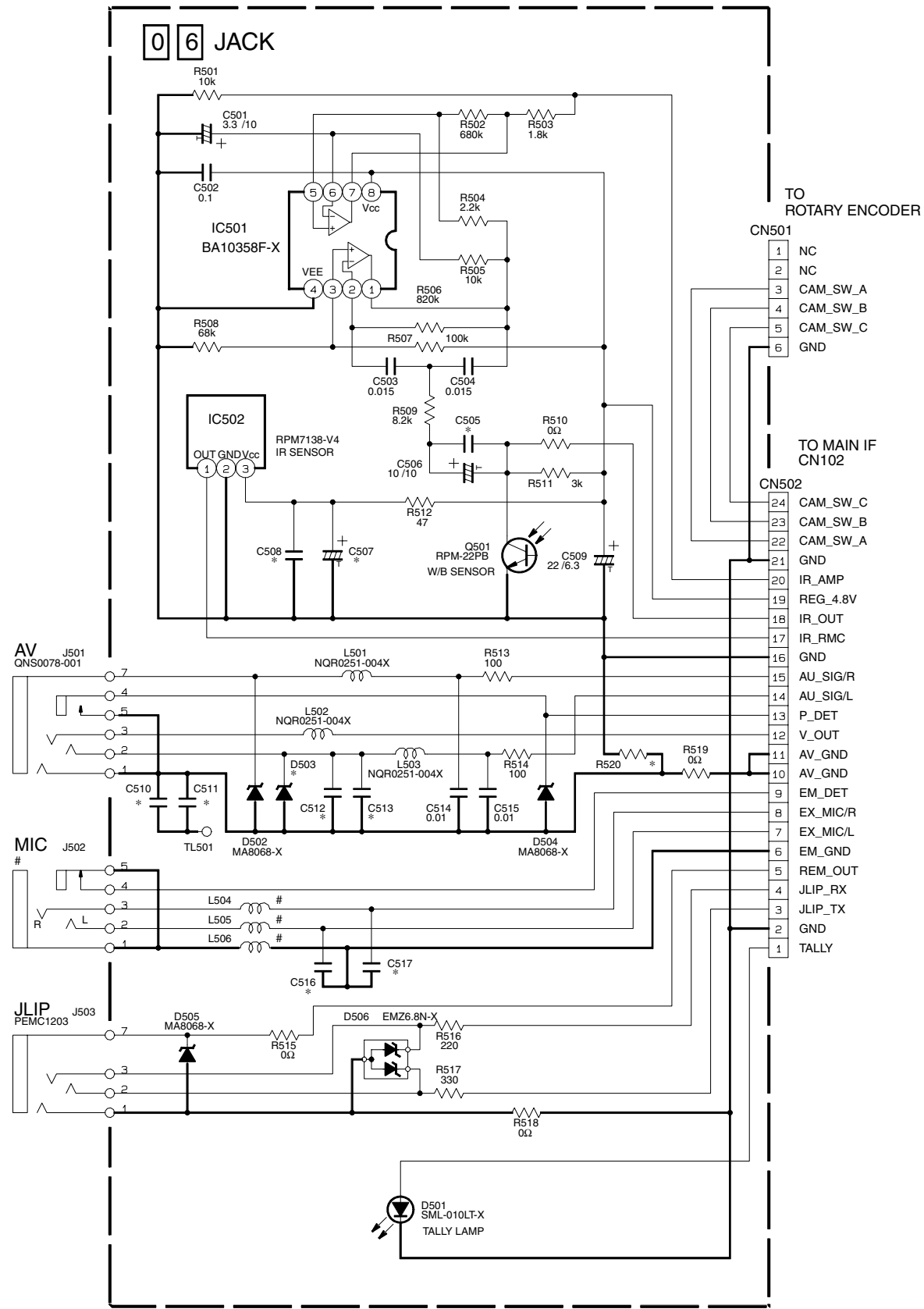
NOTES : ● For the destination of each signal and further line connections that are cut off from this diagram, refer to "4.1 BOARD INTERCONNECTIONS".
● When ordering parts, be sure to order according to the Part Number indicated in the Parts List.



y40093001a_rev0.0

4.19 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.



NOTE : The parts with marked (*) is not used.

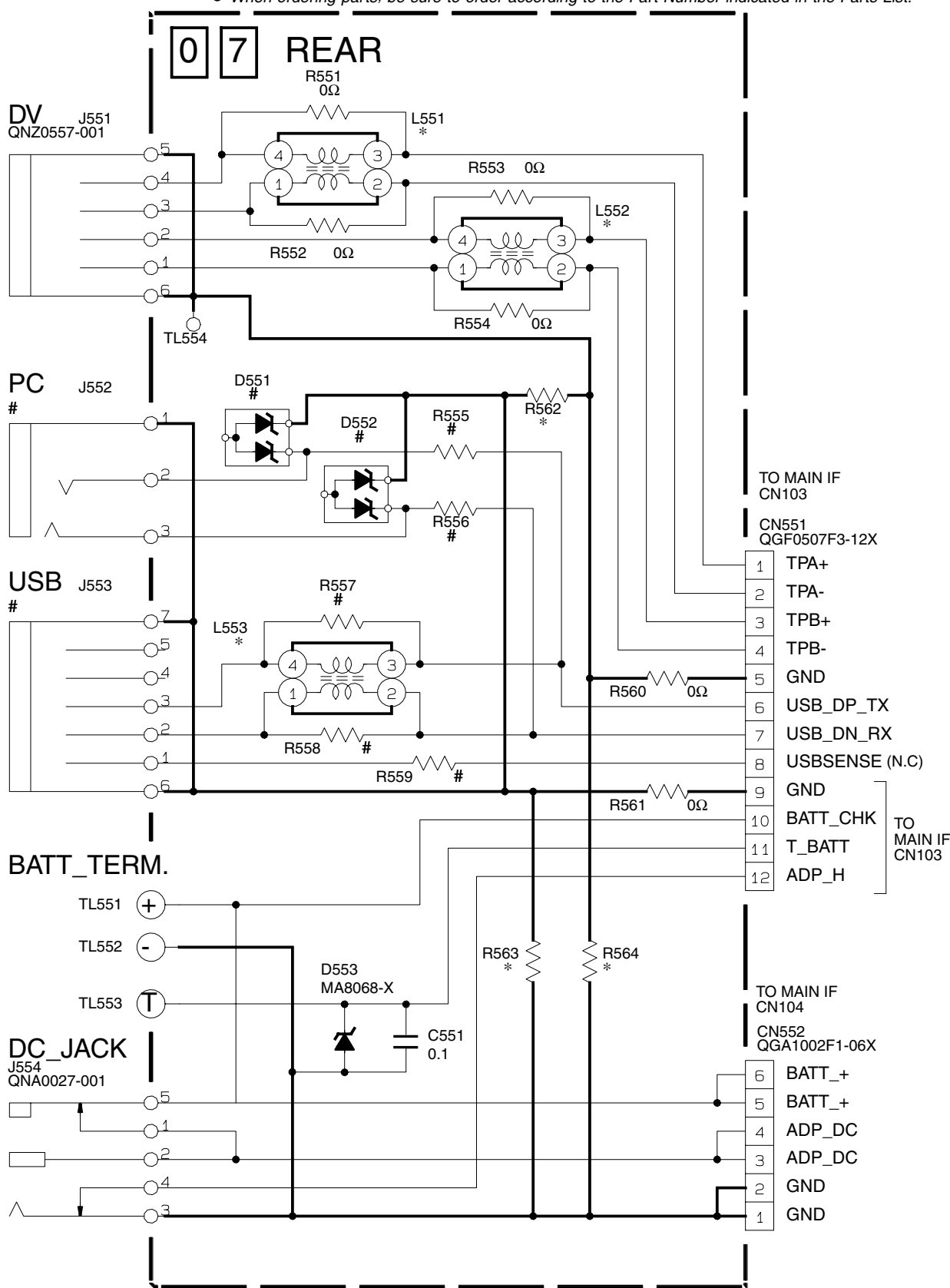
EXCHANGE PARTS LIST

	J502	L504 ~ L506
Without MIC JACK	*	*
With MIC JACK	QNS0005-001	NQR0251-004X

y40092001a_rev0.0

4.20 REAR 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.



NOTE : The parts with marked (*) is not used.

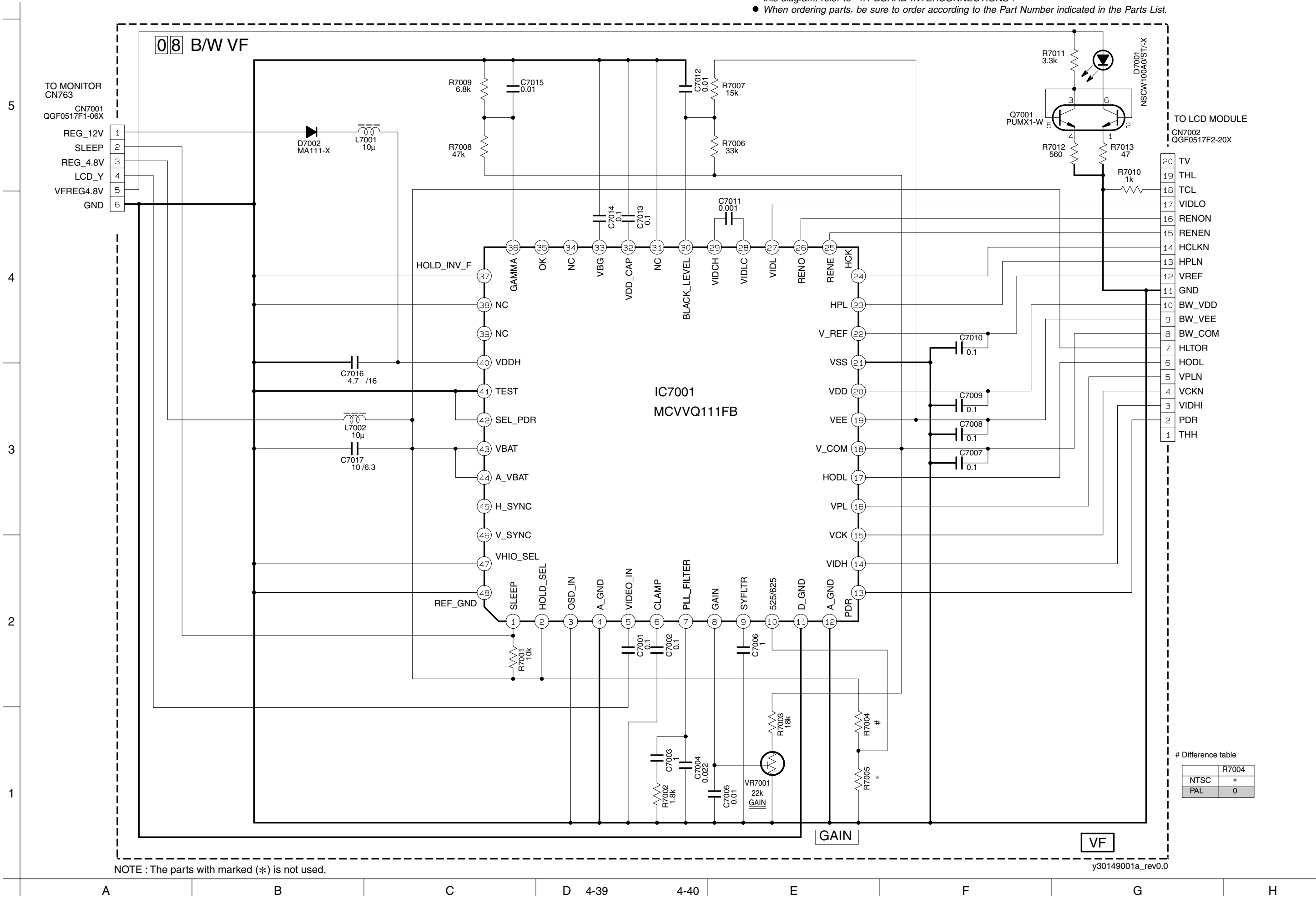
EXCHANGE PARTS LIST

	J552	J553	R555, R556	R557~R559	D551, D552
Without DSC MODEL	QNS0152-001	*	330	*	EMZ6.8N-X
With DSC MODEL	*	QNZ0497-001	*	0Ω	*

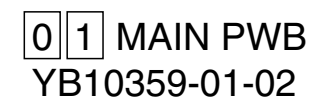
y40094001a_rev0.0

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.



FOIL SIDE(B)



COMPONENT PARTS LOCATION GUIDE <MAIN/YB10359-01-02>

(1/2)

