

JVC

SERVICE MANUAL

Mini DV & HDD & DVD VIDEO RECORDER

DR-DX5SEK, DR-DX5SEL, DR-DX5SEU, DR-DX5SEY, DR-DX5SEZ



DR-DX5SEK, DR-DX5SEL, DR-DX5SEU, DR-DX5SEY, DR-DX5SEZ [D5MC21]



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SPECIFICATION

	DR-DX5SEK	DR-DX5SEL/EU/EY/EZ
GENERAL		
Power requirement	AC 220 V ~ 240 V, 50 Hz/60 Hz	
Power consumption		
Power on	45 W	
Power off	15 W	
Temperature		
Operating	5°C to 35°C	
Storage	-20°C to 60°C	
Operating position	Horizontal only	
Dimensions (W × H × D)	435 mm × 96 mm × 383 mm	
Weight	6.5 kg	
Input/Output		
Video input	0.5 - 2.0 Vp-p, 75 Ω (pin jack)	
Audio input	-8 dB, 50 kΩ (pin jack), Corresponding to mono (left)	
Audio output	-8 dB, 1 kΩ (pin jack)	
21-pin SCART connectors	IN/OUT × 1, IN/DECODER × 1	
S-video input	Y: 0.8 - 1.2 Vp-p, 75 Ω, C: 0.2 - 0.4 Vp-p, 75 Ω	
S-video output	Y: 1.0 Vp-p, 75 Ω, C: 0.3 Vp-p, 75 Ω	
DV	4-pin for DV IN/OUT	
Component video output	Y: 1.0 Vp-p, 75 Ω, CB/CR, PB/PR: 0.7 Vp-p, 75 Ω Corresponding to copy protection	
Digital audio output	Optical, Coaxial Corresponding to Dolby Digital and DTS Digital Surround Bit stream Selectable in digital audio output setting menu	
VIDEO/AUDIO (DVD Deck)		
Recording time	Maximum 8 hours (with 4.7 GB disc) (XP): Approx. 1 hour, (SP): Approx. 2 hours, (LP): Approx. 4 hours (EP): Approx. 6 hours, (FR): Approx. 1 hour - 8 hours	
Audio recording system	Dolby Digital (2 ch), Linear PCM (XP mode only)	
Video recording compression system	MPEG2 (CBR/VBR)	
VIDEO/AUDIO (HDD Deck)		
Video recording compression system	MPEG2 (VBR)	
Audio recording system	Dolby Digital (2 ch), Linear PCM (XP mode only)	
Recording time	Maximum 473 hours (with 250 GB HDD) (XP): Approx. 53 hours, (SP): Approx. 109 hours, (LP): Approx. 218 hours (EP): Approx. 328 hours, (FR): Approx. 473 hours	
VIDEO/AUDIO (DV Deck)		
Signal system	PAL colour signal, 625 lines/50 fields	
Recording system	Digital Component Recording	
Format	DV format (SD mode)	
Cassette	Mini DV Cassette	
Maximum recording time		
(SP)	(SP): 80 min. with M-DV80ME cassette	
(LP)	(LP): 120 min. with M-DV80ME cassette	
Audio recording system	PCM 48 kHz, 16 bit (2 ch)/32 kHz, 12 bit (4 ch)	
TUNER/TIMER		
Tuning system	Frequency synthesized tuner	
Channel coverage	VHF : 44.5 MHz - 143 MHz/143 MHz - 470 MHz UHF : 470 MHz - 862 MHz	VHF : 47 MHz - 89 MHz/104 MHz - 300 MHz/302 MHz - 470 MHz UHF : 470 MHz - 862 MHz
Memory backup time	Approx. 60 minutes	
ACCESSORIES		
Provided accessories	RF cable, 21-pin SCART cable, Infrared remote control unit, "AA/R6" battery × 2	

- Specifications shown are for SP mode unless otherwise specified.
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- VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.(EK MODEL)
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SECTION 1 PRECAUTION

1.1 SAFTY PRECAUTIONS

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

1.1.1 Precautions during Servicing

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

NOTE :

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

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

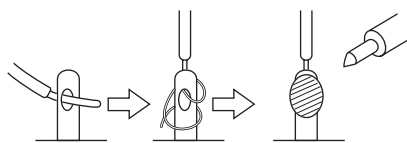


Fig.1-1-1

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

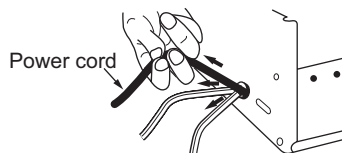


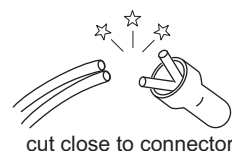
Fig.1-1-2

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

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

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

- **Connector part number** :E03830-001
- **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
- **Replacement procedure**
 - a) Remove the old connector by cutting the wires at a point close to the connector. Important : Do not re-use a connector (discard it).



cut close to connector

Fig.1-1-3

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

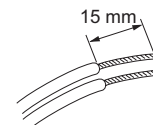


Fig.1-1-4

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

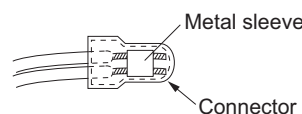


Fig.1-1-5

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

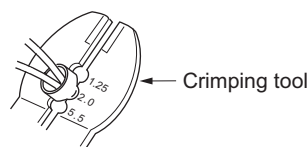


Fig.1-1-6

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

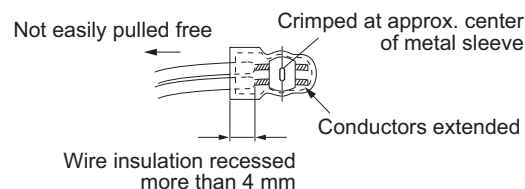


Fig.1-1-7

1.1.2 Safety Check after Servicing

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

(1) Insulation resistance test

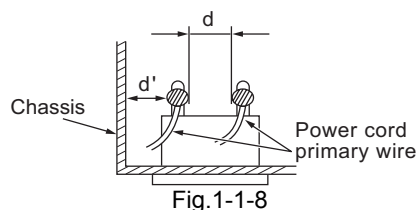
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

(2) Dielectric strength test

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

(3) Clearance distance

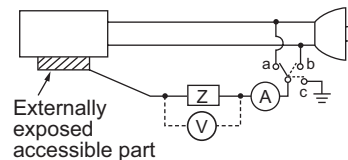
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See Fig.1-1-11 below.



(4) Leakage current test

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

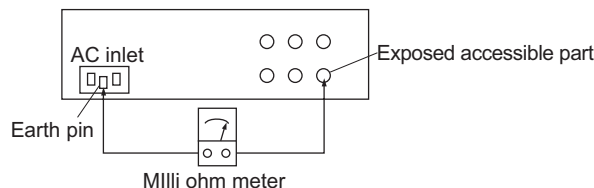
Measuring Method : (Power ON) Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig.1-1-9 and following Fig.1-1-12.



(5) Grounding (Class 1 model only)

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

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



Grounding Specifications

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

Fig.1-1-10

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

Fig.1-1-11

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

Fig.1-1-12

NOTE :

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

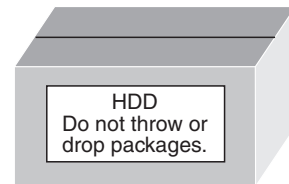
1.2 Hard Disk Drive (HDD) Handling Precautions

The HDD is a precision device for use in reading and writing a large amount of data on or from a disk rotating at a high speed. If it is not handled carefully, either abnormal operation may result or it may not be possible to read data. The HDD is sensitive to the following items and special care is required in safeguarding against them when handling an HDD. Also take care in handling a set incorporating an HDD.

- (1) Vibrations and impacts
- (2) Static electricity
- (3) Rough handling

1.2.1 Handling in transport, etc.

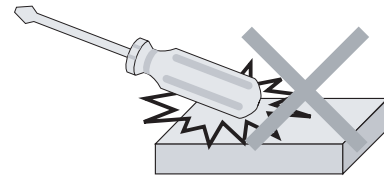
- Be sure to place the HDD in the manufacturer's specified package carton before transport.
- When receiving a package containing an HDD, check that the package carton is not damaged (such as having holes in the carton, crushed corners, etc.).
- Do not impact the packaging carton when loading or unloading it.
- It is not permitted to use the inner package carton only for transporting an HDD.
- Do not stack package cartons one upon another.



Be sure to package and transport the HDDs correctly.

1.2.2 Handling an HDD in the stand-alone status

- When handling an HDD on a hard workbench, place an anti-static mat (rubber sheet) or similar object on the hard surface (to prevent any impacts occurring between the HDD and bench).
- Do not stack the HDDs one upon another.
- Do not knock an HDD with a hard object (such as a screwdriver).
- Do not place an HDD on its side panel without using a support (do not place an HDD in an unstable position).



1.2.3 Handling the installation of an HDD

- Place antistatic mats or similar sheets on all of the surfaces on which work is conducted or when the HDD is transported.
- Do not permit the HDD to knock against the set's brackets.
- When screwing the brackets, be careful not to knock the HDD. When using a power screwdriver, use a low-shock model and arrange the tightening torque properly.
- When mounting an HDD in a main body, take care not to apply excessive force to the brackets.

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 Different table of features

The following table indicates main different points between models DR-DX5SEK and DR-DX5SEL/EU/EY/EZ.

ITEM	DR-DX5SEK	DR-DX5SEL/EU/EY/EZ
POWER PLUG	3PIN	CEE
BROADCASTING STANDARD	I	B/G,D/K
STEREO DECODER	NICAM	NICAM/A2
VCR PLUS+	VIDEOPLUS+	SHOWVIEW
VPS/PDC	NOT USED	USED

2.2 Service position

This unit has been designed so that the Mechanism and Main board assemblies can be removed together from the bottom chassis. Before diagnosing or servicing the circuit boards, take out the major parts from the bottom chassis.

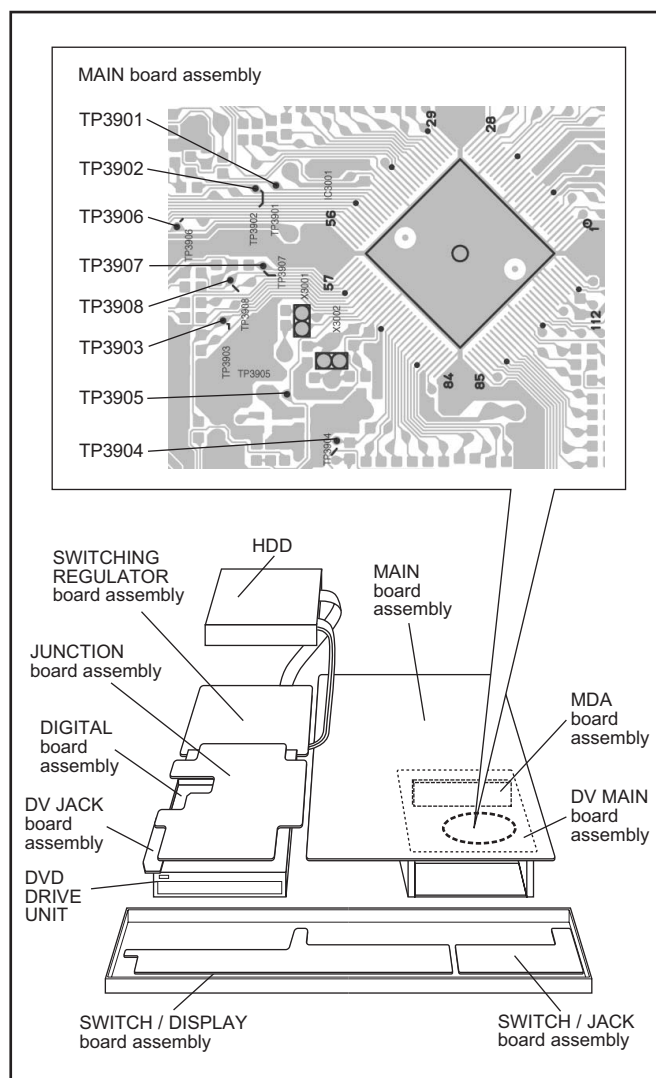
2.2.1 How to set the "Service position"

- (1) Refer to the disassembly procedure and perform the disassembly of the major parts before removing the Mechanism assembly.
- (2) Remove the screws that fix the Mechanism, Main board assembly to the bottom chassis. If any other screws are used to fix the boards, remove them also.
- (3) Remove the combined Mechanism, HDD, DVD unit, switching regulator, digital, DV jack, junction and Main board assemblies.
- (4) If any other major parts are used, remove them also.
- (5) Connect the wires and connectors of the major parts that have been removed in steps (1) to (4). (Refer to Fig. 2-2a.)
- (6) Place the combined Mechanism, Main board and other board assemblies upside down.
- (7) Insert the power cord plug into the power outlet and then proceed with the diagnostics and servicing of the board assembly.

Notes:

- Before inserting the power cord plug into the power outlet, make sure that none of the electrical parts are able to short-circuit between the workbench and the board assembly.
- For the disassembly procedure of the major parts and details of the precautions to be taken, see "Removing the major parts".
- If there are wire connections from the Main board and Mechanism assemblies to the other major parts, be sure to remove them (including wires connected to the major parts) first before performing step (2).
- When carrying out diagnosis and repair of the Main board assembly in the "Service position", be sure to ground both the Main board and Mechanism assemblies. If they are improperly grounded, there may be noise on the playback picture or FDP counter display may move even when the mechanism is kept in an inoperative status.
- In order to diagnose the playback or recording of the cassette tape, set the Mechanism assembly to the required mode before placing it upside down. If the mechanism mode is changed (including ejection) while it is in an upside down position the tape inside may be damaged.

- For some models, the mechanism and board assemblies are attached by connectors only. When carrying out a diagnosis or repair of the boards in the "Service position", make sure that the connectors are not disconnected.



2.3 Jig RCU mode

This unit uses the following two modes for receiving remote control codes.

- (1) User RCU mode: Ordinary mode for use by the user.
- (2) Jig RCU mode: Mode for use in production and servicing.

When using the Jig RCU, it is required to set the unit to the Jig RCU mode (the mode in which codes from the Jig RCU can be received). As both of the above two modes are stored in the EEPROM, it is required to set the unit back to the User RCU mode each time that an adjustment is made or to check that the necessary operations have been completed. These modes can be set by the operations described below.

Note:

- When the unit is set to Jig RCU mode and when the unit is under Jig RCU mode, the remote control unit attached to product operates only in "Remote Control Code 1". Since the unit is in "Remote Control Code 3" when it is shipped and just after its batteries are changed, "Remote Control Code 3" needs to be changed to "Remote Control Code 1."
- Confirm the RCU mode when exchanged parts. Since some SERVICE PARTS sets the unit to the Jig RCU mode as initial setting. Therefore please set the unit to the user RCU mode after replacing the EEPROM.

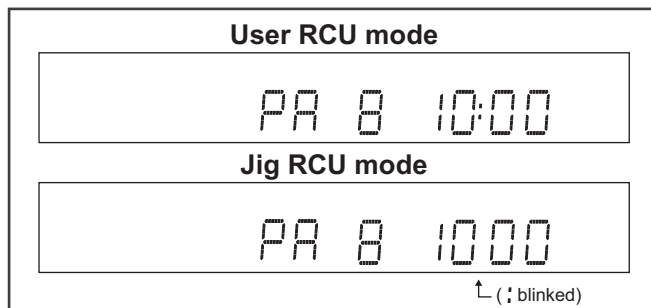


Fig.2-3a User/Jig RCU mode

2.3.1 Changing Remote Control Code

- (1) Slide the TV/CABLE/SAT/DVD switch to DVD.
- (2) Press the number key "1" of the remote control unit while pressing the "SET UP" button of the remote control unit. Then, press the "ENTER" button, and then release the "SET UP" button.
- (3) Press the "POWER" button on the unit to turn off the unit.
- (4) Press the "PLAY" button on the unit for over 5 seconds while the unit is turned off. The code currently set appears on the front display panel.
- (5) Press the "STOP" button on the remote control to change the unit's code. When FDP indicator displays "DVD1," it means that the Remote Control Code has been changed to "1."

2.3.2 Setting the Jig RCU mode

- (1) Turn on the power.
- (2) Press the "DV/HDD/DVD" select button repeatedly on the unit so that the DVD lamp lights up on the unit.
- (3) Press the following remote keys continuously within 2 seconds "SET UP" → "2" → "8" → "ENTER". When the unit is set to the Jig RCU mode, the symbols (" : ") in the time display of the FDP are blinked. (Refer to Fig.2-3a User/Jig RCU mode)

2.3.3 Setting the User RCU mode

- (1) Turn off the power.
- (2) Press the "REC" and "PAUSE" buttons of the unit simultaneously. Alternatively, transmit the code "43-9D" from the Jig RCU.

SECTION 3 DISASSEMBLY

3.1 Removing the major parts

3.1.1 Destination of connectors

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

↔ : Flat wire ↔ : Wire ↔ : Board to board (B-B)

□ : The connector of the side to remove

CONN. No.	CONNECTOR					PIN No.
WR2a	Main	CN101	↔	Digital	CN761	40
WR2b	Main	CN103	↔	Digital	CN762	10

Destination of connectors

CONN. No.	CONNECTOR					PIN No.
WR2a	Main	CN3104	↔	Operation/jack	CN7201	15
WR2b	Main	CN3102	↔	Display/switch	CN7001	15
WR3a	Junction	CN5504	↔	DVD unit		4
WR3b	Digital	CN2201	↔	DVD unit		40
WR4a	Digital	CN2101	↔	HDD		40
WR4b	Digital	CN1405	↔	Junction	CN1406	4
WR4c	Junction	CN5502	↔	Digital	CN1003	6
CN7108 (CN1001)	Junction	CN7108	↔	Digital	CN1001	28
CN7109 (CN1002)	Junction	CN7109	↔	Digital	CN1002	20
CN7121 (CN1802)	Junction	CN7121	↔	Digital	CN1802	14
WR5a	Junction	CN7126	↔	DV jack	CN4104	6
WR6a	SW. REG	CN5304	↔	Junction	CN5501	19
WR6b	SW. REG	CN5303	↔	HDD		4
WR6c	SW. REG	CN5301	↔	Main	CN5402	19
WR6d	SW. REG	CN5302	↔	Fun motor		2
WR8a	Junction	CN7127	↔	DV Main	CN2002	6
WR8b	Main	CN3103	↔	Junction	CN7102	19
WR8c	Main	CN2602	↔	Junction	CN8001	11
WR8d	Main	CN701	↔	Junction	CN7123	4
WR8e	Main	CN901	↔	Junction	CN7107	9
WR9a	Rear jack	CN951	↔	Main	CN902	8
WR9b	Rear jack	CN952	↔	Main	FW851	3
WR11a	DV Main	CN1502	↔	DV mechanism sensor		15
WR11b	DV Main	CN4001	↔	DV drum motor		8
WR11c	DV Main	CN1501	↔	DV MDA	CN5506	20
WR11d	DV Main	CN5501	↔	Main	CN5403	5
WR12a	Main	CN5404	↔	DV Main	CN1001	8
WR12b	Main	CN2601	↔	DV Main	CN3701	8
WR12c	Main	CN501	↔	DV Main	CN3501	7
WR12d	Main	CN3104	↔	DV Main	CN1503	7

3.1.2 How to read the procedure table

This table shows the steps for disassembly of the externally furnished parts and board assemblies. Reverse these steps when re-assembling them.

Step/ Loc No.	Part Name	Fig. No.	Point	Note
[1]	Top cover Bracket	3-1a	4(S1a),(S1b),3(L1a), 2(SD1a),(P1a),(W1a), CN1(WR1a), 2(S1c)	<Note 1a>
(1)	(2)	(3)	(4)	(5)

(1) Order of steps in Procedure

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

These numbers are also used as the identification (location) No. of parts Figures.

(2) Part name to be removed or installed.

(3) Fig. No. showing procedure or part location.

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

P= Spring, W= Washer, S= Screw, L= Locking tab, SD= Solder, CN**(WR**)= Remove the wire (WR**) from the connector (CN**).

Note:

- The bracketed () WR of the connector symbol are assigned nos. in priority order and do not correspond to those on the spare parts list.

(5) Adjustment information for installation

3.1.3 Disassembly procedure

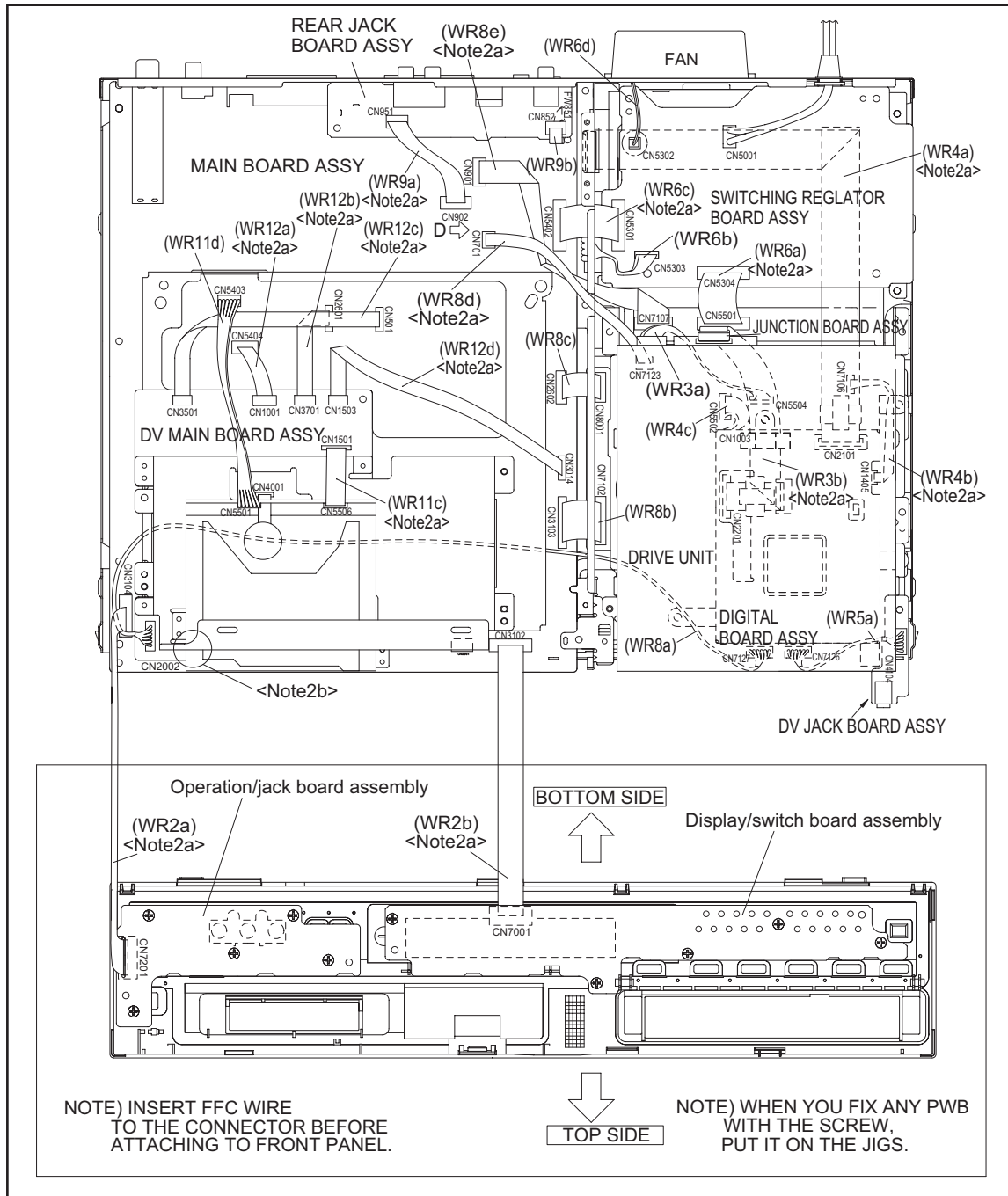
Step/ Loc No.	Part Name	Fig. No.	Point	Note
[1]	Top cover	3-1b	8(S1a)	
[2]	Front panel assembly (Operation jack board assembly) (Display/switch display board assembly)	3-1a 3-1b	(S2a),3(L2a),5(L2b) CN3104(WR2a),CN3102(WR2b)	<Note2a> <Note2b>
[3]	DVD unit (Bracket)	3-1a 3-1b	4(S3a),4(S3b) CN5504(WR3a),CN2201(WR3b)	<Note2a>
[4]	Digital board assembly	3-1a 3-1b	4(S4a),CN2101(WR4a) CN1405(WR4b),CN5502(WR4c), CN7108(CN1001),CN7109(CN1002) CN7121(CN1802)	<Note2a>
[5]	DV jack board assembly	3-1a,3-1b	(S5a),CN7126(WR5a)	<Note2a>
[6]	Switching regulator board assembly	3-1a 3-1b	4(S8a) CN5304(WR6a),CN5303(WR6b), CN5301(WR6c),CN5302(WR6d)	
[7]	HDD (Bracket),(Sheet)	3-1a 3-1b	4(S7a),4(S7b)	<Note2a>
[8]	Junction board assembly	3-1a 3-1b	(S8a),CN7127(WR8a), CN3103(WR8b), CN2602(WR8c), CN701(WR8d),CN901(WR8e)	<Note2a>
[9]	Rear jack board assembly	3-1b	3(S9a),CN951(WR9a),CN952(WR9b)	
[10]	Rear cover	3-1b	6(S10a),(S10b),3(L10a)	
[11]	DV mechanism assembly	3-1a 3-1b	3(S11a),CN1502(WR11a), CN4001(WR11b), CN1501(WR11c),CN5501(WR11d)	
[12]	DV main board assembly (Bracket)	3-1a 3-1b	4(S12a),4(S12b),CN5404(WR12a), CN2601(WR12b),CN501(WR12c), CN3104(WR12d)	
[13]	Bracket(DV MAIN)	3-1b	3(S13a)	<Note3a>
[14]	Main board assembly	3-1a,3-1b	3(S14a)	<Note3b>

- Be careful not to damage the connector and wire etc. during connection and disconnection.
- When connecting the flat wire to the connector, be careful with the flat wire direction.

- When attaching the Front panel assembly, make sure that the door opener of DV deck is in the down position.

- When reattaching the bracket(DV MAIN), secure the screws (S13a) in the order of 1,2,3.

- When reattaching the Main board assembly, secure the screws (S14a) in the order of 1,2,3.



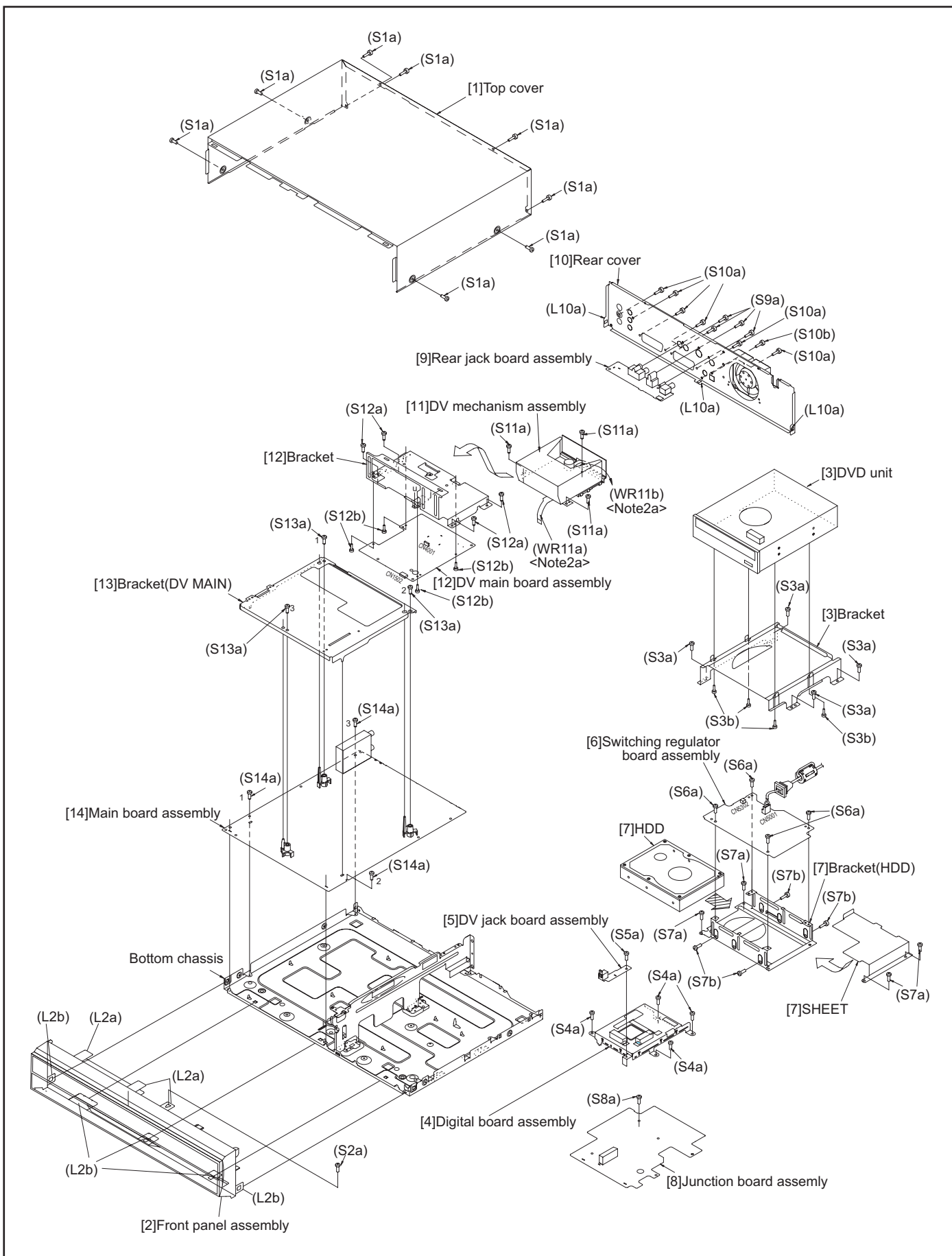


Fig.3-1b

SECTION 4 ADJUSTMENT

4.1 Before adjustment

4.1.1 Precautions

- (1) Observe the specified screw tightening torque when attaching parts. The torque should be 0.04 Nm (0.4 kgfcm) unless otherwise specified.
- (2) Always disconnect the power supply unit before proceeding to solder or attach parts.
- (3) When plugging or unplugging a wire, be careful not to damage the connector.
- (4) When replacing a part, be careful not to damage other parts or to mistakenly attach parts.

4.1.2 Tools required for adjustments

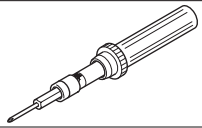
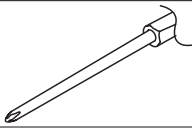
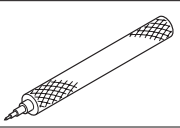
1 TORQUE DRIVER YTU94088 	2 BIT YTU94088-003 	3 Tool for installing slit washer YTU94121A 
4 Tool for replacing tip IC PTS40844-2 		

Table 4-1-1

4.1.3 Disassembly and assembly procedures

The following table shows the steps for assembling or disassembling the mechanism parts. Read the following descriptions carefully before actual assembly/disassembly operations.

- (1) : Order of disassembly steps. Reverse this order when assembling.
- (2) : Name of the disassembled/assembled part.
- (3) : Surface where the disassembled/assembled part is mounted. T = Top. B: Bottom.
- (4) : Number of disassembly drawing.