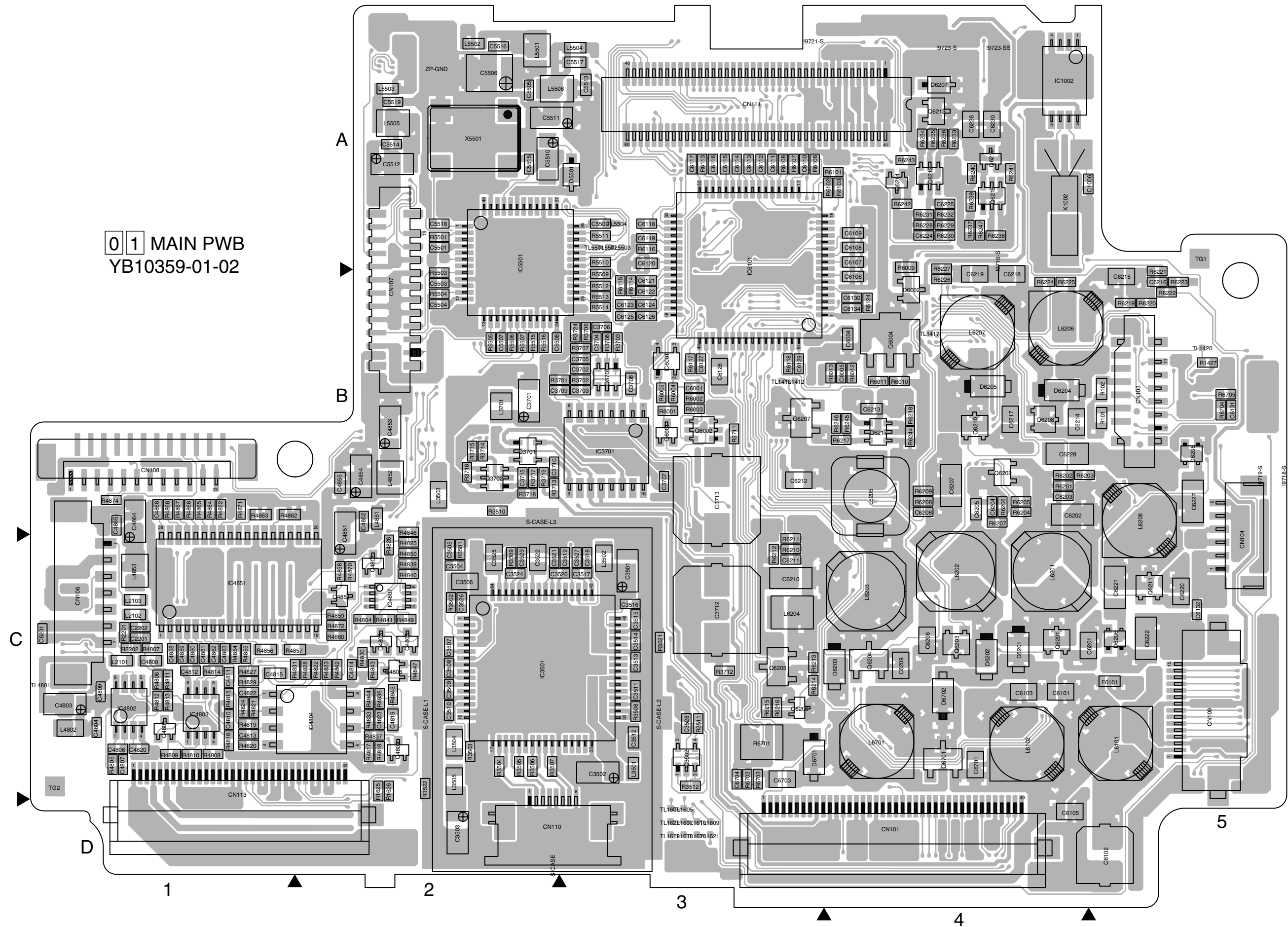
REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	
CAPACITOR		C2011	B C 2D	C3027	B C 5C	C4204	B C 2B	C4854	A C 2B	C6220	A C 5C	IC4302	B C 2A	Q2102	B C 1C	
C1002	B C 3A	C2012	B C 1D	C3028	B C 5C	C4205	B C 2B	C4855	A C 2B	C6221	A C 5C	IC4304	B C 2B	Q2103	B C 1C	
C1003	B C 4A	C2013	B C 1D	C3029	B C 5C	C4206	B C 2B	C4858	A C 1C	C6222	A C 5C	IC4802	A C 1C	Q2501	B C 2C	
C1004	B C 4A	C2014	B C 1D	C3030	B C 4C	C4207	B C 2B	C4859	A C 1C	C6224	A C 4A	IC4803	A C 1C	Q3001	B C 3C	
C1006	A C 5A	C2015	B C 1D	C3031	B C 4C	C4208	B C 2B	C4860	A C 1C	C6225	A C 4A	IC4804	A C 2C	Q3002	B C 4C	
C1007	B C 5B	C2016	B C 2C	C3032	B C 4C	C4209	B C 2B	C4861	A C 1C	C6226	A C 4A	IC4807	A C 2C	Q3701	A C 3B	
C1009	B C 4A	C2017	B C 2C	C3033	B C 4C	C4210	B C 2A	C4862	A C 1C	C6227	A C 5B	IC4851	A C 1C	Q3702	A C 2B	
C1010	B C 4A	C2018	B C 1C	C3034	B C 4C	C4211	B C 2A	C4863	A C 1C	C6228	A C 4B	IC5501	A C 2A	Q4301	B C 2B	
C1013	B C 4A	C2019	B C 2C	C3035	B C 4C	C4212	B C 2A	C4864	A C 1B	C6230	A C 4A	IC6001	A C 3B	Q4302	B C 3B	
C1014	B C 4A	C2020	B C 2C	C3036	B C 4C	C4213	B C 2A	C4865	A C 1B	C6231	A C 1C	IC6101	A C 3A	Q4303	B C 3B	
C1015	B C 4A	C2021	B C 2C	C3037	B C 4C	C4214	B C 2A	C4866	A C 1B	C6701	A C 4C	COIL			Q4801	A C 1C
C1016	B C 4A	C2024	B C 1C	C3038	B C 4B	C4215	B C 2A	C5501	A C 2A	C6703	A C 3C	L1002	B C 3A	Q4802	A C 2C	
C1017	B C 4A	C2025	B C 1C	C3039	B C 5C	C4216	B C 2A	C5503	A C 2B	C6704	A C 3C	L1401	B C 5B	Q4803	A C 2C	
C1019	B C 4A	C2026	B C 2C	C3040	B C 4B	C4217	B C 2A	C5504	A C 2B	CONNECTOR			L2001	B C 2B	Q4804	A C 2C
C1020	B C 4A	C2027	B C 2D	C3041	B C 4B	C4301	B C 3B	C5505	A C 2A	CN101	A C 3D	L2002	B C 1D	Q4805	A C 2C	
C1021	B C 4A	C2028	B C 2D	C3042	B C 5C	C4302	B C 3A	C5506	A C 2A	CN102	B C 1C	L2101	A C 1C	Q4806	A C 2C	
C1023	B C 4B	C2103	B C 1C	C3043	B C 5C	C4303	B C 3B	C5507	A C 2B	CN103	A C 5B	L2102	A C 1C	Q4851	A C 2C	
C1026	B C 4A	C2104	B C 1C	C3044	B C 5C	C4304	B C 2B	C5508	A C 2B	CN104	A C 5C	L2103	A C 1C	Q6001	A C 3B	
C1027	B C 4A	C2105	B C 1C	C3045	B C 5C	C4305	B C 2B	C5509	A C 3A	CN105	B C 5B	L2501	B C 1B	Q6002	A C 3B	
C1028	B C 3A	C2106	B C 1C	C3046	B C 5C	C4306	B C 2B	C5510	A C 2A	CN106	A C 1C	L3001	B C 3C	Q6004	A C 4B	
C1029	B C 4A	C2107	B C 1C	C3047	B C 4B	C4307	B C 3A	C5511	A C 2A	CN107	A C 2B	L3002	B C 5B	Q6201	A C 4C	
C1030	B C 4A	C2108	B C 1C	C3048	B C 5D	C4308	B C 3A	C5512	A C 2A	CN108	A C 1B	L3003	B C 4B	Q6202	A C 4B	
C1031	B C 5B	C2109	B C 1C	C3049	B C 5D	C4309	B C 2B	C5513	A C 3A	CN109	A C 5C	L3004	B C 3C	Q6203	A C 4C	
C1034	B C 4A	C2110	B C 1C	C3050	B C 5C	C4310	B C 2B	C5514	A C 2A	CN110	A C 2D	L3005	B C 3C	Q6204	A C 4C	
C1036	B C 4A	C2111	B C 1C	C3051	B C 3D	C4311	B C 2C	C5515	A C 2A	CN111	A C 4A	L3006	B C 5B	Q6205	A C 3C	
C1037	B C 4A	C2112	B C 1C	C3052	B C 3D	C4312	B C 2C	C5516	A C 2A	CN112	B C 4C	L3007	B C 4C	Q6206	A C 3C	
C1038	B C 4A	C2113	B C 1C	C3053	B C 3C	C4313	B C 2B	C5517	A C 3A	CN113	A C 1C	L3008	B C 4C	Q6207	A C 3B	
C1039	B C 4A	C2114	B C 1C	C3054	B C 3C	C4314	B C 2B	C5518	A C 2A	DIODE			L3009	B C 4C	Q6208	A C 4B
C1301	B C 3C	C2115	B C 1C	C3055	B C 5C	C4315	B C 2B	C5519	A C 2A	D1001	B C 5B	L3010	B C 3C	Q6210	A C 4B	
C1302	B C 3C	C2116	B C 1C	C3056	B C 3C	C4316	B C 2B	C6001	A C 3B	D1301	B C 2C	L3011	B C 3C	Q6211	A C 5C	
C1303	B C 3C	C2117	B C 1C	C3057	B C 4C	C4317	B C 2B	C6004	A C 4B	D1302	B C 2C	L3501	A C 3C	Q6212	A C 4A	
C1304	B C 3B	C2118	B C 1C	C3058	B C 4D	C4318	B C 2B	C6005	A C 4B	D1602	B C 2C	L3502	A C 3C	Q6213	A C 4A	
C1305	B C 3C	C2119	B C 1C	C3061	B C 4C	C4319	B C 2B	C6101	A C 4C	D1603	B C 2C	L3503	A C 2B	Q6214	A C 4A	
C1306	B C 3C	C2120	B C 1C	C3064	B C 4C	C4320	B C 2B	C6102	A C 5D	D1604	B C 3D	L3504	A C 2C	Q6215	A C 4A	
C1307	B C 2C	C2121	B C 1D	C3066	B C 3C	C4321	B C 2B	C6103	A C 4C	D3001	B C 4C	L3505	A C 2C	Q6216	A C 4A	
C1401	B C 4B	C2122	B C 1C	C3067	B C 4D	C4322	B C 3B	C6105	A C 4D	D3002	B C 4C	L4201	B C 2B	Q6217	A C 4B	
C1402	B C 4B	C2123	B C 1D	C3068	B C 4D	C4323	B C 3A	C6106	A C 4B	D3003	B C 4C	L4202	B C 2B	Q6701	A C 4C	
C1403	B C 5B	C2124	B C 1C	C3069	B C 4D	C4324	B C 3A	C6107	A C 4A	D3004	B C 3C	L4301	B C 2B	RESISTOR		
C1404	B C 4B	C2125	B C 1C	C3070	B C 4D	C4325	B C 3B	C6108	A C 4A	D3701	A C 2B	L4302	B C 2C	R101	A C 5B	
C1405	B C 4B	C2126	B C 1C	C3501	A C 3C	C4326	B C 3B	C6109	A C 4A	D5501	A C 3A	L4303	B C 2B	R102	A C 5B	
C1406	B C 5B	C2127	B C 1C	C3502	A C 3C	C4327	B C 3B	C6110	A C 3A	D6002	A C 4B	L4304	B C 2B	R1001	B C 5B	
C1407	B C 4B	C2128	B C 1C	C3503	A C 2D	C4328	B C 3B	C6111	A C 3A	D6201	A C 4C	L4305	B C 2A	R1002	B C 3A	
C1408	B C 5B	C2201	A C 1C	C3504	A C 2C	C4329	B C 3B	C6112	A C 3A	D6202	A C 4C	L4306	B C 3A	R1003	B C 4A	
C1409	B C 4B	C2202	A C 1C	C3505	A C 2C	C4330	B C 2A	C6113	A C 3A	D6203	A C 4C	L4307	B C 4A	R1004	B C 4A	
C1410	B C 4B	C2501	B C 1B	C3506	A C 2C	C4331	B C 2A	C6114	A C 3A	D6204	A C 4B	L4802	A C 1C	R1005	B C 4A	
C1411	B C 4B	C2502	B C 1B	C3507	A C 2C	C4332	B C 3A	C6115	A C 3A	D6205	A C 4B	L4851	A C 2B	R1006	B C 4A	
C1412	B C 4B	C2503	B C 1B	C3508	A C 2C	C4333	B C 3A	C6116	A C 3A	D6206	A C 4B	L4852	A C 2B	R1007	B C 3A	
C1413	B C 3B	C2504	B C 1B	C3509	A C 2C	C4334	B C 3A	C6117	A C 3A	D6207	A C 4A	L4853	A C 1C	R1008	B C 4A	
C1414	B C 4B	C2505	B C 1C	C3510	A C 2C	C4335	B C 2B	C6118	A C 3A	D6208	A C 5B	L5501	A C 2A	R1009	B C 4A	
C1415	B C 4B	C2506	B C 1C	C3511	A C 3C	C4336	B C 3B	C6119	A C 3A	D6701	A C 3C	L5502	A C 2A	R1010	B C 4A	
C1416	B C 4B	C2507	B C 1B	C3512	A C 3C	C4337	B C 2B	C6120	A C 3A	D6702	A C 4C	L5503	A C 2A	R1011	B C 4A	
C1601	B C 2C	C2508	B C 1B	C3513	A C 3C	C4338	B C 2B	C6121	A C 3B	FUSE			L5504	A C 3A	R1012	B C 4A
C1602	B C 2D	C2509	B C 1C	C3514	A C 3C	C4339	B C 2A	C6122	A C 3B	F6101	A C 5C	L5505	A C 2A	R1013	B C 4A	
C1603	B C 2C	C2510	B C 1C	C3515	A C 3C	C4340	B C 3A	C6123	A C 3B	IC			L5506	A C 2A	R1014	B C 4A
C1605	B C 2D	C2511	B C 2C	C3516	A C 3C	C4341	B C 3A	C6124	A C 3B	IC1001	B C 4A	L6101	A C 5C	R1015	B C 4A	
C1606	B C 2C	C2512	B C 2C	C3517	A C 3C	C4342	B C 3A	C6125	A C 3B	IC1002	A C 4A	L6102	A C 4C	R1016	B C 3A	
C1607	B C 3D	C2513	B C 1C	C3518	A C 3C	C4343	B C 3A	C6126	A C 3B	IC1003	B C 5B	L6201	A C 4C	R1017	B C 5B	
C1614	B C 3C	C2514	B C 1C	C3519	A C 3C	C4344	B C 3A	C6127	A C 3B	IC1004	B C 4A	L6202	A C 4C	R1018	B C 5B	
C1618	B C 3C	C2515	B C 1B	C3520	A C 3C	C4345	B C 3A	C6128	A C 3B	IC1005	B C 4A	L6203	A C 4C	R1019	B C 4A	
C1619	B C 3C	C2516	B C 2C	C3521	A C 2C	C4346	B C 3A	C6129	A C 3B	IC1006	B C 4B	L6204	A C 3C	R1020	B C 4B	
C1620	B C 3C	C2517	B C 2C	C3522	A C 2C	C4347	B C 3B	C6130	A C 4B	IC1007	B C 3A	L6205	A C 4B	R1021	B C 5B	
C1621	B C 3C	C3001	B C 3C	C3523	A C 2C	C4348	B C 3B	C6131	A C 5B	IC1008	B C 5B	L6206	A C 4B	R1022	B C 5B	
C1622	B C 3D	C3003	B C 5B	C3524	A C 2C	C4349	B C 3B	C6132	A C 5C	IC1009	B C 3C	L6207	A C 4B	R1023	B C 4A	
C1623	B C 3D	C3004	B C 4B	C3525	A C 2C	C4350	B C 2B	C6134	A C 4B	IC1010	B C 3C	L6208	A C 4B	R1024	B C 4A	
C1624	B C 3D	C3005	B C 4C	C3526	A C 2C	C4803	A C 1C	C6201	A C 5C	IC1301	B C 3C	L6701	A C 4C	R1026	B C 3A	
C1625	B C 2C	C3006	B C 4C	C3527	A C 3C	C4804	A C 1C	C6202	A C 4B	IC1302	B C 3C	TRANSISTOR			R1027	B C 4A
C1626	B C 2D	C3007	B C 5B	C3528	A C 3C	C4806	A C 1C	C6203	A C 4B	IC1401	B C 4B	Q1001	B C 5B	R1028	B C 4A	
C1627	B C 2C	C3008	B C 4C	C3701	A C 2B	C4807	A C 1C	C6204	A C 4B	IC1402	B C 4B	Q1002	B C 5B	R1029	B C 4A	
C1628	B C 2D	C3009	B C 4C	C3702	A C 3B	C4808	A C 1C	C6205	A C 4B	IC1601	B C 2C	Q1003	B C 3A	R1030	B C 4A	
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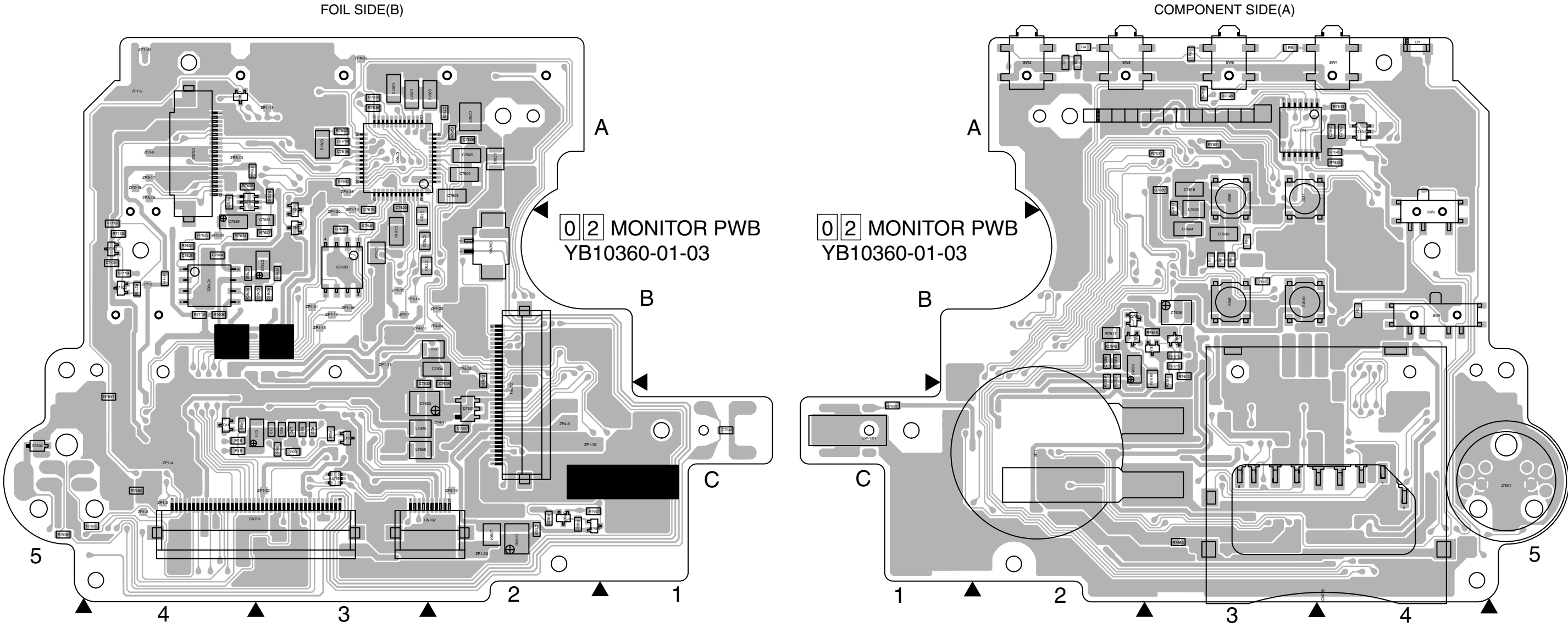
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R1614	B	C	3C	R3003	B	C	4D	R4202	B	C	2B	R4830	A	C	2C	R6212	A	C	3C	TL1403	B	C	4B				
R1615	B	C	3C	R3004	B	C	4C	R4203	B	C	2B	R4831	A	C	2C	R6213	A	C	3C	TL1404	B	C	4B				
R1616	B	C	3D	R3005	B	C																					

COMPONENT SIDE(A)



4.23 MONITOR CIRCUIT BOARD



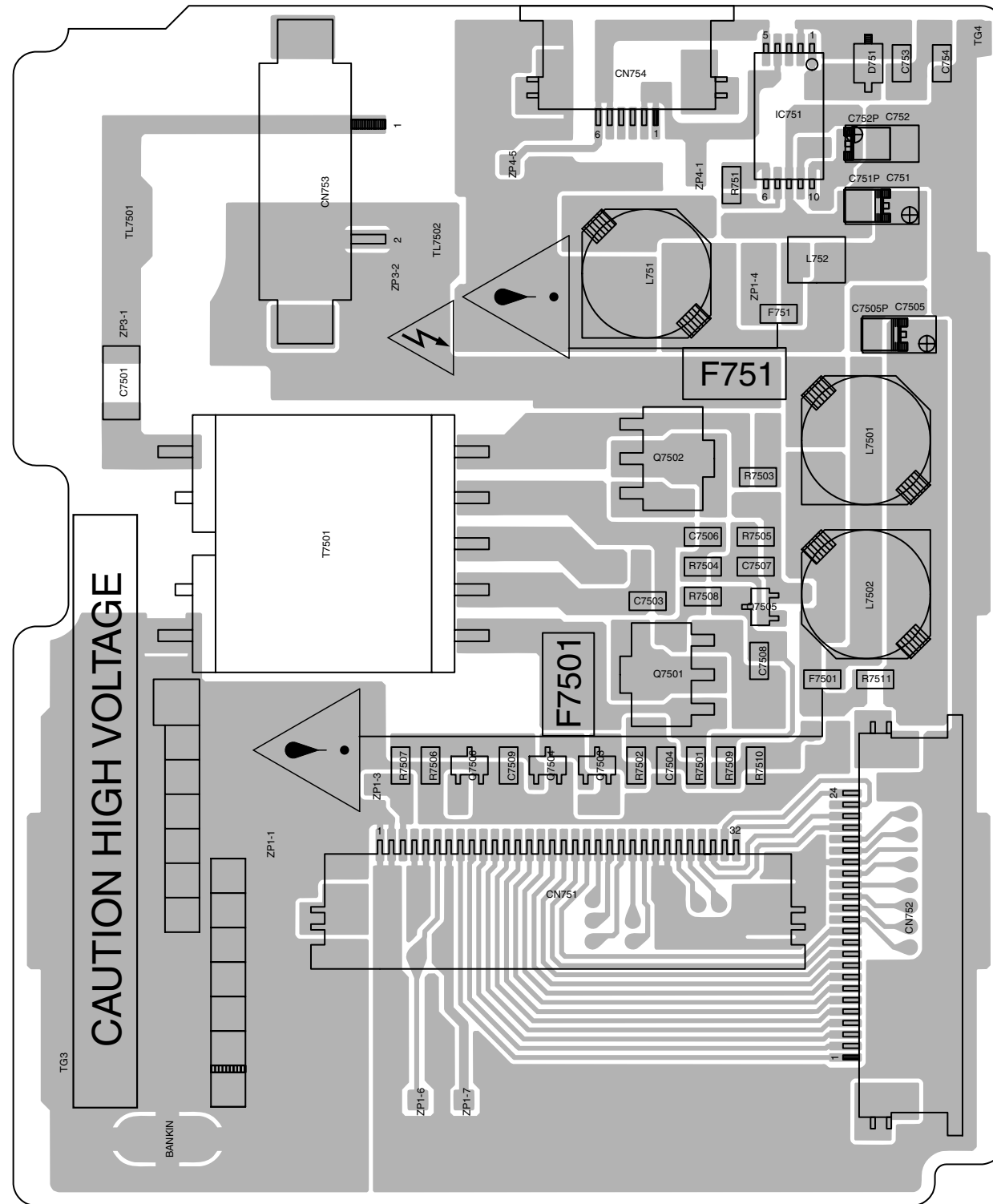
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LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	
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4.24 LCD BL CIRCUIT BOARD

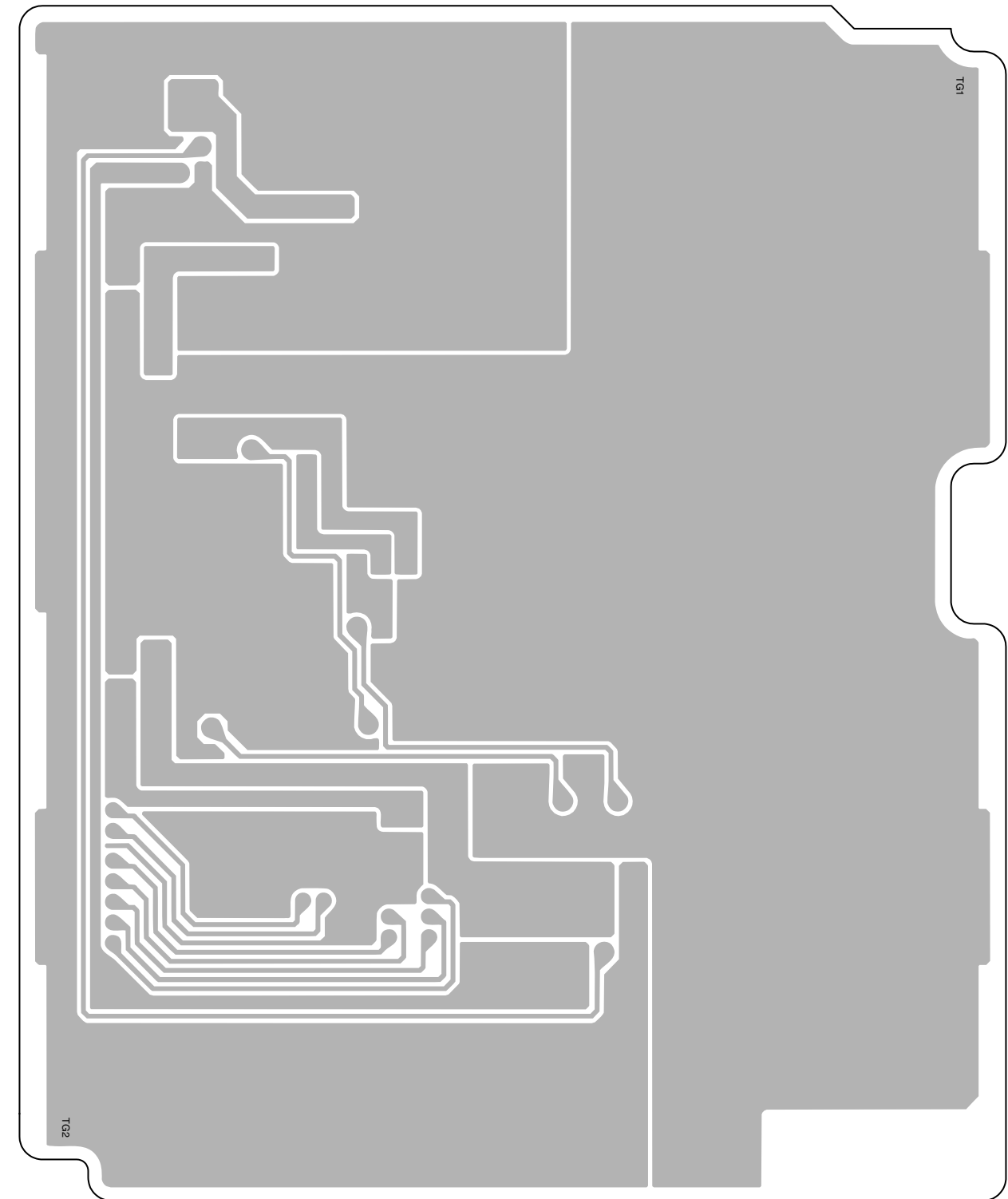
FOIL SIDE(B)

03 LCD BL PWB
YB10325-01-03



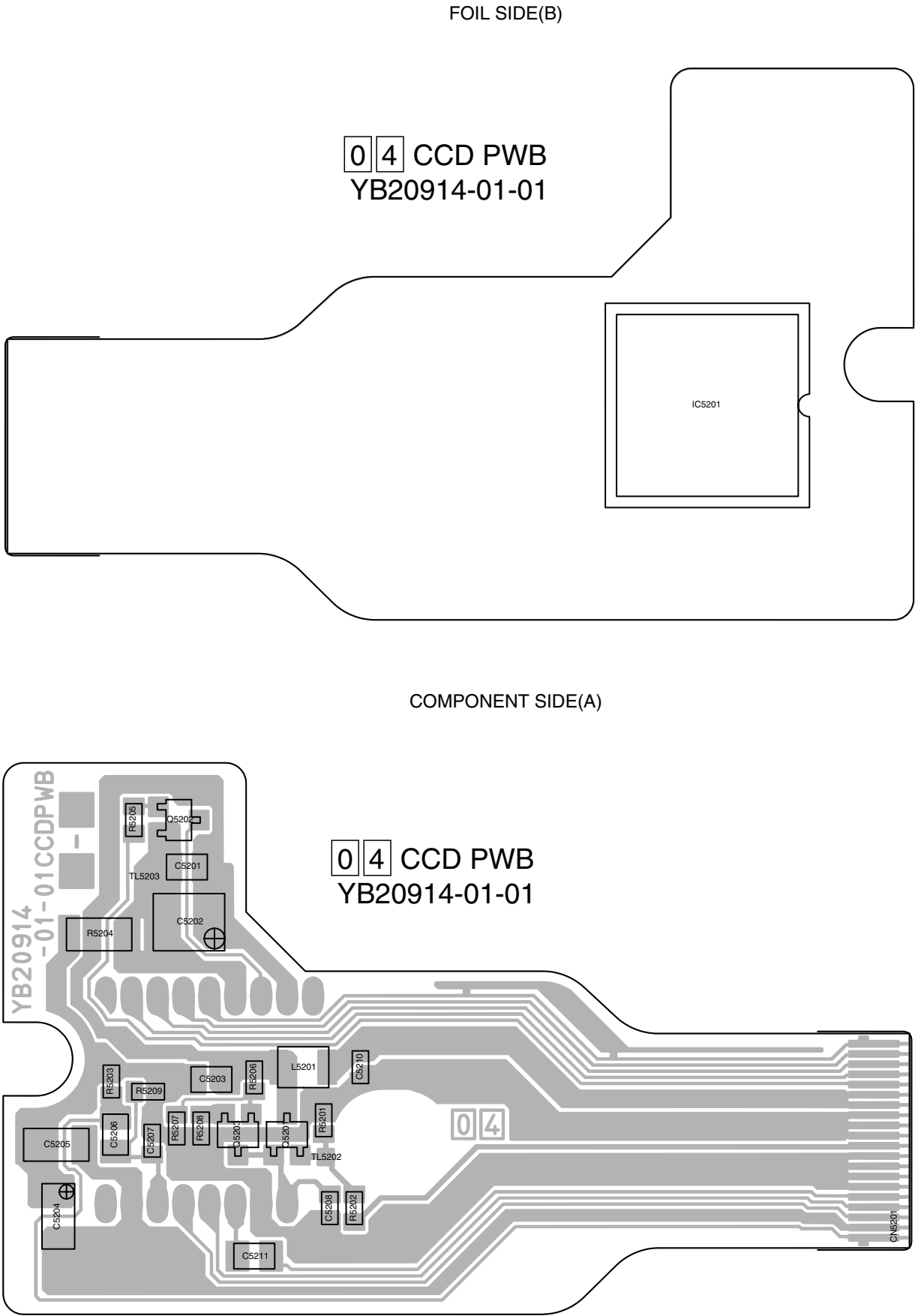
COMPONENT SIDE(A)