- (5) : Parts to be removed in disassembly/assembly, such as screws, washers and springs, and the points.

Symbol	Name & Point
S	Screw
W	Washer
P	Spring
*	Connector, lock(L), soldering(SD), shield, etc.

- [Example] • (W1) = Remove the washer W1.
• (P1) = Remove the spring P1.

- (6) : Notes for disassembly/assembly.

- (7) : For the phase alignment in disassembly/assembly and the parts which require phase adjustments after assembly, see "4.7 Mechanism phase check/adjustment".

4.1.4 Screws and washers used in disassembly/assembly of the mechanism assembly

Table 4-1-2 shows the symbols and part numbers of the screws and washers used in the mechanism assembly. When disassembling or assembling the mechanism assembly, be sure to attach screws and washers correctly by referring to the following table.

Symbol	Part number
(S1)	QYSDSP2005ZA
(S2)	YQ43893
(S3)	YQ43893-7

Symbol	Part number
(W1)	YQ44246
(W2)	YQ44246-3

Table 4-1-2

Step/Loc No.	Part Name	Fig. No.	Point	Note	Discription
1	[A] Cassette housing assembly/ [B] Mechanism assembly	T	1	2(S1),(L1) (L5)	1
2	[1]Drum assembly	T	2	3(S2)	2,3
3	[2]Motor bracket assembly	T	2	4(S2)	2,4
4	[3]Middle catcher assembly	T	3	3(S2)	



4.2 Disassembly/assembly of the mechanism assembly

4.2.1 Introduction

The disassembly and assembly of the mechanism assembly should usually be performed in the ASSEMBLY mode.(Table 4-2-1)
Note that the mechanism is in the cassette in (C-IN) mode when the mechanism assembly is taken out of the set and that the C-IN mode should be switched to the ASSEMBLY mode in this case.
To set the ASSEMBLY mode, apply 3 V DC to the electrodes on the upper part of the loading motor as shown in Fig. 4-2-7.

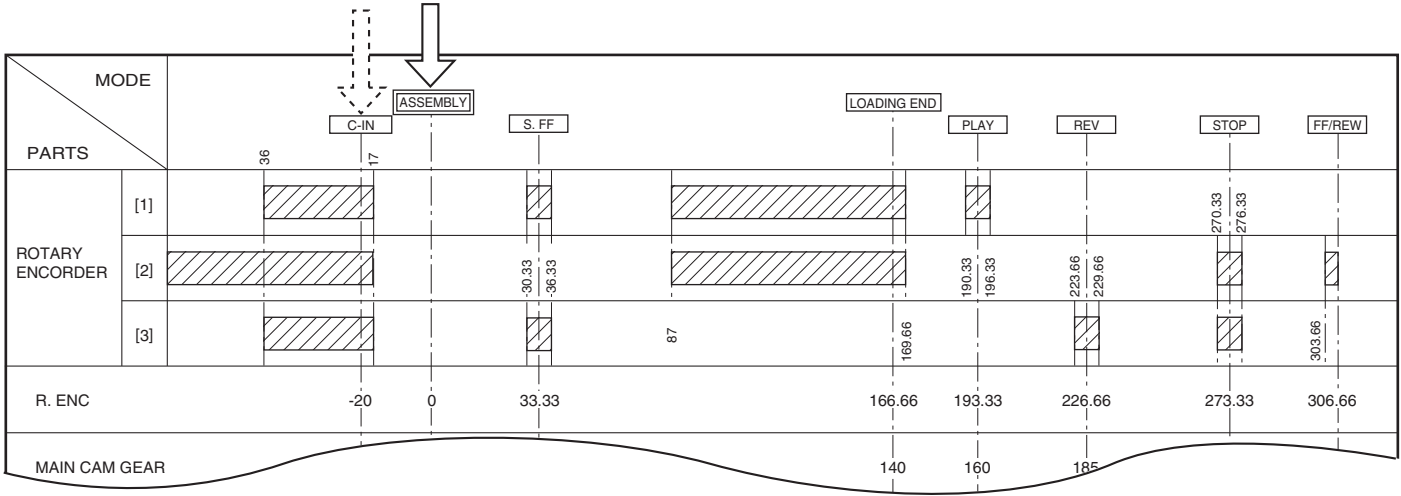


Table 4-2-1

4.2.2 Mechanism modes

The mechanism has 6 modes as shown in Table 4-3-1. The current mode can be confirmed by the positioning of the "U" marking on the sub-cam gear and the "▲" marking on the mechanism. See the following figures (Figs. 4-2-1 to -6) for details.

Note:

- This mechanism assembly has another ASSEMBLY mode. However, this mode cannot be identified from the markings because it corresponds to an intermediate position between the C-IN (C) mode and S-FF (H) mode. This mode can be confirmed by the rotary encoder phase. See Fig. 4-2-7.

1. Checking the mechanism mode

<C-IN : [C] >

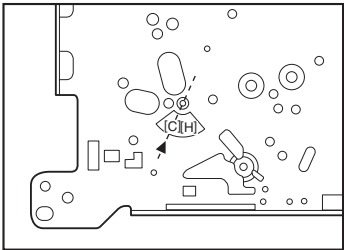


Fig.4-2-1

<S-FF : [H] >

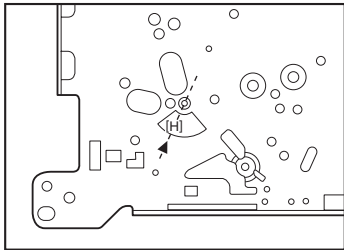


Fig.4-2-2

<PLAY : [P] >

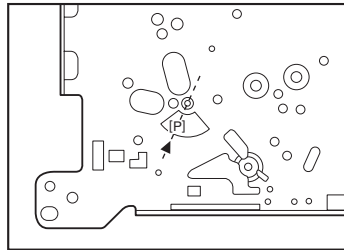


Fig.4-2-3

<REV : [R] >

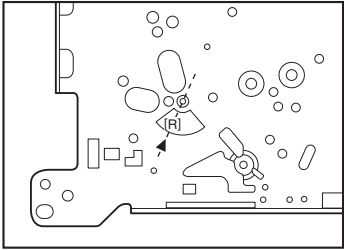


Fig.4-2-4

<STOP : [S] >

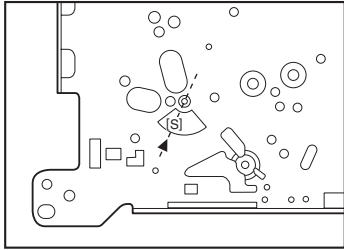


Fig.4-2-5

<FF/REW : [F] >

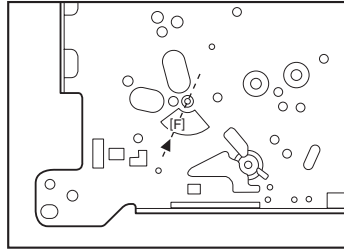


Fig.4-2-6

2. Setting/checking the ASSEMBLY mode

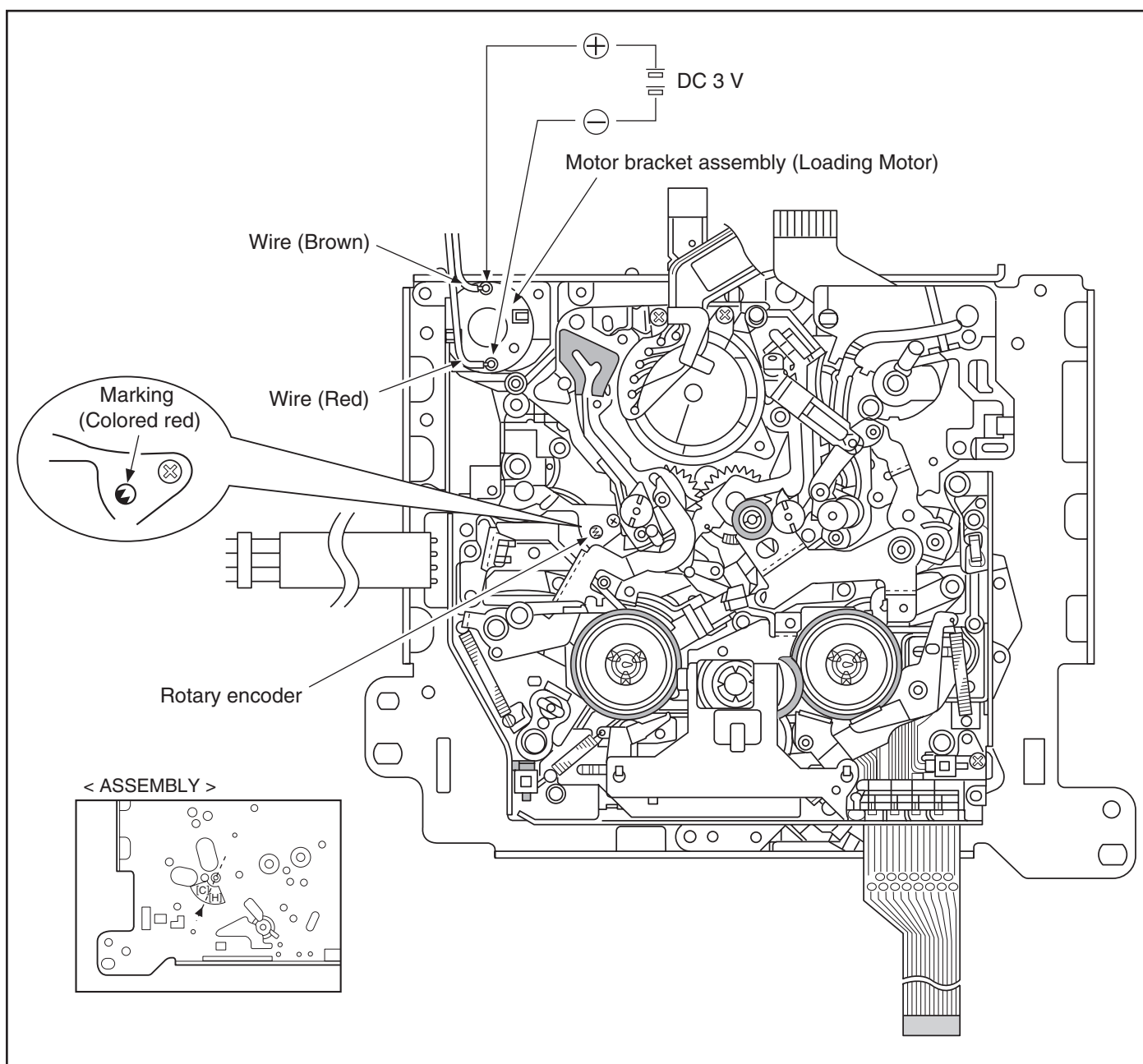


Fig.4-2-7

4.3 Mechanism timing chart

See following table (Table 4-3-1).

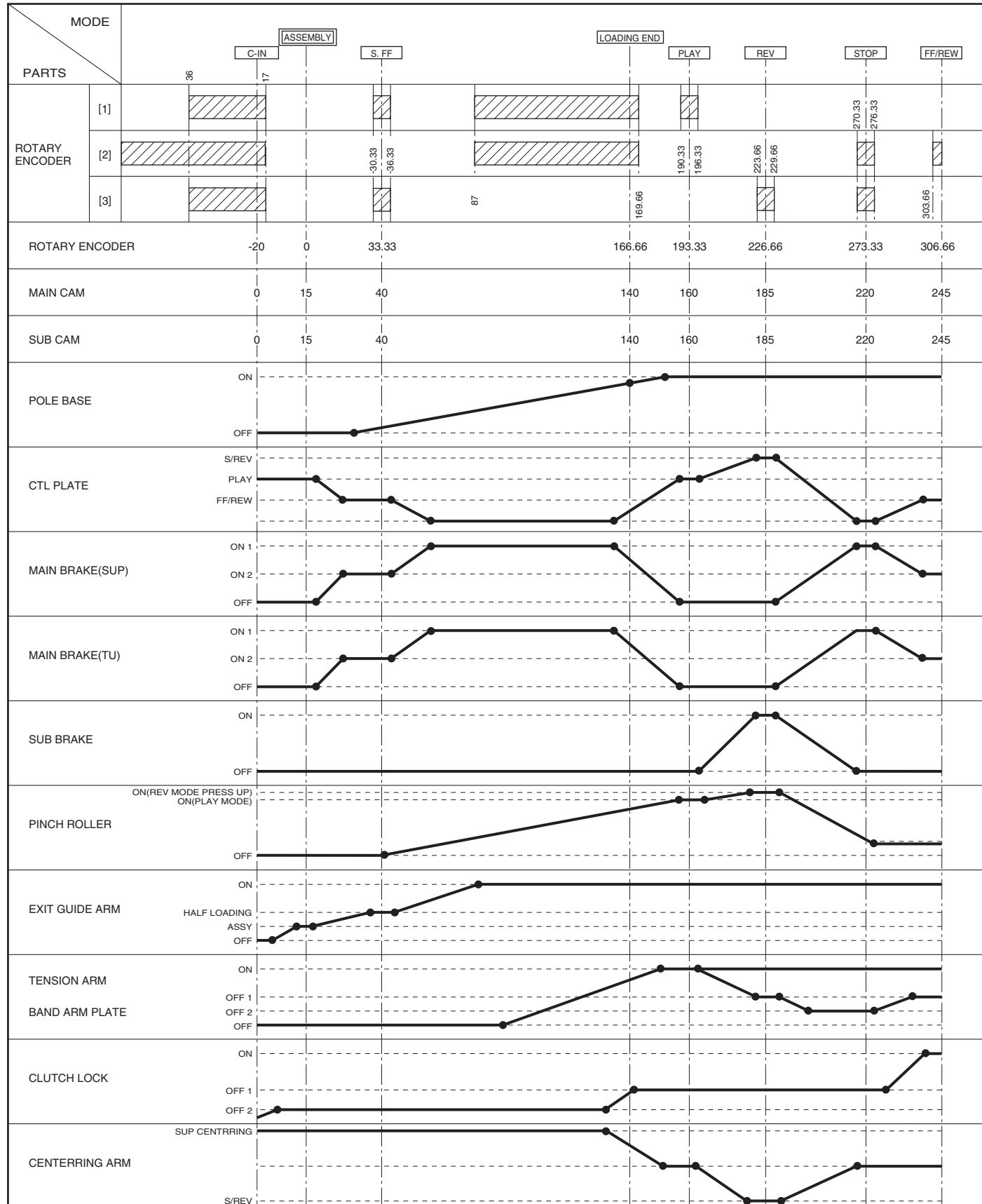


Table 4-3-1

4.4 Mechanism assembly/disassembly procedure table

Step/Loc No.	Part Name		Fig. No.	Point	Note	Discription
1	[A] Cassette housing assembly/ [B] Mechanism assembly	T	4-5-1	2(S1),(L1) (L5)	1	
2	[1] Drum assembly	T	4-5-2	3(S2)	2,3	
3	[2] Motor bracket assembly	T	4-5-2	4(S2)	2,4	
4	[3] Middle catcher assembly	T	4-5-3	3(S2)		
5	[4] Reel cover assembly	T	4-5-3	(S2), 2(L6)	5	
6	[5] Pinch roller arm assembly	T	4-5-4	(W1), (L7)	6	
7	[6] Sub brake assembly	T	4-5-4	(P1), (W1), (L8)		
8	[7] Band arm plate sub assembly	T	4-5-4	(S3), (L9), (P2), (W2)	7,8	
9	[8] Tension arm sub assembly	T	4-5-4	(P3)	8	
10	[9] EXIT guide arm assembly	T	4-5-5	(W1)		
11	[10] Swing arm assembly	T	4-5-5			Position alignment
12	[11] Sub deck assembly	T	4-5-6	4(S2)	9	Position alignment
13	[12] Main brake (Supply) assembly	T	4-5-6	(P4), (L10)		
14	[13] Main brake (Take up) assembly	T	4-5-6	(P5), (L11)		
15	[14] Reel disk assembly (Supply)	T	4-5-7			
16	[15] Reel disk assembly (Take up)	T	4-5-7			
17	[16] Prism	T	4-5-7	(S2)		
18	[17] Control plate	T	4-5-7	2(L12)		
19	[18] Guide rail (Take up) assembly	T	4-5-8	4(S2)	10	Position alignment
20	[19] Guide rail (Supply) assembly	T	4-5-8	(S2), 2(L13)	10	Position alignment
21	[20] Base plate assembly	T	4-5-8	(S2), 2(L14)		
22	[21] Ent. guide base assembly	T	4-5-9	(S2)		
23	[22] Worm wheel 2	T	4-5-9		11	Phase alignment
24	[23] Timing belt	T	4-5-9			
25	[24] Center gear assembly	T	4-5-9			
26	[25] Reel drive pulley assembly	T	4-5-10	(W1)		
27	[26] Push plate	T	4-5-10	(W1)		
28	[27] Clutch lock gear (2)	T	4-5-10			
29	[28] Clutch lock gear (1)	T	4-5-10	(P6)		
30	[29] Tension control arm assembly	T	4-5-11	(L15)	12	Position alignment
31	[30] Brake control arm assembly	T	4-5-11	(W1), (L16)	12	Position alignment
32	[31] Charge arm assembly	T	4-5-11	(L17)	13	Position alignment
33	[32] Connect gear 2	T	4-5-12	(S2)		(Phase alignment)
34	[33] Connect gear 2	T	4-5-12	(S2)		(Phase alignment)
35	[34] Rotary encoder assembly	T	4-5-13	2(S2)	14	Phase alignment
36	[35] Main cam	T	4-5-13	(W1)	15	Phase alignment
37	[36] Arm gear 1 assembly	T	4-5-13	Collar	15,16	Position alignment
38	[37] Centering arm assembly	T	4-5-13	(L18)	15	Position alignment
39	[38] Sub cam	T	4-5-14	(S2)	17	Phase alignment
40	[39] Arm gear 2 assembly	T	4-5-14		17	Position alignment
41	[40] Clutch lock lever assembly	T	4-5-14	(L19)	17,18	Position alignment
42	[41] Capstan motor	T	4-5-15	(P7), Adjust nut		Vertical adjustment
43	[42] Drum base deck	T	4-5-15	3(S2)		

TOP VIEW

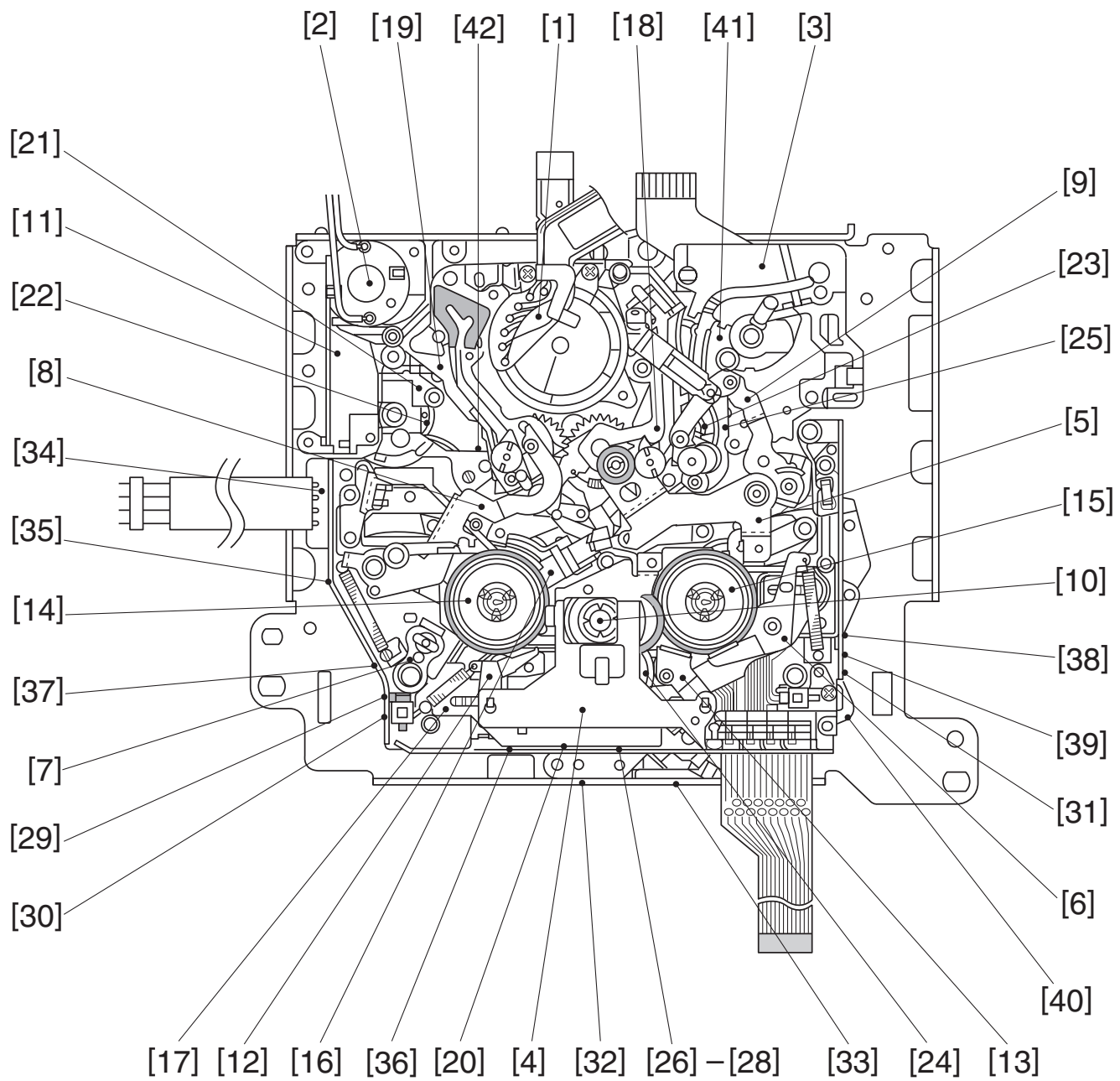


Fig.4-4-1

4.5 Disassembly/assembly

1. [A] Cassette housing assembly/ [B] Mechanism assembly

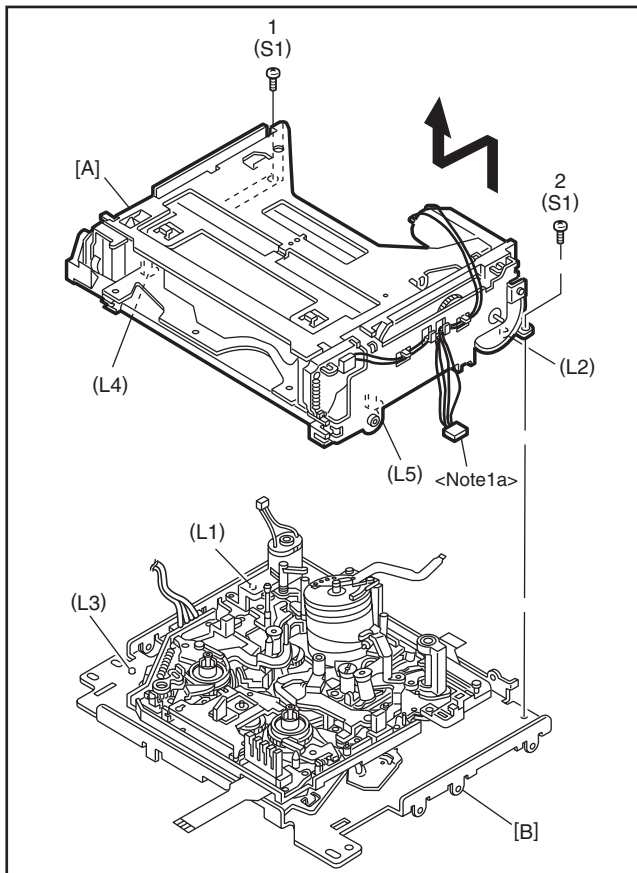


Fig.4-5-1

< Note 1a >:

If the wires for the cassette housing motor are connected to the circuit board, remove them before disassembly.

2. [1] Drum assembly / [2] Motor bracket assembly

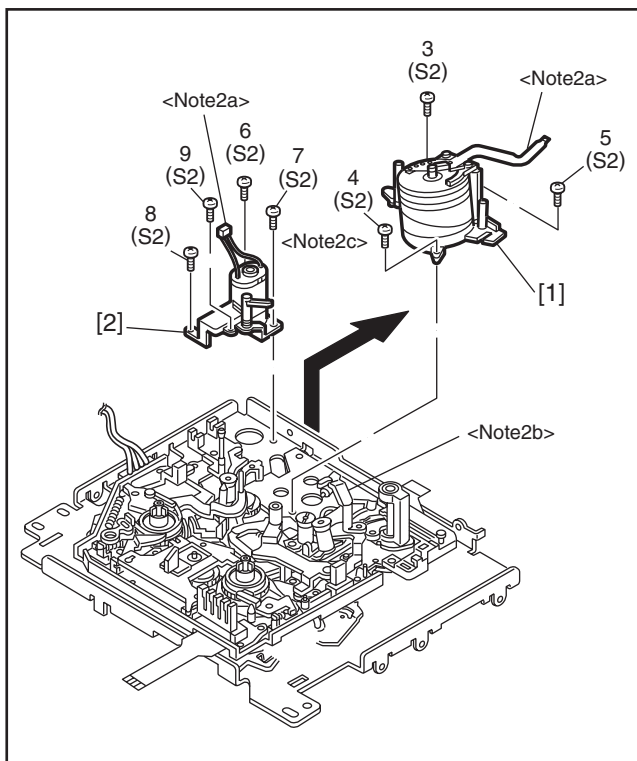


Fig.4-5-2

< Note 2a >:

If wires are connected to the circuit board, remove them before disassembly.

< Note 2b >:

Be careful not to damage the drum assembly when removing it.

< Note 2c >:

The bracket (DV) may come in the way of removal of screw (7). Be sure to remove the bracket before proceeding to the screw removal.

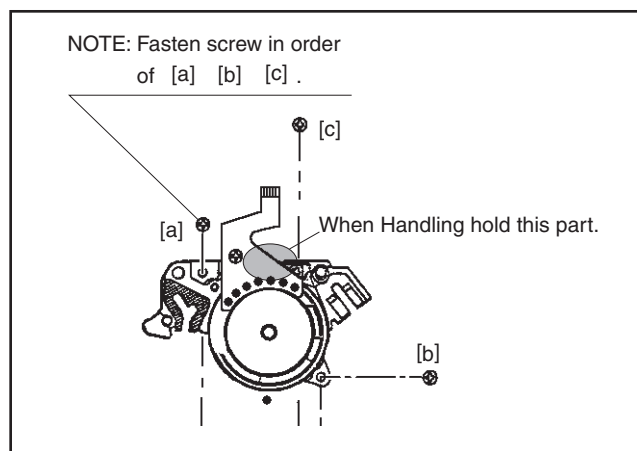


Fig.4-5-2a

3. [3] Middle catcher assembly/ [4] Reel cover assembly

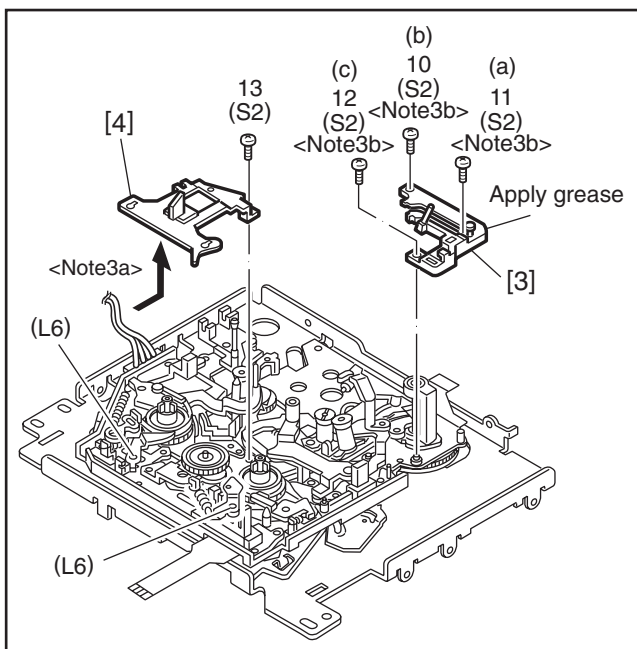


Fig.4-5-3

< Note 3a >:

Once the reel cover assembly has been removed, the parts located below it tend to slip out easily: Be careful.

< Note 3b >:

When attaching these screws, screwing order (a),(b),(c)

4. [5] Pinch roller arm assembly/[6] Sub brake assembly/[7] Band arm plate sub assembly/ [8] Tension arm sub assembly

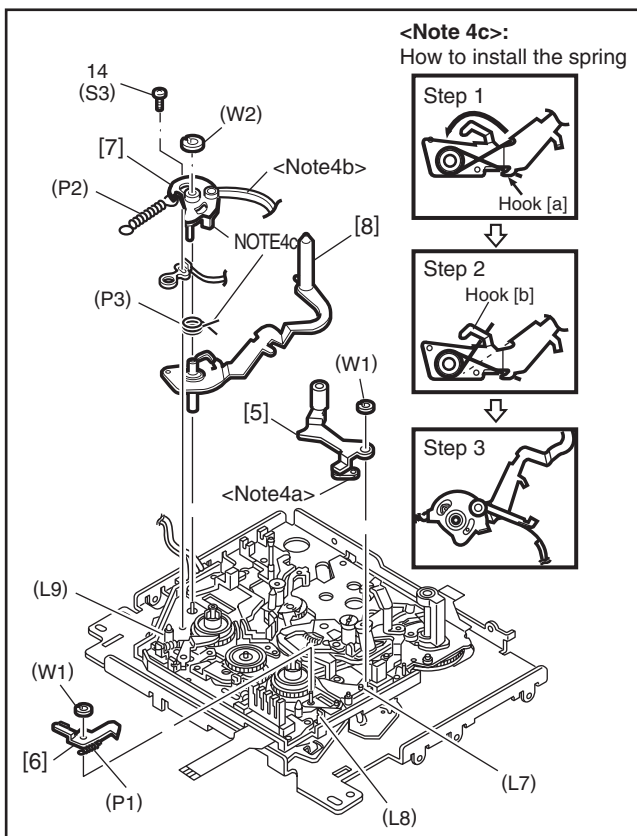


Fig.4-5-4

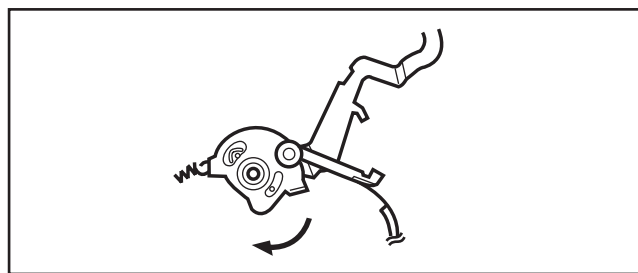


Fig.4-5-4a

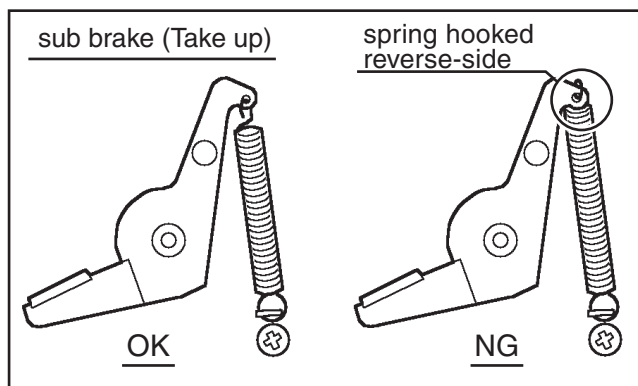


Fig.4-5-4b

< Note 4a >:

When attaching this part, fit it in the boss (L7) on the charge arm assembly.