03 LCD BL PWB
YB10325-01-03

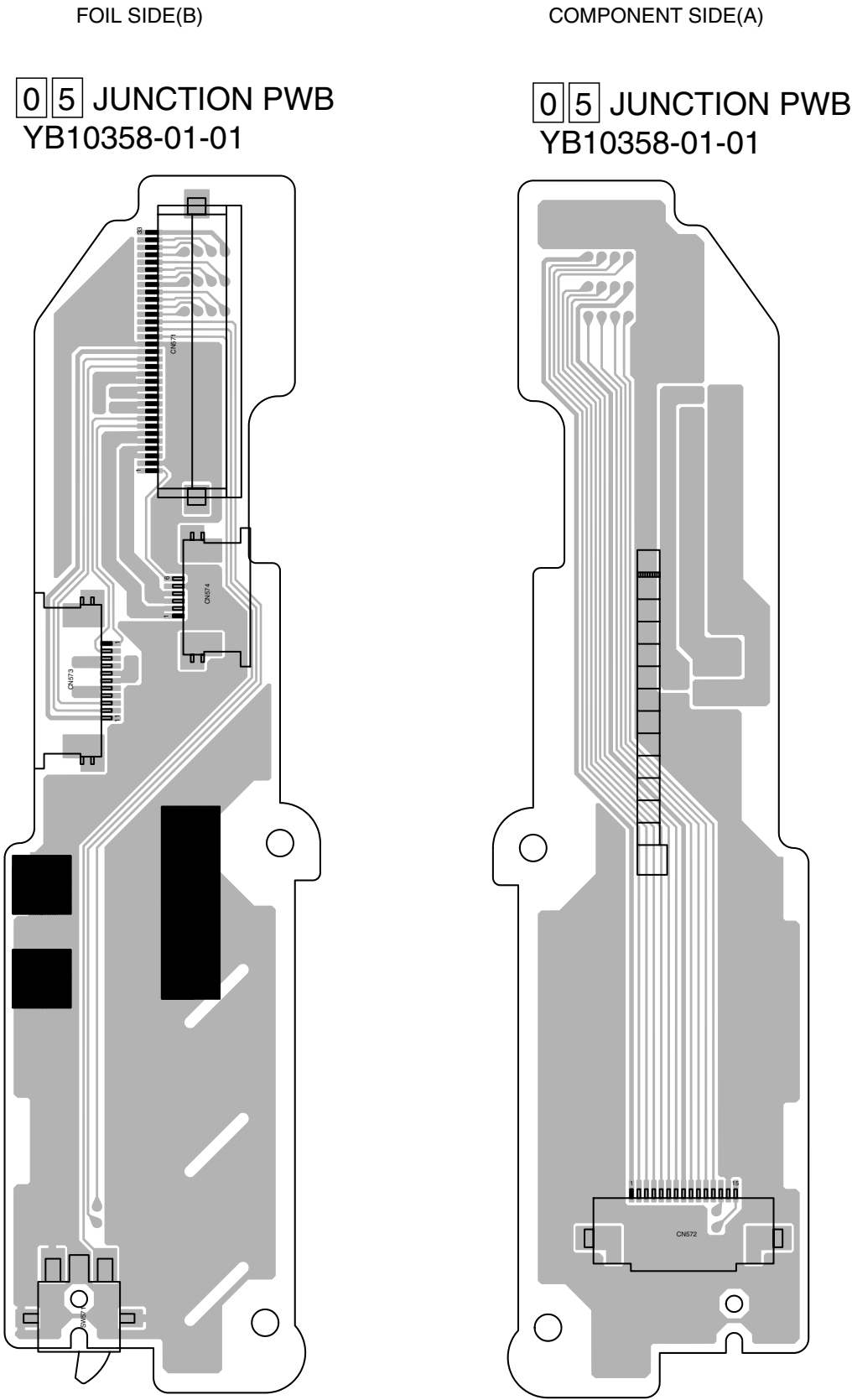


4.25 CCD AND JUNCTION CIRCUIT BOARDS

-CCD-



-JUNCTION-

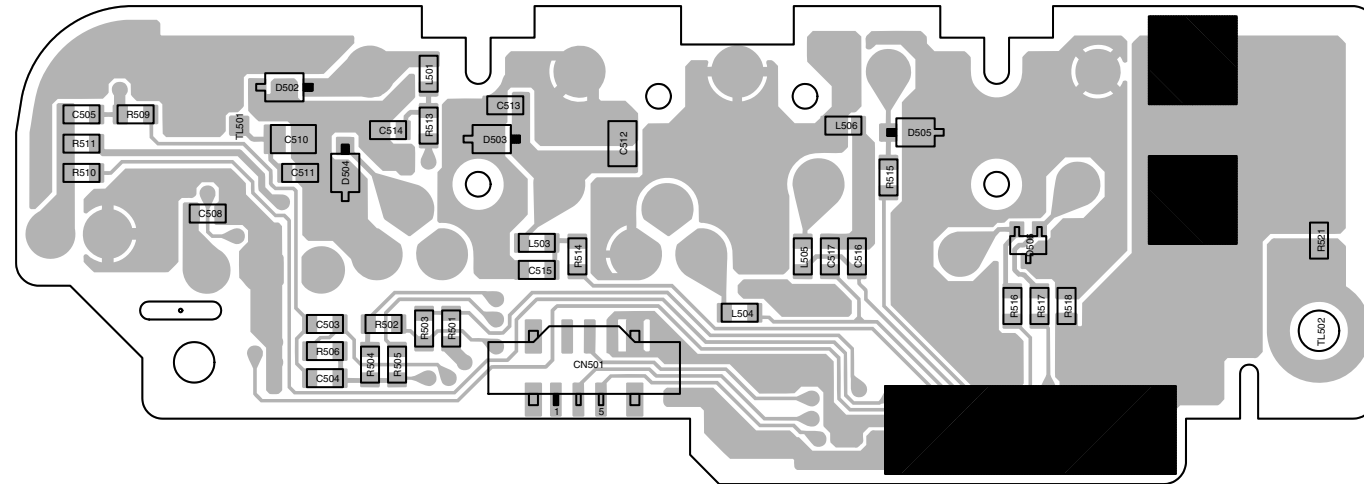


4.26 JACK AND VF CIRCUIT BOARDS

-JACK-

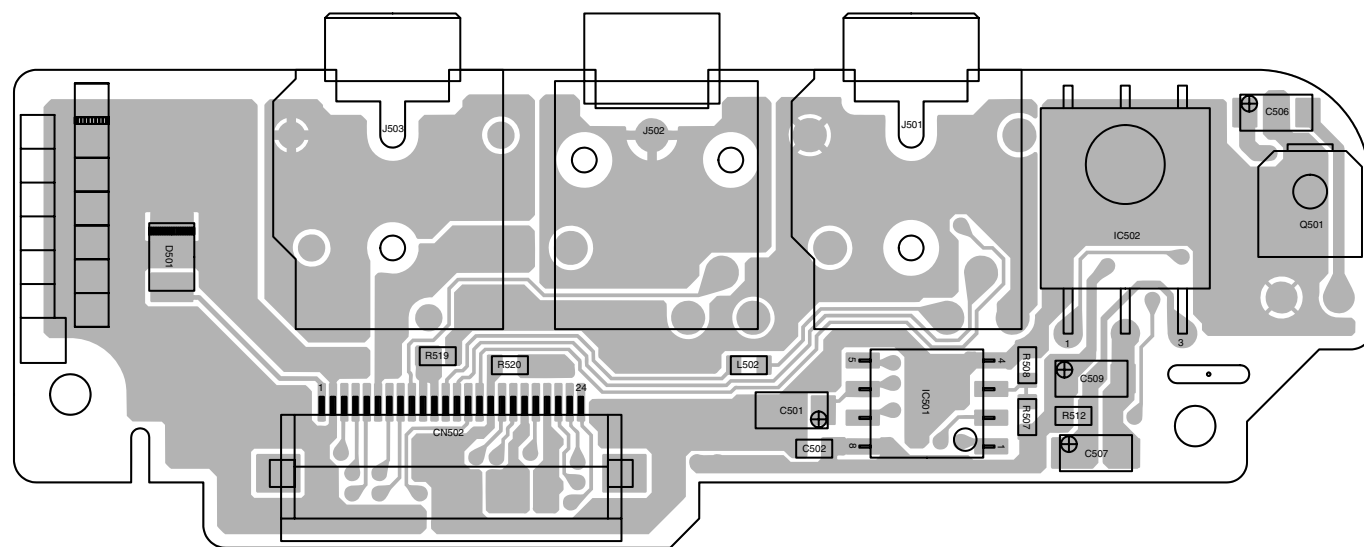
FOIL SIDE(B)

06 JACK PWB
YB10357-01-01



COMPONENT SIDE(A)

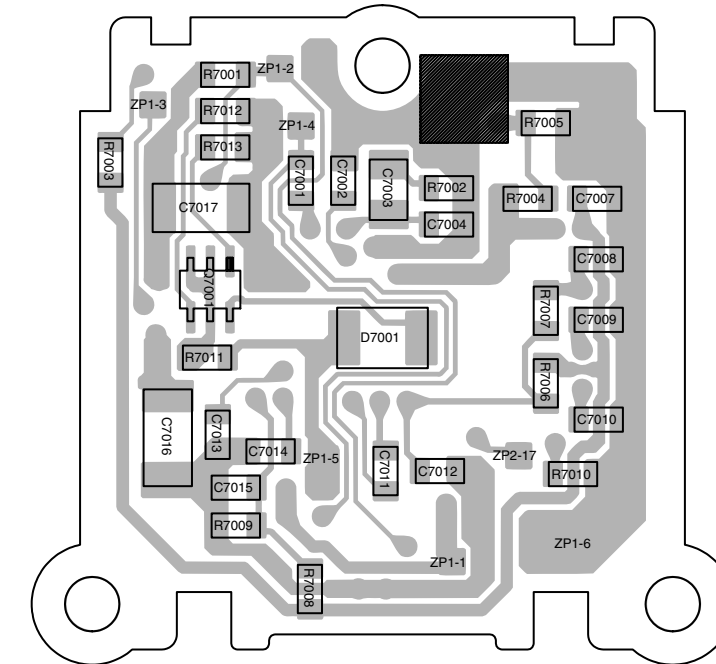
06 JACK PWB
YB10357-01-01



-VF-

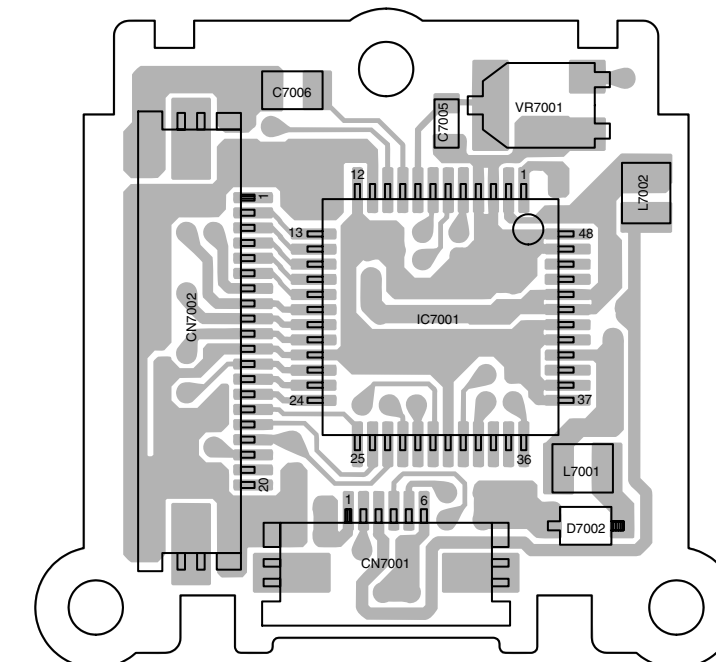
FOIL SIDE(B)

08 VF PWB
YB20910



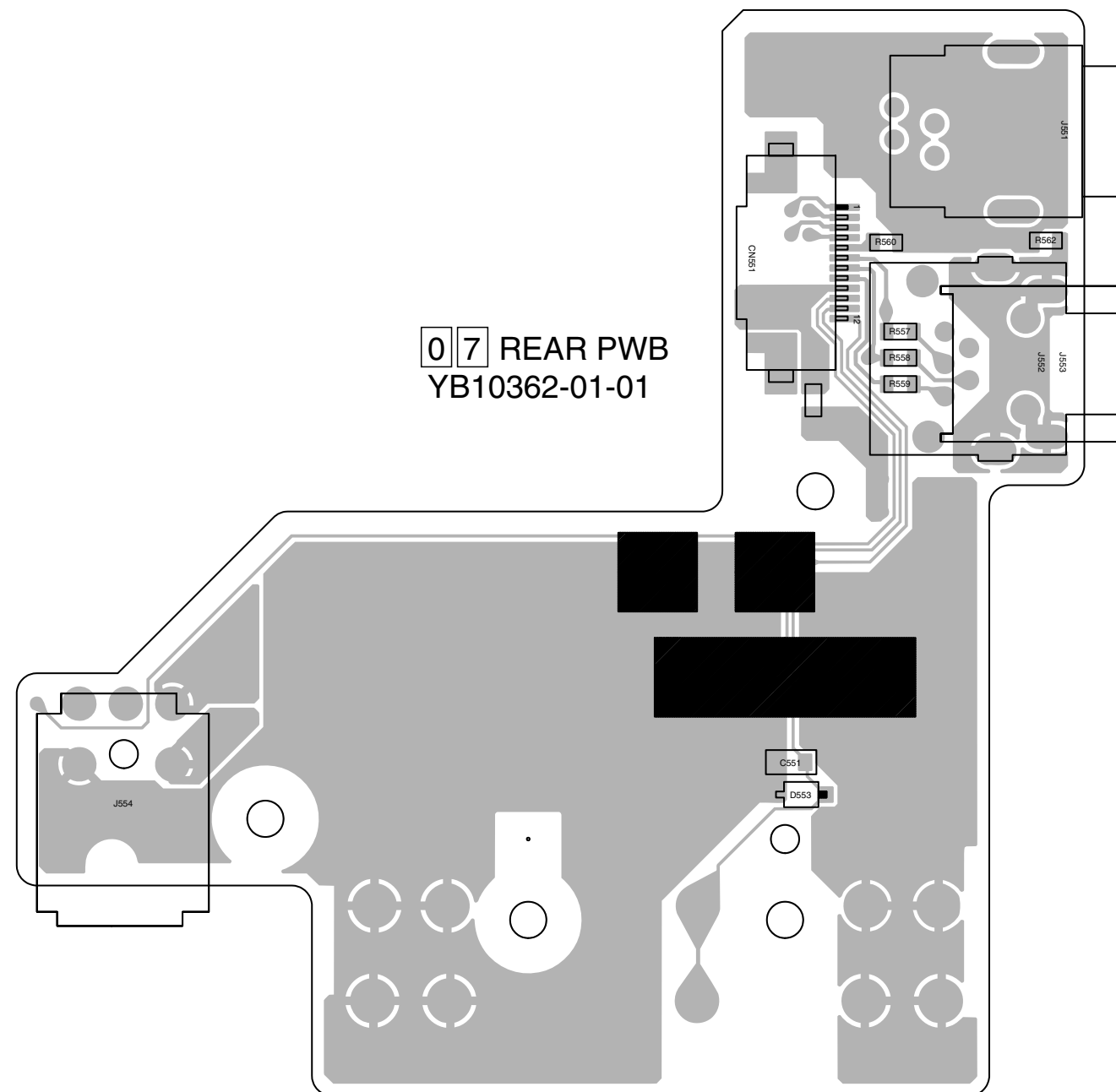
COMPONENT SIDE(A)

08 VF PWB
YB20910

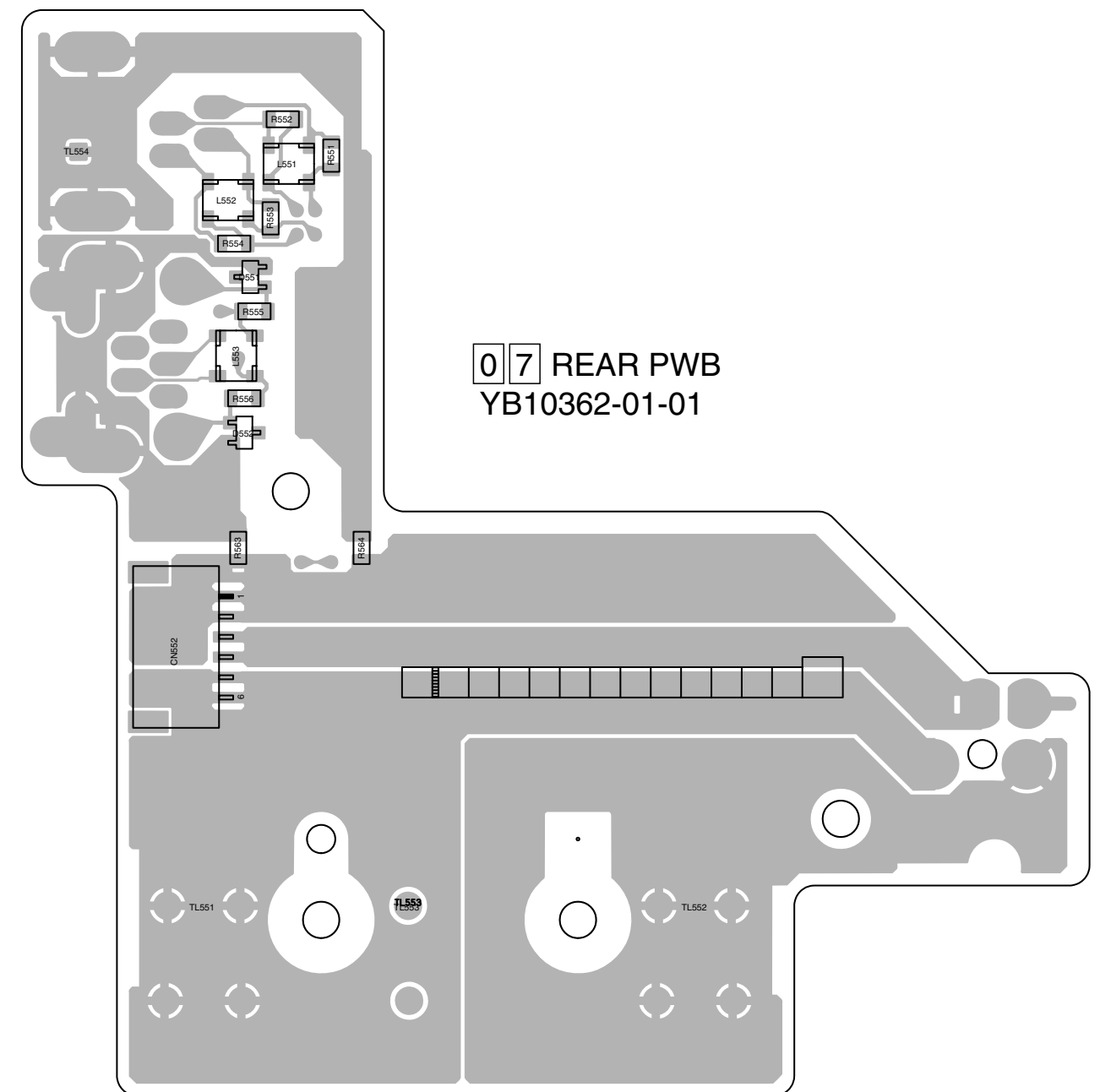


4.27 REAR CIRCUIT BOARD

FOIL SIDE(B)



COMPONENT SIDE(A)



4.28 VOLTAGE CHARTS

<SYSCON>

MODE PIN NO.	REC	PLAY
IC1001	-	-
IC1002	-	-
IC1003		
1	3.0	3.0
2	0.7	0.7
3	3.1	3.1
4	0	0
5	0.6	0.6
6	3.0	3.0
7	3.0	3.0
8	3.1	3.1
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	0
3	0.4	0.4
4	3.0	3.1
5	3.1	3.1
6	3.1	3.1
7	1.4	1.4
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	3.0	3.0
20	2.9	2.8
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
11	0	0
12	0	0
13	3.0	3.0
14	3.0	3.0

<PC IF>

MODE PIN NO.	REC	PLAY
IC1301	-	-
IC1302	-	-
IC1303		
1	0	0
2	3.0	3.0
3	0	0
4	0	0
5	0	0
6	3.0	3.0
7	0	0
8	0	0
9	0	0
10	3.0	3.0
11	0	0
12	0	0
13	3.0	3.0
14	3.0	3.0
Q1301		
E	0	0
C	0.4	0
B	0	0

<DECKCPU>

MODE PIN NO.	REC	PLAY
IC1401	-	-
IC1402	-	-
Q1401		
E	3.1	3.1
C	3.1	3.1
B	3.1	3.1
Q1402		
1(E)	0	0
2(B)	3.1	3.1
3(E)	3.1	3.1
4(C)	2.8	2.8
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)	3.1	3.1

<MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	0.8	0.8
3	0.8	0.8
4	0.8	0.8
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	4.8	4.8
13	0.4	0.4
14	0.4	0.4
15	0.4	0.5
16	0	0.6
17	0.7	0.8
18	11.1	11.1
19	1.5	1.5
20	1.5	1.5
21	1.5	1.5
22	1.5	1.5
23	1.5	1.5
24	1.5	1.5
25	1.5	1.5
26	1.6	1.5
27	1.5	1.5
28	1.5	1.5
29	3.1	3.1
30	0	0
31	0.7	0.7
32	0.6	0.6
33	1.6	1.6
34	3.1	3.1
35	0	0
36	0	0
37	0	0
38	0	0
39	0	0

<AUDIO>

MODE PIN NO.	REC	PLAY
IC2001		
1	2.1	0.7
2	2.0	0
3	2.0	0
4	2.1	0
5	1.5	1.5
6	1.5	1.5
7	1.5	1.5
8	0	0
9	3.1	3.1
10	0.7	1.5
11	0.7	1.5
12	0.7	1.5
13	0.7	1.5
14	1.5	1.5
15	1.5	1.5
16	0.6	1.5
17	1.4	1.5

<DVMAIN>

MODE PIN NO.	REC	PLAY
18	1.5	1.5
19	1.3	1.5
20	1.5	1.5
21	1.3	1.3
22	2.4	2.4
23	4.8	4.8
24	0	0
25	0	0
26	0	0
27	3.1	3.1
28	0	0
29	1.5	0
30	1.3	1.3
31	1.5	0
32	2.9	2.9
33	3.0	3.0
34	1.5	1.5
35	1.5	1.6
36	1.5	1.4
37	3.0	3.0
38	0	2.4
39	0	0
40	0	2.4
41	0	0
42	0	0
43	4.8	4.8
44	1.5	1.5
45	2.0	0
46	2.0	0
47	2.1	0
48	2.0	0.6
49	2.1	0.5
50	2.1	0.5
51	2.1	0
52	2.7	0
53	2.0	0
54	2.0	0
55	4.1	4.2
56	2.0	2.1
57	0	0
58	4.1	4.2
59	2.0	0
60	2.0	0
61	2.0	0
62	2.0	0
63	2.0	1.0
64	2.0	0
Q2001		
1(E)	0	0
2(E)	0	0
3(B)	0	0
4(C)	0	0
5(B)	0	0
6(C)	0	0
Q2002		
E	4.1	4.2
C	4.8	4.8
B	4.8	4.8

<DVMAIN>

MODE PIN NO.	REC	PLAY
IC3001	-	-
IC3005		
1	0	0.4
2	0	0.4
3	0	0
4	2.1	2.1
5	1.1	1.2
6	1.2	1.6
7	3.1	3.1
8	1.2	1.6
Q3001	-	-
Q3002	-	-

<PRE/REC>

MODE PIN NO.	REC	PLAY
IC3501		
1	0	0
2	0.5	0.5
3	0	0
4	0	1.6
5	2.5	2.5
6	2.3	1.6
7	1.4	0
8	0	0
9	1.4	3.1
10	1.9	1.9
11	3.1	3.1
12	0	0
13	4.8	4.8
14	0	0
15	0	0
16	0	0
17	0	0
18	3.6	1.7
19	3.3	1.7
20	3.3	1.7
21	3.6	1.7
22	0	0
23	3.6	1.7
24	3.3	1.7
25	3.4	1.7
26	3.6	1.7
27	0	0
28	1.9	2.3
29	3.3	1.7
30	3.3	1.7
31	2.2	2.7
32	0	0
33	0	0
34	0	0
35	1.8	1.8
36	0.4	0.4
37	3.1	3.1
38	0	3.1
39	3.1	3.1
40	1.5	1.5
41	0	3.1
42	3.1	0
43	4.8	4.8
44	3.0	0
45	0.6	0

<V OUT>

MODE PIN NO.	REC	PLAY
IC3701		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	2.3	2.3
10	0	0
11	2.1	2.1
12	2.1	2.1
13	4.8	4.8
14	1.9	1.9
15	1.9	1.9
16	4.8	4.8
Q3701	-	-
Q3702		
1(E)	0	0
2(B)	0	0
3(C)	0	0
4(E)	4.8	4.8
5(B)	4.4	4.4
6(C)	4.4	4.4

<CAM.DSP>

MODE PIN NO.	REC	PLAY
IC4201		
1	0	0
2	1.3	0

MODE PIN NO.	REC	PLAY
3	1.8	3.0
4	1.8	3.0
5	1.5	3.1
6	1.3	3.1
7	0	0
8	0.4	0
9	0.6	0
10	0.4	0
11	0	0
12	0	0
13	3.1	3.0
14	0	0
15	0	0
16	1.2	1.2
17	3.0	3.1
18	3.1	3.1
19	2.5	2.5
20	3.0	3.0
21	2.2	2.2
22	2.2	2.2
23	0	0
24	3.0	3.0
25	0	0
26	0	0
27	3.0	3.0
28	2.0	0.4
29	2.0	0.4
30	2.0	1.7
31	2.0	0.5
32	1.3	0
33	3.0	3.1
34	0	0
35	0	0
36	0	0
37	1.5	0.4
38	2.0	0.4
39	0.9	0.5
40	3.0	3.0
41	0	0
42	0	0
43	3.0	3.0
44	3.0	3.0
45	0	0
46	3.0	3.0
47	1.5	0
48	3.0	3.0
IC4202		
1	4.8	4.8
2	0	0
3	1.2	1.2
4	3.0	3.0
5	4.8	4.8
IC4301	-	-
IC4302		
1	1.2	0.8
2	0	0
3	1.5	1.4
4	0.7	0.9
5	0.6	0.8
6	0.7	0.9
7	0.7	0.8
8	1.0	1.2
9	0.9	1.2

MODE PIN NO.	REC	PLAY
10	1.3	1.8
11	1.7	1.1
12	1.7	1.2
13	1.4	1.1
14	1.4	1.2
15	1.3	1.3
16	0	0.4
17	2.8	2.8
18	0	3.0
19	3.1	3.1
20	0.8	0
21	3.1	3.1
22	2.8	2.8
23	2.8	2.8
24	0	0
25	1.3	1.3
26	1.5	1.4
27	1.4	1.4
28	1.6	1.4
29	1.8	1.5
30	1.5	1.8
31	1.0	1.4
32	1.2	1.6
33	0.8	1.1
34	0.9	1.2
35	0.8	1.1
36	0.8	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	0.4
6(C)	0	0
Q4302		
1(E)	1.1	1.1
2(E)	1.9	0.9
3(B)	0	0
4(C)	0	0
5(B)	0.5	0.6
6(C)	0	0

<OP DRV>

MODE PIN NO.	REC	PLAY
IC4802		
1	2.9	2.9
2	2.6	2.6
3	2.6	0
4	0	0
5	2.6	2.6
6	2.6	2.6
7	2.6	2.6
8	4.8	4.8
IC4803		
1	1.0	1.0
2	0	0
3	0	0
4	0	0
5	2.6	2.6

MODE PIN NO.	REC	PLAY
6	2.6	2.6
7	2.1	2.9
8	4.8	4.8
IC4804		
1	0.9	3.5
2	2.0	3.0
3	2.0	3.0
4	0	0
5	1.2	3.0
6	1.2	3.0
7	1.8	0
8	4.8	4.8
IC4851		
1	0	0
2	0.6	0.6
3	0	0.4
4	0	0
5	0	0.4
6	0.4	0
7	0	0
8	3.1	3.1
9	4.7	4.8
10	0	0
11	0	0
12	0	0
13	4.7	4.8

<TG>		
MODE PIN NO.	REC	PLAY
IC5501	-	-

<REG>

MODE PIN NO.	REC	PLAY
IC6001	-	-
IC6101	-	-
Q6001		
E	0	0
C	-	-
B	3.1	3.1
Q6002	-	-
Q6004	-	-
Q6201		
D	11.1	11.1
S	7.8	7.8
G	3.1	3.1
Q6202		
E	3.1	3.1
C	2.5	2.5
B	2.4	2.4
Q6203		
D	11.1	11.1
S	9.1	9.1
G	1.8	1.8
Q6204		
D	11.1	11.0
S	6.1	6.0
G	4.9	4.9
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	-	-
Q6208		
D	11.1	11.1
S	-	-
G	-	-
Q6210		
D	11.1	11.1
S	10.1	10.1
G	-	-
Q6211		
D	11.1	11.1
S	7.7	7.7
G	0	0
Q6212	-	-
Q6213	-	-
Q6214	-	-
Q6215	-	-
Q6216	-	-
Q6217	-	-
Q6701		
D	11.1	11.1
S	11.1	11.1
G	0	0

<JACK>		
MODE PIN NO.	REC	PLAY
IC501		
1	1.9	1.9
2	2.0	1.9
3	1.9	1.9
4	0	0
5	1.9	1.9
6	1.9	1.9
7	1.5	1.5
8	4.8	4.8
IC502		
1	4.6	4.6
2	0	0
3	4.8	4.8
Q501		
E	0	0
C	4.3	4.3
B	-	-

<CCD>	
MODE PIN NO.	EE
IC5201	
1	-6.2
2	0
3	0
4	0
5	0
6	8.3
7	12.0
8	8.0
9	0
10	9.9
11	1.5
12	1.2
13	7.8
14	-6.6
Q5201	
E	7.3
C	12.0
B	8.0

<B/W VF>

MODE PIN NO.	EE
IC7001	
1	3.0
2	3.0
3	0
4	0
5	1.0
6	2.2
7	1.6
8	1.5
9	1.3
10	0
11	0
12	0
13	3.0
14	7.5
15	3.0
16	3.0
17	5.8
18	2.0
19	1.9
20	9.1
21	0
22	1.6
23	3.0
24	1.5
25	1.8
26	1.8
27	3.5
28	0
29	11.0
30	0
31	0
32	0
33	0
34	0
35	0
36	0.8
37	0
38	0

MODE PIN NO.	EE
39	0
40	11.2
41	0
42	0
43	3.0
44	3.0
45	1.5
46	0.6
47	0
48	0
Q7001	
1(E)	0.6
2(E)	1.2
3(B)	0
4(C)	0
5(B)	1.2
6(C)	1.2

<LCD BL>

MODE PIN NO.	EE
Q7501	
E	0
C	4.4
B	0.4
Q7502	
E	0
C	4.4
B	0.4
Q7503	
E	4.6
C	4.5
B	0
Q7504	
E	0
C	0
B	0.6

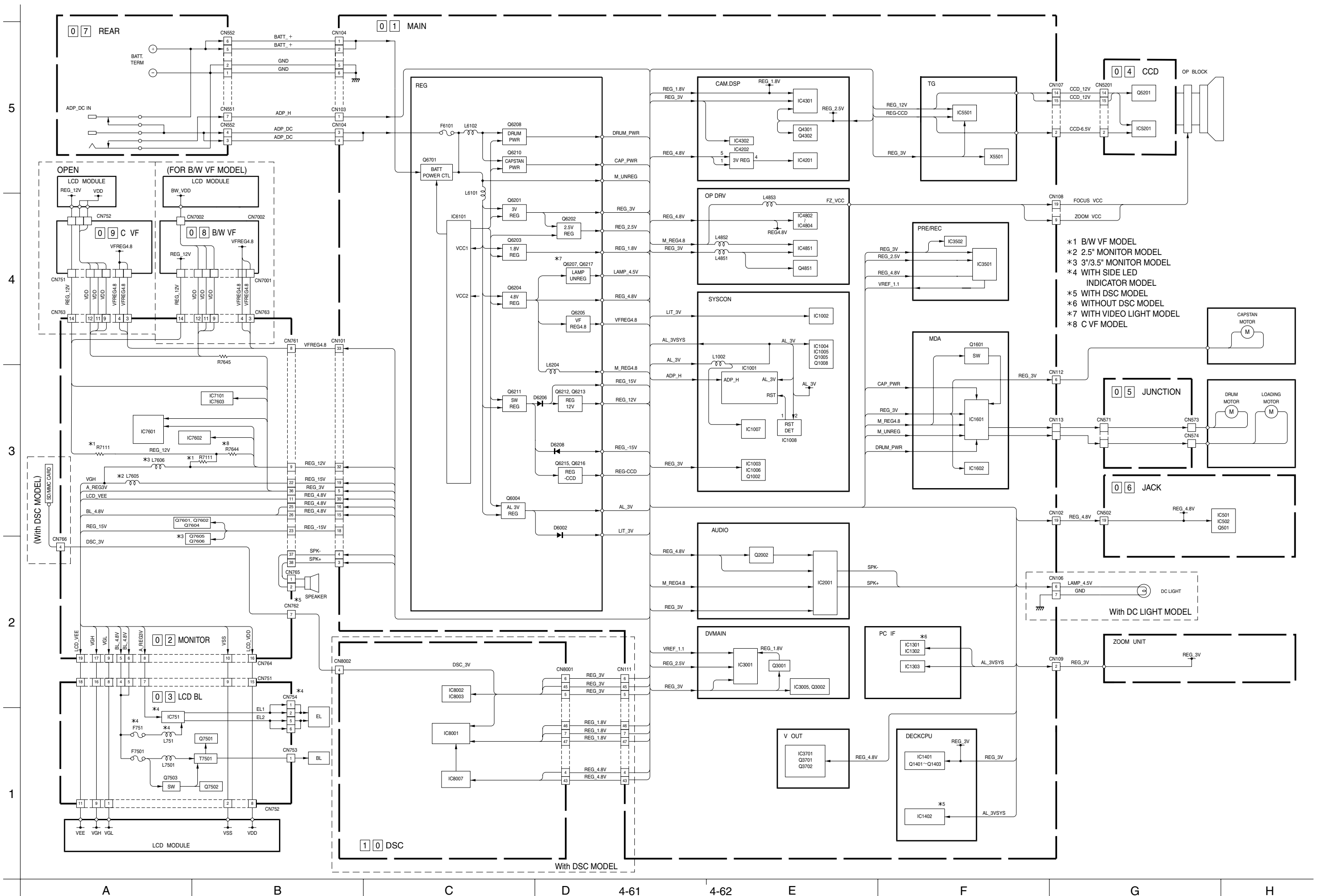
<MONITOR>

MODE PIN NO.	EE
IC7101	-
IC7601	
1	2.5
2	7.2
3	2.4
4	2.4
5	2.4
6	2.4
7	2.4
8	2.4
9	2.4
10	12.0
11	0
12	5.8
13	6.0
14	6.1
15	6.0
16	6.1
17	6.0
18	6.1

MODE PIN NO.	EE
19	6.1
20	1.6
21	1.5
22	1.5
23	1.2
24	0.4
25	0
26	0
27	0.8
28	1.4
29	0
30	0.7
31	0
32	0.5
33	0
34	1.5
35	0
36	3.0
37	0
38	0
39	3.0
40	0.7
41	1.5
42	3.0
43	3.1
44	0
45	3.0
46	2.8
47	2.5
48	2.5
IC7602	
1	11.8
2	1.7
3	1.9
4	0
5	4.8
6	4.8
7	7.2
8	12.0
IC7603	
1	3.0
2	0.7
3	3.0
4	0
5	0.7
6	3.0
7	3.1
8	3.0
IC7604	
1	0
2	3.0
3	2.4
4	0.4
5	3.0
6	0
7	0
8	0
9	0.5
10	0
11	0
12	0
13	0
14	3.0

MODE PIN NO.	EE
Q7101	
E	0
C	0
B	1.1
Q7102	-
Q7601	
E	-9.1
C	0
B	-8.6
Q7602	
E	-8.1
C	-15.3
B	-8.6
Q7603	
E	-8.6
C	-0.5
B	-8.1
Q7604	
E	-8.6
C	-14.7
B	-9.1
Q7608	
E	0
C	0
B	3.0
Q7609	
E	0
C	4.7
B	0
Q7610	
E	4.8
C	1.2
B	4.8

4.29 POWER SYSTEM BLOCK DIAGRAM



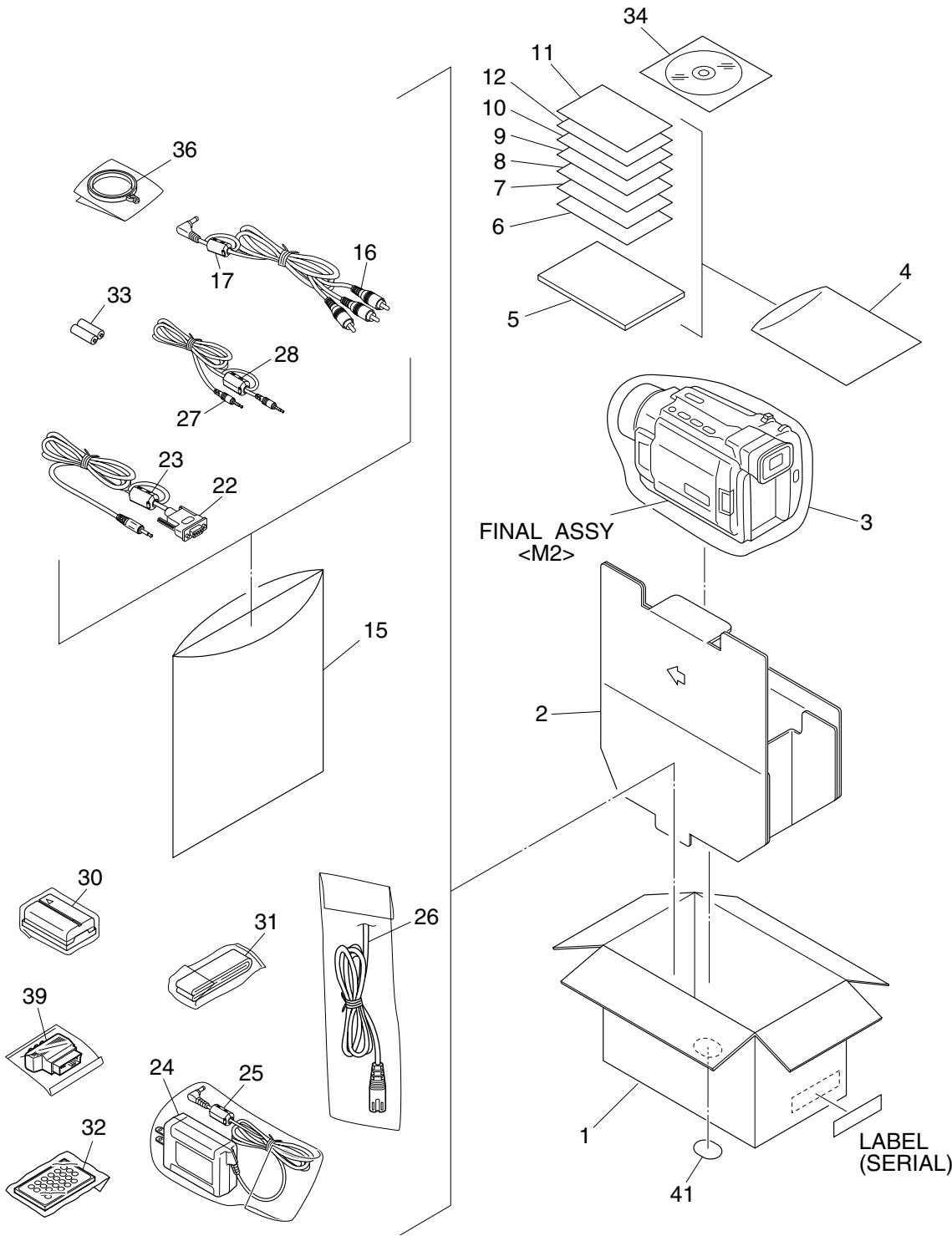
SECTION 5
PARTS LIST

SAFETY PRECAUTION

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

5.1 PACKING AND ACCESSORY ASSEMBLY <M1>

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



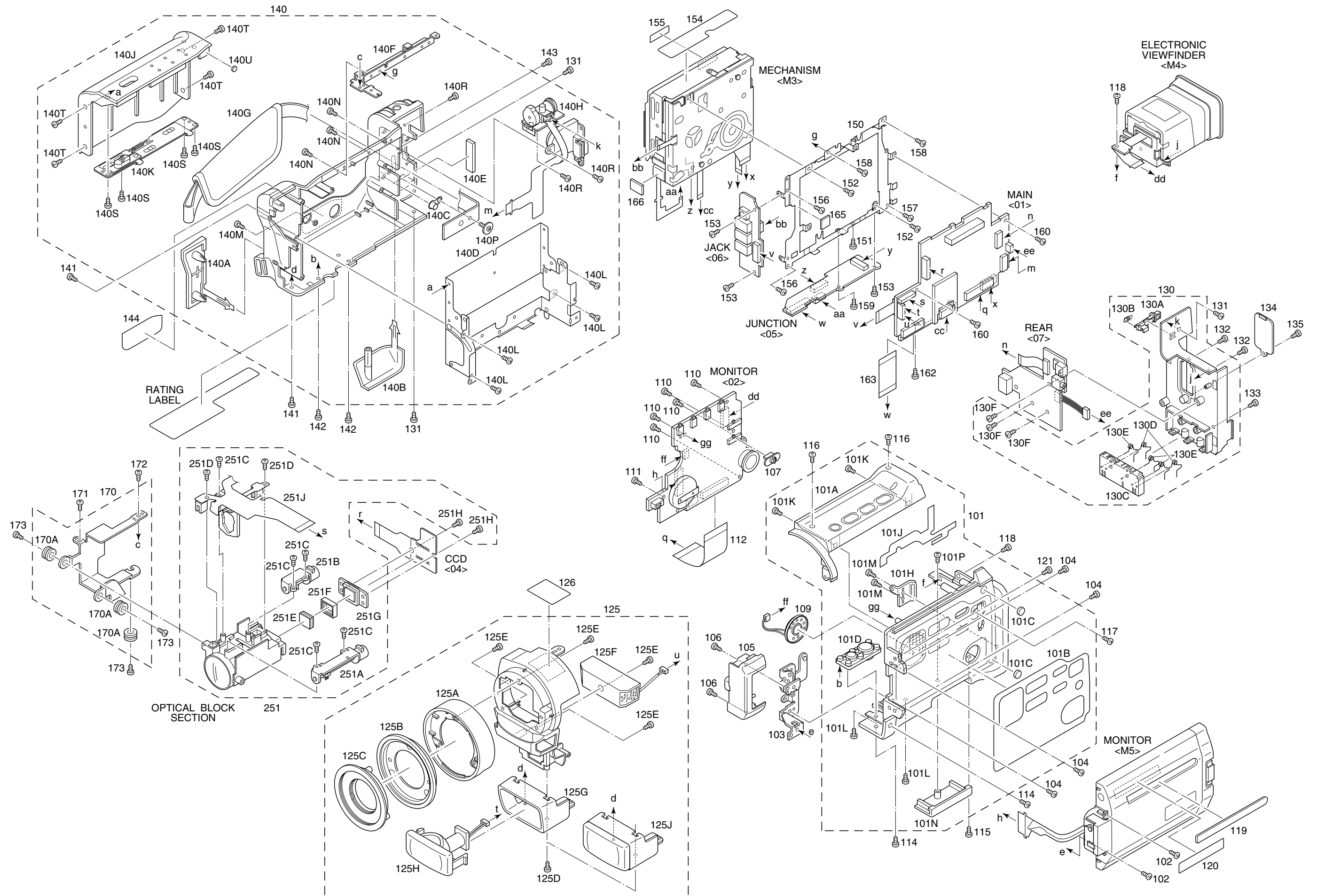
#	△ REF No.	PART No.	PART NAME, DESCRIPTION