< Note 4b >:

When attaching or removing this part, take care of the handling of the band section.

< Note 4c >:

After fitting the spring on the shaft, engage it with hook [a] first then with hook [b] .

After attaching it, set it to the positioning shown in "Step 3" and confirm that band arm plate sub assembly [7] can be rotated in the direction of the arrow as shown below.

5. [9] Exit guide arm assembly/ [10] Swing arm assembly

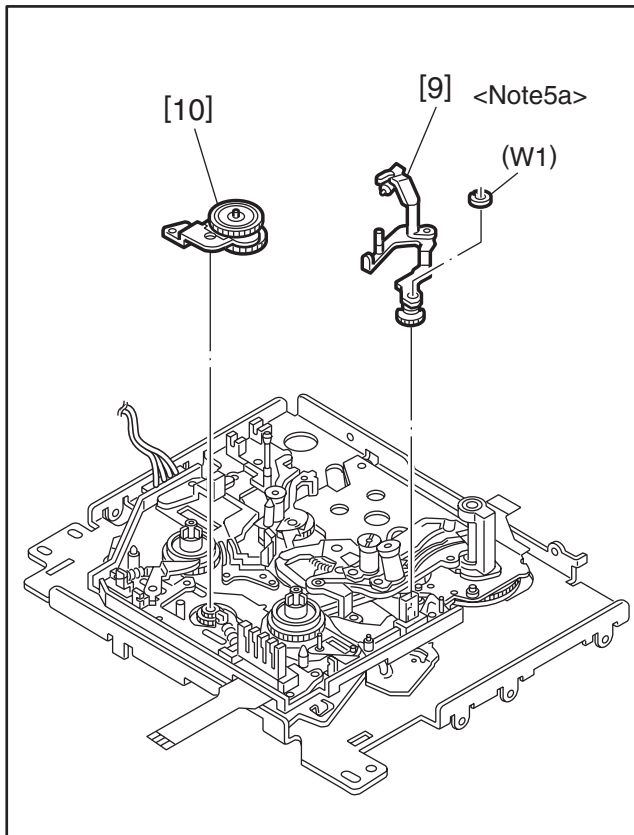


Fig.4-5-5

< Note 5a >:

Exit guide arm assembly phase alignment.

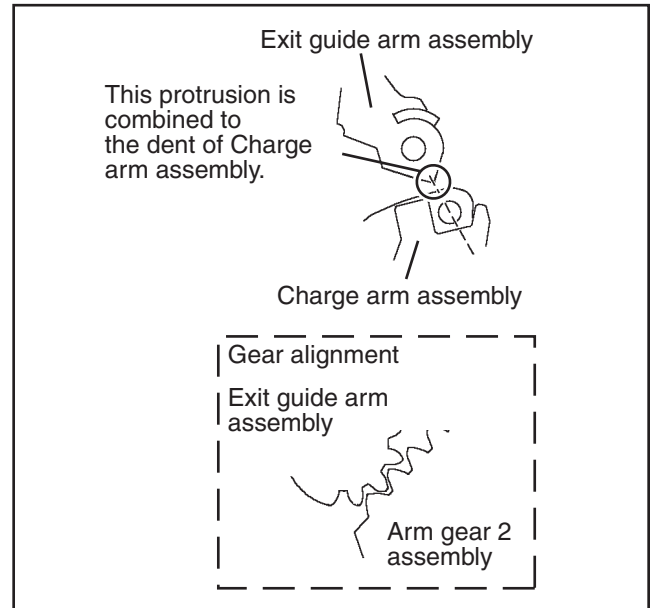


Fig.4-5-5a

6. [11] Sub deck assembly/ [12] Main brake (Supply) assembly/[13] Main brake (Take up) assembly

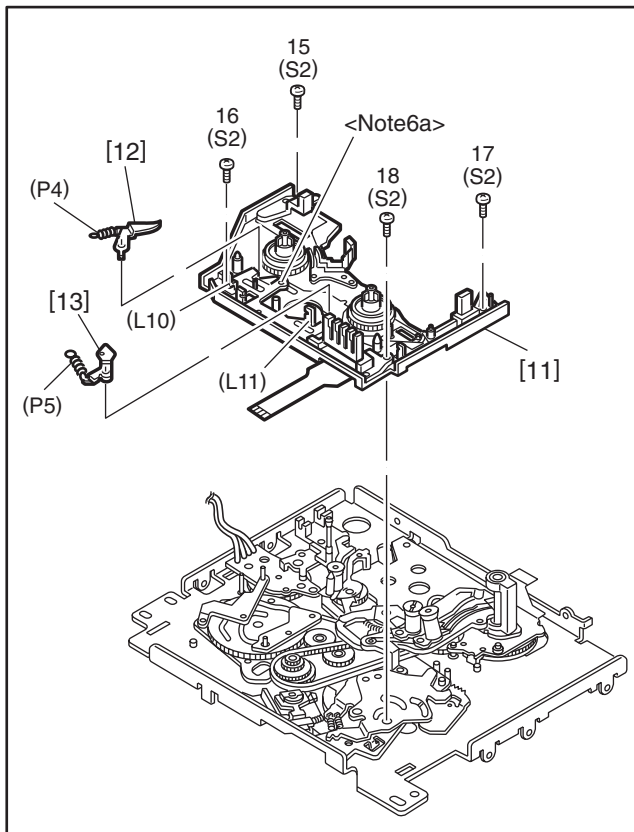


Fig.4-5-6

< Note 6a >:

When attaching the sub deck assembly, make sure to adjust the phase of the control plate.

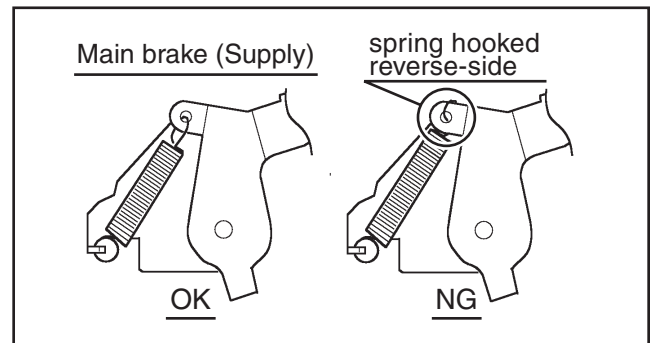


Fig.4-5-6a

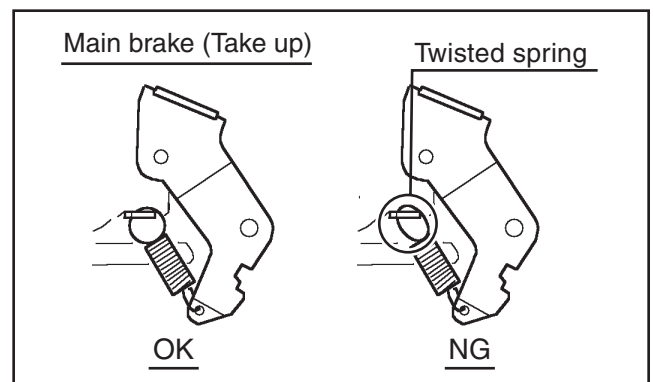


Fig.4-5-6b

7. [14] Reel disk assembly (Supply) / [15] Reel disk assembly (Take up) / [16] Prism / [17] Control plate

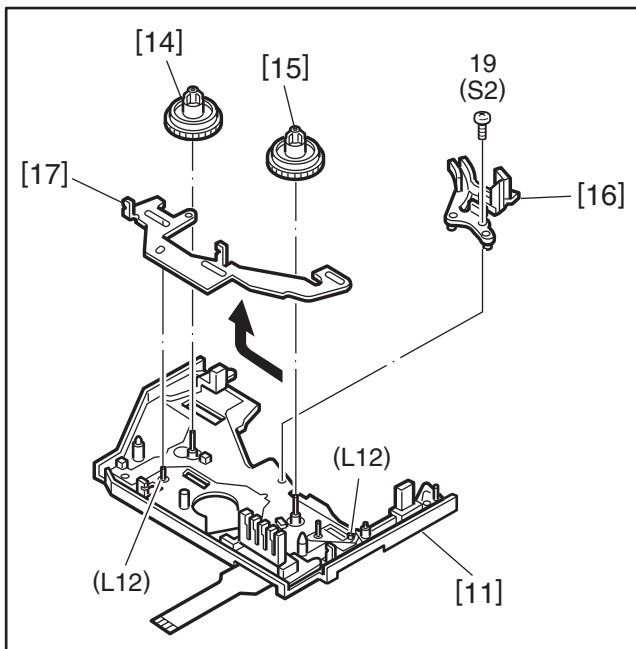


Fig.4-5-7

8. [18] Guide rail (Take up) assembly / [19] Guide rail (Supply) assembly / [20] Base plate assembly

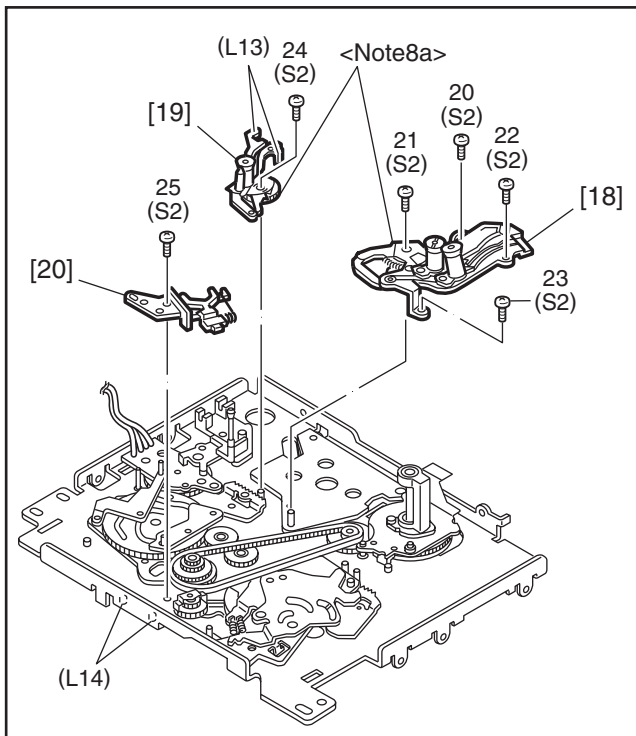


Fig.4-5-8

< Note 8a >:

When attaching, set the alignment markings of the two gears so that the markings face opposite to each other.

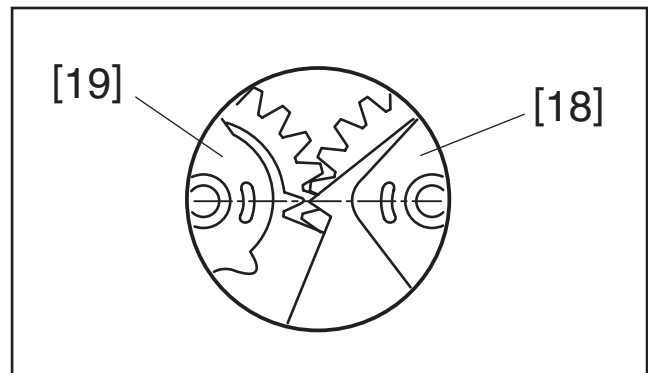


Fig.4-5-8a

9. [21] Ent. guide base assembly / [22] Worm wheel 2 / [23] Timing belt / [24] Center gear assembly

< Note 9a >:

How to attach the worm wheel 2 [22] .

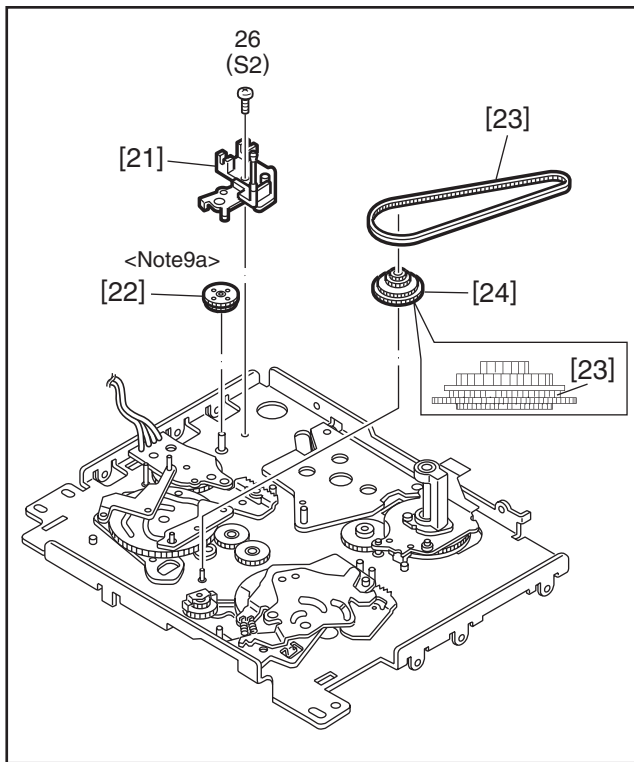
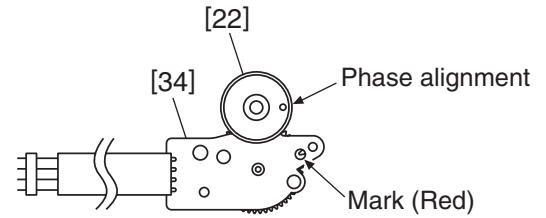


Fig.4-5-9



Align the phase of the rotary encoder assembly [34], then attach it by aligning the phase hole of the mechanism assembly.

Fig.4-5-9a

10. [25] Reel drive pulley assembly / [26] Push plate/ [27] Clutch lock gear (2) / [28] Clutch lock gear (1)

< Note 10a >:

After attaching (W1), confirm that pushes [26] from the top and hit to MAIN DECK. If there are a rattling or inclination in [26] , reconfirm the attachment of (P6). (Take care to the oblique insertion of (P6).)

< Note 10b >:

Attach (P6) straight for it which does not get on on the flange of [28]

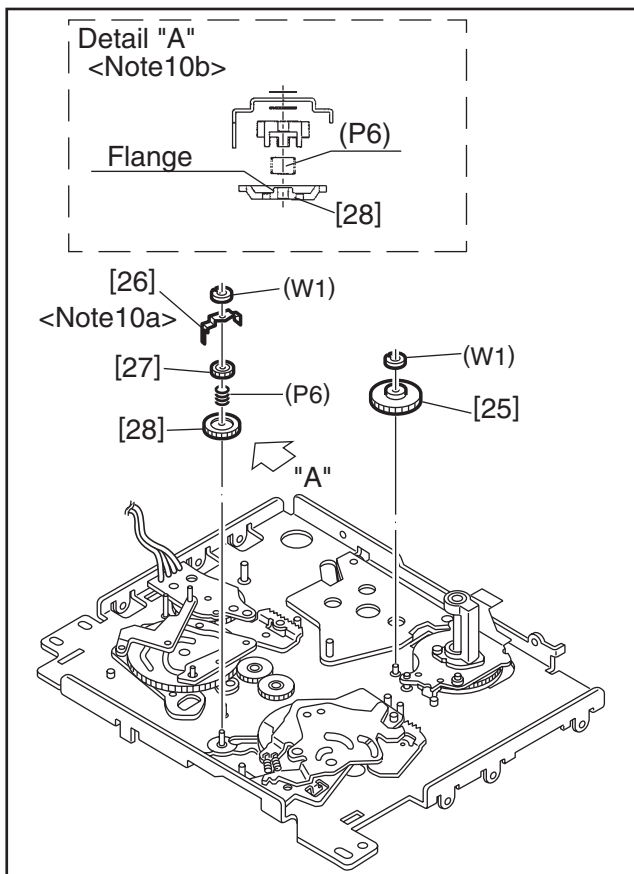


Fig.4-5-10

11. [29] Tension control arm assembly/ [30] Brake control arm assembly / [31] Charge arm assembly

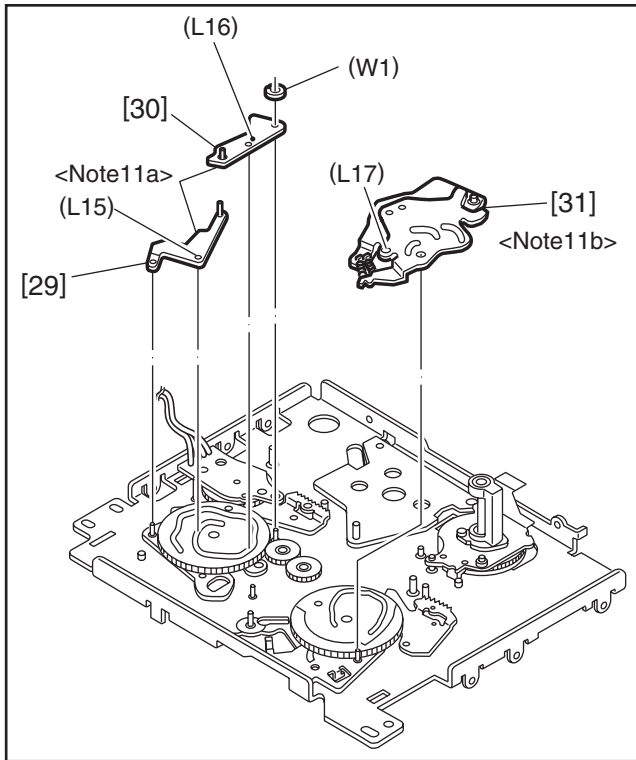


Fig.4-5-11

< Note 11a >:

How to attach the tension control arm assembly [29] / Brake control arm assembly [30] .

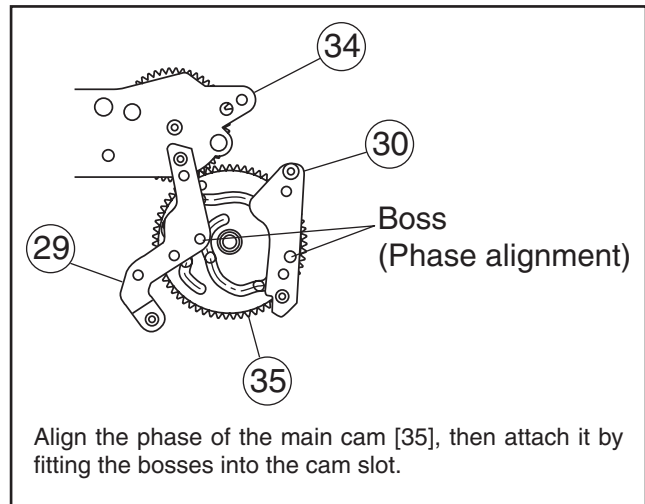


Fig.4-5-11a

< Note 11b >:

How to attach the charge arm assembly [31]

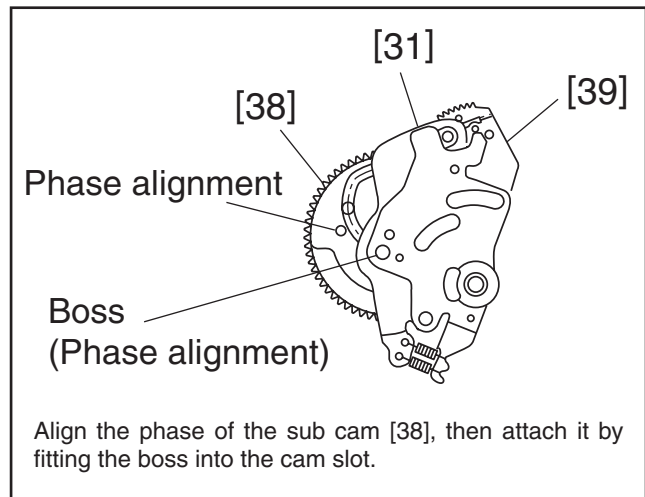


Fig.4-5-11b

12. [32] Connect gear 2 / [33] Connect gear 2

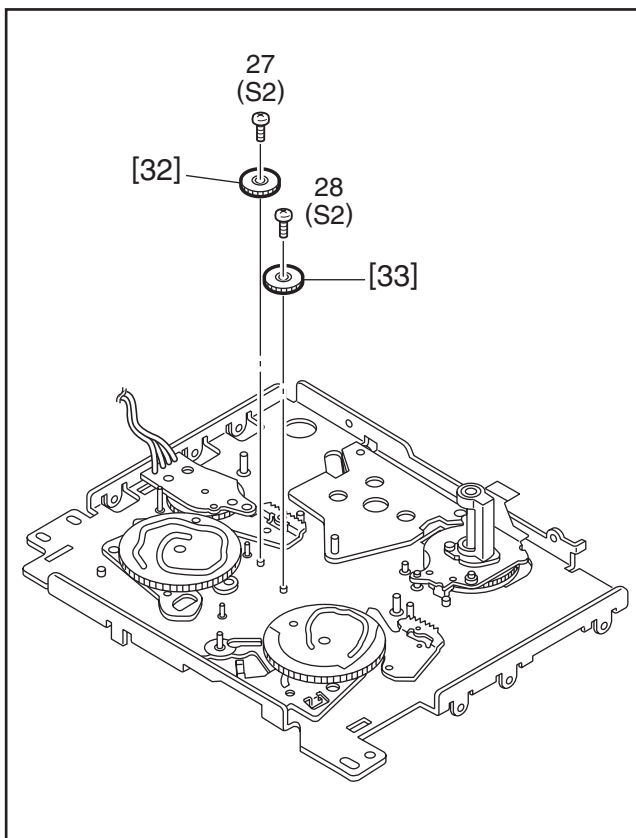


Fig.4-5-12

13. [34] Rotary encoder assembly / [35] Main cam / [36] Arm gear 1 assembly / [37] Centering arm assembly

< Note 13a >:

How to attach the rotary encoder assembly [34].

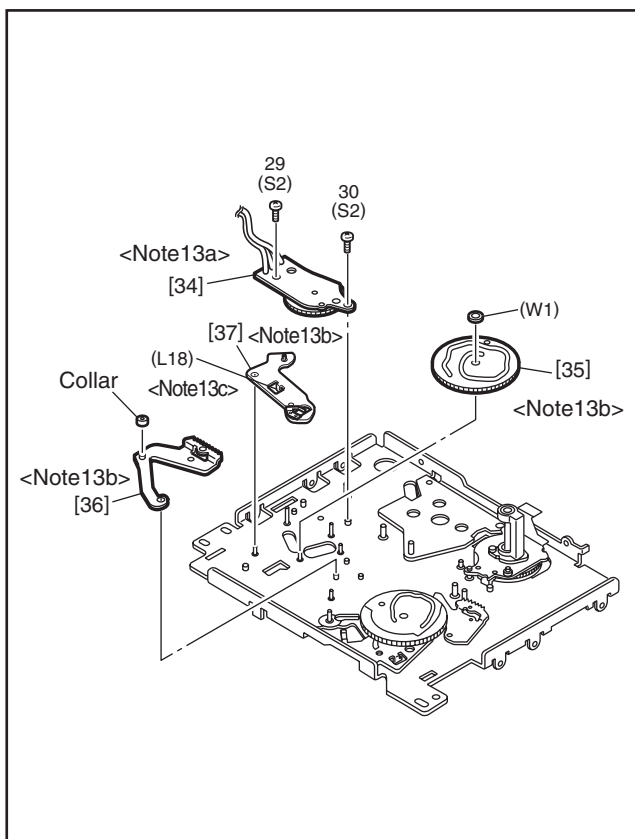
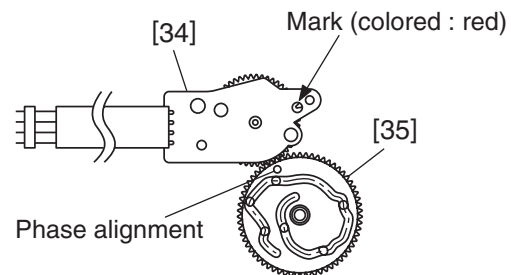


Fig.4-5-13

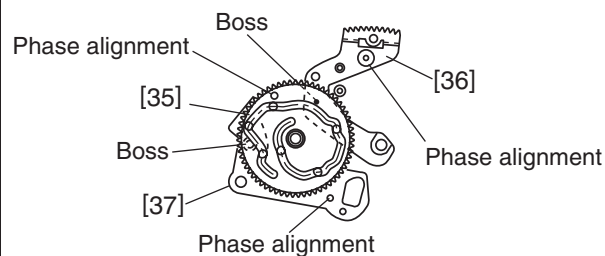


Align the phase of the main cam [35], then attach it by placing the (red) coloured markings (on 2 gear teeth) within the encircled area.

Fig.4-5-13a

< Note 13b >:

How to attach the main cam [35].



Align the phases of the arm gear 1 assembly [36] and centering arm assembly [37], then attach the arm gear 1 assembly [36]/centering arm assembly [37] by fitting the bosses into the lower cam slot, and fit the slit washer.

Fig.4-5-13b

< Note 13c >:

How to remove the centering arm assembly [37]. The center arm assembly is located behind the mechanism assembly when the phase is aligned correctly. The center arm assembly can be removed by displacing it in the direction of the arrow.

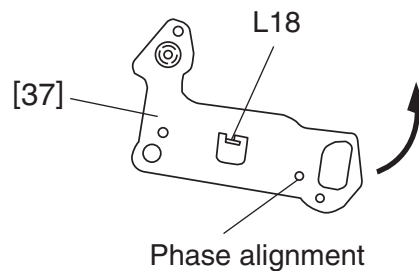


Fig.4-5-13c

14. [38] Sub cam / [39] Arm gear 2 assembly / [40] Clutch lock lever assembly

< Note 14a >:

How to attach the sub cam [38].

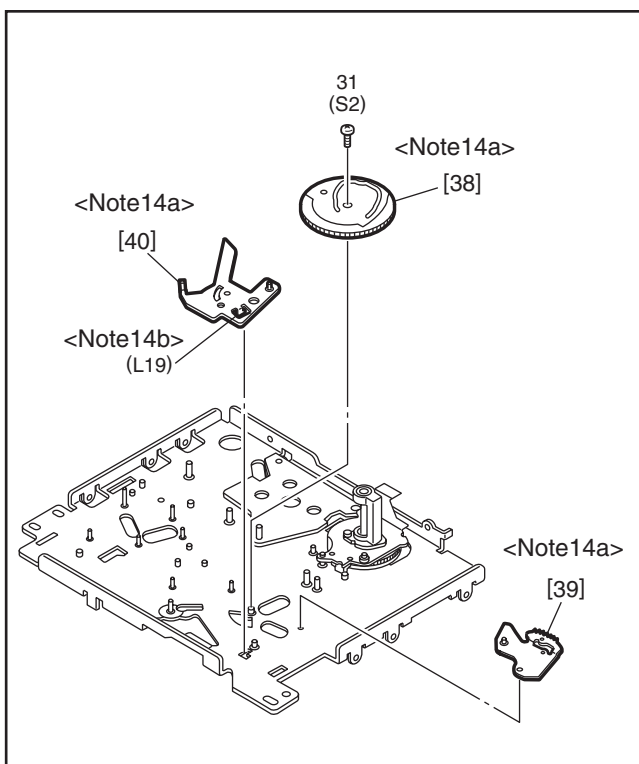


Fig.4-5-14

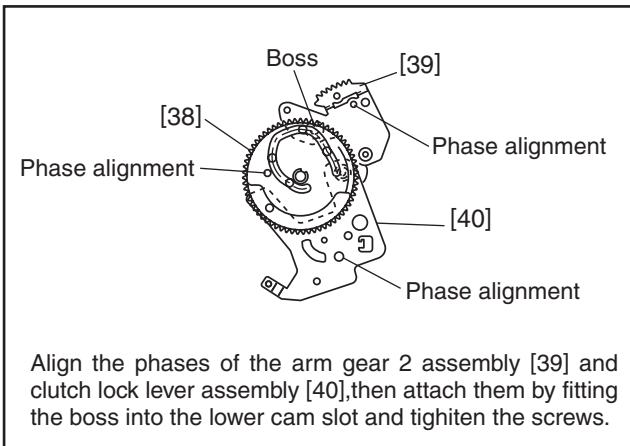


Fig.4-5-14a

< Note 14b >:

How to remove the clutch lock lever assembly [40] L19 is located behind the mechanism assembly when the phase is aligned correctly. The clutch lock lever assembly can be removed by displacing it in the direction of the arrow.