PACKING AND ACCESSORY ASSEMBLY <M1>			
1		LY32567-001B	PACKING CASE,D,E
		LY32567-002A	PACKING CASE,A
		LY32567-020A	PACKING CASE,B,C
2		LY32568-001A	CUSHION
3		LY30023-008A	POLY BAG
4		QPA02003506	POLY BAG,A,B,D
		YQM30061-3	POLY BAG,C,E
△ 5		LYT0909-002A	INST.BOOK(GE),B,D
△		LYT0909-003A	INST.BOOK(FR),B,D
△		LYT0909-004A	INST.BOOK(DU),B,D
△		LYT0909-005A	INST.BOOK(SP),B,D
△		LYT0909-006A	INST.BOOK(IT),B,D
△		LYT0910-001A	INST.BOOK(EN),C
△		LYT1000-001A	INST.BOOK(EN),E
△		LYT1002-002A	INST.BOOK(GE),A
△		LYT1002-003A	INST.BOOK(FR),A
△		LYT1002-004A	INST.BOOK(DU),A
△		LYT1002-005A	INST.BOOK(SP),A
△		LYT1002-006A	INST.BOOK(IT),A
△ 6		LYT0873-001B	INST.BOOK(SOFT.EN),E
△		LYT0873-002A	INST.BOOK(SOFT.GE),D
△		LYT0873-003B	INST.BOOK(SOFT.FR),D
△		LYT0873-004A	INST.BOOK(SOFT.DU),D
△		LYT0873-005B	INST.BOOK(SOFT.SP),D
△		LYT0873-006A	INST.BOOK(SOFT.IT),D
7		LYT0934-001A	SHEET(AGREMENT),D
8		LYT0194-001B	Q.CARD(JUK),C,E
9		BT-54013-2	WARRANTY CARD,A,B,D
10		BT-54008-2	GUARANTY CARD,C,E
11		LYT0867-001A	PAMPHLET(EK),C,E
12		LYT0974-001A	SHEET(ATT.),D,E
15		QPA01703005	POLY BAG
16		QAM0212-001	CABLE ASSY,AUDIO/VIDEO CABLE
17		QQR0918-002	CORE FILTER
22		QAM0084-001	PC CONNECTION CABLE,D,E
23		QQR0491-002	CORE FILTER,D,E
△ 24		LY20847-001C	AC ADAPTER,AP-V12EG
25		QQR0490-002	CORE FILTER
△ 26		QMPL120-190-JR	POWER CORD,A,B,D
△		QMPP110-190-JR	POWER CORD,C,E
27		QAM0214-001	RM(EDITING)CABLE,B,C,D,E
28		QQR0491-002	CORE FILTER,B,C,D,E
△ 30		LY32566-001A	BATTERY PACK,BN-V408U-B
31		LY20186-001A	SHOULDER STRAP
32		LY20750-001A	REMOTE CONTROL UNIT,RM-V717U,B,C,D,E
33		-	BATTERY,AAA(R03),X2,B,C,D,E
34		LY32210-022A	CD ROM ASSY,D,E
36		LY43294-002A	CAP(HOOD)ASSY
39		QAM0302-001	ADAPTOR PLUG
41		LY43496-001A	STICKER(EK),C,E

MODEL	MARK
GR-DVL155EG-X	A
GR-DVL160EG-X	B
GR-DVL160EK	C
GR-DVL167EG-X	D
GR-DVL167EK	E

- INSTRUCTIONS
- GE GERMAN
- FR FRENCH
- DU DUTCH
- SP SPANISH
- IT ITALIAN
- EN ENGLISH

5.2 FINAL ASSEMBLY <M2>

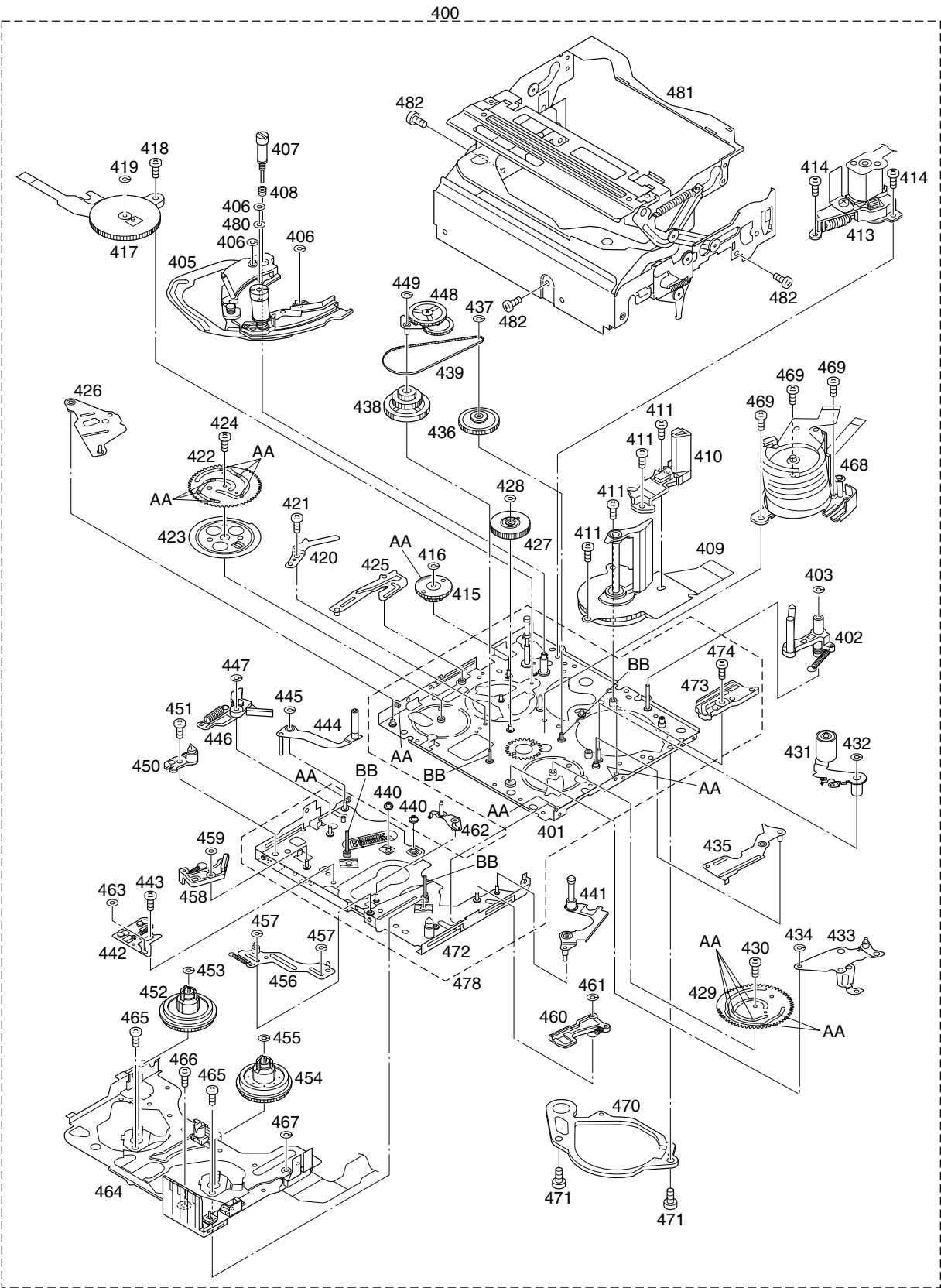


#	△	REF No.	PART No.	PART NAME, DESCRIPTION

FINAL ASSEMBLY <M2>				
101		LY20774-001B	UPPER CASE(2.5)ASSY,B,C,D,E	
		LY20774-002B	UPPER CASE(2.5)ASSY,A	
101A		LY20775-001A	TOP COVER(2.5)	
101B		LY32371-002A	PLATE(UPPER),B,C,D,E	
		LY32371-004A	PLATE(UPPER),A	
101C		LY40664-001A	SPACER,X2	
101D		LY31019-001A	BASE	
101H		LY43261-001A	HOOK(UPPER)	
101J		LY43540-001A	EARTH SHEET(2.5)	
101K		LY30018-023A	SPECIAL SCREW,X2	
101L		LY30018-084A	SPECIAL SCREW,X2	
101M		LY30018-084A	SPECIAL SCREW,X2	
101N		LY32376-001A	COVER(SD)DUMMY	
101P		LY30018-023A	SPECIAL SCREW	
102		LY30018-0D6A	SPECIAL SCREW,X2	
103		LY32373-001A	BRACKET(MONITOR)	
104		LY30018-066A	SPECIAL SCREW,X4	
105		LY20777-001A	COVER(HINGE)	
106		LY30018-047A	SPECIAL SCREW,X2	
107		LY43263-001A	KNOB(SLIDE),B,C,D,E	
109		QAS0048-001	SPEAKER	
110		LY30018-023A	SPECIAL SCREW,X5	
111		LY30018-047A	SPECIAL SCREW	
112		QUQ105-4007AA	FFC WIRE,CN761-MAIN CN101	
114		LY30018-084A	SPECIAL SCREW,X2	
115		LY30018-084A	SPECIAL SCREW	
116		LY30018-047A	SPECIAL SCREW,X2	
117		LY30018-047A	SPECIAL SCREW	
118		LY30018-064A	SPECIAL SCREW,X2	
119		LY32378-009A	WINDOW(MONI2.5)	
120		LY43566-002A	STICKER(SIDE),D,E	
		LY43566-004A	STICKER(SIDE),A,B,C	
121		LY30018-084A	SPECIAL SCREW	
125		LY32382-003A	FRONT COVER ASSY,B,C,D,E	
		LY32382-005A	FRONT COVER ASSY,A	
125A		LY32383-001A	HOOD	
125B		LY32384-001A	RING	
125C		LY32385-001A	HOOD(SCREW)	
125D		LY30018-084A	SPECIAL SCREW	
125E		LY30018-0A7A	SPECIAL SCREW,X4	
125F		LY32343-001A	MICROPHONE	
125G		LY32388-001A	BASE(LIGHT),B,C,D,E	
125H		LY32338-001A	DC LIGHT ASSY,B,C,D,E	
125J		LY32410-002A	COVER(LIGHT),A	
126		LY43567-001A	STICKER(TOP)	
130		LY10317-001A	REAR UNIT	
130A		LY32408-001A	KNOB(BATT.RELE)	
130B		LY30001-018A	TENSION SPRING	
130C		LY32409-001A	TERMINAL BASE	
130D		LY43291-001A	TERMINAL(R),X2	
130E		LY43290-001A	TERMINAL(L),X3	
130F		LY30018-084A	SPECIAL SCREW,X3	
131		LY30018-084A	SPECIAL SCREW,X3	
132		LY30018-0C9A	SPECIAL SCREW,X2	
133		LY30018-0C9A	SPECIAL SCREW	
134		LY41691-001A	COVER(JIG),B,C,D,E	
		LY41691-002A	COVER(JIG),A	
135		LY30018-037A	SPECIAL SCREW	
140		LY20769-002B	LOWER CASE ASSY	

#	△	REF No.	PART No.	PART NAME, DESCRIPTION
140A		LY32363-001A	COVER(JACK)	
140B		LY32364-001A	COVER(DC)	
140C		LY40592-001A	CAP(GRIP BELT)	
140D		LY20770-001A	ARM ASSY	
140E		LY30029-0T9A	SPACER(A),B,C,D,E	
140F		LY32365-001A	PLATE	
140G		LY20780-001A	GRIP BELT	
140H		LY10304-001A	ZOOM UNIT	
140J		LY10309-001A	CASSETTE COVER	
140K		LY43254-001B	LOCK ASSY	
140L		LY30018-084A	SPECIAL SCREW,X4	
140M		LY30018-038A	SPECIAL SCREW	
140N		LY30018-038A	SPECIAL SCREW,X3	
140P		LY30018-0D1A	SPECIAL SCREW	
140R		LY30018-084A	SPECIAL SCREW,X3	
140S		LY30018-023A	SPECIAL SCREW,X4	
140T		LY30018-038A	SPECIAL SCREW,X4	
140U		LY43609-001A	SPACER(B)	
141		LY30018-084A	SPECIAL SCREW,X2	
142		LY30018-084A	SPECIAL SCREW,X2	
143		LY30018-0C9A	SPECIAL SCREW	
144		LY43256-001A	PLATE(ADJUST)	
150		LY20778-001A	BRACKET(MECHA)	
151		YQ43893-4	MINI SCREW	
152		LY30019-026A	SPECIAL SCREW,X2	
153		QYSPSPT1730R	SCREW,X3	
154		LY40698-002A	LABEL(HOUSING)	
155		LY40699-002A	LABEL(PUSH)	
156		LY30018-084A	SPECIAL SCREW,X2	
157		LY30018-066A	SPECIAL SCREW	
158		LY30018-066A	SPECIAL SCREW,X2	
159		LY30018-038A	SPECIAL SCREW	
160		LY30019-038A	SPECIAL SCREW,X2	
162		YQ43893-4	MINI SCREW	
163		WJT0066-001A	E-CARD WIRE,,MAIN CN113-JUNC CN571	
165		LY30029-0V6A	SPACER(A)	
166		LY30029-0X1A	SPACER(A)	
170		LY43257-001B	BRACKET(OP)ASSY	
170A		LY42796-001A	BUSH,X3	
171		LY30018-084A	SPECIAL SCREW	
172		LY30018-066A	SPECIAL SCREW	
173		LY30019-029B	SPECIAL SCREW,X3	
- OPTICAL BLOCK SECTION -				
251		J7A-253A	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		LY31639-003A	SPACER RUBBER	
251G		LYH30375-004A	CCD BASE ASSY	
251H		QYSPSGU1750Z	SCREW,X2	
251J		LY32560-001A	IRIS MOTOR	

5.3 MECHANISM ASSEMBLY <M3>

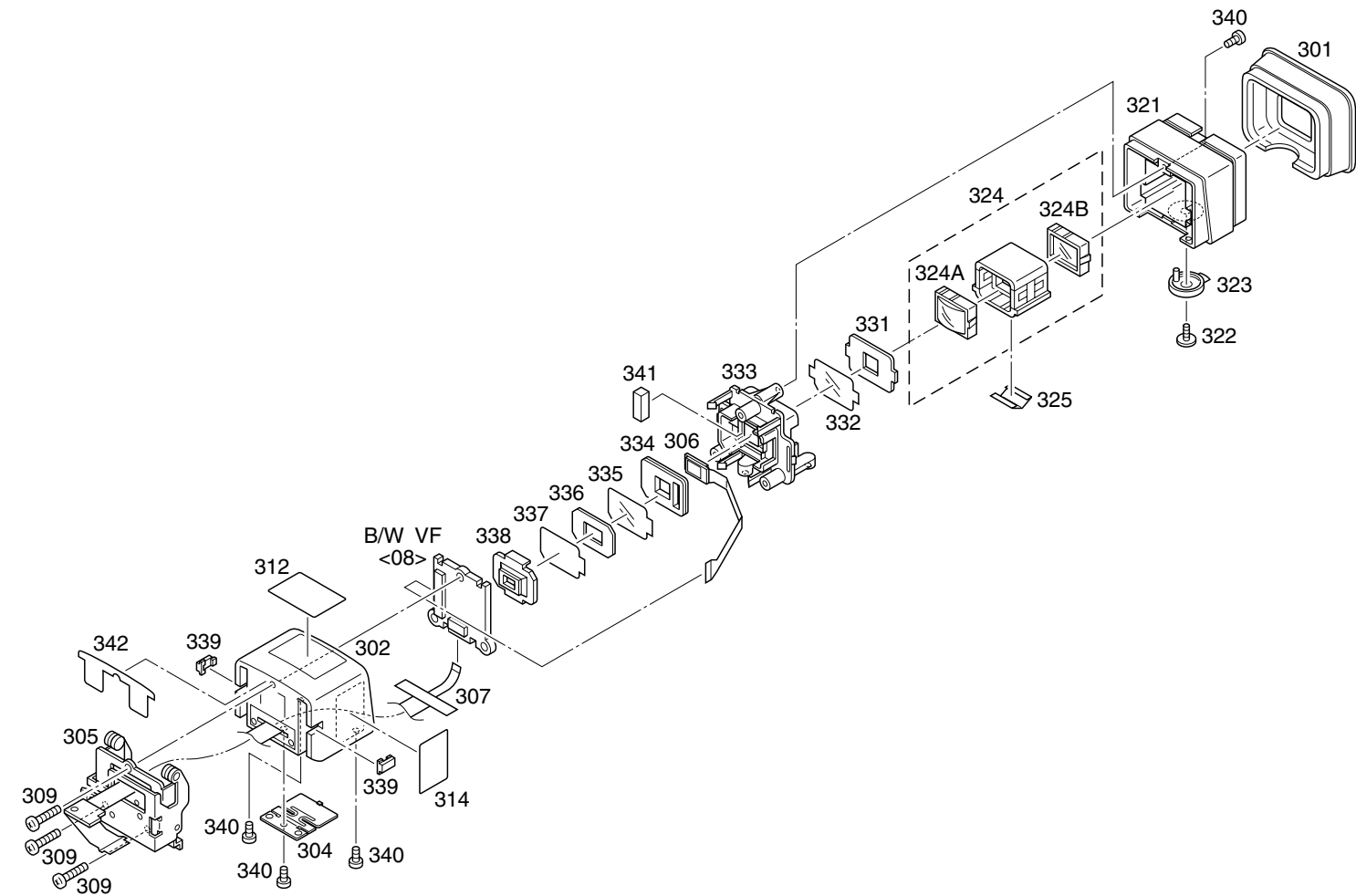


Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-P	AA
Oil	YTU94027	BB

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

#	△	REF No.	PART No.	PART NAME, DESCRIPTION	#	△	REF No.	PART No.	PART NAME, DESCRIPTION
*****					461		YQ44246		SLIT WASHER
					462		LY31863-001B		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		YDV2086R(CX)		DRUM ASSY
					469		YQ43893		MINI SCREW,X3
					470		LY20630-001A		PWB HOLDER
					471		YQ43893		MINI SCREW,X2
					472		LY10242-001A		SLIDE DECK ASSY
					473		LY31833-001A		LOADING GUIDE
					474		YQ43893		MINI SCREW
					478		LY31832-001D		DECK ASSY
					480		LY41573-001A		WASHER
					481		LY31867-001B		CASSETTE HOUSING ASSY
					482		YQ43893-4		MINI SCREW,X3
MECHANISM ASSEMBLY <M3>									
400		YMA0025UCC/E		MECHA(A)ASSY					
401		LY10240-001D		MAIN DECK ASSY					
402		LY30436-001J		SLANT POLE ARM ASSY					
403		YQ44246		SLIT WASHER					
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		LY30448-001E		MOTOR BRACKET ASSY					
414		YQ43893		MINI SCREW,X2					
415		LY31840-001A		WORM WHEEL					
416		YQ44246		SLIT WASHER					
417		LY40496-001C		ROTARY ENCODER					
418		YQ43893		MINI SCREW					
419		YQ44246		SLIT WASHER					
420		LY42632-001A		GEAR HOLDER					
421		YQ43893-6		MINI SCREW					
422		LY31841-001A		MAIN CAM					
423		LY31842-001A		BRAKE CONTROL PLATE					
424		YQ43893		MINI SCREW					
425		LY42633-001A		TAKE UP CONTROL LEVER ASSY					
426		LY31844-001A		SLIDE LEVER ASSY					
427		LY31846-001A		CONNECT GEAR					
428		YQ44246		SLIT WASHER					
429		LY31847-001A		SUB CAM					
430		YQ43893		MINI SCREW					
431		LY31785-001A		PINCHI ROLLER ARM UNIT					
432		YQ44246		SLIT WASHER					
433		LY31850-001A		CHARGE ARM ASSY					
434		YQ44246		SLIT WASHER					
435		LY42643-001A		BRAKE CONTROL LEVER ASSY					
436		LY42645-001A		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		LY31854-001A		GUIDE ARM ASSY					
442		LY31786-001A		SLIDE GUIDE PLATE UNIT					
443		YQ43893-2		MINI SCREW					
444		LY42651-001B		TENSION ARM ASSY					
445		YQ44246		SLIT WASHER					
446		LY30471-001D		PAD ARM ASSY					
447		YQ44246		SLIT WASHER					
448		LY42745-001A		IDLER ARM ASSY					
449		YQ44246-2		SLIT WASHER					
450		LY31861-001A		GUIDE PIN(SUPPLY)					
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		LY31788-001A		CONTROL PLATE UNIT					
457		YQ44246		SLIT WASHER,X2					
458		LY40444-001E		LOADING BRAKE ASSY					
459		YQ44246		SLIT WASHER					
460		LY40452-001C		SUB BRAKE ASSY					