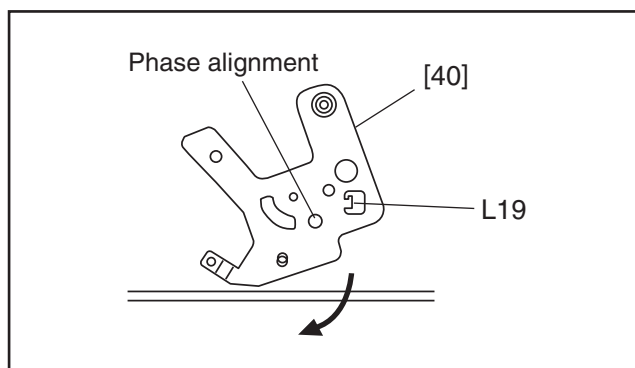


Fig.4-5-14b

15. [41] Capstan motor / [42] Drum base deck

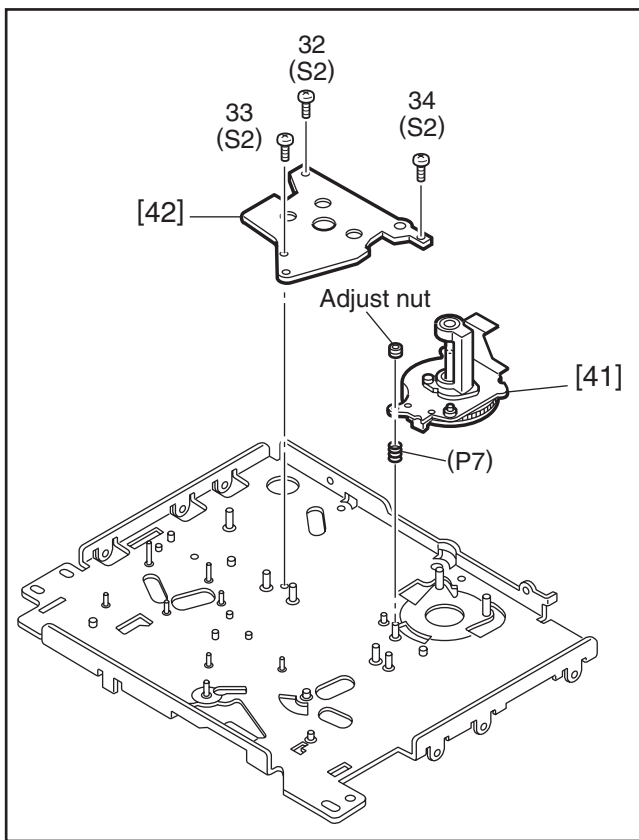


Fig.4-5-15

4.6 List of procedures or disassembly

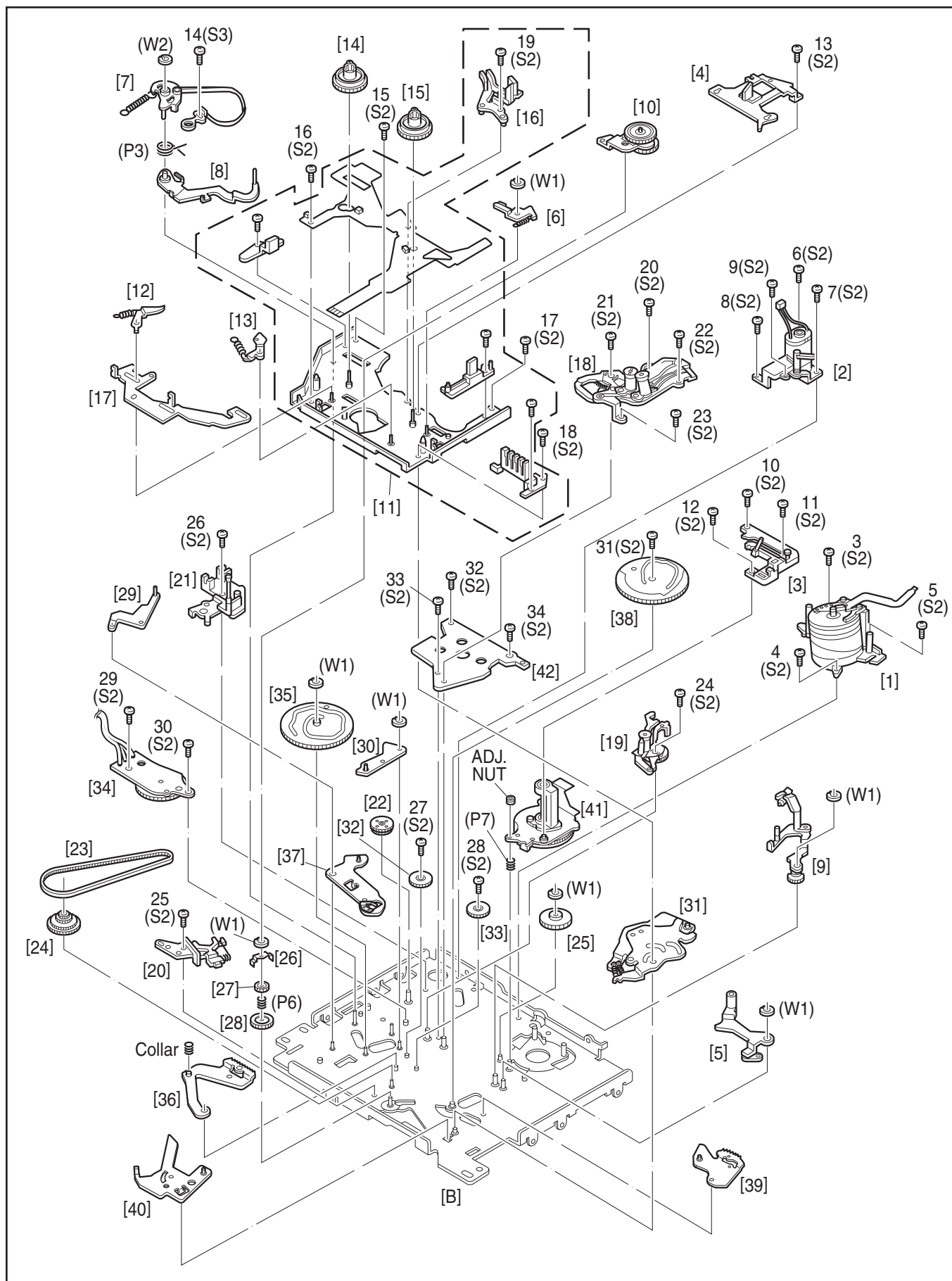


Fig.4-6-1

4.7 Mechanism phase check/adjustment

See Fig 4-7-1.

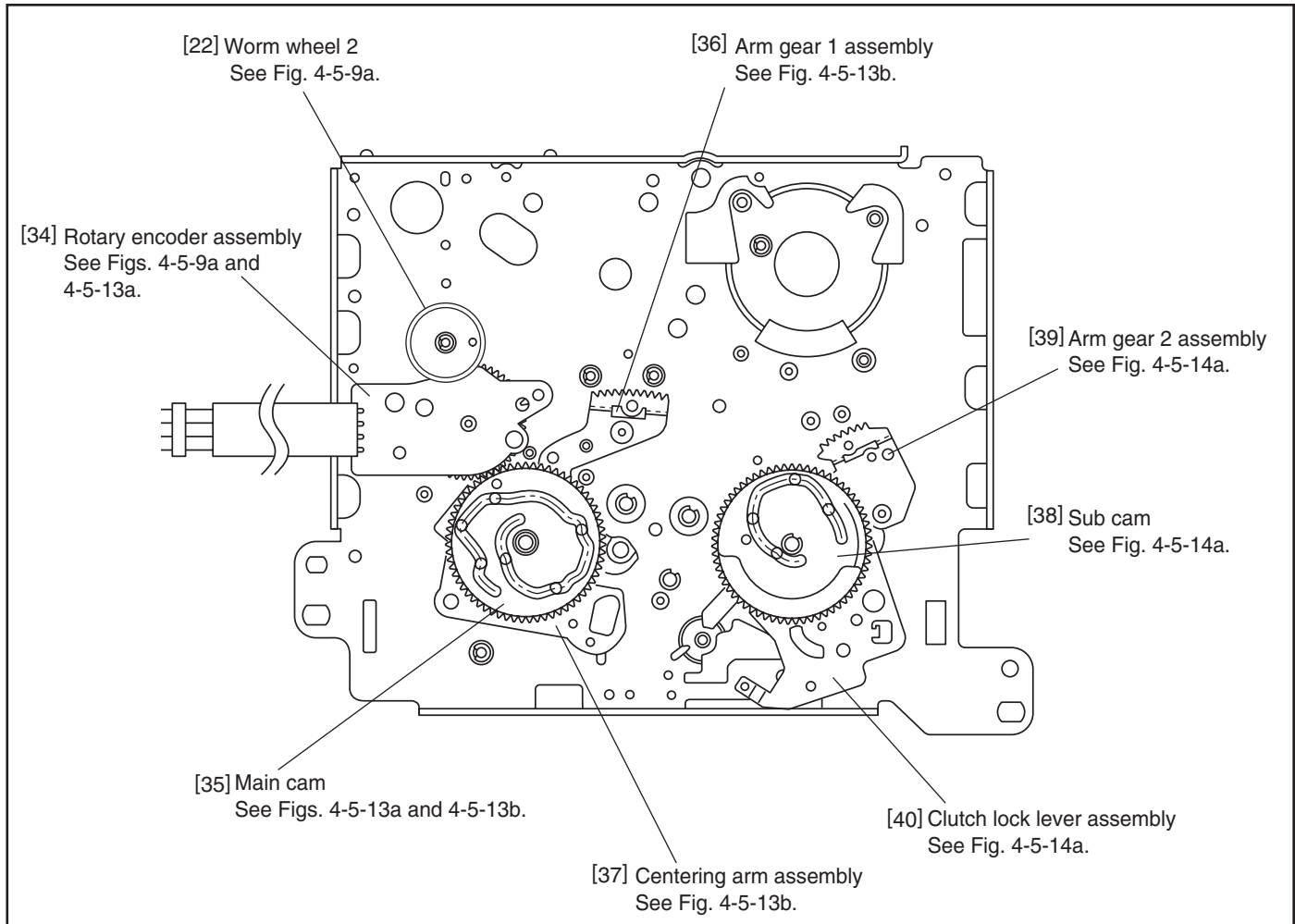


Fig.4-7-1

4.8 Mechanism disassembly/assembly sheet

Screw Management Table	Fig. No.	[A]		[1]			[2]				[3]			[4]	[7]	[11]			
	No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	Type	S1	S1	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S3	S2	S2	S2	S2
	Attachin																		
	Ref. Fig.	4-5-1		4-5-2							4-5-3				4-5-4		4-5-6		

[A] Cassette housing assembly S1×2, L1-L5			[1] Drum assembly S2×3			[4] Reel cover assembly S2, L6×2					
[2] Motor bracket assembly S2×4			[5] Pinch roller arm assembly W1, L7			[3] Middle catcher assembly S2×3			[6] Sub brake assembly P1, W1, L8		
[17] Control plate L12×2			[18] Guide rail (Take up) assembly S2×4			[19] Guide rail (Supply) assembly S2, L13×2					
[24] Center gear assembly W1	[25] Reel drive pulley assembly W1	[26] Push plate W1	[27] Clutch lock gear (2) W3	[28] Clutch lock gear (1) P6	[29] Tension control arm assembly L15	[30] Brake control arm assembly W1, L16					
[35] Main cam W1		[36] Arm gear 1 assembly COLLAR		[37] Centering arm assembly L18		[38] Sub cam S2					

Fig.4-8-1a

[16]	[18]				[19]	[20]	[21]	[32]	[33]	[34]		[38]	[42]		
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2	S2
4-5-7	4-5-8						4-5-9	4-5-12	4-5-13		4-5-14	4-5-15			

[7] Band arm plate sub assembly S3, P2, L9, W2	[11] Sub deck assembly S2×4			[12] Main Brake(Supply) assembly P4, L10	[13] Main Brake(Take up) assembly P5, L11
[8] Tension arm sub assembly P3				[14] Reel disk assembly (Supply)	[15] Reel disk assembly (Take up)
[9] EXIT guide arm assembly W1	[10] Swing arm assembly			[16] Prism S2	
[20] Base plate assembly S2, L14×2	[21] Ent. guide base assembly S2	[22] Worm wheel 2		[23] Timing belt	
[31] Charge arm assembly L17	[32] Connect gear 2 S2	[33] Connect gear 2 S2		[34] Rotally encoder assembly S2×2	
[39] Arm gear 2 assembly	[40] Clutch lock lever assembly L19	[41] Capstan motor Adjust nut, P7		[42] Drum base deck S2×3	

Fig.4-8-1b

4.9 Positioning the tension pole

See Fig.4-9-1.

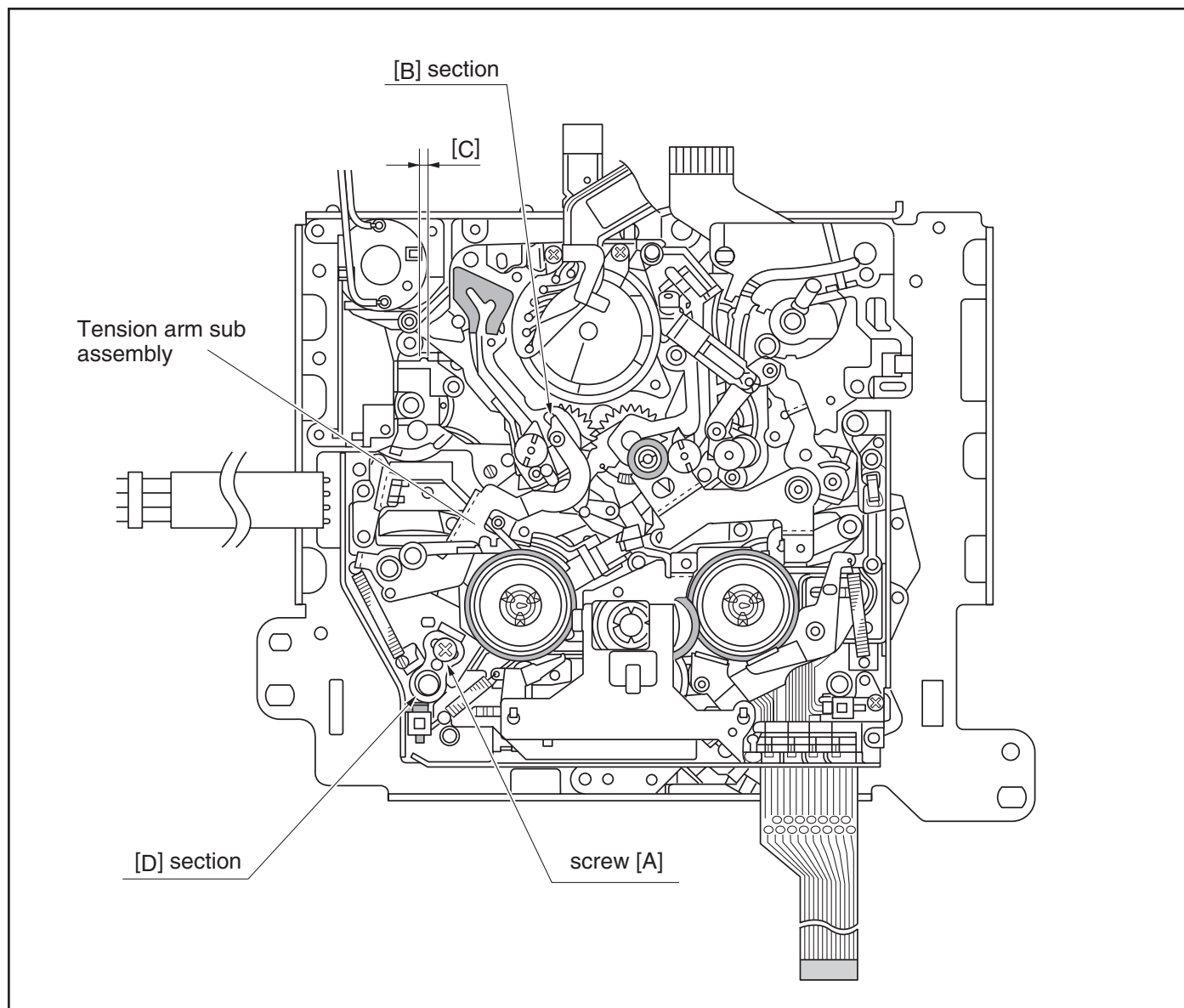


Fig.4-9-1

4.9.1 Adjustment Method

Note:

- Remove the cassette housing assembly in advance.
- (1) Set the mechanism mode to the PLAY mode. (See 4.2.2 Mechanism modes)
- (2) Loosen a screw [A].
- (3) Check the location of the tip (section [B]) of the tension arm assembly to make sure that it is within area [C]. If it is located outside, turn part D to bring it within the specified area.
- (4) Tighten the screw [A].

Note :

Tightening torque for the screw [A] : 0.06 N.m (0.6kgf.cm)

4.10 Compatibility and error rate adjustment

4.10.1 Preparation

Before disassembly and adjustment, back up the data stored in the EEPROM (IC1504 on the DV MAIN board) using the Service Support System Software (SSS software).

Table 4-13-1 shows the important service points for the compatibility and error rate adjustments.

	Linearity adjustment	PB Switching point adjustment	Error rate adjustment
Drum replacement	Required Note 1	Required	Required
Transport part replacement	Required Note 1	Not	Check
Transport part (drum) repair	Required Note 1	Not	Check
IC4001(PRE/REC amp on DV MAIN board) replacement	Not	Not	Check
IC2001(PB. EQ on DV MAIN board) replacement	Not	Not	Required
DV MAIN board replacement Note 2	Not	Required	Required

Table 4-13-1

Note 1 :

- The linearity adjustment is required only after servicing or replacing the drum or the take up/supply guide rail.

Note 2 :

- After replacing the DV MAIN board, write the original data in the EEPROM of the new board. If write communication is not possible, mount the original EEPROM on the new board.

When adjustments of more than one item are required, use the following order for the adjustments.

4.10.3 Linearity adjustment



4.10.4 PB switching point adjustment



4.10.5 Error rate adjustment

4.10.2 Adjustment

The actual adjustment requires the following preparation.

4.10.2.1 Tools required for adjustment

Alignment tape US : MC-1 PAL : MC-2	Guide driver YTU94085	Jig connector cable PTU94018B
SSS software PTU94016-5	PC cable US : QAM0099-002 PAL : QAM0099-005	Jig RCU PTU94023B

Fig.4-10-1

4.10.2.2 Procedure

- Take out the 6 screws, then remove the top cover. (See SECTION 3 DISASSEMBLY)
- Connect the jig connector cable to CN2001 on the DV MAIN board.

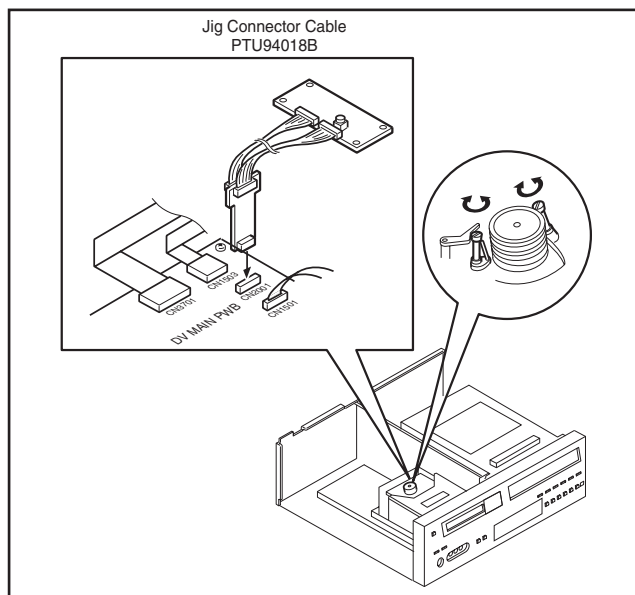


Fig.4-10-2

4.10.2.3 Setup for computer adjustment

-Setup by extending the jig connector-

Connect the Jig Connector Cable and setup the SSS software. It automatically becomes the TCCS mode and "TCCS" is displayed on the FDP.

To cancel the TCCS mode, press the CANCEL button of the remote control unit.

The "TCCS" display on the FDP disappears.

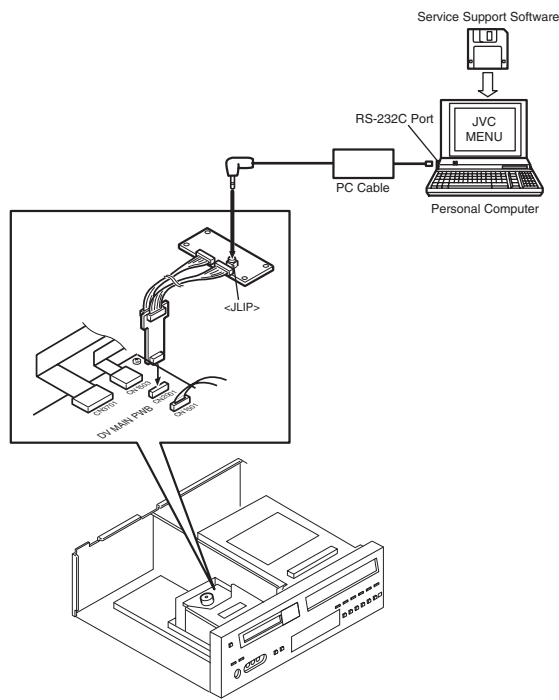
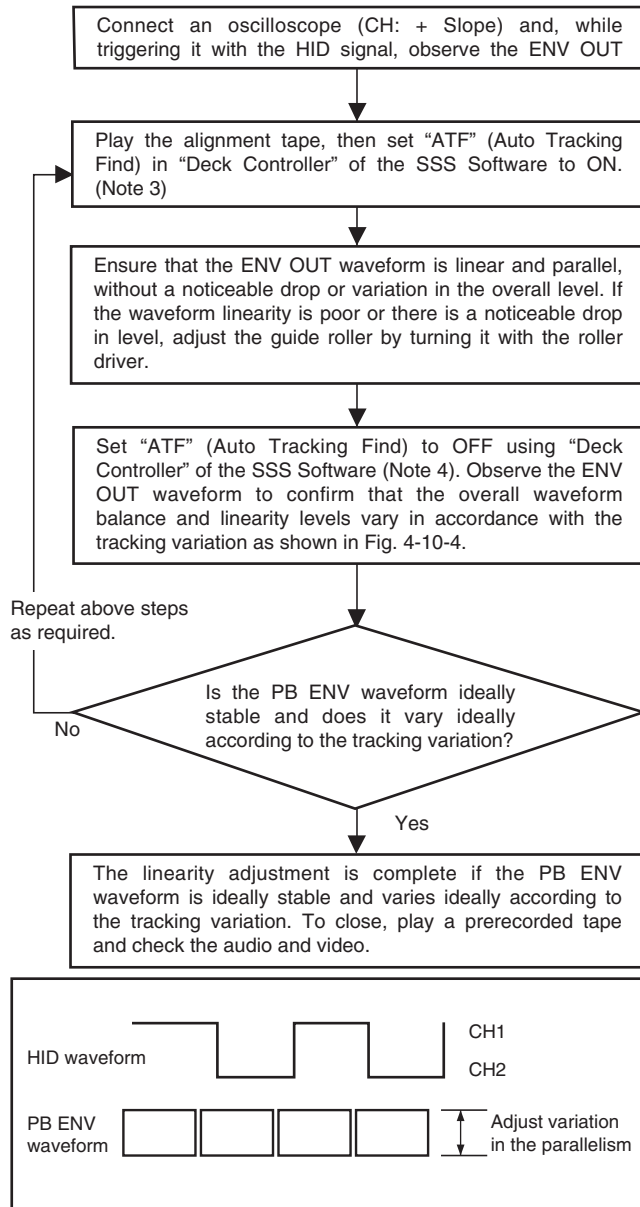


Fig.4-10-3

4.10.3 Linearity adjustment

The following flowchart shows the linearity check/adjustment procedure.



Note 3 :

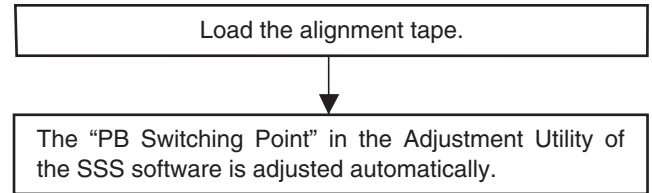
- If ATF is turned off, the DV section performs tracking only of the speed system. Therefore, as time passes, the servo will be lost and the linearity adjustment will become difficult.

Note 4 :

- Since the speed servo function is active when ATF is off, there will be no problem even if the DVC ATF function is off, provided that it is for a few minutes.

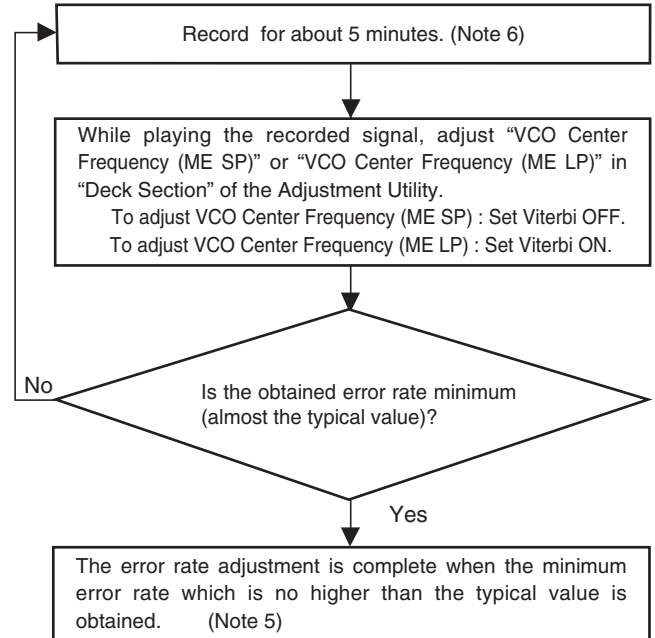
4.10.4 PB switching point adjustment

The following flowchart shows the PB switching point adjustment procedure.



4.10.5 Error rate adjustment

The following flowchart shows the error rate adjustment procedure.



Note 5 :

- The "typical value" refers to the following: CH1 or CH2: < 498 ; with Viterbi OFF. Inter-channel difference: < 10 times between CH1 and CH2.

Note 6 :

- It is desirable to use a brand-new tape or an unused section of tape. This is to assure the adjustment reliability because using a damaged tape increases the error rate.

4.10.6 Error rate measuring method

It is not necessary to use the error rate jig (YTU93083) or a frequency counter. The Service Support System Software displays the error rates of video CH1, CH2 and totals. When measuring the error rate of a channel, be sure to total the values of the video and the audio errors.

4.11 Electrical adjustment (DV SECTION)

4.11.1 Precautions

- (1) The DV section of this model is based on a special adjustment method using a PC. However, ordinary adjustment is required only when the part listed below has been replaced. In this case, the adjustment should be performed by a service center equipped with the required facilities.
 - **E2 PROM (IC1504 on DV main board)**In case of trouble with the electrical circuitry, First identify the faulty position with a measuring tool as described below. Proceed to repair, replacement and/or adjustment only after the troubleshooting.
- (2) When observing a chip TP, use an IC clip or similar tool to protect the chip against stress. When replacing a chip part (IC, particularly), remove solder completely before replacing. (This is to prevent separation of the pattern.)
- (3) The connectors are fragile. Be careful when plugging or unplugging a wire.

4.11.2 Equipment required for adjustment

- Personal computer (Windows compatible)
- Color monitor
- Oscilloscope (2-CH, 100 MHz or more)
- Frequency counter

4.11.3 Tools required for adjustments

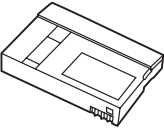
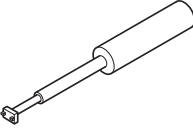
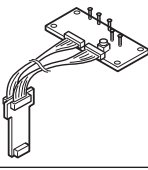
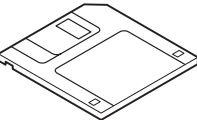
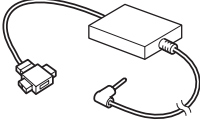
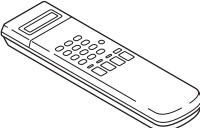
Alignment tape US : MC-1 PAL : MC-2	Guide driver YTU94085	Jig connector cable PTU94018B
		
SSS software PTU94016-5	PC cable US : QAM0099-002 PAL : QAM0099-005	Jig RCU PTU94023B
		

Fig.4-11-1

4.11.4 Setup

1. Setup for computer adjustment

- Setup by extending the jig connector -

-Setup by extending the jig connector-
Connect the Jig Connector Cable and setup the SSS software. It automatically becomes the TCCS mode and "TCCS" is displayed on the FDP.
To cancel the TCCS mode, press the CANCEL button of the remote control unit.
The "TCCS" display on the FDP disappears.

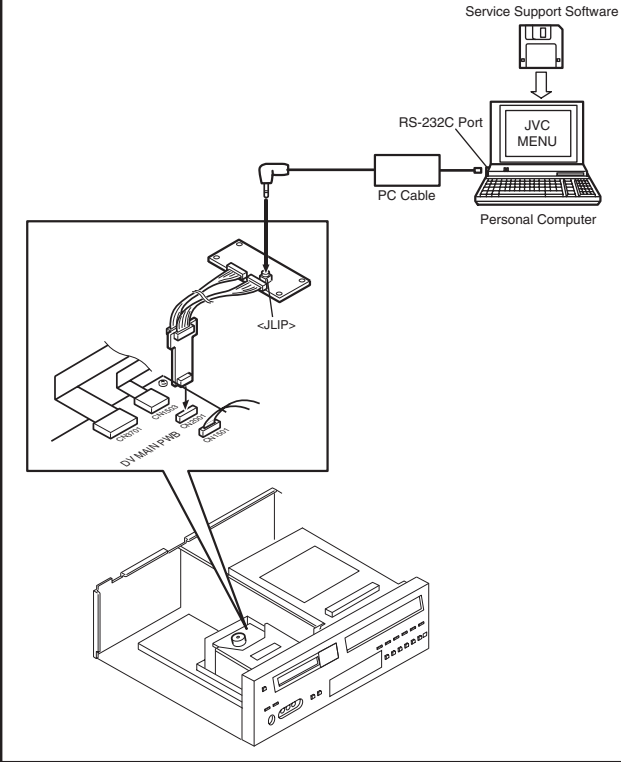


Fig.4-11-2

4.12 Electrical adjustment (DVD SECTION)

Note:

The following adjustment procedures are not only necessary after replacement of consumable mechanical parts or board assemblies, but are also provided as references to be referred to when servicing the electrical circuitry.

In case of trouble with the electrical circuitry, always begin a service by identifying the defective points by using the measuring instruments as described in the following electrical adjustment procedures. After this, proceed to the repair, replacement and/or adjustment. If the required measuring instruments are not available in the field, do not change the adjustment parts (variable resistor, etc.) carelessly.

4.12.1 DVD Video circuit

Note

- When perform these adjustments, set the unit to DVD mode.(DVD lamp lights up)

4.12.1.1 EE Composite Y level

Signal (A)	• Internal colour bar
Mode (B)	• EE
Equipment (C)	• Oscilloscope
Measuring point (D)	• L-1 connector pin19
EVR mode (F1)	• Jig code "43-95"
EVR address (F2)	• "ADJUST01 : ***"
(F3)	• Jig code "43-21"
(F4)	• Jig code "43-18" or "43-19" (Channel +/-)
(F5)	• Jig code "43-3C"
Specified value (G)	• 1.00 ± 0.02 Vp-p (terminated)
Adjustment tool (H)	• Jig RCU [PTU94023B]

- (1) Observe the V OUT waveform at the measuring point (D).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the Y level of the V OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

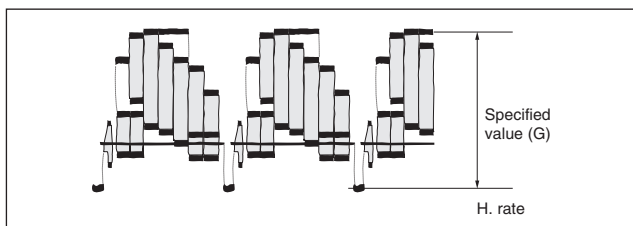


Fig.4-12-1 EE composite Y level

4.12.1.2 EE Y level

Signal (A1)	• Ext. input
(A2)	• Color (colour) bar signal
Mode (B)	• EE
Equipment (C)	• Oscilloscope
Measuring point (D)	• L-1 connector pin19
EVR mode (F1)	• Jig code "43-95"
EVR address (F2)	• "ADJUST02 : ***"
(F3)	• Jig code "43-22"
(F4)	• Jig code "43-18" or "43-19" (Channel +/-)
(F5)	• Jig code "43-3C"
Specified value (G)	• 1.00 ± 0.02 Vp-p (terminated)
Adjustment tool (H)	• Jig RCU [PTU94023B]

- (1) Observe the V OUT waveform at the measuring point (D).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the Y level of the V OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

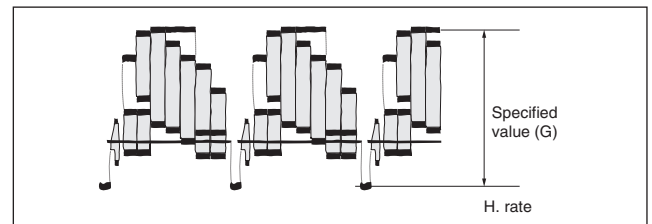


Fig.4-12-2 EE Y level

4.12.1.3 EE composite burst level

Signal (A)	• Internal colour bar
Mode (B)	• EE
Equipment (C)	• Oscilloscope
Measuring point (D)	• L-1 connector pin19
EVR mode (F1)	• Jig code "43-95"
EVR address (F2)	• "ADJUST00 : ***"
(F3)	• Jig code "43-20"
(F4)	• Jig code "43-18" or "43-19" (Channel +/-)
(F5)	• Jig code "43-3C"
Specified value (G)	• 0.30 ± 0.01 Vp-p (terminated)
Adjustment tool (H)	• Jig RCU [PTU94023B]

- (1) Observe the V OUT waveform at the measuring point (D).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the burst level of the V OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

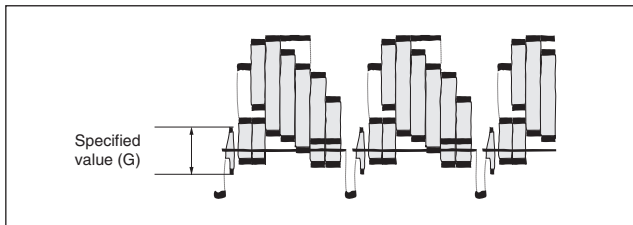


Fig.4-12-3 EE composite burst level

4.12.1.4 EE R/G/B level

Signal (A)	• Internal colour bar
Mode (B)	• EE
Equipment (C)	• Oscilloscope
Measuring point (D1)	• L-1 connector pin15(R)
(D2)	• L-1 connector pin11(G)
(D3)	• L-1 connector pin7(B)
EVR mode (F1)	• Jig code "43-95"
EVR address (F2)	• "ADJUST05 : **"
(F3)	• Jig code "43-25"
(F4)	• Jig code "43-18" or "43-19" (Channel +/-)
(F5)	• Jig code "43-3C"
Specified value (G)	• 0.70 ± 0.02 Vp-p (terminated)
Adjustment tool (H)	• Jig RCU [PTU94023B]

- (1) Observe the R OUT waveform at the measuring point (D1).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the R level of the R OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)
- (6) Observe the G OUT waveform at the measuring point (D2).
- (7) Repeat steps (2) to (5) above.
- (8) Observe the B OUT waveform at the measuring point (D3).
- (9) Repeat steps (2) to (5) above.

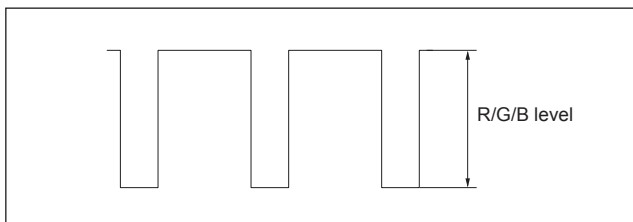


Fig.4-12-4 EE R/G/B level

4.12.1.5 EE COMPONENT PB/CB level

Signal (A)	• Internal colour bar
Mode (B)	• EE
Equipment (C)	• Oscilloscope
Measuring point (D)	• COMPONENT PB/CB terminal
EVR mode (F1)	• Jig code "43-95"
EVR address (F2)	• "ADJUST06 : **"
(F3)	• Jig code "43-26"
(F4)	• Jig code "43-18" or "43-19" (Channel +/-)
(F5)	• Jig code "43-3C"
Specified value (G)	• 0.70 ± 0.02 Vp-p (terminated)
Adjustment tool (H)	• Jig RCU [PTU94023B]

- (1) Observe the CB OUT waveform at the measuring point (D).
- (2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
- (3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
- (4) Transmit the code (F4) from the Jig RCU to adjust so that the CB level of the CB OUT waveform becomes the specified value (G).
- (5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

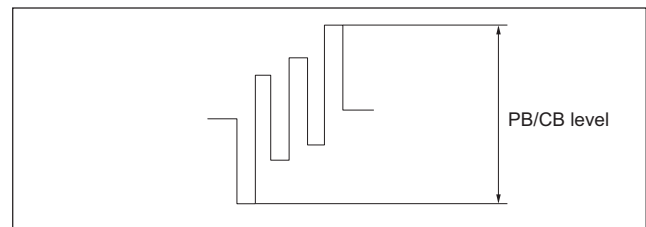


Fig.4-12-5 EE component PB/CB level

4.12.2 Syscon circuit

4.12.2.1 Timer clock

Signal (A)	• No signal
Mode (B)	• EE
Equipment (C)	• Frequency counter
Measuring point (D1)	• IC3001 pin 61
(D2)	• IC3001 pin 17
(D3)	• C3026 + and -
Adjustment part (F)	• C3025 (TIMER CLOCK)
Specified value (G)	• 1024.008 ± 0.01 Hz (976.5549 ± 0.0010 usec)

- (1) Connect the frequency counter to the measuring point (D1).
- (2) Connect the short wire between the short point (D2) and Vcc (5V).
- (3) Short the leads of capacitor (D3) once in order to reset the microprocessor of the Syscon.
- (4) Disconnect the short wire between the short point (D2) and Vcc then connect it again.
- (5) Adjust the Adjustment part (F) so that the output frequency becomes the specified value (G).

SECTION 5 TROUBLESHOOTING

5.1 Manually removing the cassette tape

If a loaded cassette tape cannot be ejected due to a failure in the electrical circuitry, take the cassette tape out using the following procedure. However, this method consists of a forced driving of the loading motor. Therefore, the following description assumes that there is no trouble in the mechanism operations.

- (1) Unplug the power plug from the power outlet, then remove the top cover.
- (2) Apply 3 V DC to the electrodes (Red wire: + pole. Brown wire: - pole) on the upper part of the loading motor to perform the unloading operation so that the pole base assemblies are returned on the inner side of the tape. At this time, the exit guide arm assembly should return toward the drum assembly and the mechanism should enter the C-IN mode. As the tape is left without winding, be careful not to damage the tape or leave grease on it.

- (3) If the tape is slack, wind it up by turning the shaft on the top-side of the capstan motor in the direction of the arrow using a pointed tool (chip IC replacement jig). This operation may be difficult because the shaft is located below the housing motor of the cassette housing assembly. Be careful not to damage parts during it.
- (4) After confirming that the tape is fully wound up, take out the cassette tape by turning the gear of the cassette housing assembly in the direction of the arrow.

Note :

- After ejecting the tape, check that grease or similar foreign material is not attached to the wound tape. Also perform similar checking for the mechanism assembly, particularly the tape transport system.

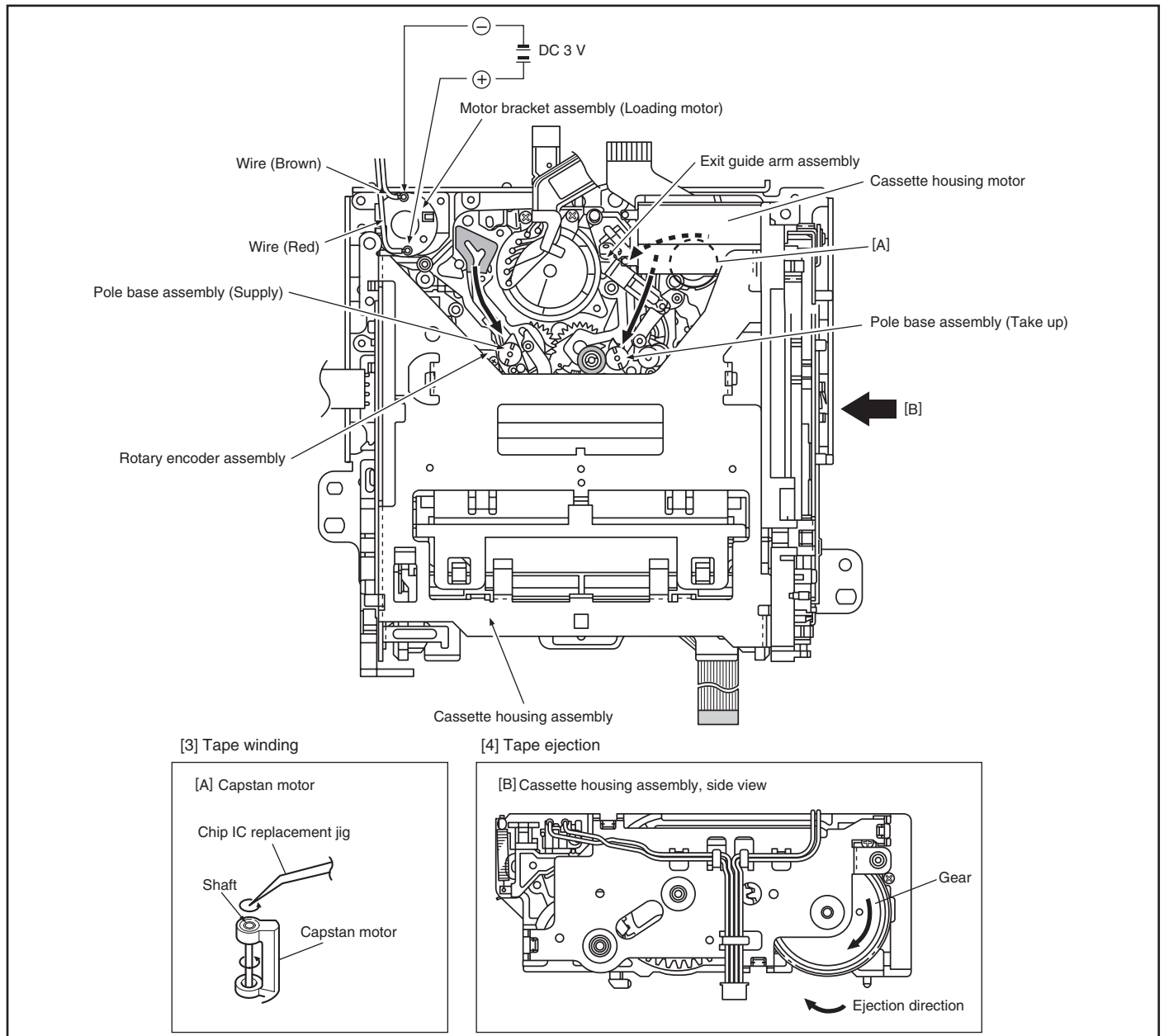


Fig.5-1a

5.2 Manually removing the disk(DVD/CD)

If you cannot remove the disk which is loaded because of any electrical or mechanical failures, manually remove it by taking the following steps.

5.2.1 Method 1

- (1) AC Plug is pulled out at once and inserted again.
- (2) It is displayed on FDP as "LOADING", and while it blinks, pushing the OPEN/CLOSE button is continued.
- (3) After a while, a tray opens (About 20 seconds).
- (4) After removed a disk, press the OPEN/CLOSE button again to close the tray.
- (5) The "LOADING" blink display of FDP disappears and it will be in a standby mode.
- (6) If the POWER button is pushed, it will usually be operating.

5.2.2 Method 2

- (1) Unplug the ACpower cord from the AC outlet.
- (2) Remove the top cover and front panel assembly.
(Refer to the disassembly procedure and perform the disassembly of the major parts before removing)
- (3) Pass a thin wire through a hole in the DVD unit.
- (4) The disc tray comes out slightly. Take out the disc tray manually.(See Fig.5-2a)

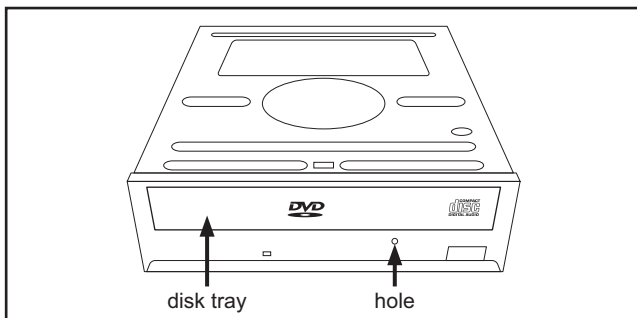


Fig.5-2a

5.3 Emergency display function (DV SECTION)

This unit saves details of the last emergency as the EMG history and allows the status of the unit and the mechanism each emergency to be shown both on the display and as OSD information. When using the emergency function, it is required to set the unit to the Jig RCU mode.

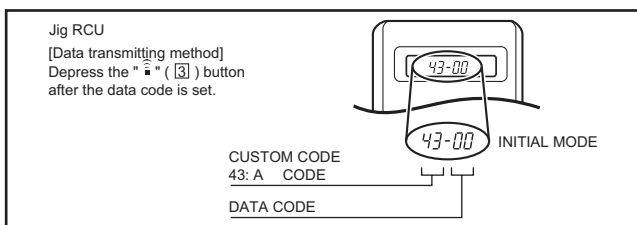


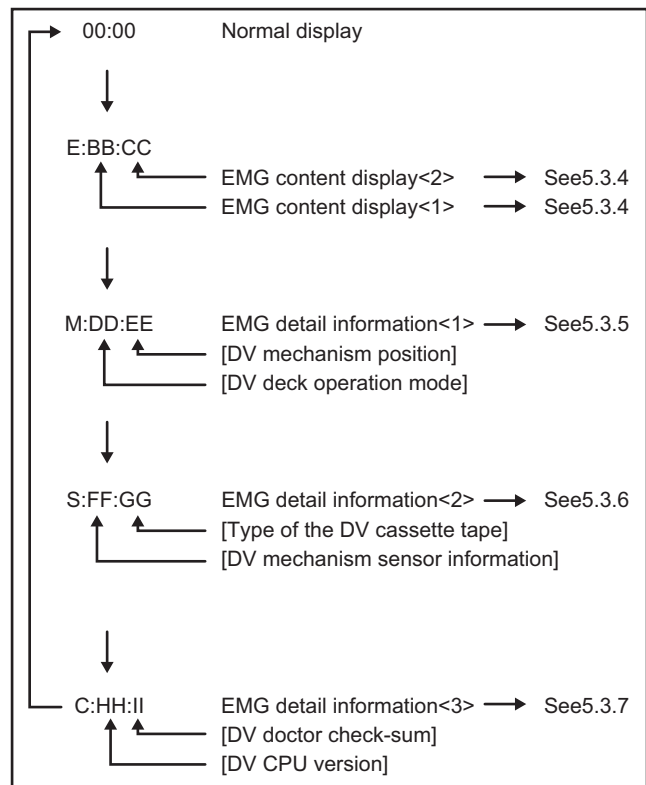
Fig.5-3a Jig RCU [PTU94023B]

5.3.1 Displaying the EMG information

The EMG detail of information can be displayed by transmitting the code "43-59" from the Jig RCU.

Note:

- Press DV/HDD/DVD on the unit repeatedly or DV on the remote so that the DV lamp lights up on the unit.
- The EMG detail information < 1 > < 2 > show the information on the latest EMG.
It becomes " - - : - - : - - " when there is no latest EMG record.



EMG display of FDP display mode

- (1) Transmit the code "43-59" from the Jig RCU.
The FDP shows the EMG content in the form of "E.:*:*".

<Example 1> E : 00 : 80
 ↑ ↑
 EMG content display(2)
 EMG content display(1)

<Example 2> E : - - : - - ← No EMG record

- (2) Transmit the code "43-59" from the Jig RCU again.
The FDP shows the EMG detail information < 1 > in the form of "DD" and "EE".
DD : DV deck operation mode at the moment of EMG
EE : DV mechanism mode position at the moment of EMG
- (3) Transmit the code "43-59" from the Jig RCU once again.
The FDP shows the EMG detail information < 2 > in the form of "FF" and "GG".
FF : DV mechanism sensor information
GG : Type of the DV cassette tape
- (4) Transmit the code "43-59" from the Jig RCU once again.
The FDP shows the EMG detail information < 3 > in the form of "HH" and "II".
HH : DV CPU version information
II : DV doctor check-sum
- (5) Transmit the code "43-59" from the Jig RCU once again to reset the display.

5.3.2 Clearing the EMG history

- (1) Display the EMG history.
- (2) Transmit the code "43-36" from the Jig RCU.
- (3) Reset the EMG display.

5.3.3 Details of the OSD display in the EMG display mode

During the EMG display, the OSD shows the data on the deck mode, etc. The details of the display contents are as follows.

Notes:

- The sensor information in the OSD display contents is partially different from the mechanism sensor information in EMG detail information < 1 >.

AA	BB	CC
DD	EE	
FF	GG	
HH	II	
KKKK	LLLL	MMMM
ROM No.		

AA : Key code (JVC code)
 BB : EMG content display < 1 >
 CC : EMG content display < 2 >
 DD : DV deck operation mode (See EMG detail information < 1 >)
 EE : DV mechanism position (See EMG detail information < 1 >)
 FF : Dv mechanism sensor information (See EMG detail information < 2 >)
 GG : Type of DV cassette tape (See EMG detail information < 2 >)
 HH : DV CPU version
 II : DV doctor check-sum
 KKKK : General data display area
 LLLL : General data display area
 MMMM : General data display area

5.3.4 EMG content description**5.3.4.1 EMG content display < 1 > (BB)**

FDP DISPLAY	EMG MODE	CONTENT	CAUSE
E : 41 : 00	Mechanism Mode Transition Failure (Loading)	If the mechanism mode does not change to the next mode within 4 seconds after the loading motor starts rotating in the loading direction, [E : 41 : 00] is identified and the power is switched OFF.	1. The mechanism is locked in the middle of the mode transition. 2. The mechanism overruns the encoder position during the mode transition, and is locked at the mechanism loading end. 3. Power is not supplied to the loading MDA.
E : 42 : 00	Mechanism Mode Transition Failure (Unloading)	If the mechanism mode does not change to the next mode within 4 seconds after the loading motor starts rotating in the unloading direction, [E : 42 : 00] is identified and the power is switched OFF.	1. The mechanism is locked in the middle of the mode transition. 2. The mechanism overruns the encoder position during the mode transition, and is locked at the mechanism loading end. 3. Power is not supplied to the loading MDA.
E : 04 : 00	Take Up Reel FG	When the take-up reel pulse has not been generated for more than 3 seconds in the capstan rotating mode, [E : 04 : 00] is identified, the pinch rollers are turned off and stopped, and the power is turned off.	1. The take-up reel pulse is not generated in the FWD transport modes (PLAY/FWD SEARCH/FF, etc.) because; 1) The idler gear is not meshed with the take-up reel gear. 2) The idler gear is meshed with the take-up reel gear, but incapable of winding due to t
E : 08 : 00	Supply Reel FG	When the supply reel pulse has not been generated for more than 3 seconds in the capstan rotating mode, [E : 08 : 00] is identified and the pinch rollers are turned off and stopped, and the power is turned off.	1. The supply reel pulse is not generated in the FWD transport mode (PLAY/FWD SEARCH/FF, etc.) because; 1) A cassette with broken tape is inserted, and PLAY/FWD SEARCH/FF are carried out. 2) A mechanical factor caused tape slack inside/ outside the supply
E : 10 : 00	Drum FG	When the drum FG pulse has not been input for more than 4 seconds in the drum rotating mode, [E : 10 : 00] is identified, the pinch rollers are turned off and stopped, and the power is turned off.	1. The drum could not start or the drum rotation has stopped due to too large load on the tape, because; 1) The tape tension is abnormally high. 2) The tape is damaged or a foreign object (grease, etc.) adheres to the tape. 2. The drum FG pulse did not re
E : 20 : 00	Capstan FG	When the capstan FG pulse has not been generated for more than 2 seconds in the capstan rotating mode, [E : 20 : 00] is identified, the pinch rollers are turned off and stopped.	1. The capstan could not start or the capstan rotation has stopped due to too large load on the tape, because; 1) The tape tension is abnormally high (mechanical lock); 2) The tape is damaged or a foreign object (grease, etc.) is adhered to the tape (occu

5.3.4.2 EMG content display < 2 > (CC)

FDP DISPLAY	EMG MODE	CONTENT	CAUSE
E : 00 : A0	Housing Motor Operation Failure (Cassette ejection)	If the operation has not been completed 3 seconds after the cassette housing started the cassette ejection operation, [E : 00 : A0] is identified, the cassette is taken in, and the mode is switched to STOP the pinch roller OFF.	1. The cassette cannot be ejected due to a failure in the drive mechanism of the housing. 2. When the housing load increases during ejection, the loading motor is stopped because of lack of headroom in its drive torque. Housing load increasing facto
E : 00 : C0	Housing Motor Operation Failure (Cassette insertion)	If the operation has not been completed 3 seconds after the cassette insertion, [E : 00 : C0] is identified, and the cassette is ejected.	1. The cassette cannot be ejected due to a failure in the drive mechanism of the housing. 2. When the housing load increases during ejection, the loading motor is stopped because of lack of headroom in its drive torque. Housing load increasing facto

5.3.5 EMG detail information < 1 >

The status (electrical operation mode) of the unit and the status (mechanism operation mode/mechanism position) of the mechanism in the latest EMG can be confirmed based on the figure in EMG detail information < 1 > .

[FDP/OSD display] (DD, EE)

DD : DV deck operation mode at the moment of EMG

EE : DV mechanism position at the moment of EMG

DD : DV deck operation mode

Display	Deck operation mode	Display	Deck operation mode
00	UNLOADING STOP	1a	POWER OFF
01	CASSETTE EJECT	1b	REC LOCK
02	LOADING STOP	1c	1ST REC
03	PLAY (Normal playback)	1d	LOCK
04	STILL	1e	REC
05	FF	3a	POWER OFF REQUEST
06	REW	5a	POWER OFF REQUEST2
07	SEARCH FWD	aa	WAIT
08	SEARCH REWIND	ba	NO DATA
09	FWD SLOW	7F	FWD SEARCH(high speed)
0a	REV SLOW	6F	FWD SEARCH(middle speed)
0b	AUDIO DUB	5F	FWD SEARCH(low speed)
0c	AUDIO DUB PAUSE	4F	FWD PLAY
0d	RETAKE FF	3F	FWD LINEAR SLOW
0e	RETAKE REW	2F	FWD INTERMITTENT SLOW
10	REHEARSAL UNLOADING STOP	1F	FWD FRAME ADVANCE
11	REHEARSAL EJECT	0F	STILL
12	REHEARSAL LOADING STOP	FF	REV FRAME ADVANCE
13	REC	EF	REV INTERMITTENT SLOW
14	REC PAUSE	DF	REV LINEAR SLOW
15	DV REC	CF	REV PLAY
16	DV REC PAUSE	BF	REV SEARCH(low speed)
17	VIDEO INSERT	AF	REV SEARCH(middle speed)
18	VIDEO INSERT PAUSE	9F	REV SEARCH(high speed)
19	SOFT PAUSE		

EE : DV mechanism position

Display	DV mechanism position	Display	DV mechanism position
0	Cassette being inserted	8	Capstan REV
1	Intermodal position	9	Intermodal position
2	Short FF	0A	Stop
3	Intermodal position	0B	Intermodal position
4	Loading end	0C	FF/REW
5	Intermodal position	0D	Intermodal position
6	Capstan FWD	0E	Mechanism being initialized
7	Intermodal position		

5.3.6 EMG detail information < 2 >

FF : DV mechanism sensor information

Display	DV mechanism sensor information	Display	DV mechanism sensor information
bit7	Tape end	bit3	Tape ID detect
bit6	Tape start	bit2	Tape exist
bit5	Rec safety switch		

Note:

The display of DV mechanism sensor information differs according to the operation mode.

GG : Type of DV cassette tape (bit3, bit2)

Display	DV mechanism sensor information	Display	DV mechanism sensor information
00	MP type	10	Not used
01	Cleaning tape	11	ME type

5.3.7 EMG detail information < 3 >

HH : DV CPU version

DV SYSCON CPU version is displayed.

II : DV doctor check-sum

It is not usually used.

5.4 Display function of DVD section

5.4.1 Displaying SYSTEM INFO

SYSTEM INFO contains information on firmware version of the unit and the mechanism drive, and an initialize execution menu.

- (1) Set the unit to the Jig RCU mode.
- (2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the HDD lamp lights up on the unit.
- (3) Transmit "43-8b" from the Jig RCU.
- (4) SYSTEM INFORMATION menu is displayed in the screen.
- (5) To move cursor in SYSTEM INFO, use the "▲", "▼", "◀", and "▶" buttons of a remote control unit attached to product.
- (6) To quit the SYSTEM INFO menu, transmit "43-8b" from the Jig RCU..
- (7) Cancel Jig RCU mode.

The example of a display < Version Info 1 >

System Info	
Version Info 1	
Application Software Version	0.39
Middle Ware Software Version	0941
Syscon Software Version	0.88
Boot Loader Software Version	1.2 / 192
DV Syscon Software Version	21

Firmware Version of the unit
When the Firmware of the unit is updated,
this part is changed.

EXIT OK SELECT WITH [◀▶] THEN PRESS [ENTER]
PRESS ["8b"] TO EXIT

The example of a display < Version Info 2 >

System Info	
Version Info 2	
Silicon Version of E5	C0
DVD Drive Firmware Version	P017
Region	2
CPRM Key DownLoad	Done

Firmware Version of the Drive unit
When the Firmware of the drive unit is updated,
this part is changed.

EXIT OK SELECT WITH [◀▶] THEN PRESS [ENTER]
PRESS ["8b"] TO EXIT

NOTE:

Items other than the ones described above are not used in service work.

5.4.2 Updating the firmware of the unit

- Firmware update disc supports CD-R media.
- When firmware update is necessary, information is available from the homepage of DIGITAL VIDEO STORAGE CATEGORY, CS group.

5.4.2.1 Creating an update disc

Please check the details of the update disc creation method by JS-NET.

- (1) Down load the update file from JS-NET.
 - (2) Write the update file into CD-R. Pay attention in the following points when writing the update disc.
- Make sure to write in "Disc at Once".
 - Set the file compatibility to "ISO9660 format". (ROMEO, JOLIET are disapproved.)
If the writing method is not correct, the update results in an error.

5.4.2.2 Update procedure

- There are two methods of updating firmware, using JIG RCU mode < method 1 > or not using JIG mode(User update mode) < method 2 >.
- Updating can be operated in either method.

< Method 1 >

- (1) Set to the Jig RCU mode.
- (2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
- (3) Load the update disc on the tray, and then close the tray.
- (4) When the disc reading operation is completed, transmit "43-70" with the Jig remote control unit.
If the update disc is not correct, FDP indicator displays an "ERROR" after transmitting "43-70". Transmit "43-70" once and make the FDP indicator to normal display, and then reload the disc then transmit "43-70" again.
- (5) "UPDATE" is displayed in the FDP indicator, and the FDP indicator changes to "UPDATE" afterwards. It takes approx. 2 minutes for the change.
- (6) Remove the disc as the tray is ejected, and then transmit "43-70" with the Jig remote control unit. Then the FDP indicator changes from "UPDATE" to the normal display.
- (7) Close the tray and turn the unit OFF. Pull out the power cord from the wall socket, then plug the power cord into the wall socket again.
- (8) When "LOADING" in the FDP indicator disappears, turn the unit ON.
- (9) Display the SYSTEM INFO menu, and check the version of the firmware.
- (10) Cancel the Jig RCU mode.

< Method 2 >

- (1) Turn the power ON. Load the update disc on the tray and close the tray.
- (2) When the disc reading operation is completed, turn the power OFF.
- (3) Keep pressing the "PAUSE" button and the "POWER" button at the same time. (Until FDP indicator changes to "UPDATE").
- (4) In approx. 2 minutes the tray is ejected. Remove the disc and close the tray.
- (5) Reset operation is carried out automatically, and it becomes standby condition.
- (6) Then, display the SYSTEM INFO menu in the Jig RCU mode and check the version.

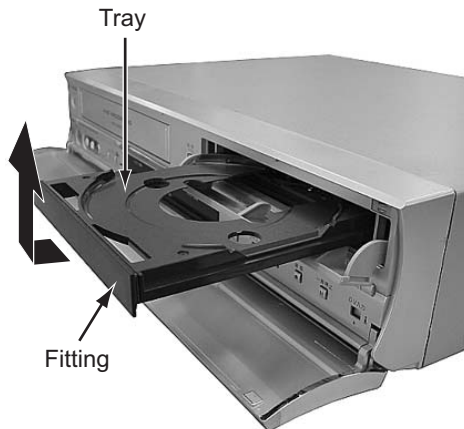
5.4.3 Updating the firmware of the drive unit

- Firmware update disc supports only DVD-RAM media.
 - When firmware update is necessary, written discs are distributed by DIGITAL VIDEO STORAGE CATEGORY, CS group.
- (1) Turn the unit ON.
 - (2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
 - (3) Load the update DVD-RAM disc on the tray and close the tray.
 - (4) "READING" is displayed in the FDP indicator and the update is started.
 - (5) In a short while "READING" in the FDP indicator disappears, open the tray to remove the disc and close the tray.
 - (6) Turn the power OFF and pull out the power cord from the wall socket, then plug the power cord into the wall socket again.
 - (7) Set to the Jig RCU mode and check the firmware version of the drive.

5.4.4 Exchanging the fitting

As the fitting that comes with the service drive unit cannot be used, make sure to attach a service fitting when the drive unit is exchanged. The fitting that is removed from the old drive unit can be attached to the new drive unit.

The fitting can be removed by pulling upwards while opening out the lower part of the fitting outwards.



5.4.5 Initialization to the factory shipment state

When the initialization is operated, internal information changes as follows. It is essential to obtain the client's permission before the operation.

- All DVD library is all deleted.
- All the DVD initial settings go back to the initial status.
 - (1) Set to the Jig RCU mode.
 - (2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
 - (3) Transmit "43-6F" with the Jig remote control unit.
 - (4) FDP indicator displays "FACTORY", and changes to "CHECK OK" after blinking for a short while.
 - (5) Pull out the power code from the wall socket.
 - (6) The Jig RCU mode is forced to cancel at the same time with the initialization, check whether the Jig RCU mode is canceled by plugging the power code into the wall socket again. (The colon ":" in time display should be continuously ON, not blinking.)
If the Jig RCU mode is not canceled, transmit "43-9D" with Jig remote control unit to cancel the Jig RCU mode.

5.4.6 Setting after the drive unit replacement

When the drive unit is replaced, it is necessary to set a region code. Service drive units for replacement are not set for any region code, and they are in an indefinite condition.

Make sure to set region code after attaching the drive unit to the unit.

Without the setting of the region code, discs that have regions cannot be played back.

5.4.6.1 Creating a region setting disc.

Please check the details of the region setting disc creation method by JS-NET.

- (1) Download the region setting file from JS-NET.
- (2) Write the region setting file into CD-R. Pay attention in the following points when writing the file into CD-R.
 - Make sure to write in "Disc at Once".
 - Set the file compatibility to "ISO9660 format". (ROMEO, JOLIET are disapproved).If the writing method is not correct, the normal setting cannot be performed.

5.4.6.2 Setting the region

- (1) Set for the Jig RCU mode.
- (2) Press DV/HDD/DVD SELECT button on the unit repeatedly so that the DVD lamp lights up on the unit.
- (3) Load the region setting disc on the tray, and then close the tray.
- (4) When the disc reading operation is completed, transmit "43-70" with the Jig remote control unit.
- (5) FDP indicator changes to "UPDATE". Remove the disc as the tray will open for a few seconds.
- (6) Then, check whether the FDP indicator is "REGION 2".
- (7) Transmit "43-70" with the Jig remote control unit. When FDP indicator changes to "OPEN", close the tray.
- (8) Turn the power OFF, and pull out the power code, and then plug the power code in again.
- (9) Cancel the Jig RCU mode.

5.4.7 Booting the system using the CD

The firmware of this device is stored in the Hard Disk Drive (HDD). If the firmware is collapsed for its contents, [LOADING] is repeatedly displayed on the FDP display of the main unit and the system becomes inoperative. The system operation cannot be resumed even if the AC plug is disconnected from the AC power source.

In such a situation, the operation may be resumed on a temporary basis to normal using a CD that stores the firmware. This causes the firmware in the HDD to be updated and the system may be brought to a normal operation. Refer to the following descriptions for detail.

5.4.7.1 Downloading the firmware from JS-NET to create a booting disk

NOTE:

For details of creating the booting disk, see the instructions provided in the JS-NET web site.

- (1) Download all the relevant files from the JS-NET and decompress it.
- (2) The file termed "bootup1.blx" will accordingly be created. Copy this file in a root directory of the CD-R.
- (3) Set the track setting to [MODE2 XA] for writing the software, and select [JOLIET] as an exchangeable file name. Be sure to write the disk in [Disk at once] mode.