5.4 ELECTRONIC VIEWFINDER ASSEMBLY <M4>



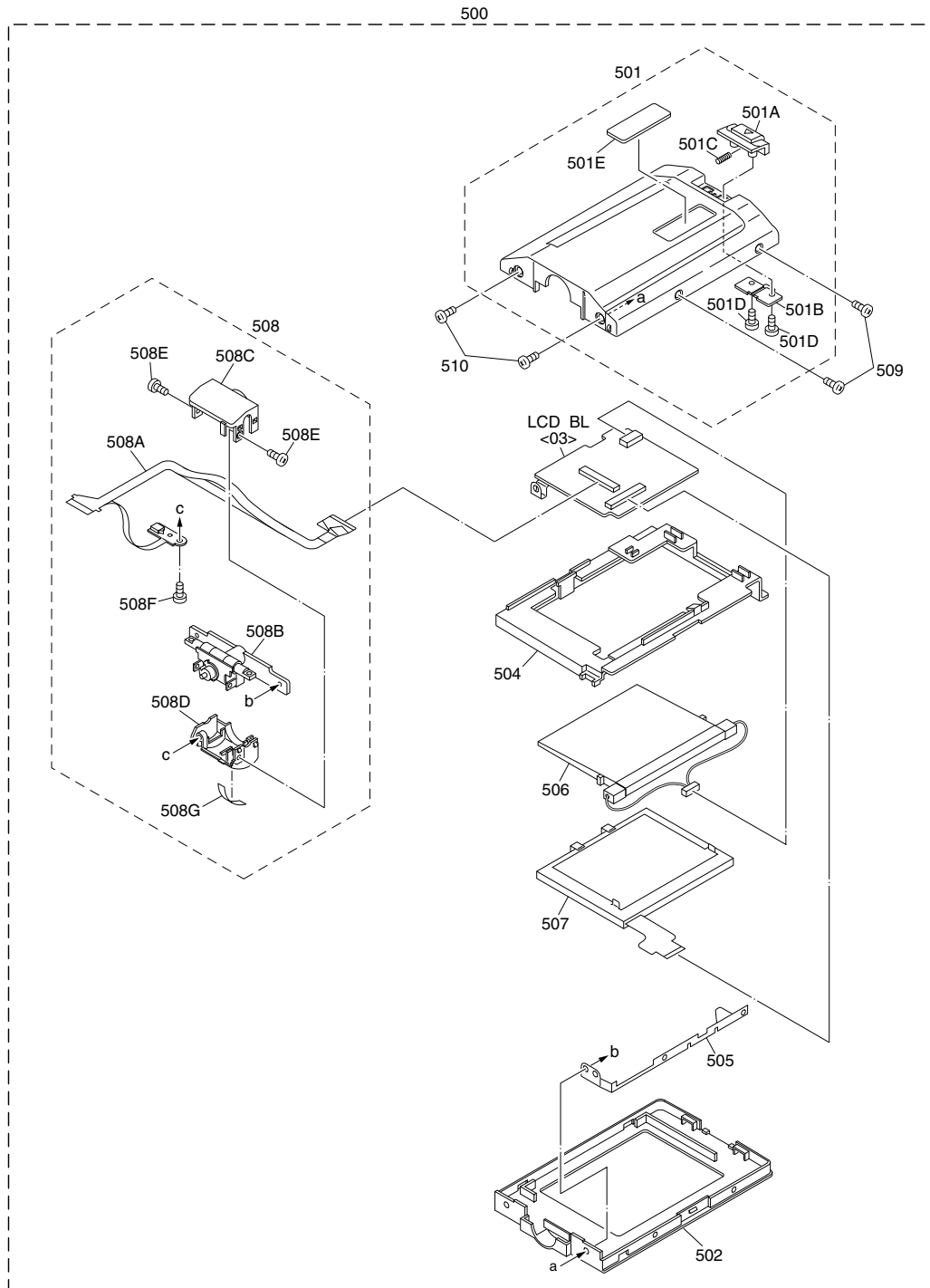
△ REF No. PART No. PART NAME, DESCRIPTION

ELECTRONIC VIEWFINDER ASSEMBLY <M4>

301	LY32349-001A	EYE CUP
302	LY20766-001A	CASE A(VF)
304	LY32351-001A	CAP(VF)
305	LY20824-001B	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	LY20767-001A	CASE B(VF)
322	LY30019-037A	SPECIAL SCREW
323	LY43231-001A	LEVER(VF)

# △ REF No.	PART No.	PART NAME, DESCRIPTION
324	LY32472-001A	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	LY32347-001B	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)

5.5 MONITOR ASSEMBLY <M5>



△ REF No. PART No. PART NAME, DESCRIPTION

MONITOR ASSEMBLY <M5>

500	LYH20246-036A	MONITOR ASSY
501	LY20808-001A	MONITOR COVER(2.5)ASSY
501A	LY31620-004A	KNOB(LOCK 1)
501B	LY42180-002A	KNOB(LOCK 2)
501C	LY30002-044A	COMPRESSION SPRING
501D	LY30018-084A	SPECIAL SCREW,X2
501E	LY42883-001A	MARK
502	LY10264-001A	MONITOR CASE(2.5)
504	LY20674-001A	HOLDER(2.5)
505	LY31622-001A	BRACKET(EARTH)

△ REF No. PART No. PART NAME, DESCRIPTION

506	QLL0093-001	BACK LIGHT
507	QLD0154-001	LCD MODULE
508	LY32695-001A	MONITOR FPC ASSY
508A	LY32574-001A	MONITOR FPC ASSY
508B	LY32079-001A	HINGE ASSY
508C	LY32380-001A	HINGE COVER(U)
508D	LY32381-001A	HINGE COVER(L)
508E	LY30018-058A	SPECIAL SCREW,X2
508F	LY30018-023A	SPECIAL SCREW
508G	LY30029-0Q5A	SPACER(A)
509	QYSPSPT1730R	SCREW,X2
510	LY30018-0F2A	SPECIAL SCREW,X2

5.6 ELECTRICAL PARTS LIST

MODEL	MARK	MODEL	MARK
GR-DVL155EG-X	A	GR-DVL167EG-X	D
GR-DVL160EG-X	B	GR-DVL167EK	E
GR-DVL160EK	C		

△ REF No. PART No. PART NAME, DESCRIPTION

MAIN BOARD ASSEMBLY <01>

PW	YB10359PA-03	MAIN BOARD ASSY,D,E
	YB10359PE-03	MAIN BOARD ASSY,A
	YB10359PC-03	MAIN BOARD ASSY,B,C
IC1001	UPD703039F1-A25	IC(MICRO C ROM)
	or UPD70F3040F1A25	IC(MICRO C ROM)
IC1002	RS5C314	IC
IC1003	X25170S8I-2.5-X	IC
	or 25LC160-I/SN-X	IC
	or AT25160N-10SC-X	IC
	or CAT25C16SI	IC
IC1004	TC75S56FU	IC
IC1005	TC7S00FU	IC
	or SN74AHC1G00K	IC
IC1006	MB90097PFV145	IC(MICRO C ROM)
IC1007	TC74VHC08FT	IC(DIGITAL)
	or SN74LV08APW	IC
IC1008	IC-PST3423U-X	IC
IC1301	SN74LV08APW	IC
IC1302	MAX3221CAE	IC
	or ICL3221CA	IC
IC1303	SN74LV02APW	IC
IC1401	UPD703040YF-M06	IC(MICRO C ROM),D,E
	UPD703040YF-M09	IC(MICRO C ROM),A,B,C
	or UPD70F3040YFM09	IC(MICRO C ROM),A,B,C
	or UPD70F3040YFM06	IC(MICRO C ROM),D,E
IC1402	TC7W66FU	IC(DIGITAL)
	or SN74AHC2G66T	IC
△ IC1601	BD6631KV	IC
IC1602	TC7W14FU	IC(DIGITAL)
	or SN74AHC2G14T	IC
IC2001	AK4560AVQ	IC
IC3001	JCY0152	IC
IC3005	JCY0136	IC
IC3501	JCY0132	IC
IC3502	SN74AHC1G04K	IC
IC3701	BA7665FS	IC
IC4201	HD49334F	IC
IC4202	MM1385HN	IC
IC4301	JCY0150	IC
IC4302	TMS4C2973-28-X	IC
IC4802	TA75W01FU	IC
IC4803	TA75W01FU	IC
IC4804	LM358DR2	IC
IC4851	UPD16879GS	IC
IC5501	JCY0117	IC
IC6001	S-80842ANNP-W	IC
	or S-80842CNNB-W	IC
IC6101	FA3698F	IC
Q1001	DTC124EE	DIGI TRANSISTOR
	or UN9212J	DIGI TRANSISTOR
Q1002	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q1003	DTC143EE	DIGI TRANSISTOR
	or UN921LJ	DIGI TRANSISTOR
Q1005	2SJ347	MOS FET
Q1006	DTA114EE	DIGI TRANSISTOR
	or PDTA114EE	DIGI TRANSISTOR
	or UN9111J	DIGI TRANSISTOR
Q1007	DTC144EE	DIGI TRANSISTOR

△ REF No. PART No. PART NAME, DESCRIPTION

	or PDTC144EE	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q1008	DTA114EE	DIGI TRANSISTOR
	or PDTA114EE	DIGI TRANSISTOR
	or UN9111J	DIGI TRANSISTOR
Q1009	DTC144EE	DIGI TRANSISTOR
	or PDTC144EE	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q1301	2SC4617/QR/-X	TRANSISTOR
	or 2SD2216J/QR/-X	TRANSISTOR
Q1401	DTA114EE	DIGI TRANSISTOR
	or PDTA114EE	DIGI TRANSISTOR
	or RN2102	DIGI TRANSISTOR
	or UN9111J	DIGI TRANSISTOR
Q1402	UMC3N	DIGI TRANSISTOR
Q1403	UMC3N	DIGI TRANSISTOR
Q1601	UMC3N	DIGI TRANSISTOR
Q2001	UMX1N	PAIR TRANSISTOR
Q2002	2SC4617/RS/-X	TRANSISTOR
	or 2SD2216J/RS/-X	TRANSISTOR,B,C,D,E
Q3001	2SC4617/RS/-X	TRANSISTOR
Q3002	2SC4617/RS/-X	TRANSISTOR
Q3701	UMT2N	PAIR TRANSISTOR
	or XP6401	TRANSISTOR
Q3702	UMZ1N	PAIR TRANSISTOR
	or XP4601	TRANSISTOR
Q4301	UMT2N	PAIR TRANSISTOR
	or XP6401	TRANSISTOR
Q4302	UMT2N	PAIR TRANSISTOR
	or XP6401	TRANSISTOR
Q4801	2SC4655/BC/-X	TRANSISTOR
Q4806	2SC4617/QR/-X	TRANSISTOR
Q4851	2SC4617/RS/-X	TRANSISTOR
Q6001	DTC144EE	DIGI TRANSISTOR
	or PDTC144EE	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q6002	MCH6613	MOS FET
Q6004	2SB1188/QR/-W	TRANSISTOR
Q6201	MCH3308	MOS FET
Q6202	2SA1577/RS/-X	TRANSISTOR
Q6203	MCH3308	MOS FET
Q6204	CPH3314	MOS FET
Q6205	CPH3101	TRANSISTOR
Q6206	2SC4617/RS/-X	TRANSISTOR
Q6207	2SD2444K	TRANSISTOR,B,C,D,E
Q6208	MCH3308	MOS FET
Q6210	MCH3308	MOS FET
Q6211	MCH3308	MOS FET
Q6212	HN1C01FU/G/-X	PAIR TRANSISTOR
	or PUMX1	PAIR TRANSISTOR
	or UMX1N	PAIR TRANSISTOR
Q6213	2SA1577/RS/-X	TRANSISTOR
Q6214	DTC144EE	DIGI TRANSISTOR
	or PDTC144EE	DIGI TRANSISTOR
	or RN1104	DIGI TRANSISTOR
	or UN9213J	DIGI TRANSISTOR
Q6215	HN1A01FU/G/-X	PAIR TRANSISTOR
	or PUMT1	PAIR TRANSISTOR
	or UMT1N	PAIR TRANSISTOR
Q6216	2SC4617/RS/-X	TRANSISTOR
Q6217	UMZ1N	PAIR TRANSISTOR,B,C,D,E
Q6701	CPH3314	MOS FET

#  REF No.	PART No.	PART NAME, DESCRIPTION	#  REF No.	PART No.	PART NAME, DESCRIPTION
D1001	DA221	DIODE	R1053	NRSA6AJ-154W	MG RESISTOR 150kΩ, 1/16W
D1301	1SS376	DIODE	R1054	NRSA6AJ-473W	MG RESISTOR 47kΩ, 1/16W
D1302	1SS376	DIODE	R1055	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W
D1602	DAP222	DIODE	R1056	NRSA6AJ-472W	MG RESISTOR 4.7kΩ, 1/16W
D1603	DAP222	DIODE	R1057	NRSA6AJ-473W	MG RESISTOR 47kΩ, 1/16W
D1604	DAP222	DIODE	R1058	NRSA6AJ-222W	MG RESISTOR 2.2kΩ, 1/16W
D3001	EC2C01C	VARI CAP DIODE	R1059	NRSA6AJ-0R0W	MG RESISTOR 0Ω, 1/16W
D3002	EC2C01C	VARI CAP DIODE	R1060	NRSA6AJ-473W	MG RESISTOR 47kΩ, 1/16W
D3003	EC2C01C	VARI CAP DIODE	R1066	NRSA6AJ-473W	MG RESISTOR 47kΩ, 1/16W
D3004	MA2Z720	SB DIODE	R1071	NRSA6AJ-474W	MG RESISTOR 470kΩ, 1/16W
D5501	1SS355	DIODE	R1072	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W
 D6002	RB715F	SB DIODE	R1076	NRSA6AJ-0R0W	MG RESISTOR 0Ω, 1/16W
D6201	CRS01	SB DIODE	R1077	NRSA6AJ-0R0W	MG RESISTOR 0Ω, 1/16W
D6202	CRS01	SB DIODE	R1078	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W
D6203	CRS01	SB DIODE	R1079	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W
D6204	CRS01	SB DIODE	R1080	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W
D6205	CRS01	SB DIODE	R1081	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W
D6206	RB480Y	SB DIODE	R1082	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W
D6207	UDZS9.1B	ZENER DIODE	R1083	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W
D6208	RB480Y	SB DIODE	R1302	NRSA6AJ-472W	MG RESISTOR 4.7kΩ, 1/16W
D6701	EP10HY03	SB DIODE	R1306	NRSA6AJ-472W	MG RESISTOR 4.7kΩ, 1/16W
D6702	EP10HY03	SB DIODE	R1401	NRSA6AJ-105W	MG RESISTOR 1MΩ, 1/16W
R101	NRSA63J-0R0X	MG RESISTOR 0Ω, 1/16W	R1402	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W
R102	NRSA63J-0R0X	MG RESISTOR 0Ω, 1/16W	R1403	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W
R1001	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W	R1404	NRSA6AJ-472W	MG RESISTOR 4.7kΩ, 1/16W
R1002	NRSA6AJ-224W	MG RESISTOR 220kΩ, 1/16W	R1405	NRSA6AJ-332W	MG RESISTOR 3.3kΩ, 1/16W
R1003	NRSA6AJ-472W	MG RESISTOR 4.7kΩ, 1/16W	R1406	NRSA6AJ-332W	MG RESISTOR 3.3kΩ, 1/16W
R1004	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W	R1407	NRSA6AJ-332W	MG RESISTOR 3.3kΩ, 1/16W
R1005	NRSA6AJ-153W	MG RESISTOR 15kΩ, 1/16W	R1408	NRSA6AD-753W	MG RESISTOR 75kΩ, 1/16W
R1006	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W	R1409	NRSA6AJ-334W	MG RESISTOR 330kΩ, 1/16W
R1007	NRSA6AJ-334W	MG RESISTOR 330kΩ, 1/16W	R1411	NRSA6AJ-332W	MG RESISTOR 3.3kΩ, 1/16W
R1008	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W	R1412	NRSA6AJ-332W	MG RESISTOR 3.3kΩ, 1/16W
R1009	NRSA6AJ-561W	MG RESISTOR 560Ω, 1/16W	R1413	NRSA6AJ-332W	MG RESISTOR 3.3kΩ, 1/16W
R1010	NRSA6AJ-561W	MG RESISTOR 560Ω, 1/16W	R1414	NRSA6AJ-332W	MG RESISTOR 3.3kΩ, 1/16W
R1015	NRSA6AJ-474W	MG RESISTOR 470kΩ, 1/16W	R1417	NRSA6AJ-101W	MG RESISTOR 100Ω, 1/16W
R1016	NRSA6AJ-473W	MG RESISTOR 47kΩ, 1/16W	R1420	NRSA6AJ-473W	MG RESISTOR 47kΩ, 1/16W
R1017	NRSA6AJ-561W	MG RESISTOR 560Ω, 1/16W	R1421	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W
R1018	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W	R1422	NRSA6AJ-153W	MG RESISTOR 15kΩ, 1/16W
R1019	NRSA6AJ-623W	MG RESISTOR 62kΩ, 1/16W	R1423	NRSA6AJ-820W	MG RESISTOR 82Ω, 1/16W
R1020	NRSA6AJ-331W	MG RESISTOR 330Ω, 1/16W	R1424	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W
R1021	NRSA6AJ-331W	MG RESISTOR 330Ω, 1/16W	R1425	NRSA6AJ-473W	MG RESISTOR 47kΩ, 1/16W
R1022	NRSA6AJ-331W	MG RESISTOR 330Ω, 1/16W	R1427	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W
R1023	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W	R1601	NRSA6AJ-681W	MG RESISTOR 680Ω, 1/16W
R1024	NRSA6AJ-823W	MG RESISTOR 82kΩ, 1/16W	R1602	NRSA6AJ-124W	MG RESISTOR 120kΩ, 1/16W
R1026	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W	R1603	NRSA6AJ-472W	MG RESISTOR 4.7kΩ, 1/16W
R1027	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W	R1604	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W
R1029	NRSA6AJ-473W	MG RESISTOR 47kΩ, 1/16W	R1605	NRV142F-R22X	CMF RESISTOR 0.22Ω, 1/4W
R1030	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W	R1609	NRV142F-R33X	CMF RESISTOR 0.33Ω, 1/4W
R1031	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W	R1610	NRSA6AJ-471W	MG RESISTOR 470Ω, 1/16W
R1032	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W	R1611	NRSA6AJ-471W	MG RESISTOR 470Ω, 1/16W
R1036	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W	R1612	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W
R1037	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W	R1613	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W
R1038	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W	R1614	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W
R1039	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W	R1615	NRSA6AJ-102W	MG RESISTOR 1kΩ, 1/16W
R1044	NRSA6AJ-123W	MG RESISTOR 12kΩ, 1/16W	R1616	NRSA6AJ-391W	MG RESISTOR 390Ω, 1/16W
R1045	NRSA6AJ-822W	MG RESISTOR 8.2kΩ, 1/16W	R1617	NRSA6AJ-683W	MG RESISTOR 68kΩ, 1/16W
R1046	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W	R1618	NRSA6AJ-683W	MG RESISTOR 68kΩ, 1/16W
R1047	NRSA6AJ-473W	MG RESISTOR 47kΩ, 1/16W	R1619	NRSA6AJ-393W	MG RESISTOR 39kΩ, 1/16W
R1048	NRSA6AJ-104W	MG RESISTOR 100kΩ, 1/16W	R1620	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W
R1049	NRSA6AJ-393W	MG RESISTOR 39kΩ, 1/16W	R1621	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W
R1050	NRSA6AJ-223W	MG RESISTOR 22kΩ, 1/16W	R1622	NRSA6AJ-103W	MG RESISTOR 10kΩ, 1/16W
R1051	NRSA6AJ-272W	MG RESISTOR 2.7kΩ, 1/16W	R1624	NRVA6AD-123W	CMF RESISTOR 12kΩ, 1/16W
R1052	NRSA6AJ-183W	MG RESISTOR 18kΩ, 1/16W	R1625	NRSA6AJ-181W	MG RESISTOR 180Ω, 1/16W

# △ REF No.	PART No.	PART NAME, DESCRIPTION		# △ REF No.	PART No.	PART NAME, DESCRIPTION	
R1626	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W	R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R1628	NRVA6AD-271W	CMF RESISTOR	270Ω,1/16W	R3016	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R1629	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W	R3017	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R1630	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W	R3018	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R1631	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W	R3019	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R1635	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W	R3020	NRVA6AD-512W	CMF RESISTOR	5.1kΩ,1/16W
R1636	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W	R3025	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1637	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W	R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2001	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W	R3029	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2004	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W	R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R2006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W	R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R2007	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W	R3032	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R2008	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W	R3033	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2009	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W	R3034	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2014	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W	R3036	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2015	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W	R3037	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R2016	NRSA6AJ-820W	MG RESISTOR	82Ω,1/16W	R3050	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2017	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W	R3051	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2018	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W	R3057	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2019	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W	R3059	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R2020	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W	R3066	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R2023	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W	R3067	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R2024	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W	R3068	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R2025	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W	R3069	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2028	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W	R3071	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2029	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W	R3074	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2103	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W	R3501	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R2104	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W	R3502	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2105	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W	R3503	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2106	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W	R3504	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R2107	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W	R3505	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R2108	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W	R3506	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R2109	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W	R3507	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R2110	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W	R3508	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2111	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W	R3511	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R2112	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W	R3521	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2113	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W	R3522	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2114	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W	R3701	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R2115	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W	R3702	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R2116	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W	R3703	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2117	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W	R3706	NRSA6AD-221W	MG RESISTOR	220Ω,1/16W
R2118	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W	R3707	NRSA6AD-221W	MG RESISTOR	220Ω,1/16W
R2119	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W	R3708	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2120	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W	R3711	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R2121	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W	R3712	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R2122	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W	R3713	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R2123	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W	R3714	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R2124	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W	R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2127	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W	R3717	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R2128	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W	R3718	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R2201	NRSA6AJ-122W	MG RESISTOR	1.2kΩ,1/16W	R3719	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2202	NRSA6AJ-122W	MG RESISTOR	1.2kΩ,1/16W	R3724	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W	R4202	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W	R4203	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3005	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W	R4205	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R3006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W	R4206	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W	R4207	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W	R4208	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W	R4301	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W	R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W	R4305	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ,1/16W	R4307	NRSA6AD-333W	MG RESISTOR	33kΩ,1/16W
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W	R4308	NRSA6AD-682W	MG RESISTOR	6.8kΩ,1/16W