5.4.7.2 Booting using the Disk

The following explanation is made assuming the system operation is being unable with [LOADING] repeatedly displayed.

- (1) Disconnect the AC plug and then connect it again. Immediately after this, press and hold the DVD ON/OFF button until the tray comes out.
- (2) Put the booting disk on the tray and close the tray.
- (3) Disconnect the AC plug. Press and hold the STOP button and connect the AC plug.
- (4) Keep the button pressed for 20 seconds and release the button (Timing must be precise).
- (5) [LOADING] will be displayed repeatedly for a while and the system will be brought to the standby state.
- (6) Press the OPEN/CLOSE button to remove the booting disk.
- (7) Turn the system on and confirm that the operation is normal. If so, the system should be properly booted from the CD-R.

5.4.7.3 Updating the firmware after booting with the CD

By updating the firmware using the CD, the built-in firmware in the HDD will be overwritten, allowing the firmware to be renovated. The system may be resumed to a normal state using this method. Be sure to download the latest version of the update firmware when you attempt to create and use the firmware. For the updating procedures, refer to 5.4.2.



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AV & MULTIMEDIA COMPANY DIGITAL VIDEO STORAGE CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan



JVC

SCHEMATIC DIAGRAMS

Mini DV & HDD & DVD VIDEO RECORDER

DR-DX5SEK, DR-DX5SEL, DR-DX5SEU, DR-DX5SEY, DR-DX5SEZ

CD-ROM No.SML200511



DR-DX5SEK, DR-DX5SEL, DR-DX5SEU, DR-DX5SEY, DR-DX5SEZ [D5MC21]



(EL, EU, EY, EZ model)



(EK model)

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.

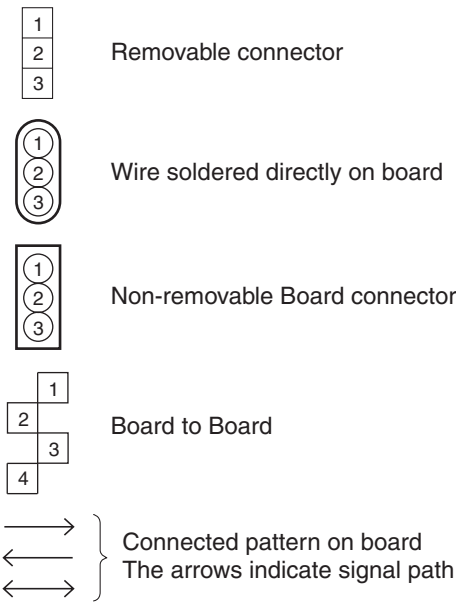
- 1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
Chip resistors are 1/16 W.
K: KΩ(1000Ω), M: MΩ (1000KΩ)
- 2) All capacitance values are in μF, (P: PF).
- 3) All inductance values are in μH, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

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

2. Indications of control voltage

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

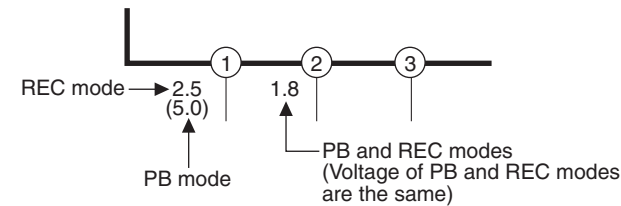
3. Interpreting Connector indications



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

4. Voltage measurement

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

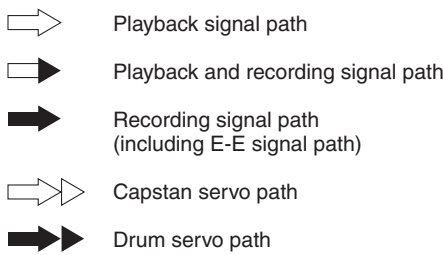


Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

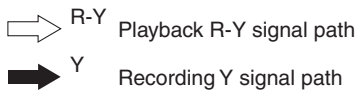
5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.

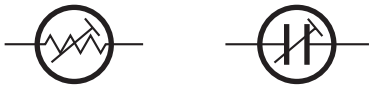


(Example)



6. Indication of the parts for adjustments

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



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

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



CIRCUIT BOARD NOTES

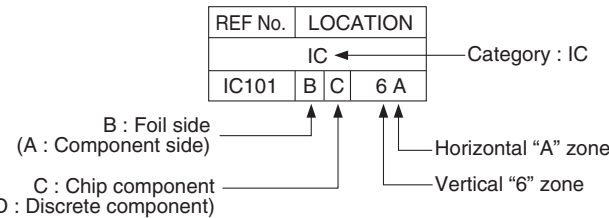
1. Foil and Component sides

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

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

2. Parts location guides

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



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

■ BOARD INTERCONNECTIONS

5

4

3

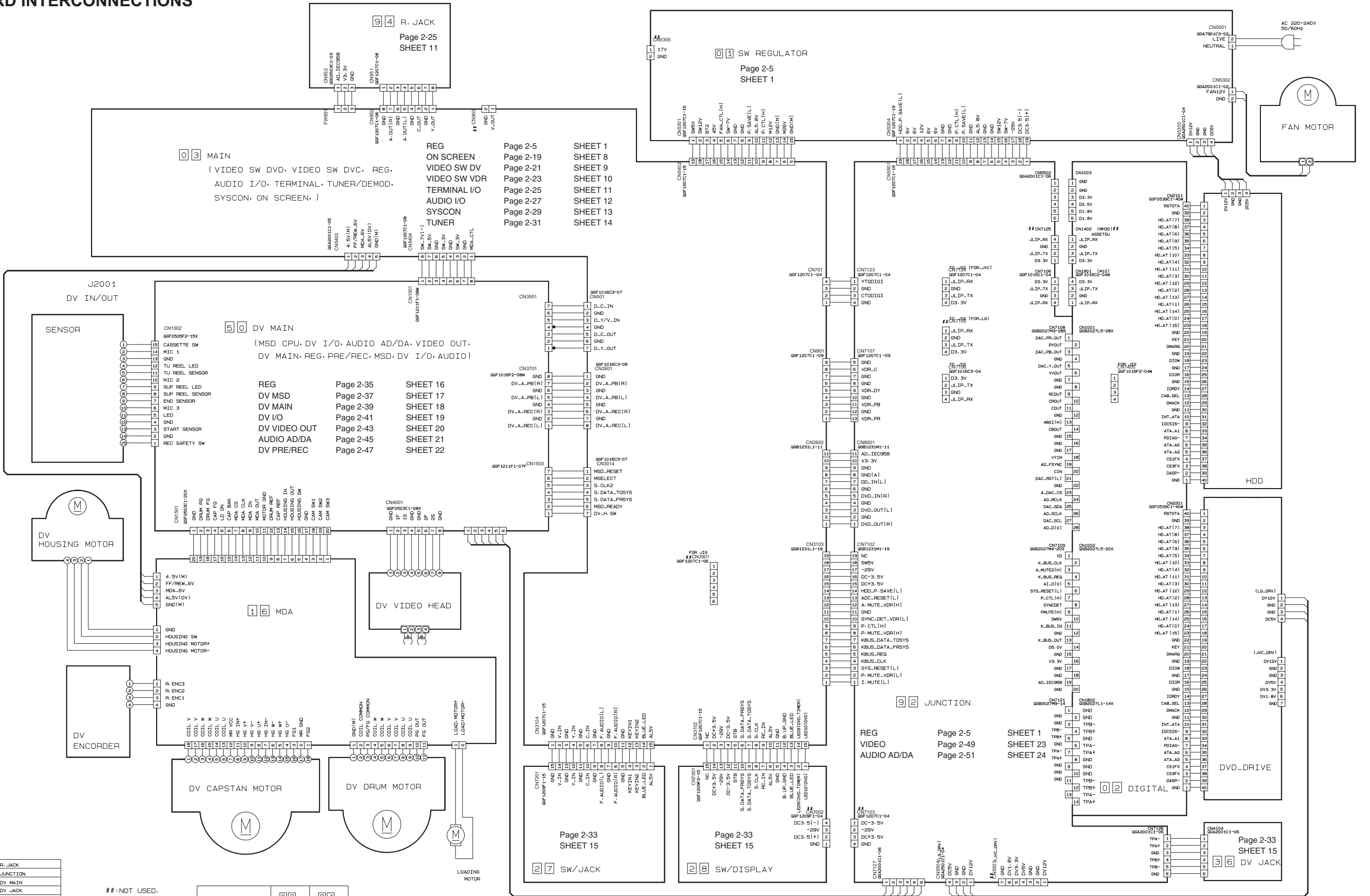
2

1

9 4	R. JACK
9 2	JUNCTION
5 0	DV MAIN
3 6	DV JACK
2 8	SW/DISPLAY
2 7	SW/JACK
1 6	MDA
0 3	MAIN
0 2	DIGITAL
0 1	SW REGULATOR
NO	NAME

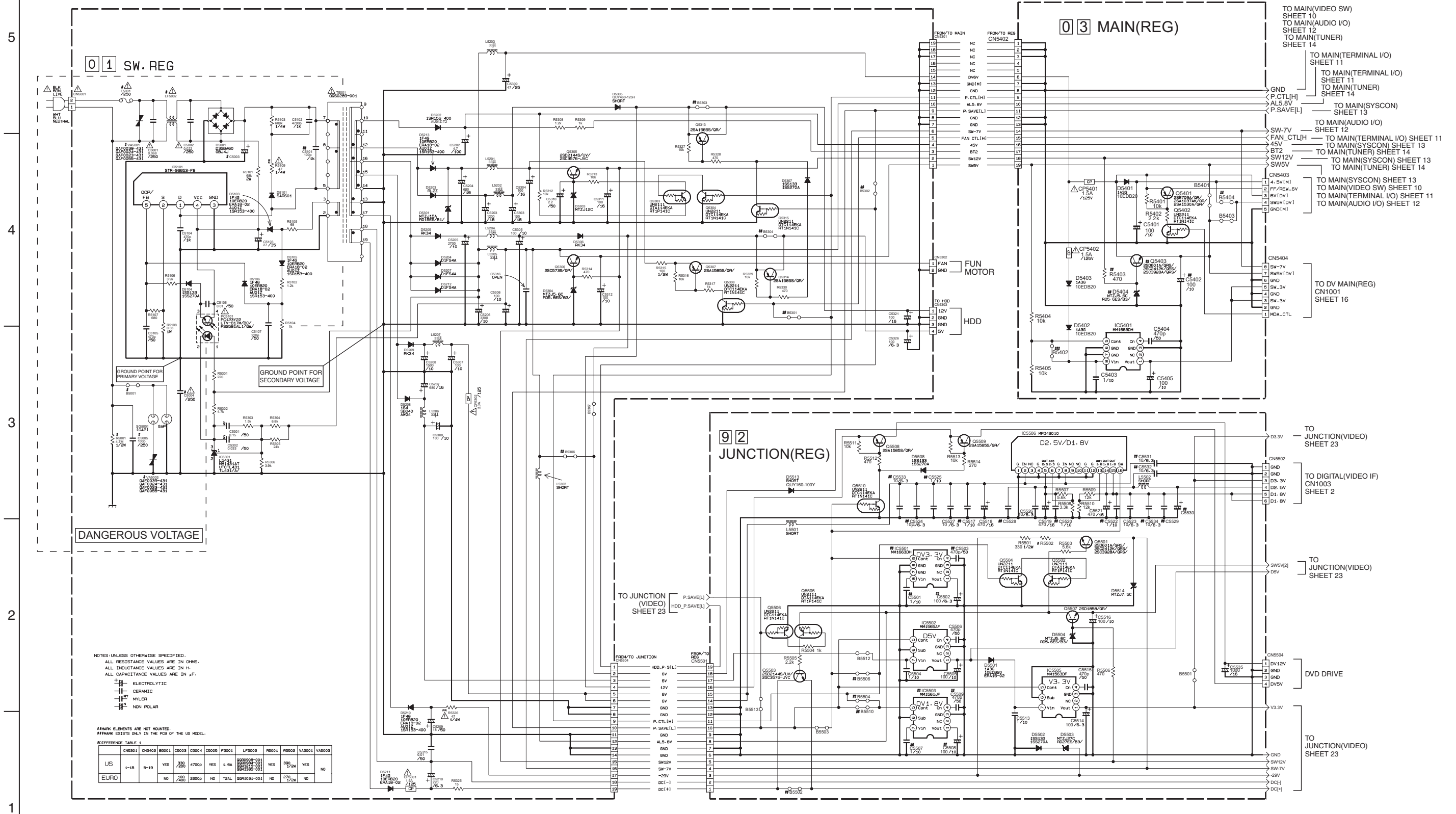
: NOT USED.

	03	94
	CN902	CN951
W/O BNC OUT	1-8	3-10
With BNC OUT	1-10	1-10

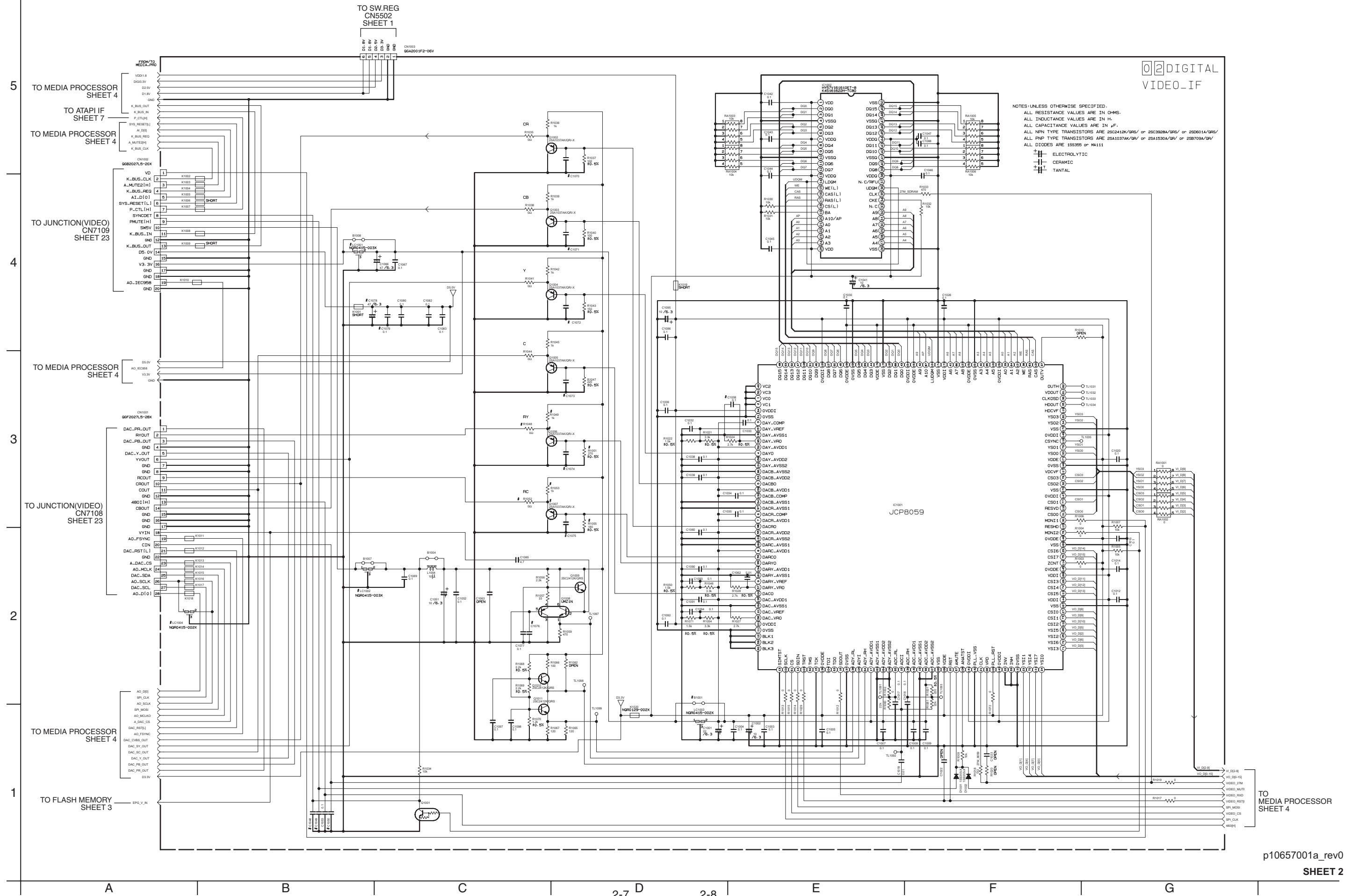


VIDEO IF	Page 2-7	SHEET 2
FLASH MEMORY	Page 2-9	SHEET 3
MEDIA PROCESSOR	Page 2-11	SHEET 4
DDR SDRAM	Page 2-13	SHEET 5
1394 PHY	Page 2-15	SHEET 6
ATAPI IF	Page 2-17	SHEET 7