#  REF No.	PART No.	PART NAME, DESCRIPTION		#  REF No.	PART No.	PART NAME, DESCRIPTION	
R4309	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R4856	NRSA63J-6R8X	MG RESISTOR	6.8Ω, 1/16W
R4311	NRSA6AD-272W	MG RESISTOR	2.7kΩ, 1/16W	R4857	NRSA63J-6R8X	MG RESISTOR	6.8Ω, 1/16W
R4312	NRSA6AD-272W	MG RESISTOR	2.7kΩ, 1/16W	R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ, 1/16W
R4313	NRSA6AD-272W	MG RESISTOR	2.7kΩ, 1/16W	R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4314	NRSA6AD-123W	MG RESISTOR	12kΩ, 1/16W	R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4315	NRSA6AD-103W	MG RESISTOR	10kΩ, 1/16W	R4862	NRSA63J-6R8X	MG RESISTOR	6.8Ω, 1/16W
R4316	NRSA6AD-131W	MG RESISTOR	130Ω, 1/16W	R4863	NRSA63J-6R8X	MG RESISTOR	6.8Ω, 1/16W
R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4318	NRSA6AJ-152W	MG RESISTOR	1.5kΩ, 1/16W	R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4319	NRSA6AD-131W	MG RESISTOR	130Ω, 1/16W	R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4320	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4321	NRSA6AJ-152W	MG RESISTOR	1.5kΩ, 1/16W	R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4322	NRSA6AD-131W	MG RESISTOR	130Ω, 1/16W	R4870	NRSA6AJ-271W	MG RESISTOR	270Ω, 1/16W
R4323	NRSA6AD-820W	MG RESISTOR	82Ω, 1/16W	R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4324	NRSA6AJ-152W	MG RESISTOR	1.5kΩ, 1/16W	R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4326	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5501	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4327	NRSA6AJ-152W	MG RESISTOR	1.5kΩ, 1/16W	R5503	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5504	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4329	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5505	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5506	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4336	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5507	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4337	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5509	NRSA6AJ-470W	MG RESISTOR	47Ω, 1/16W
R4338	NRSA6AJ-220W	MG RESISTOR	22Ω, 1/16W	R5510	NRSA6AJ-470W	MG RESISTOR	47Ω, 1/16W
R4339	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5511	NRSA6AJ-470W	MG RESISTOR	47Ω, 1/16W
R4340	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5512	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4341	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5513	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4343	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R5514	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4344	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R6001	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
R4346	NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W	R6002	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
R4347	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W	R6003	NRSA6AJ-224W	MG RESISTOR	220kΩ, 1/16W
R4348	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W	R6004	NRSA6AJ-183W	MG RESISTOR	18kΩ, 1/16W
R4349	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W	R6005	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W
R4350	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W	 R6009	NRSA63J-102X	MG RESISTOR	1kΩ, 1/16W
R4351	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W	R6010	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
R4804	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W	R6011	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R6012	NRVA6AD-104W	CMF RESISTOR	100kΩ, 1/16W
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ, 1/16W	R6013	NRVA6AD-683W	CMF RESISTOR	68kΩ, 1/16W
R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ, 1/16W	R6101	NRVA6AD-103W	CMF RESISTOR	10kΩ, 1/16W
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ, 1/16W	R6102	NRVA6AD-751W	CMF RESISTOR	750Ω, 1/16W
R4809	NRSA6AJ-681W	MG RESISTOR	680Ω, 1/16W	R6103	NRVA6AD-103W	CMF RESISTOR	10kΩ, 1/16W
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R6106	NRSA6AJ-333W	MG RESISTOR	33kΩ, 1/16W
R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ, 1/16W	R6107	NRVA6AD-562W	CMF RESISTOR	5.6kΩ, 1/16W
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ, 1/16W	R6108	NRSA6AJ-223W	MG RESISTOR	22kΩ, 1/16W
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ, 1/16W	R6113	NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W	R6114	NRSA6AJ-823W	MG RESISTOR	82kΩ, 1/16W
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ, 1/16W	R6115	NRSA6AJ-823W	MG RESISTOR	82kΩ, 1/16W
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ, 1/16W	R6116	NRVA6AD-153W	CMF RESISTOR	15kΩ, 1/16W
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ, 1/16W	R6117	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W	R6118	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W	R6124	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W	R6201	NRVA6AD-223W	CMF RESISTOR	22kΩ, 1/16W
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ, 1/16W	R6202	NRSA6AJ-474W	MG RESISTOR	470kΩ, 1/16W
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W	R6203	NRVA6AD-103W	CMF RESISTOR	10kΩ, 1/16W
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ, 1/16W	R6204	NRSA6AJ-473W	MG RESISTOR	47kΩ, 1/16W
R4827	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R6205	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W
R4828	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R6206	NRVA6AD-183W	CMF RESISTOR	18kΩ, 1/16W
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ, 1/16W	R6207	NRVA6AD-123W	CMF RESISTOR	12kΩ, 1/16W
R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ, 1/16W	R6208	NRVA6AD-123W	CMF RESISTOR	12kΩ, 1/16W
R4841	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R6209	NRVA6AD-153W	CMF RESISTOR	15kΩ, 1/16W
R4842	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R6210	NRVA6AD-183W	CMF RESISTOR	18kΩ, 1/16W
R4843	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R6212	NRVA6AD-472W	CMF RESISTOR	4.7kΩ, 1/16W
R4844	NRSA6AJ-151W	MG RESISTOR	150Ω, 1/16W	R6213	NRSA6AJ-103W	MG RESISTOR	10kΩ, 1/16W
R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω, 1/16W	R6214	NRSA6AJ-152W	MG RESISTOR	1.5kΩ, 1/16W

# △ REF No.	PART No.	PART NAME, DESCRIPTION		# △ REF No.	PART No.	PART NAME, DESCRIPTION	
R6215	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W	C1028	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
R6217	NRSA6AJ-151W	MG RESISTOR,B,C,D,E	150Ω,1/16W	C1029	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
R6218	NRSA6AJ-104W	MG RESISTOR,B,C,D,E	100kΩ,1/16W	C1030	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
R6219	NRVA6AD-243W	CMF RESISTOR	24kΩ,1/16W	C1031	NCF31AZ-105X	CAPACITOR	1μF,10V
R6220	NRVA6AD-302W	CMF RESISTOR	3kΩ,1/16W	C1034	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
R6221	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W	C1036	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
R6222	NRVA6AD-103W	CMF RESISTOR	10kΩ,1/16W	C1037	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
R6223	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W	C1038	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
R6224	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W	C1039	NCFA1HZ-103W	CAPACITOR	0.01μF,50V
R6225	NRVA6AD-562W	CMF RESISTOR	5.6kΩ,1/16W	C1301	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
R6226	NRVA6AD-223W	CMF RESISTOR	22kΩ,1/16W	C1302	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
R6227	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W	C1303	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
R6228	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W	C1304	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
R6229	NRVA6AD-332W	CMF RESISTOR	3.3kΩ,1/16W	C1305	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
R6230	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W	C1306	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
R6231	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W	C1307	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
R6232	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W	C1401	NDCA1HJ-150W	CAPACITOR	15pF,50V
R6233	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W	C1402	NDCA1HJ-150W	CAPACITOR	15pF,50V
R6234	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W	C1403	NCBA1AK-104W	CAPACITOR	0.1μF,10V
R6235	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W	C1404	NCBA1AK-104W	CAPACITOR	0.1μF,10V
R6236	NRVA6AD-473W	CMF RESISTOR	47kΩ,1/16W	C1405	NCBA1AK-104W	CAPACITOR	0.1μF,10V
R6237	NRVA6AD-753W	CMF RESISTOR	75kΩ,1/16W	C1406	NCBA1AK-104W	CAPACITOR	0.1μF,10V
R6238	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W	C1407	NCBA1AK-104W	CAPACITOR	0.1μF,10V
R6239	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W	C1409	NCBA1CK-103W	CAPACITOR	0.01μF,16V
R6240	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W	C1410	NCBA1CK-103W	CAPACITOR	0.01μF,16V
R6241	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W	C1411	NCBA1CK-103W	CAPACITOR	0.01μF,16V
R6242	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W	C1412	NCBA1CK-223W	CAPACITOR	0.022μF,16V
R6243	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W	C1413	NCBA1CK-223W	CAPACITOR	0.022μF,16V
R6244	NRSA6AJ-152W	MG RESISTOR,B,C,D,E	1.5kΩ,1/16W	C1414	NCBA1CK-223W	CAPACITOR	0.022μF,16V
R6245	NRSA6AJ-562W	MG RESISTOR,B,C,D,E	5.6kΩ,1/16W	C1415	NCBA1CK-223W	CAPACITOR	0.022μF,16V
R6246	NRSA6AJ-222W	MG RESISTOR,B,C,D,E	2.2kΩ,1/16W	C1416	NCBA1AK-104W	CAPACITOR	0.1μF,10V
R6701	NRZ0058-R20X	MG RESISTOR	0.2Ω,1/2W	C1601	NCBA1CK-103W	CAPACITOR	0.01μF,16V
R6702	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W	C1602	NBE20JM-106X	T CAPACITOR	10μF,6.3V
R6703	NRVA6AD-123W	CMF RESISTOR	12kΩ,1/16W	C1603	NBE20JM-106X	T CAPACITOR	10μF,6.3V
R6704	NRVA6AD-823W	CMF RESISTOR	82kΩ,1/16W	C1605	NCBA1AK-104W	CAPACITOR	0.1μF,10V
R6705	NRVA6AD-333W	CMF RESISTOR	33kΩ,1/16W	C1606	NCBA1HK-152W	CAPACITOR	0.0015μF,50V
RA1008	NRZ0034-104W	NETWORK RESISTOR	100kΩ	C1607	NCBA1AK-473W	CAPACITOR	0.047μF,10V
RA1009	NRZ0034-104W	NETWORK RESISTOR	100kΩ	C1614	NBE20JM-106X	T CAPACITOR	10μF,6.3V
RA1010	NRZ0034-104W	NETWORK RESISTOR	100kΩ	C1618	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
RA1401	NRZ0034-473W	NETWORK RESISTOR	47kΩ	C1619	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
RA3001	NRZ0034-560W	NETWORK RESISTOR	56Ω	C1620	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
RA3002	NRZ0034-560W	NETWORK RESISTOR	56Ω	C1621	NCB30JK-105X	CAPACITOR	1μF,6.3V
RA3003	NRZ0034-100W	NETWORK RESISTOR	10Ω	C1622	NCBA1CK-223W	CAPACITOR	0.022μF,16V
RA3004	NRZ0034-103W	NETWORK RESISTOR	10kΩ	C1623	NCBA1AK-473W	CAPACITOR	0.047μF,10V
RA3005	NRZ0040-0R0X	NETWORK RESISTOR	0Ω	C1624	NCBA1CK-103W	CAPACITOR	0.01μF,16V
RA4301	NRZ0034-101W	NETWORK RESISTOR	100Ω	C1625	NCBA1AK-473W	CAPACITOR	0.047μF,10V
RA4302	NRZ0034-101W	NETWORK RESISTOR	100Ω	C1626	NCBA1HK-331W	CAPACITOR	330pF,50V
RA4303	NRZ0034-101W	NETWORK RESISTOR	100Ω	C1627	NCBA1CK-822W	CAPACITOR	0.0082μF,16V
C1003	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C1628	NCB21CK-224X	CAPACITOR	0.22μF,16V
C1004	NCFA1AZ-104W	CAPACITOR	0.1μF,10V	C1632	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C1006	NDCA1HJ-130W	CAPACITOR	13pF,50V	C1633	NCB21CK-474X	CAPACITOR	0.47μF,16V
C1007	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C1641	NCB21CK-474X	CAPACITOR	0.47μF,16V
C1009	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C2001	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C1010	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C2002	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C1013	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C2004	NCB21CK-105X	CAPACITOR	1μF,16V
C1014	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C2005	NCB21CK-105X	CAPACITOR	1μF,16V
C1015	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C2006	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C1016	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C2007	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C1017	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C2008	NCB21CK-105X	CAPACITOR	1μF,16V
C1019	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C2009	NCB21CK-105X	CAPACITOR	1μF,16V
C1023	NCFA1AZ-104W	CAPACITOR	0.1μF,10V	C2010	NCB21CK-105X	CAPACITOR	1μF,16V
C1026	NCFA1AZ-104W	CAPACITOR	0.1μF,10V	C2011	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C1027	NCFA1HZ-103W	CAPACITOR	0.01μF,50V	C2012	NBE20JM-106X	T CAPACITOR	10μF,6.3V

# ▲ REF No.	PART No.	PART NAME, DESCRIPTION		# ▲ REF No.	PART No.	PART NAME, DESCRIPTION	
C2013	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3039	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2014	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3042	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2015	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C3043	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2016	NCBA1CK-223W	CAPACITOR	0.022μF,16V	C3044	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2017	NCBA1AK-333W	CAPACITOR	0.033μF,10V	C3045	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2018	NCB31CK-104X	CAPACITOR	0.1μF,16V	C3046	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2019	NCB31CK-104X	CAPACITOR	0.1μF,16V	C3048	NCB31CK-473X	CAPACITOR	0.047μF,16V
C2020	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3049	NCBA1HK-222W	CAPACITOR	0.0022μF,50V
C2021	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3050	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2024	NCB21CK-105X	CAPACITOR	1μF,16V	C3055	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2025	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C3064	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2103	NCB21CK-105X	CAPACITOR	1μF,16V	C3066	NCB30JK-105X	CAPACITOR	1μF,6.3V
C2104	NCB21CK-105X	CAPACITOR	1μF,16V	C3067	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C2109	NCBA1HK-102W	CAPACITOR	0.001μF,50V	C3069	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2110	NCBA1HK-102W	CAPACITOR	0.001μF,50V	C3501	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2111	NCB31CK-104X	CAPACITOR	0.1μF,16V	C3502	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2112	NCB31CK-104X	CAPACITOR	0.1μF,16V	C3503	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C2115	NCBA1CK-223W	CAPACITOR	0.022μF,16V	C3504	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C2116	NCBA1CK-223W	CAPACITOR	0.022μF,16V	C3505	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C2117	NCBA1CK-223W	CAPACITOR	0.022μF,16V	C3506	NCB21AK-105X	CAPACITOR	1μF,10V
C2118	NCBA1CK-223W	CAPACITOR	0.022μF,16V	C3507	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2119	NCBA1CK-223W	CAPACITOR	0.022μF,16V	C3508	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2120	NCBA1CK-223W	CAPACITOR	0.022μF,16V	C3509	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2121	NCBA1EK-472W	CAPACITOR	0.0047μF,25V	C3510	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2122	NCBA1EK-472W	CAPACITOR	0.0047μF,25V	C3511	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2123	NCBA1EK-472W	CAPACITOR	0.0047μF,25V	C3512	NCB31CK-104X	CAPACITOR	0.1μF,16V
C2124	NCBA1EK-472W	CAPACITOR	0.0047μF,25V	C3513	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C2125	NCBA1CK-223W	CAPACITOR	0.022μF,16V	C3514	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C2126	NCBA1CK-223W	CAPACITOR	0.022μF,16V	C3515	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C2127	NCB31CK-104X	CAPACITOR	0.1μF,16V	C3516	NCBA1AK-473W	CAPACITOR	0.047μF,10V
C2128	NCB31CK-104X	CAPACITOR	0.1μF,16V	C3517	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2201	NCBA1CK-103W	CAPACITOR	0.01μF,16V	C3518	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C2202	NCBA1CK-103W	CAPACITOR	0.01μF,16V	C3519	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C3001	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C3520	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3003	NCB30JK-105X	CAPACITOR	1μF,6.3V	C3521	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3005	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C3522	NCB20JM-475X	CAPACITOR	4.7μF,6.3V
C3006	NCB30JK-105X	CAPACITOR	1μF,6.3V	C3523	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3007	NCB10JK-106X	CAPACITOR	10μF,6.3V	C3524	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3008	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C3525	NCB20JM-475X	CAPACITOR	4.7μF,6.3V
C3009	NCB30JK-105X	CAPACITOR	1μF,6.3V	C3526	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3011	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3527	NDCA1EJ-221W	CAPACITOR	220pF,25V
C3012	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3528	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3013	NCBA1CK-103W	CAPACITOR	0.01μF,16V	C3701	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C3015	NCBA1CK-103W	CAPACITOR	0.01μF,16V	C3702	NDCA1HJ-151W	CAPACITOR	150pF,50V
C3016	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3703	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3017	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3704	NDCA1HJ-101W	CAPACITOR	100pF,50V
C3020	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3705	NDCA1HJ-330W	CAPACITOR	33pF,50V
C3021	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3706	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3022	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3707	NCFA1AZ-104W	CAPACITOR	0.1μF,10V
C3023	NDCA1HJ-330W	CAPACITOR	33pF,50V	C3708	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3024	NCBA1HK-102W	CAPACITOR	0.001μF,50V	C3709	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3025	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C3710	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C3026	NCB30JK-105X	CAPACITOR	1μF,6.3V	C3712	NEA70GM-337X	E CAPACITOR	330μF,4.0V
C3027	NCBA1EK-472W	CAPACITOR	0.0047μF,25V	C3713	NEA70GM-337X	E CAPACITOR	330μF,4.0V
C3028	NDCA1EJ-271W	CAPACITOR	270pF,25V	C4201	NBE40GM-107X	T CAPACITOR	100μF,4.0V
C3029	NCBA1CK-103W	CAPACITOR	0.01μF,16V	C4202	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3030	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4203	NCB30JK-105X	CAPACITOR	1μF,6.3V
C3031	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4204	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3032	NCBA1HK-102W	CAPACITOR	0.001μF,50V	C4205	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3033	NDCA1HJ-8R0W	CAPACITOR	8pF,50V	C4206	NCB21CK-105X	CAPACITOR	1μF,16V
C3036	NDCA1HJ-8R0W	CAPACITOR	8pF,50V	C4207	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3037	NDCA1HJ-8R0W	CAPACITOR	8pF,50V	C4208	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C3038	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4209	NCB30JK-105X	CAPACITOR	1μF,6.3V

# △ REF No.	PART No.	PART NAME, DESCRIPTION		# △ REF No.	PART No.	PART NAME, DESCRIPTION	
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
C4217	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4855	NCB31CK-104X	CAPACITOR	0.1μF,16V
C4301	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4858	NDCA1HJ-330W	CAPACITOR	33pF,50V
C4303	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4859	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C4304	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4860	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C4305	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C4861	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4306	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4862	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4307	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C4864	NBE20JM-106X	T CAPACITOR	10μF,6.3V
C4308	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C4865	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4309	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5501	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4310	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C5503	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4311	NCB30JK-105X	CAPACITOR	1μF,6.3V	C5504	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4312	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5505	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4313	NBE20JM-226X	T CAPACITOR	22μF,6.3V	C5506	NBE40GM-476X	T CAPACITOR	47μF,4.0V
C4314	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5507	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4315	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C5508	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4317	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5509	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4318	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5510	NBP21VM-105X	T CAPACITOR	1μF,35V
C4319	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5511	NBP21DM-475X	T CAPACITOR	4.7μF,20V
C4320	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5512	NBE21AM-106X	T CAPACITOR	10μF,10V
C4321	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5513	NCB31CK-104X	CAPACITOR	0.1μF,16V
C4323	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5514	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4324	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C5515	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4325	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5516	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4327	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5517	NCB31CK-104X	CAPACITOR	0.1μF,16V
C4328	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5518	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4329	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C5519	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4330	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6001	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4331	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C6004	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4332	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6005	NDCA1HJ-101W	CAPACITOR	100pF,50V
C4333	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6101	NCB21CK-105X	CAPACITOR	1μF,16V
C4334	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6102	NEA71CM-106X	E CAPACITOR	10μF,16V
C4335	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6103	NCB21CK-105X	CAPACITOR	1μF,16V
C4336	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6105	NCB21CK-105X	CAPACITOR	1μF,16V
C4337	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6106	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4338	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6107	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4339	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6108	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4340	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6109	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4341	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6110	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4342	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6111	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4343	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6112	NCBA1AK-333W	CAPACITOR	0.033μF,10V
C4344	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6113	NCBA1HK-561W	CAPACITOR	560pF,50V
C4345	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6114	NCBA1HK-272W	CAPACITOR	0.0027μF,50V
C4346	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6115	NCBA1HK-561W	CAPACITOR	560pF,50V
C4347	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6116	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4348	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6117	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4349	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6118	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4350	NCBA1AK-104W	CAPACITOR	0.1μF,10V	C6119	NDCA1HJ-101W	CAPACITOR	100pF,50V
C4803	NBE20JM-106X	T CAPACITOR	10μF,6.3V	C6120	NCB30JK-105X	CAPACITOR	1μF,6.3V
C4804	NCFA1AZ-104W	CAPACITOR	0.1μF,10V	C6121	NCBA1AK-104W	CAPACITOR	0.1μF,10V
C4806	NCFA1AZ-104W	CAPACITOR	0.1μF,10V	C6122	NCBA1CK-223W	CAPACITOR	0.022μF,16V
C4808	NCB30JK-105X	CAPACITOR	1μF,6.3V	C6123	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4809	NCFA1AZ-104W	CAPACITOR	0.1μF,10V	C6124	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4810	NCBA1CK-103W	CAPACITOR	0.01μF,16V	C6125	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4811	NCBA1CK-103W	CAPACITOR	0.01μF,16V	C6126	NCBA1CK-103W	CAPACITOR	0.01μF,16V
C4812	NCFA1AZ-104W	CAPACITOR	0.1μF,10V	C6127	NCBA1HK-102W	CAPACITOR	0.001μF,50V
C4813	NCFA1AZ-104W	CAPACITOR	0.1μF,10V	C6128	NCB21CK-105X	CAPACITOR	1μF,16V

# △ REF No.	PART No.	PART NAME, DESCRIPTION		# △ REF No.	PART No.	PART NAME, DESCRIPTION	
C6129	NCBA1HK-561W	CAPACITOR	560pF,50V	L4306	NQR0129-002X	FERRITE BEAD	
C6130	NCBA1AK-104W	CAPACITOR	0.1μF,10V	L4307	NQL315K-100X	COIL	10μH
C6131	NCBA1AK-104W	CAPACITOR	0.1μF,10V	L4802	NQL302N-100X	COIL	10μH
C6132	NCBA1AK-104W	CAPACITOR	0.1μF,10V	L4851	NQR0129-002X	FERRITE BEAD	
C6134	NCBA1AK-104W	CAPACITOR	0.1μF,10V	L4852	NQL315K-100X	COIL	10μH
C6201	NCB21CK-105X	CAPACITOR	1μF,16V	L4853	NQL315K-100X	COIL	10μH
C6202	NCB10JK-106X	CAPACITOR	10μF,6.3V	L5501	NQL315K-100X	COIL	10μH
C6203	NCBA1HK-102W	CAPACITOR	0.001μF,50V	L5502	NQR0129-002X	FERRITE BEAD	
C6204	NCBA1HK-561W	CAPACITOR	560pF,50V	L5503	NQR0129-002X	FERRITE BEAD	
C6205	NCB30JK-105X	CAPACITOR	1μF,6.3V	L5504	NQR0129-002X	FERRITE BEAD	
C6206	NCB21CK-105X	CAPACITOR	1μF,16V	L5505	NQL315K-100X	COIL	10μH
C6207	NCB10JK-106X	CAPACITOR	10μF,6.3V	L5506	NQL315K-100X	COIL	10μH
C6208	NCBA1EK-472W	CAPACITOR	0.0047μF,25V	L6101	NQLZ011-4R7X	COIL	4.7μH
C6209	NCB21CK-105X	CAPACITOR	1μF,16V	L6102	NQLZ011-4R7X	COIL	4.7μH
C6210	NCB10JK-106X	CAPACITOR	10μF,6.3V	L6201	NQL52EM-390X	COIL	39μH
C6211	NCBA1HK-102W	CAPACITOR	0.001μF,50V	L6202	NQL52EM-390X	COIL	39μH
C6212	NCB21CK-105X	CAPACITOR,B,C,D,E	1μF,16V	L6203	NQL52EM-390X	COIL	39μH
C6213	NCB30JK-105X	CAPACITOR,B,C,D,E	1μF,6.3V	L6204	NQL144K-220X	COIL	22μH
C6214	NCB21CK-105X	CAPACITOR	1μF,16V	L6205	NQL64EM-220X	COIL,B,C,D,E	22μH
C6215	NCB21CK-105X	CAPACITOR	1μF,16V	L6206	NQLZ011-470X	COIL	47μH
C6216	NCBA1AK-683W	CAPACITOR	0.068μF,10V	L6207	NQLZ011-470X	COIL	47μH
C6217	NCB21CK-105X	CAPACITOR	1μF,16V	L6208	NQLZ011-221X	COIL	220μH
C6218	NCB21CK-105X	CAPACITOR	1μF,16V	L6701	NQLZ010-100X	COIL	10μH
C6219	NCB21CK-224X	CAPACITOR	0.22μF,16V	X1001	NAX0474-001X	C OSCILLATOR	
C6220	NCB21CK-105X	CAPACITOR	1μF,16V	X1002	NAX0325-001X	CRYSTAL RESONATOR	
C6221	NCB11EK-105X	CAPACITOR	1μF,25V	X1401	NAX0204-001X	CRYSTAL RESONATOR	
C6222	NCB11EK-105X	CAPACITOR	1μF,25V	X3002	NAX0480-001X	CRYSTAL RESONATOR	
C6224	NCBA1HK-102W	CAPACITOR	0.001μF,50V	X5501	NAX0356-001X	CXO	
C6225	NCBA1CK-103W	CAPACITOR	0.01μF,16V	WR1	WJT0065-001A	E-CARD WIRE,CN102-JACK CN502	
C6226	NCB21CK-105X	CAPACITOR	1μF,16V	WR2	WJJ0268-001A	E-SI C WIRE C-C,CN104-REAR CN552	
C6227	NCB11EK-105X	CAPACITOR	1μF,25V	WR3	WJM0291-001A	E-SI C WIRE C-F,C5506-CCD WR1	
C6228	NCB11EK-105X	CAPACITOR	1μF,25V	CN101	QGF0508F1-40X	FPC CONNECTOR	
C6230	NCB21CK-105X	CAPACITOR	1μF,16V	CN102	QGF0505F2-24X	FPC CONNECTOR	
C6231	NCBA1CK-103W	CAPACITOR,B,C,D,E	0.01μF,16V	CN103	QGF0503C1-12V	FFC/FPC CONNECTOR	
C6701	NCB21CK-105X	CAPACITOR	1μF,16V	CN104	QGA1002C1-06X	CONNECTOR	
C6703	NCB21CK-105X	CAPACITOR	1μF,16V	CN105	QGB0801K2-30X	CONNECTOR	
L1002	NQL315K-100X	COIL	10μH	CN106	QGA1201C2-07X	CONNECTOR	
L1401	NQR0006-001X	FERRITE BEAD		CN107	QGF0503C1-20X	FFC/FPC CONNECTOR	
L2001	NQL315K-100X	COIL	10μH	CN108	QGF0512C1-24X	FPC CONNECTOR	
L2002	NQL38DK-220X	COIL	22μH	CN109	QGF0507F4-15X	FFC/FPC CONNECTOR	
L2101	NQR0269-013X	FERRITE BEAD		CN110	QGF0505F1-08X	FPC CONNECTOR	
L2102	NQR0269-013X	FERRITE BEAD		CN112	QGF0505F2-18X	FPC CONNECTOR	
L2103	NQR0269-013X	FERRITE BEAD		CN113	QGF0508F1-33X	FPC CONNECTOR	
L3001	NQR0129-002X	FERRITE BEAD		△ F6101	NMFZ007-2R0X-K	FUSE	T2.0A,50V
L3002	NQR0129-002X	FERRITE BEAD		OT1	LY43491-001A	SHEET(MAIN)	
L3004	NQR0006-001X	FERRITE BEAD		OT2	LY43549-001A	SHEET(MECHA)	
L3005	NQR0006-001X	FERRITE BEAD		OT3	LY43770-001A	SPACER(CAPSAN)	
L3007	NQL085J-2R2X	COIL	2.2μH	OT4	LY43770-002A	SPACER(CAPSAN)	
L3008	NQL085J-120X	COIL	12μH	SD1	LY32080-001A	SHIELD CASE	
L3012	NQR0129-002X	FERRITE BEAD					
L3015	NQR0006-001X	FERRITE BEAD					
L3501	NQR0129-002X	FERRITE BEAD					
L3502	NQL402M-100X	COIL	10μH				
L3503	NQR0006-001X	FERRITE BEAD					
L3504	NQR0006-001X	FERRITE BEAD					
L3505	NQR0006-001X	FERRITE BEAD					
L3701	NQL38DK-100X	COIL	10μH				
L4201	NQR0129-002X	FERRITE BEAD					
L4301	NQR0129-002X	FERRITE BEAD					
L4302	NQR0129-002X	FERRITE BEAD					
L4303	NQL315K-100X	COIL	10μH				
L4304	NQL315K-220X	COIL	22μH				
L4305	NQR0129-002X	FERRITE BEAD					

				MONITOR BOARD ASSEMBLY <02>			
				PW	YB10360PA-02	MONITOR BOARD ASSY,A	
					YB10360PB-02	MONITOR BOARD ASSY,B,C,D,E	
				IC7101	TC7SH32FU	IC(DIGITAL)	
				IC7601	AN2540FHQ	IC	
				IC7602	BA4558F	IC	
				IC7603	AT25040N-10SC-X	IC	
					or 25LC040-I/SN-X	IC	

# △ REF No.	PART No.	PART NAME, DESCRIPTION		# △ REF No.	PART No.	PART NAME, DESCRIPTION	
IC7604	SN74LV08APW	IC		C7102	NCF31CZ-104X	CAPACITOR	0.1μF,16V
Q7101	2SA1774/QR/-X	TRANSISTOR		C7601	NCB21CK-105X	CAPACITOR	1μF,16V
Q7102	2SC4617/QR/-X	TRANSISTOR		C7602	NCB31EK-103X	CAPACITOR	0.01μF,25V
Q7601	2SC4617/QR/-X	TRANSISTOR		C7603	NCB11CK-225X	CAPACITOR	2.2μF,16V
	or 2SC4738/YG/-X	TRANSISTOR		C7604	NCB11CK-225X	CAPACITOR	2.2μF,16V
	or 2SD2216J/QR/-X	TRANSISTOR		C7605	NCB11CK-225X	CAPACITOR	2.2μF,16V
Q7602	2SA1774/QR/-X	TRANSISTOR		C7606	NCB31CK-104X	CAPACITOR	0.1μF,16V
	or 2SA1832/YG/-X	TRANSISTOR		C7607	NCB41CK-106X	CAPACITOR	10μF,16V
Q7603	2SC4617/QR/-X	TRANSISTOR		C7608	NCB31EK-103X	CAPACITOR	0.01μF,25V
	or 2SC4738/YG/-X	TRANSISTOR		C7609	NCB31CK-104X	CAPACITOR	0.1μF,16V
	or 2SD2216J/QR/-X	TRANSISTOR		C7610	NCB11CK-225X	CAPACITOR	2.2μF,16V
Q7604	2SA1774/QR/-X	TRANSISTOR		C7611	NCB11CK-225X	CAPACITOR	2.2μF,16V
	or 2SA1832/YG/-X	TRANSISTOR		C7612	NCB11CK-225X	CAPACITOR	2.2μF,16V
Q7608	DTC144EE	DIGI TRANSISTOR		C7613	NCB11CK-225X	CAPACITOR	2.2μF,16V
	or RN1104	DIGI TRANSISTOR		C7614	NCB31HK-152X	CAPACITOR	0.0015μF,50V
	or UN9213J	DIGI TRANSISTOR		C7615	NCB31EK-103X	CAPACITOR	0.01μF,25V
Q7609	DTC144EE	DIGI TRANSISTOR		C7616	NCB31EK-103X	CAPACITOR	0.01μF,25V
	or RN1104	DIGI TRANSISTOR		C7617	NCB31EK-103X	CAPACITOR	0.01μF,25V
	or UN9213J	DIGI TRANSISTOR		C7618	NCB10JK-106X	CAPACITOR	10μF,6.3V
Q7610	DTA144EE	DIGI TRANSISTOR		C7619	NCB10JK-106X	CAPACITOR	10μF,6.3V
	or RN2104	DIGI TRANSISTOR		C7620	NCB31EK-103X	CAPACITOR	0.01μF,25V
	or UN9113J	DIGI TRANSISTOR		C7621	NCB21CK-105X	CAPACITOR	1μF,16V
D1	SML-110MT-X	LE DIODE		C7622	NCB21CK-105X	CAPACITOR	1μF,16V
D7601	FC806	SB DIODE		C7623	NBE21AM-106X	T CAPACITOR	10μF,10V
D7602	UDZS6.8B	ZENER DIODE		C7624	NCB31EK-103X	CAPACITOR	0.01μF,25V
R1	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W	C7626	NCB31CK-104X	CAPACITOR	0.1μF,16V
R2	NRSA63J-103X	MG RESISTOR,B,C,D,E	10kΩ,1/16W	C7627	NCF31CZ-104X	CAPACITOR	0.1μF,16V
R3	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W	C7628	NBP41EM-475X	T CAPACITOR	4.7μF,25V
R4	NRSA63J-152X	MG RESISTOR	1.5kΩ,1/16W	C7629	NBP21CM-335X	T CAPACITOR	3.3μF,16V
R5	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W	C7630	NBP41EM-475X	T CAPACITOR	4.7μF,25V
R6	NRSA63J-272X	MG RESISTOR	2.7kΩ,1/16W	C7631	NCB31EK-103X	CAPACITOR	0.01μF,25V
R7110	NRSA63J-562X	MG RESISTOR	5.6kΩ,1/16W	C7632	NBP41EM-475X	T CAPACITOR	4.7μF,25V
R7111	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W	C7633	NCB31EK-103X	CAPACITOR	0.01μF,25V
R7113	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W	C7634	NCB11CK-225X	CAPACITOR	2.2μF,16V
R7114	NRSA63J-271X	MG RESISTOR	270Ω,1/16W	C7635	NCB31EK-103X	CAPACITOR	0.01μF,25V
R7116	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W	C7637	NCB31EK-103X	CAPACITOR	0.01μF,25V
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ,1/16W	C7640	NCB31EK-103X	CAPACITOR	0.01μF,25V
R7602	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W	C7642	NCF31CZ-104X	CAPACITOR	0.1μF,16V
R7603	NRSA63J-683X	MG RESISTOR	68kΩ,1/16W	L7601	NQL365K-100X	COIL	10μH
R7605	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W	L7602	NQL365K-470X	COIL	47μH
R7606	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W	L7603	NQL365K-100X	COIL	10μH
R7608	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W	L7604	NQL365K-100X	COIL	10μH
R7609	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W	L7605	NQL365K-100X	COIL	10μH
R7610	NRVA63D-433X	CMF RESISTOR	43kΩ,1/16W	L7607	NQL365K-100X	COIL	10μH
R7611	NRVA63D-821X	CMF RESISTOR	820Ω,1/16W	SW1	NSW0092-001X	SLIDE SWITCH,VIDEO LIGHT,B,C,D,E	
R7612	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W	SW2	NSW0008-001X	TACT SWITCH,STOP/BACK LIGHT	
R7613	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W	SW3	NSW0008-001X	TACT SWITCH,REW/NIGHT	
R7614	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W	SW4	NSW0008-001X	TACT SWITCH,FF	
R7615	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W	SW5	NSW0008-001X	TACT SWITCH,PLAY/PAUSE	
R7616	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W	SW7601	QSW0451-001	PUSH SWITCH,MONITOR OPEN	
R7617	NRSA02J-561X	MG RESISTOR	560Ω,1/10W	J7601	QND0087-001	S JACK	
R7618	NRSA02J-561X	MG RESISTOR	560Ω,1/10W	△ BT1	QAB0025-001	LI BATTERY	
R7621	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W	CN761	QGF0508F1-40X	FPC CONNECTOR	
R7630	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W	CN763	QGF0507F3-20X	FFC/FPC CONNECTOR	
R7631	NRSA63J-335X	MG RESISTOR	3.3MΩ,1/16W	CN764	QGF0508F1-33X	FPC CONNECTOR	
R7633	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W	CN765	QGA1201F2-02X	CONNECTOR	
R7636	NRSA63J-101X	MG RESISTOR	100Ω,1/16W	OT1	LY43779-001A	SPACER(MON.PWB)	
R7637	NRSA63J-101X	MG RESISTOR	100Ω,1/16W				
R7638	NRSA63J-101X	MG RESISTOR	100Ω,1/16W				
R7650	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W				
R7652	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W				
C1	NCB31EK-103X	CAPACITOR	0.01μF,25V				
C7101	NDC31HJ-221X	CAPACITOR	220pF,50V				

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

LCD BL BOARD ASSEMBLY <03>					
PW			YB10325D	LCD BL BOARD ASSY	
Q7501			2SD1664/QR/-W	TRANSISTOR	
Q7502			2SD1664/QR/-W	TRANSISTOR	
Q7503			DTA144EE	DIGI TRANSISTOR	
			or RN2104	DIGI TRANSISTOR	
			or UN9113J	DIGI TRANSISTOR	
Q7504			2SC4617/QR/-X	TRANSISTOR	
			or 2SC4738/YG/-X	TRANSISTOR	
			or 2SD2216J/QR/-X	TRANSISTOR	
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
R7511			NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
C7501			NCZ1016-180X	CAPACITOR	18pF, 2kV
C7503			NCB31EK-273X	CAPACITOR	0.027μF, 25V
C7504			NCB31EK-103X	CAPACITOR	0.01μF, 25V
C7505			NBE20JM-106X	T CAPACITOR	10μF, 6.3V
L7501			NQLZ010-680X	COIL	68μH
T7501			NQS0048-001X	SW TRANSF	
CN751			QGF0506F2-32X	FPC CONNECTOR	
CN752			QGF0505F1-24X	FPC CONNECTOR	
CN753			QGA5002F1-02X	CONNECTOR	
△ F7501			NMFZ007-R40X-K	FUSE	T0.4A, 50V
OT1			LY41726-001A	PLATE(EARTH)	

CCD BOARD ASSEMBLY <04>					
PW			YB20914A-01	CCD BOARD ASSY	
Q5201			2SC3931/CD/-X	TRANSISTOR	
R5201			NRSA63J-472X	MG RESISTOR	4.7kΩ, 1/16W
R5202			NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R5203			NRSA63J-104X	MG RESISTOR	100kΩ, 1/16W
R5204			NRS181J-0R0X	MG RESISTOR	0Ω, 1/8W
C5201			NCB21CK-104X	CAPACITOR	0.1μF, 16V
C5202			NBP41DM-106X	T CAPACITOR	10μF, 20V
C5203			NCB21CK-104X	CAPACITOR	0.1μF, 16V
C5204			NBE21AM-106X	T CAPACITOR	10μF, 10V
C5205			NCB11EK-104X	CAPACITOR	0.1μF, 25V
C5206			NCB21CK-104X	CAPACITOR	0.1μF, 16V
C5207			NCB31EK-222X	CAPACITOR	0.0022μF, 25V
C5211			NCB21CK-105X	CAPACITOR	1μF, 16V
L5201			NQL315K-100X	COIL	10μH
WR1			WJM0290-001A	E-SI C WIRE C-F, C5202-MAIN WR3	

JUNCTION BOARD ASSEMBLY <05>					
PW			YB10358A-01	JUNCTION BOARD ASSY	
SW571			NSW0120-002X	PUSH SWITCH, OPEN/EJECT	
CN571			QGF0508F1-33X	FPC CONNECTOR	
CN572			QGF0507F3-15X	FFC/FPC CONNECTOR	
CN573			QGF0505F2-11X	FPC CONNECTOR	
CN574			QGF0505F2-06X	FPC CONNECTOR	

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

JACK BOARD ASSEMBLY <06>					
PW			YB10357A-01	JACK BOARD ASSY	
IC501			BA10358F-XE	IC	
IC502			RPM7138-V4	IR DETECT UNIT	
Q501			RPM-22PB	PHOTO TRANSISTOR	
D501			SML-010LT-X	LE 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
R519			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	
L503			NQR0251-004X	FERRITE BEAD	
J501			QNS0078-001	3.5 JACK	
J503			PEMC1203	MINI JACK	
CN501			QGF0503C1-06V	FFC/FPC CONNECTOR	
CN502			QGF0508F1-24X	FPC CONNECTOR	
OT1			LY43515-001A	SHEET(IR)	

REAR BOARD ASSEMBLY <07>					
PW			YB10362A-01	REAR BOARD ASS'Y	
D551			EMZ6.8N	ZENER DIODE	
D552			EMZ6.8N	ZENER DIODE	
D553			MA8068	ZENER DIODE	
R551			NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R552			NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R553			NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R554			NRSA63J-0R0X	MG RESISTOR	0Ω, 1/16W
R555			NRSA63J-331X	MG RESISTOR	330Ω, 1/16W

# △ REF No.	PART No.	PART NAME, DESCRIPTION
R556	NRSA63J-331X	MG RESISTOR 330Ω,1/16W
R560	NRSA63J-0R0X	MG RESISTOR 0Ω,1/16W
R561	NRSA63J-0R0X	MG RESISTOR 0Ω,1/16W
C551	NCF31CZ-104X	CAPACITOR 0.1μF,16V
WR1	WJT0064-001A	E-CARD WIRE,CN551-MAIN CN103
J551	QNZ0557-001	D CONNECTOR
J552	QNS0152-001	2.5 JACK
J554	QNA0031-001	DC JACK
CN551	QGF0507F3-12X	FFC/FPC CONNECTOR
CN552	QGA1002F1-06X	CONNECTOR

# △ REF No.	PART No.	PART NAME, DESCRIPTION
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B/W VF BOARD ASSEMBLY <08>

PW	YB20910B	B/W VF BOARD ASSY
IC7001	MCVVQ111FB	IC
Q7001	PUMX1	PAIR TRANSISTOR
D7001	NSCW100A0/ST/-X	LE DIODE
D7002	MA111	DIODE
R7001	NRSA63J-103X	MG RESISTOR 10kΩ,1/16W
R7002	NRSA63J-182X	MG RESISTOR 1.8kΩ,1/16W
R7003	NRSA63J-183X	MG RESISTOR 18kΩ,1/16W
R7004	NRSA63J-0R0X	MG RESISTOR 0Ω,1/16W
R7006	NRVA63D-333X	CMF RESISTOR 33kΩ,1/16W
R7007	NRVA63D-153X	CMF RESISTOR 15kΩ,1/16W
R7008	NRVA63D-473X	CMF RESISTOR 47kΩ,1/16W
R7009	NRSA63J-682X	MG RESISTOR 6.8kΩ,1/16W
R7010	NRSA63J-102X	MG RESISTOR 1kΩ,1/16W
R7011	NRSA63J-332X	MG RESISTOR 3.3kΩ,1/16W
R7012	NRSA63J-561X	MG RESISTOR 560Ω,1/16W
R7013	NRSA63J-470X	MG RESISTOR 47Ω,1/16W
VR7001	NVP0016-223X	TRIM RESISTOR,GAIN
C7001	NCF31CZ-104X	CAPACITOR 0.1μF,16V
C7002	NCF31CZ-104X	CAPACITOR 0.1μF,16V
C7003	NCB21AK-105X	CAPACITOR 1μF,10V
C7004	NCB31EK-223X	CAPACITOR 0.022μF,25V
C7005	NCB31EK-103X	CAPACITOR 0.01μF,25V
C7006	NCF21CZ-105X	CAPACITOR 1μF,16V
C7007	NCF31CZ-104X	CAPACITOR 0.1μF,16V
C7008	NCF31CZ-104X	CAPACITOR 0.1μF,16V
C7009	NCF31CZ-104X	CAPACITOR 0.1μF,16V
C7010	NCF31CZ-104X	CAPACITOR 0.1μF,16V
C7011	NCB31HK-102X	CAPACITOR 0.001μF,50V
C7012	NCB31EK-103X	CAPACITOR 0.01μF,25V
C7013	NCF31CZ-104X	CAPACITOR 0.1μF,16V
C7014	NCF31CZ-104X	CAPACITOR 0.1μF,16V
C7015	NCB31EK-103X	CAPACITOR 0.01μF,25V
C7016	NCB11CK-475X	CAPACITOR 4.7μF,16V
C7017	NCB10JK-106X	CAPACITOR 10μF,6.3V
L7001	NQL38DK-100X	COIL 10μH
L7002	NQL38DK-100X	COIL 10μH
CN7001	QGF0517F1-06X	FPC CONNECTOR
CN7002	QGF0517F2-20X	FPC CONNECTOR