SW.REG, MAIN(REG) AND JUNCTION(REG) SCHEMATIC DIAGRAM



■ DIGITAL(VIDEO IF) SCHEMATIC DIAGRAM



DIGITAL(FLASH MEMORY) SCHEMATIC DIAGRAM

5

4

3

2

1

A

B

C

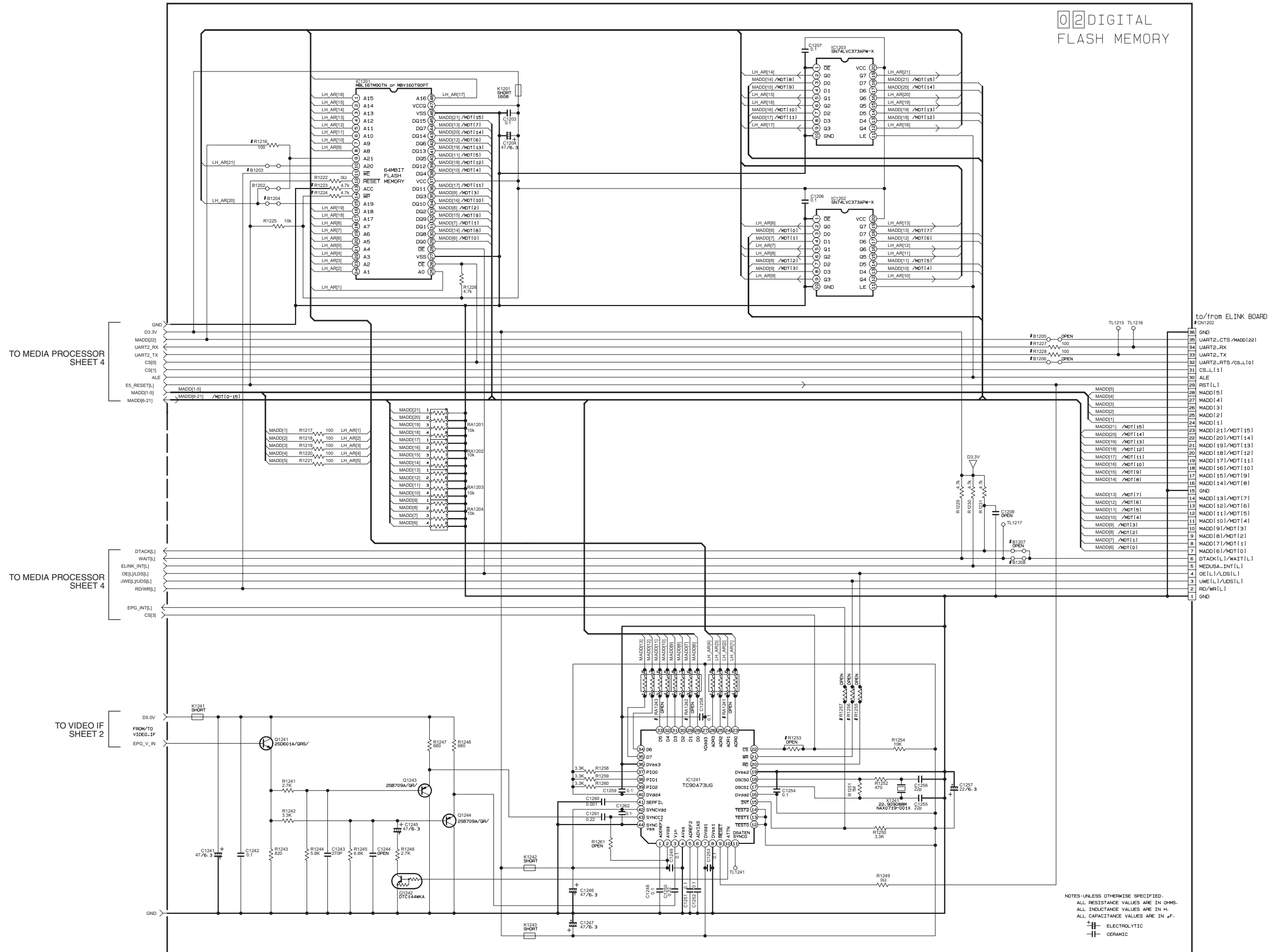
2-9

2-10

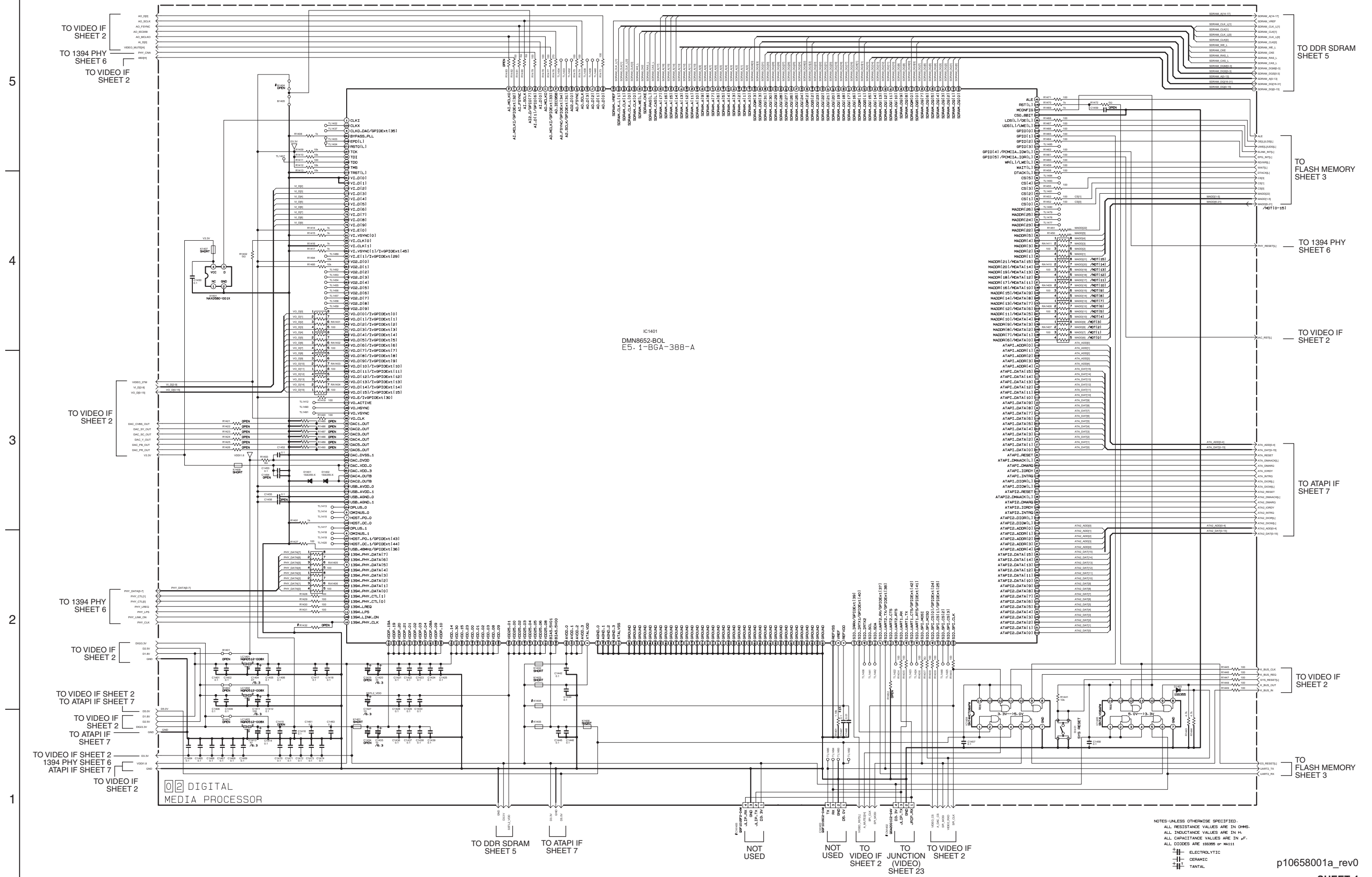
E

F

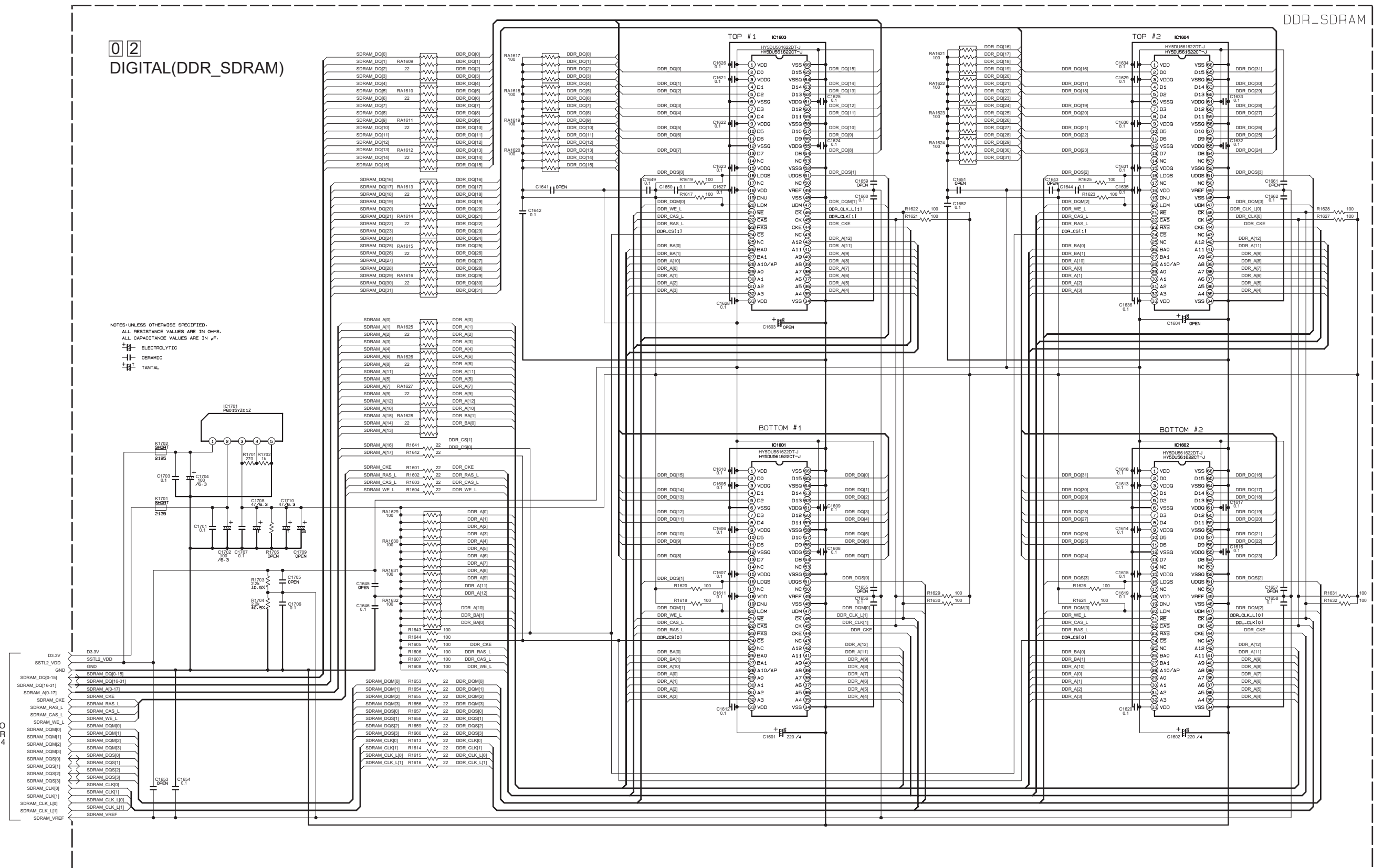
G



■ DIGITAL(MEDIA PROCESSOR) SCHEMATIC DIAGRAM



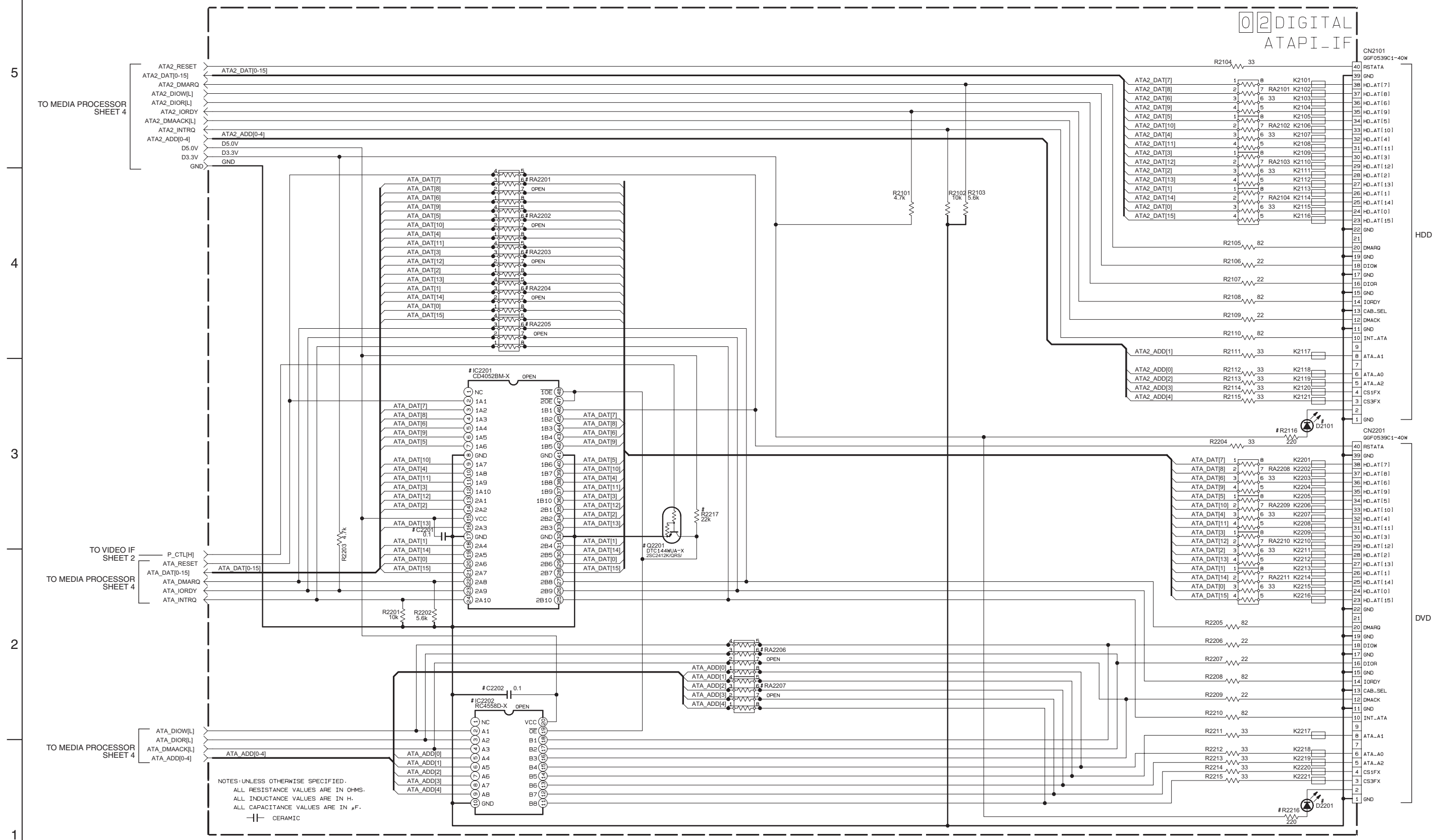
DIGITAL(DDR SDRAM) SCHEMATIC DIAGRAM



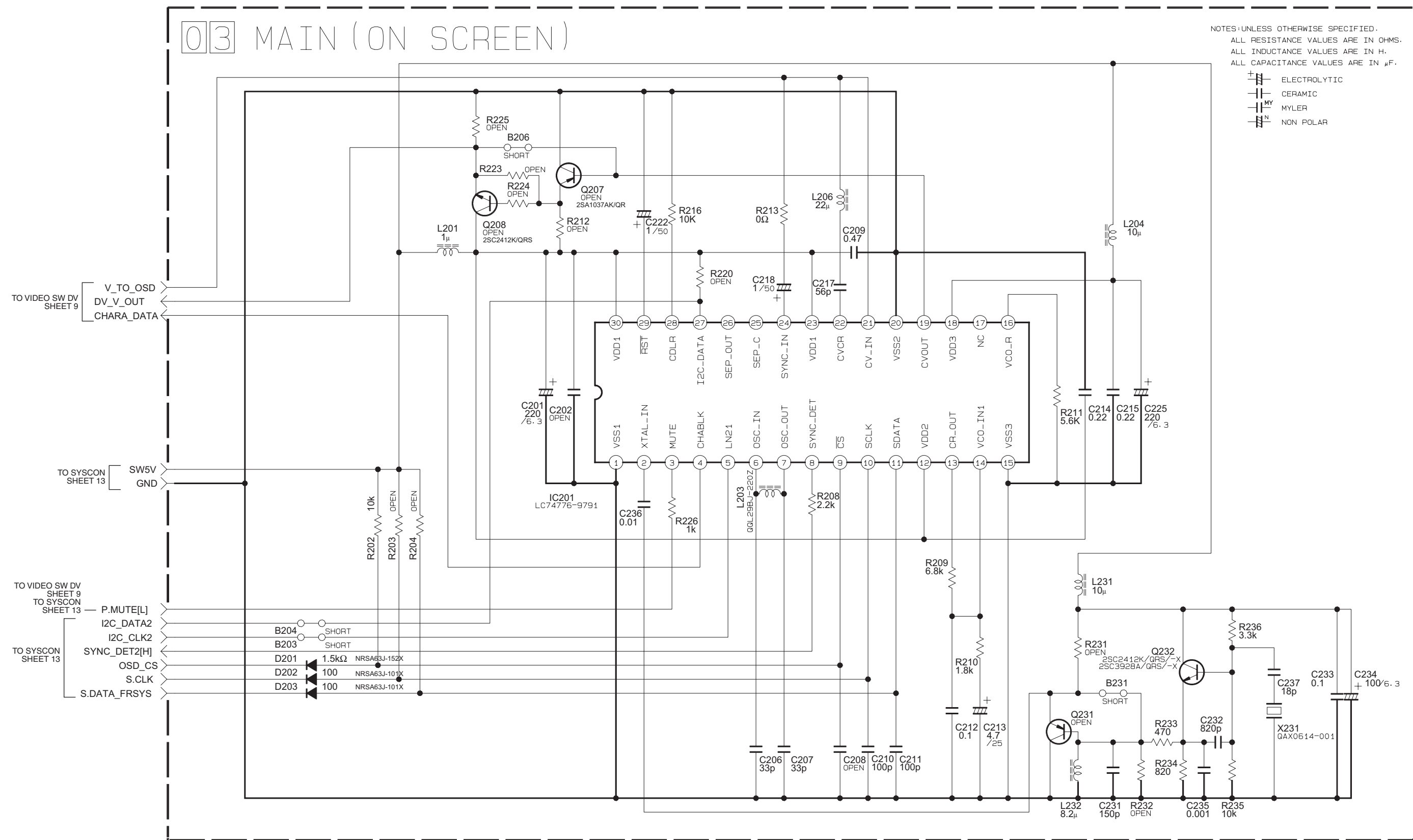
5	
4	
3	
2	
1	



■ DIGITAL(ATAPI IF) SCHEMATIC DIAGRAM



■ MAIN(ON SCREEN) SCHEMATIC DIAGRAM





3

2

1



p10695001a_rev0
SHEET 9

■ MAIN(VIDEO SW VDR) SCHEMATIC DIAGRAM

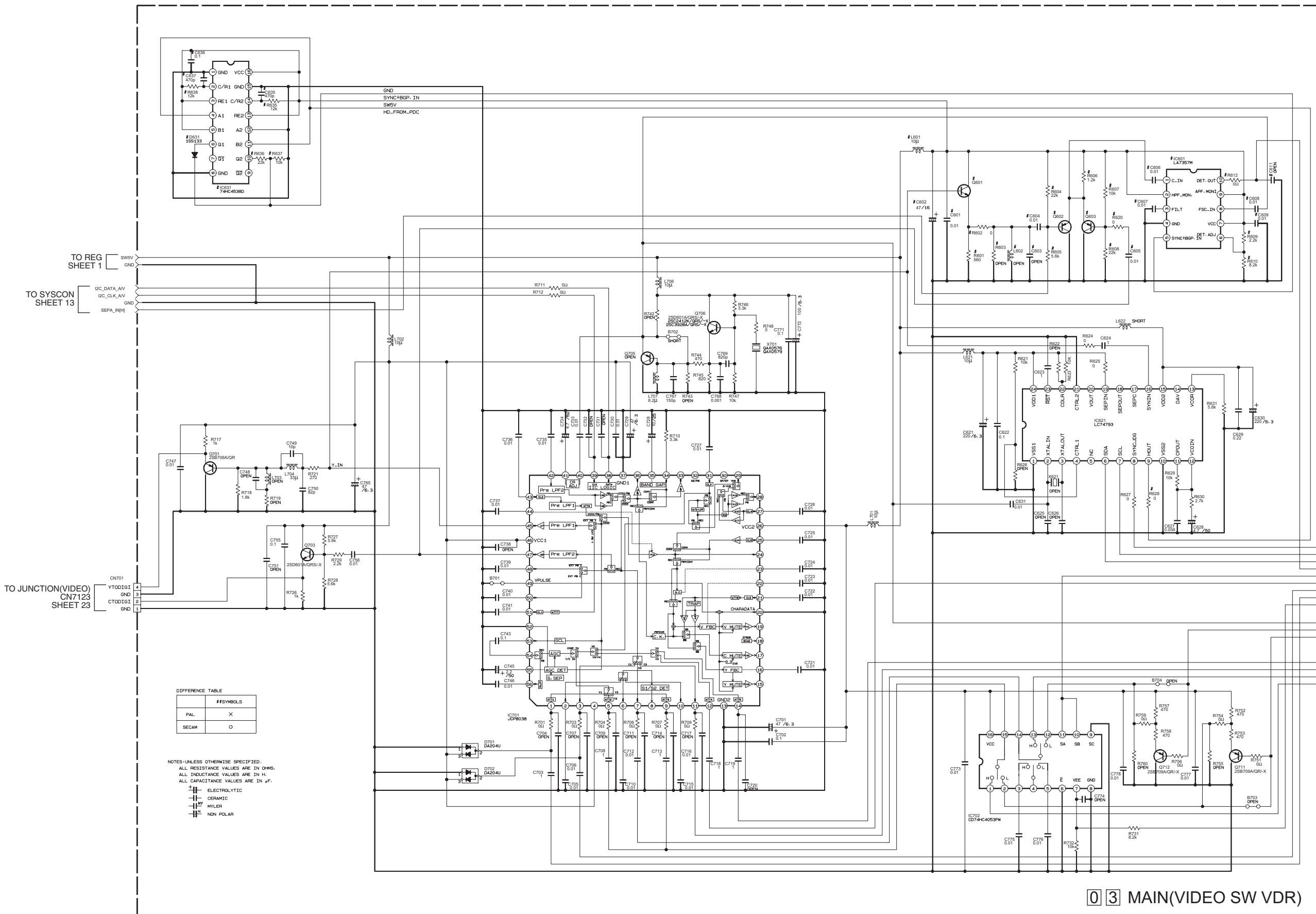
5

4

3

2

1



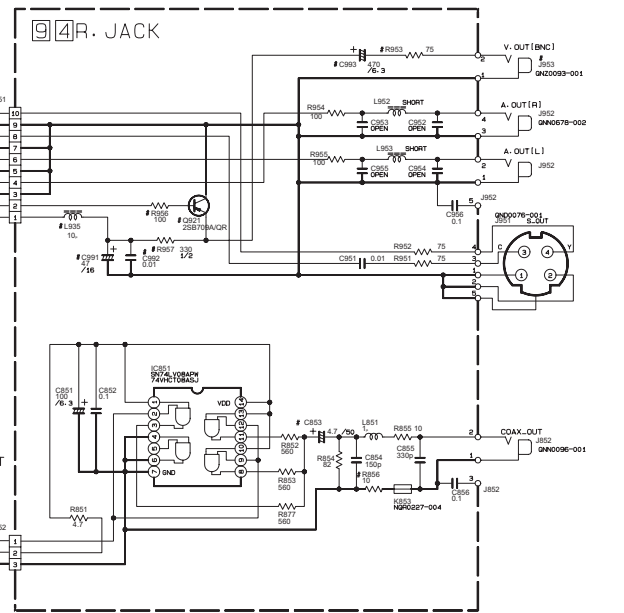
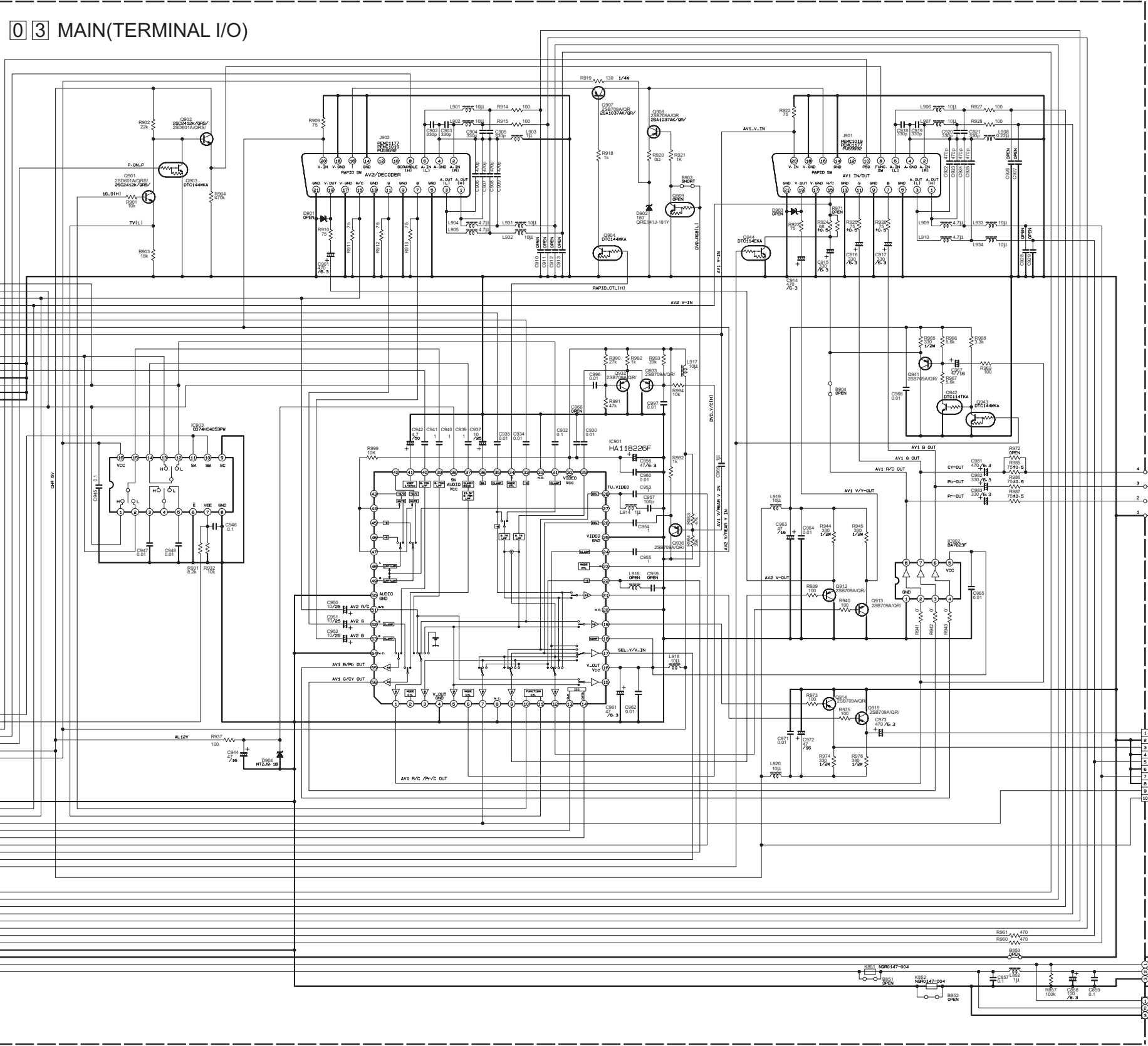
DIFFERENCE TABLE

	#SYMBOLS
PAL	X
SECAM	O

NOTES: UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN P.F.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

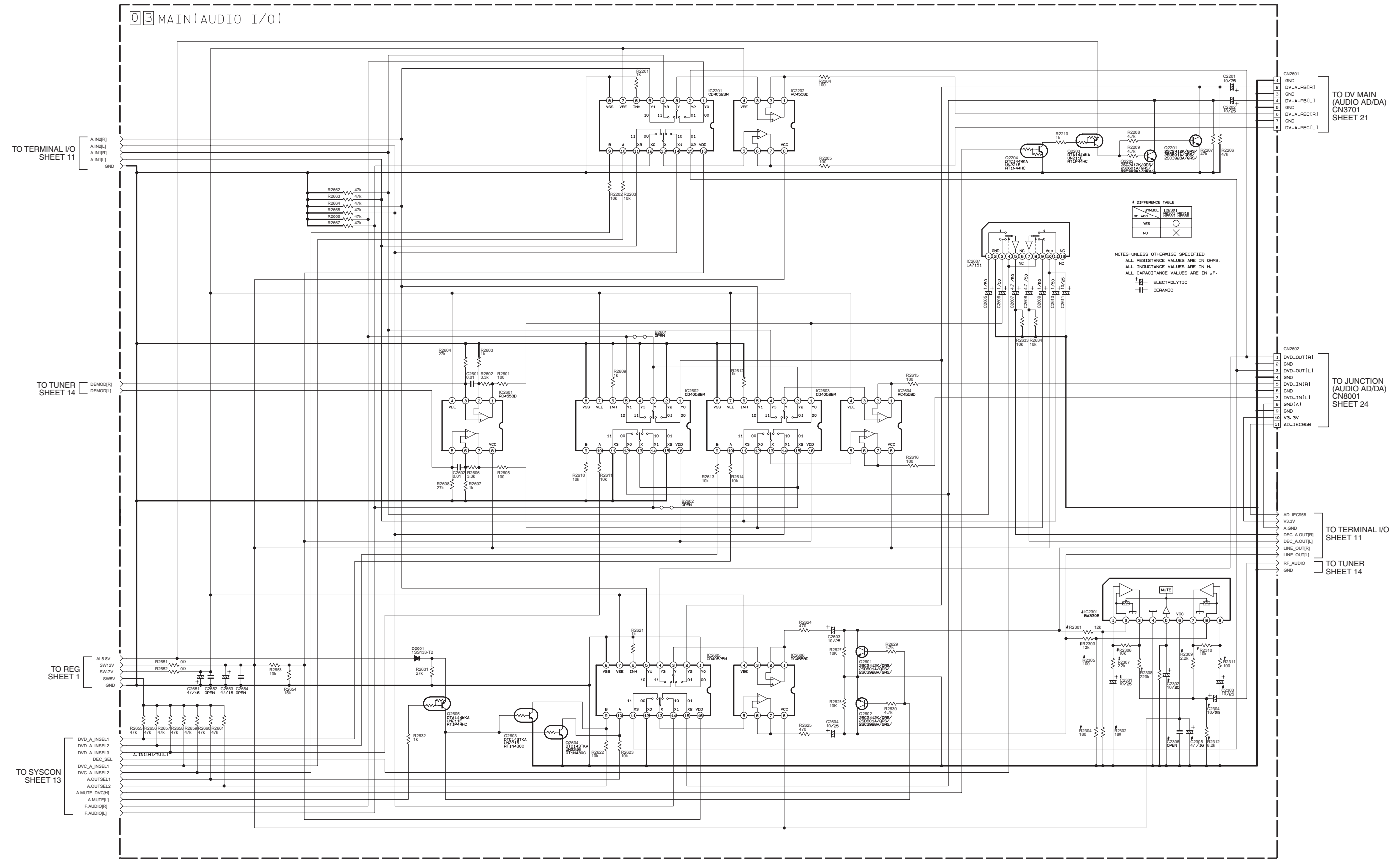
TO REG SHEET 1
TO SYSCON SHEET 13
TO JUNCTION(VIDEO) CN7123 SHEET 23
TO VIDEO SW DV SHEET 9
TO TERMINAL(I/O) SHEET 11

03 MAIN(VIDEO SW VDR)



■ MAIN(AUDIO I/O) SCHEMATIC DIAGRAM

03 MAIN(AUDIO I/O)





	ELECTROLYTIC
	CERAMIC
	MYLER
	NON POLAR

: NOT USED.

: DIFFERENCE TABLE

	B3002	R3206 C3010 BT3001 CN3002	C3042 C3037 C3010	C3011
L1-Batt. Back up	X	○	X	X
5min. Back up	○	X	○	X
10min Back up	○	X	X	○

	Q3009 Q3007 R3034 R3033 R3233
WITH AV COMP	○
W/O AV COMP	×

	L7201 Q7201 C7203 R7203, R7204 R3044, R3244	C3055
WITH SAT CTL	○	×
W/O SAT CTL	×	×
WITH RC IN	×	○

■ MAIN(TUNER) SCHEMATIC DIAGRAM

03 MAIN[TUNER]

DIFFERENCE TABLE

	E/EK	EF
TU6001	61mm EF SANGHUNG GAU0400	61mm EF SANGHUNG GAU0402
B6006-R6030, R6033-C6037, C6724-K6707	×	○

NOTES:UNLESS OTHERWISE SPECIFIED,
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

⎓ ELECTROLYTIC
⎓ CERAMIC
⎓ MYLAR
⎓ NON POLAR

TO SYSCON
SHEET 13

TU_2C_CLK
TU_2C_DATA
AFC
TU_V_MUTE[m]
RF_AGC
SW_1
SW_2

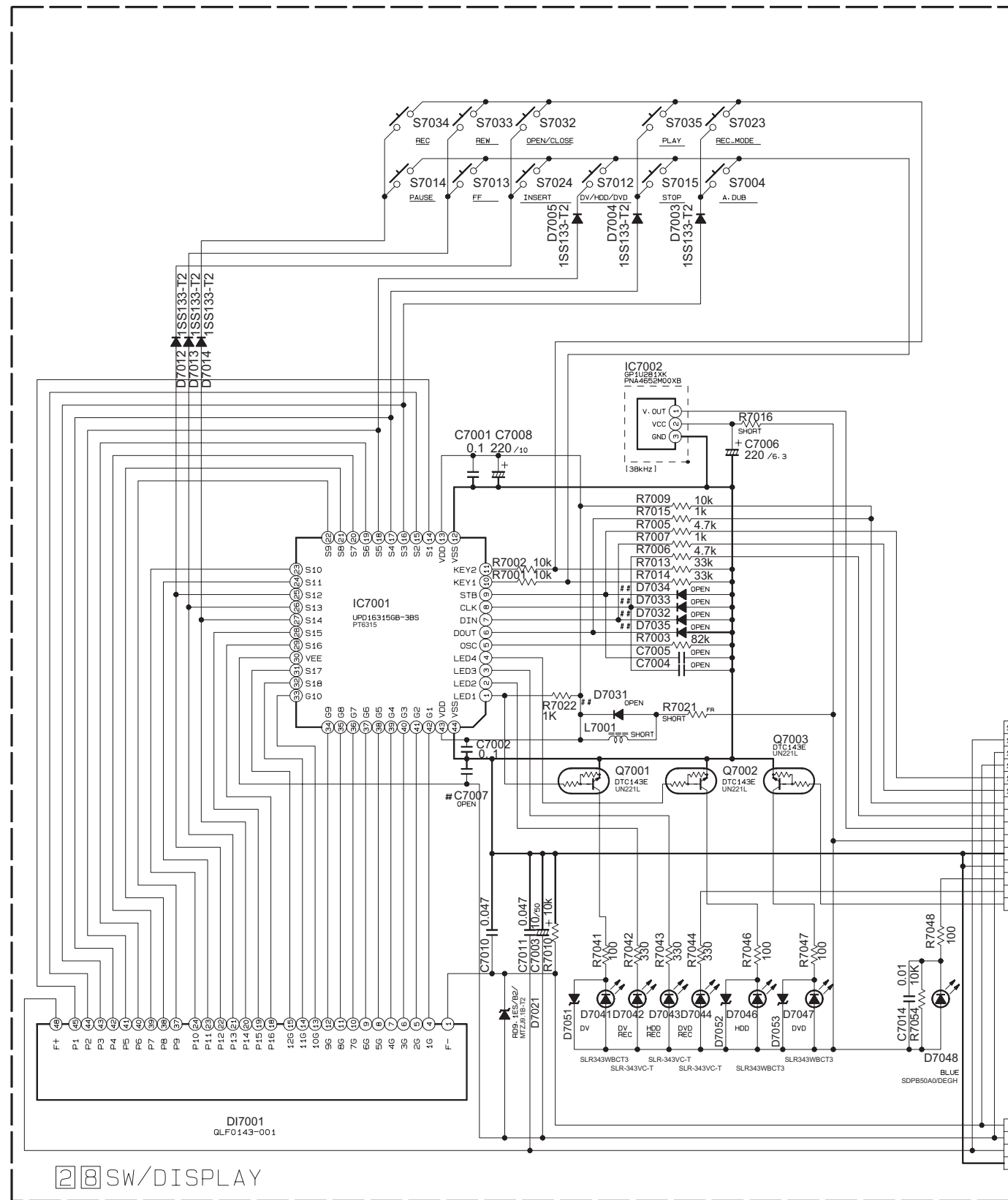
TO REG
SHEET 1

TO AUDIO I/O
SHEET 12

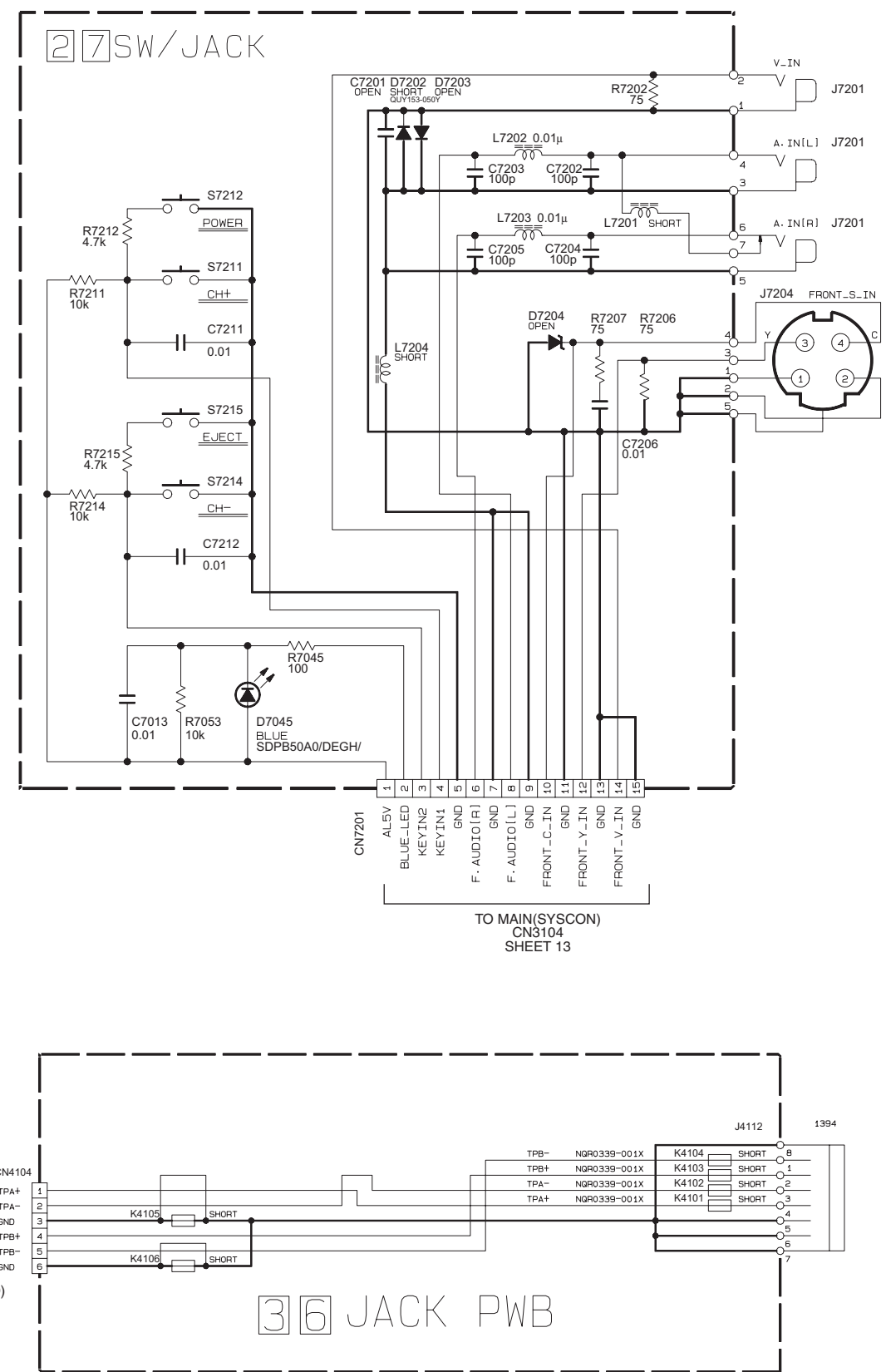
TO TERMINAL I/O
SHEET 11

SWITCH JACK, SWITCH DISPLAY AND JACK SCHEMATIC DIAGRAM

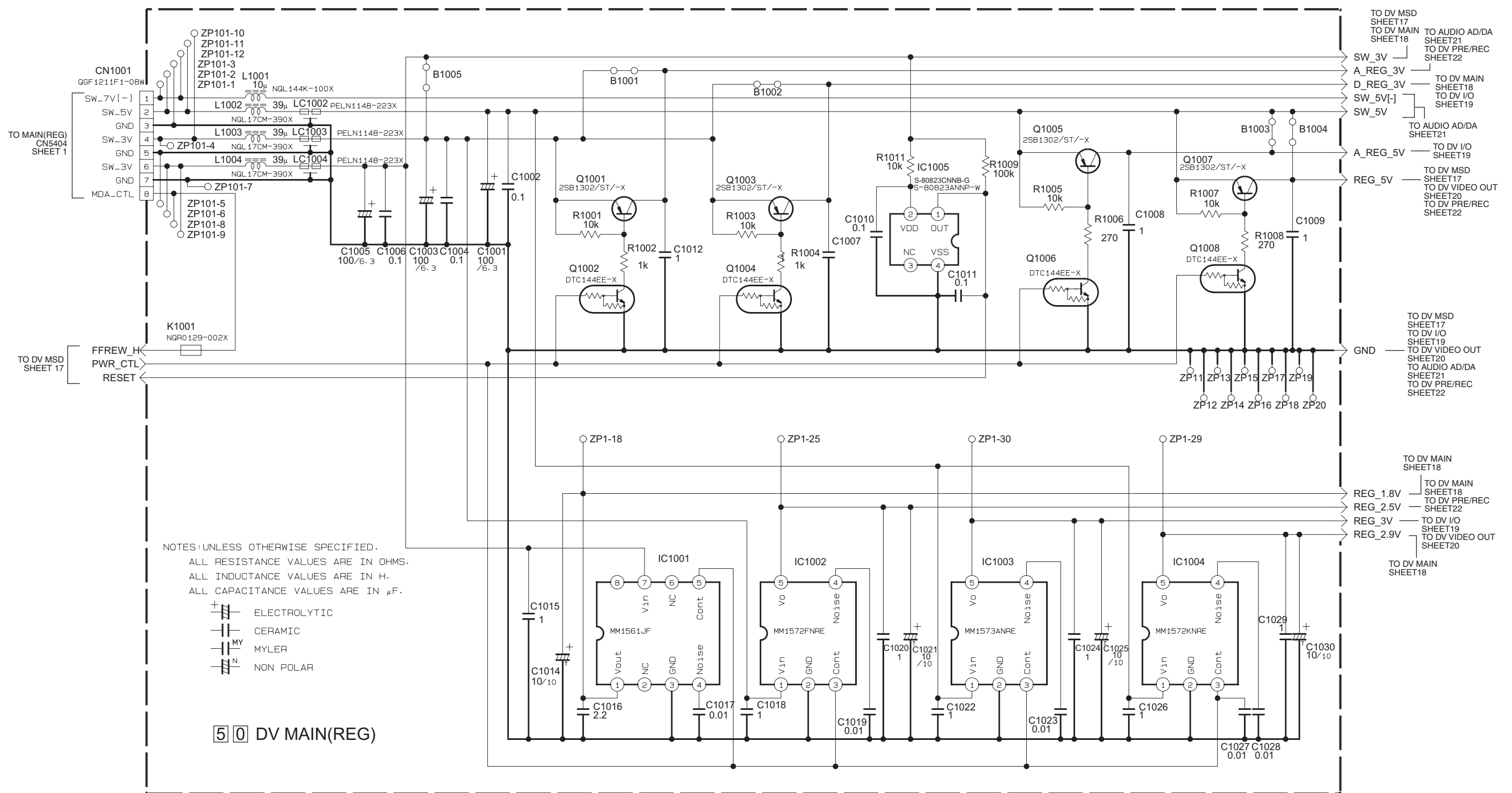
5
4
3
2
1



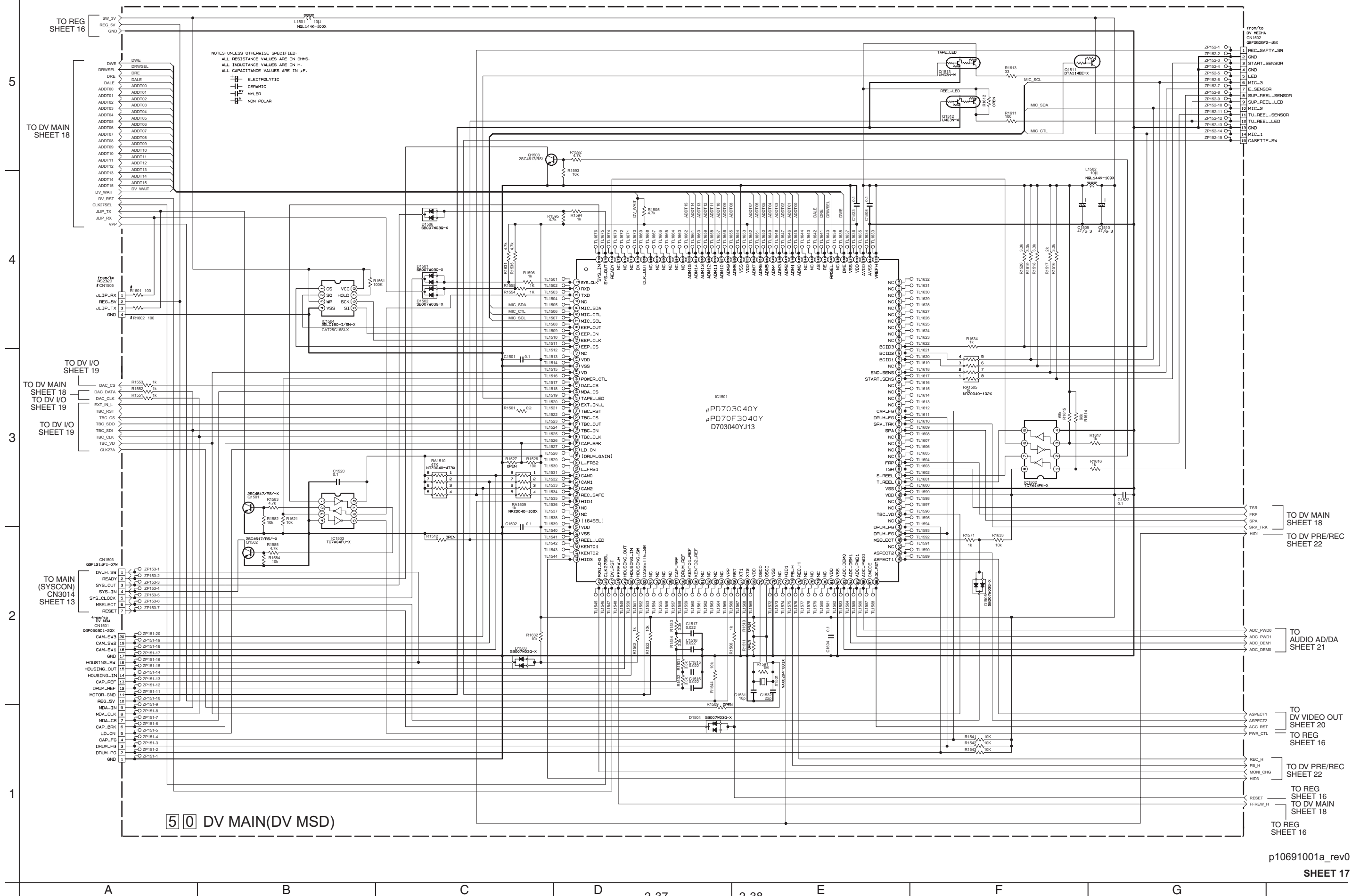
NOT USED
NOTES: UNLESS OTHERWISE SPECIFIED,
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN pF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR



■ DV MAIN(REG) SCHEMATIC DIAGRAM



■ DV MAIN(DV MSD) SCHEMATIC DIAGRAM



■ DV MAIN(DV MAIN) SCHEMATIC DIAGRAM

5 0 DV MAIN(DV MAIN)

5

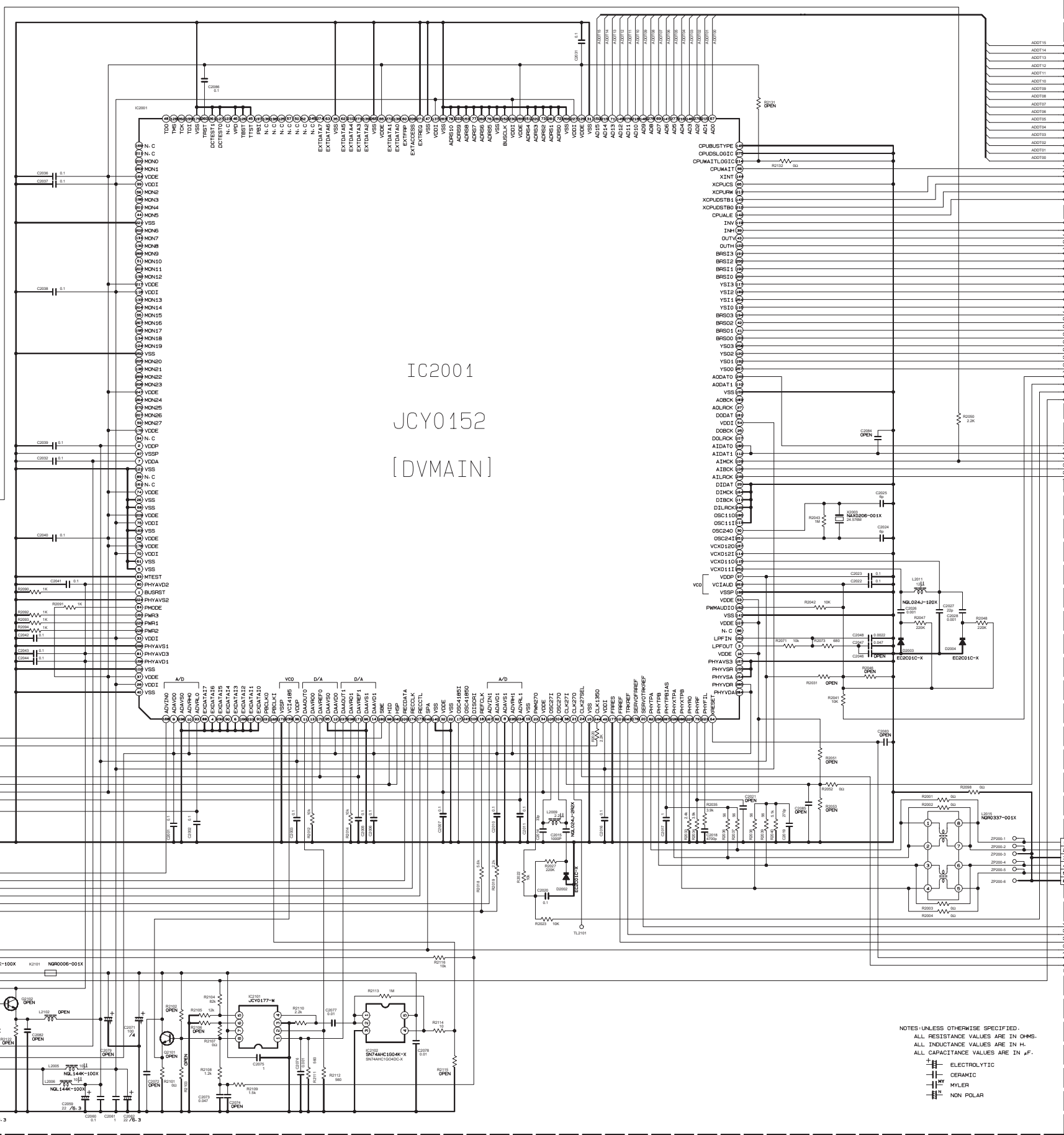
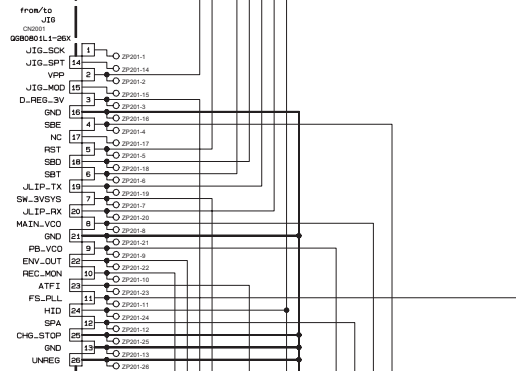
4

3

2

1

TO DV MSD
SHEET 17



TO DV MSD
SHEET 17

TO DV I/O
SHEET 19

TO AUDIO AD/DA
SHEET 21

TO DV PRE/REC
SHEET 22

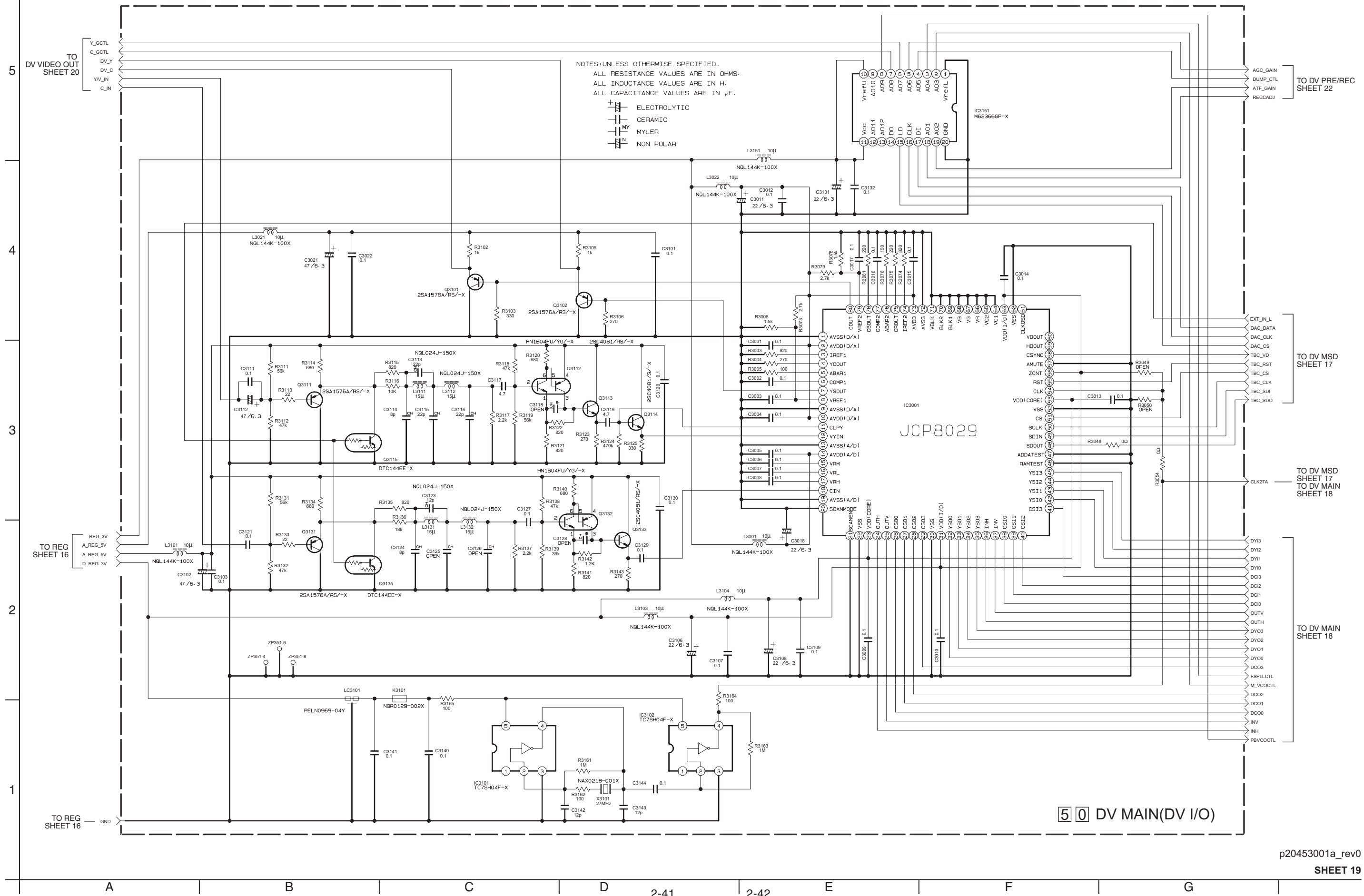
TO REG
SHEET 16

TO JUNCTION(VIDEO)
CN7127
SHEET 23

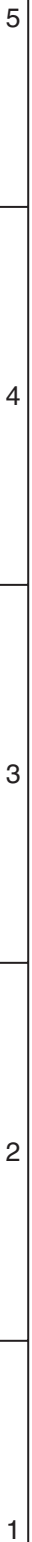
TO DV MSD
SHEET 17

NOTES: UNLESS OTHERWISE SPECIFIED,
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μ F.
+ ELECTROLYTIC
- CERAMIC
- MYLAR
- NON POLAR

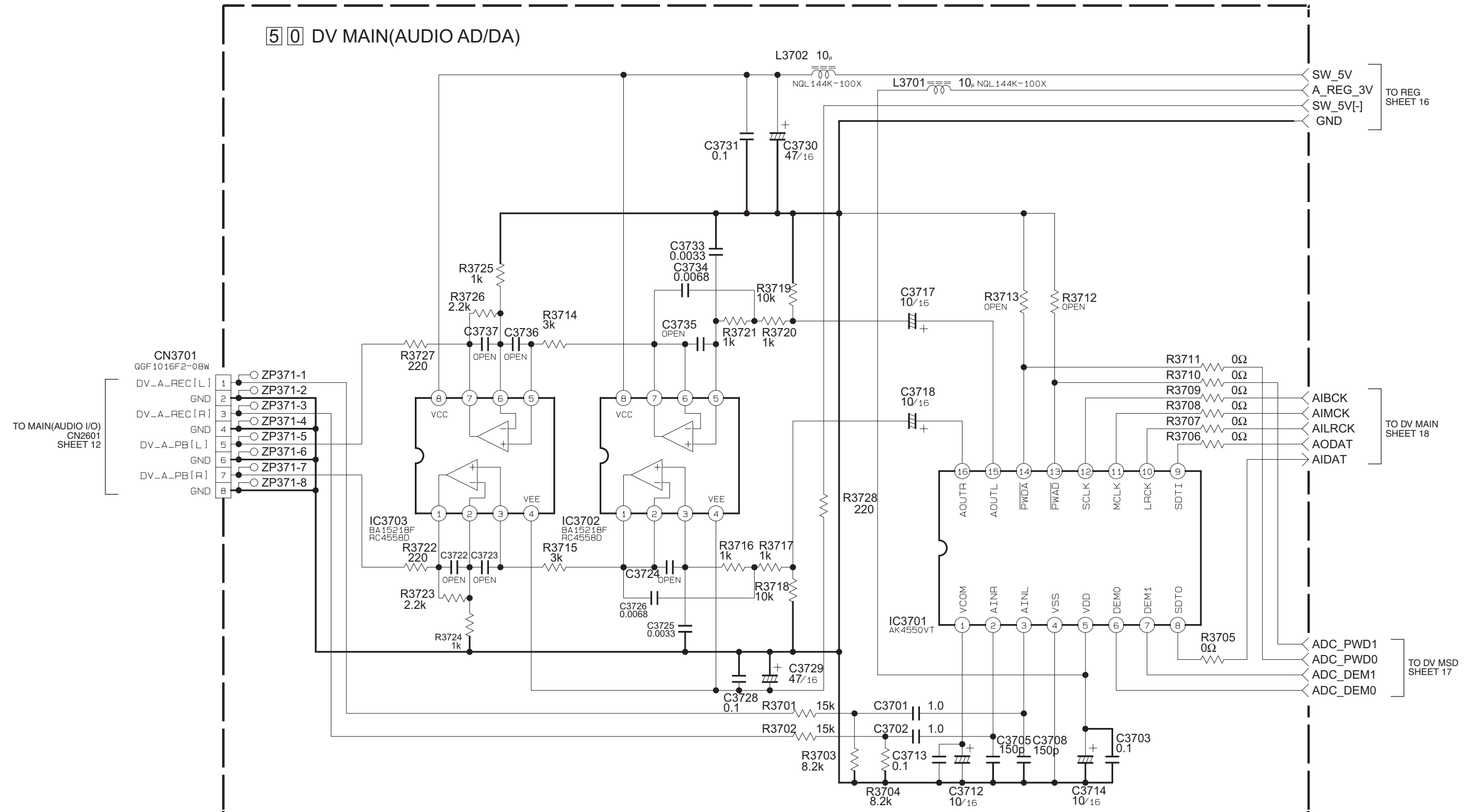
DV MAIN(DV I/O) SCHEMATIC DIAGRAM



5	
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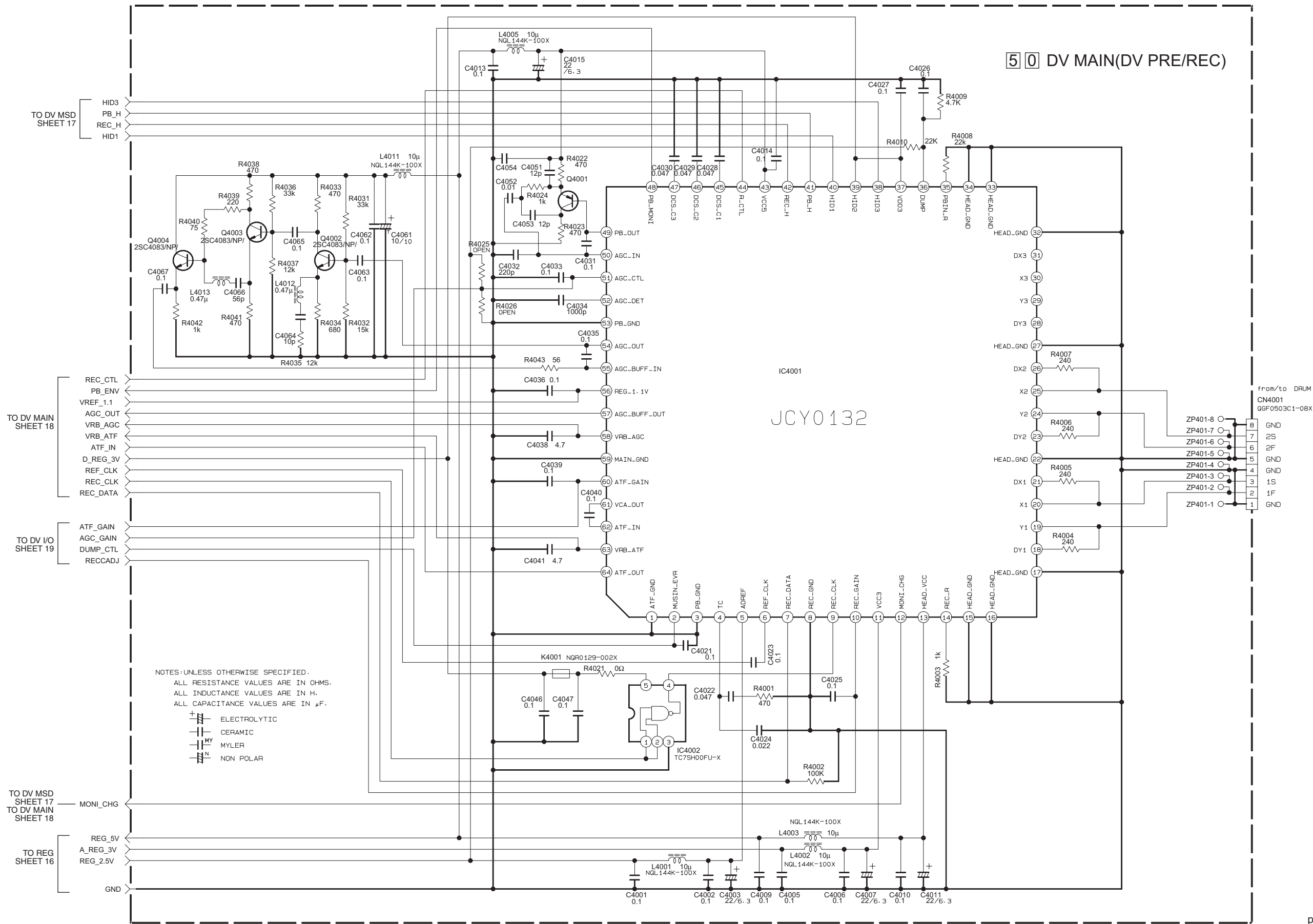
■ DV MAIN(AUDIO AD/DA) SCHEMATIC DIAGRAM



NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION --- CD MODE.
- UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W OR 1/10W OR 1/8W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V OR 16V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

■ DV MAIN(DV PRE/REC) SCHEMATIC DIAGRAM



■ JUNCTION(VIDEO) SCHEMATIC DIAGRAM

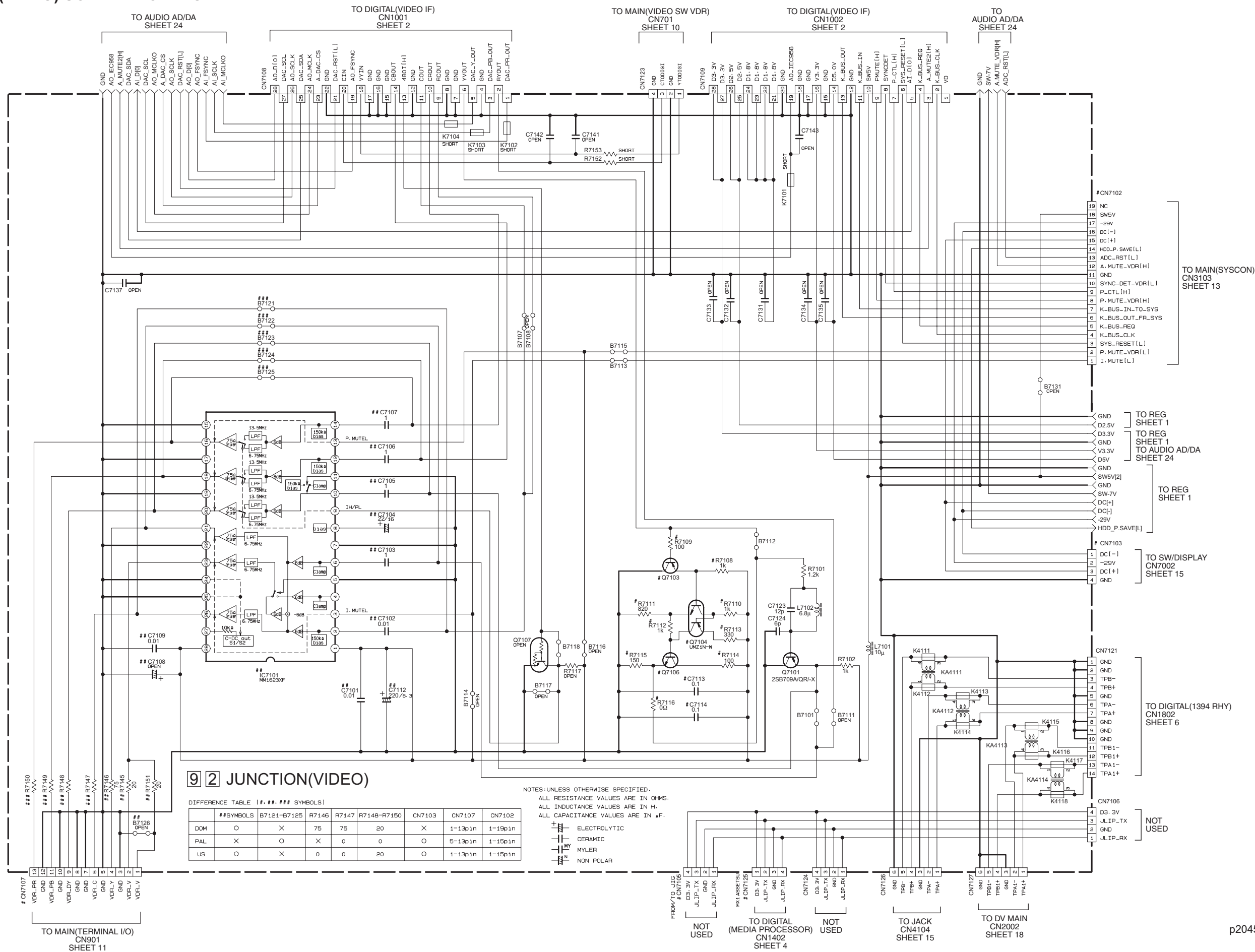
5

4

3

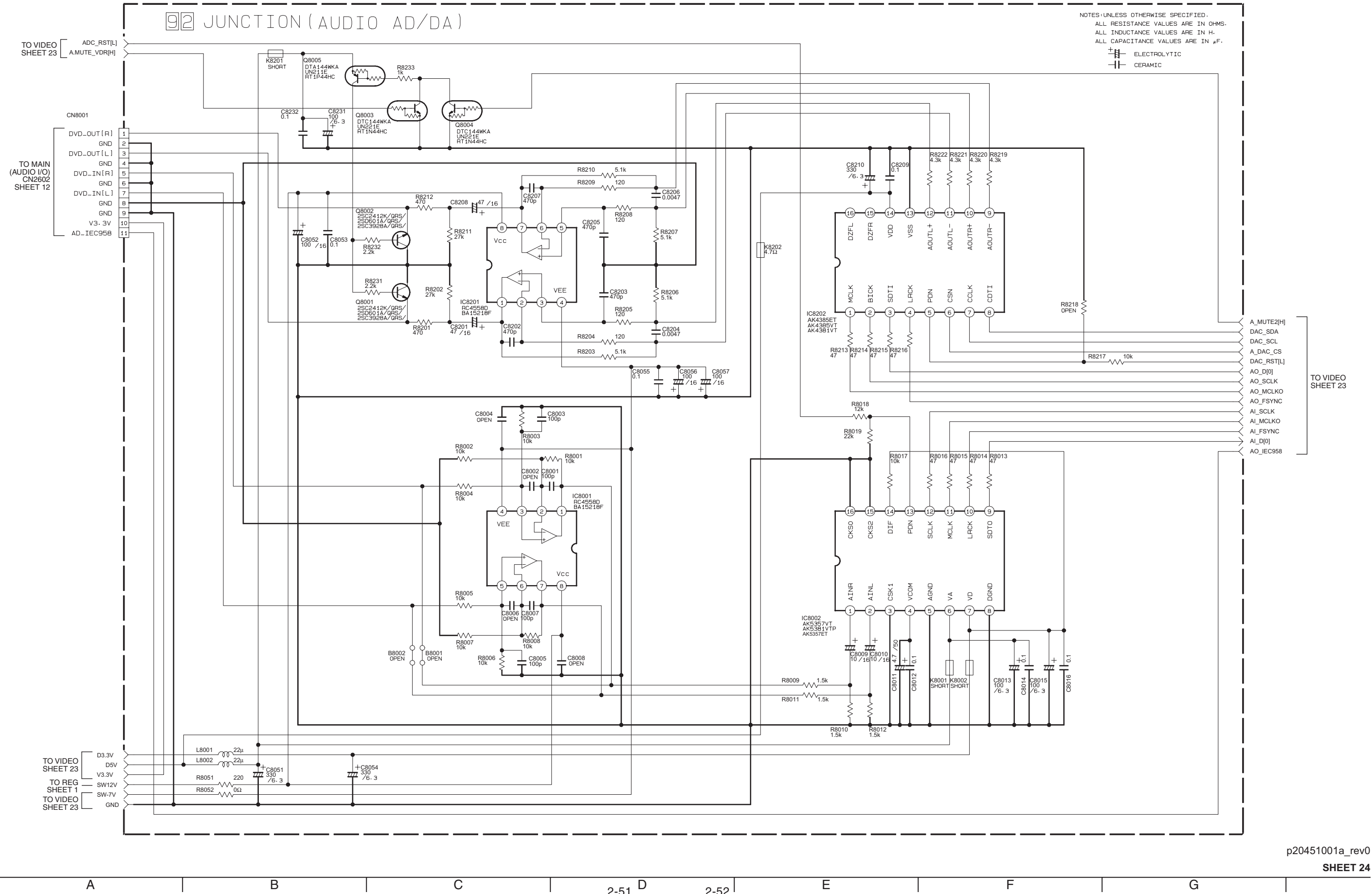
2

1



JUNCTION(AUDIO AD/DA) SCHEMATIC DIAGRAM

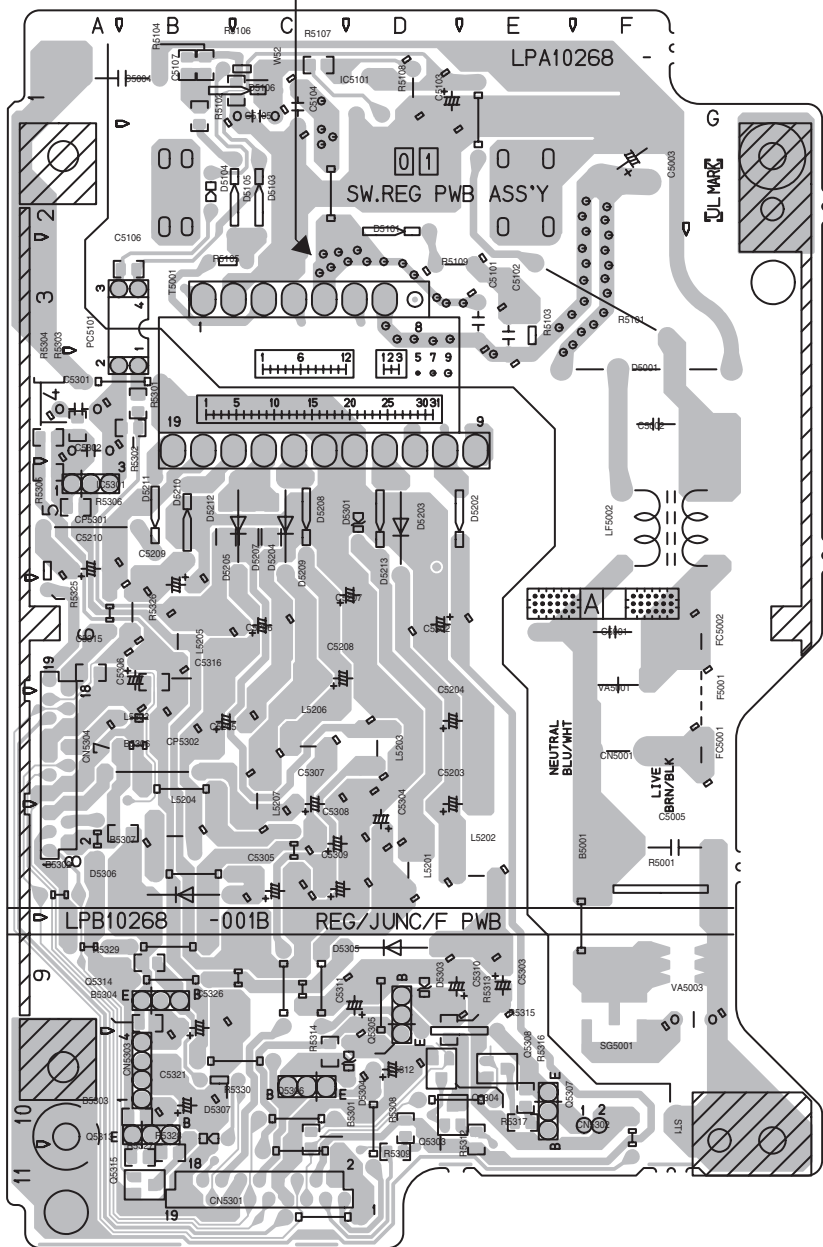
5
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1



SWITCHING REGULATOR CIRCUIT BOARD

<01>SWITCHING
REGULATOR

DANGEROUS VOLTAGE

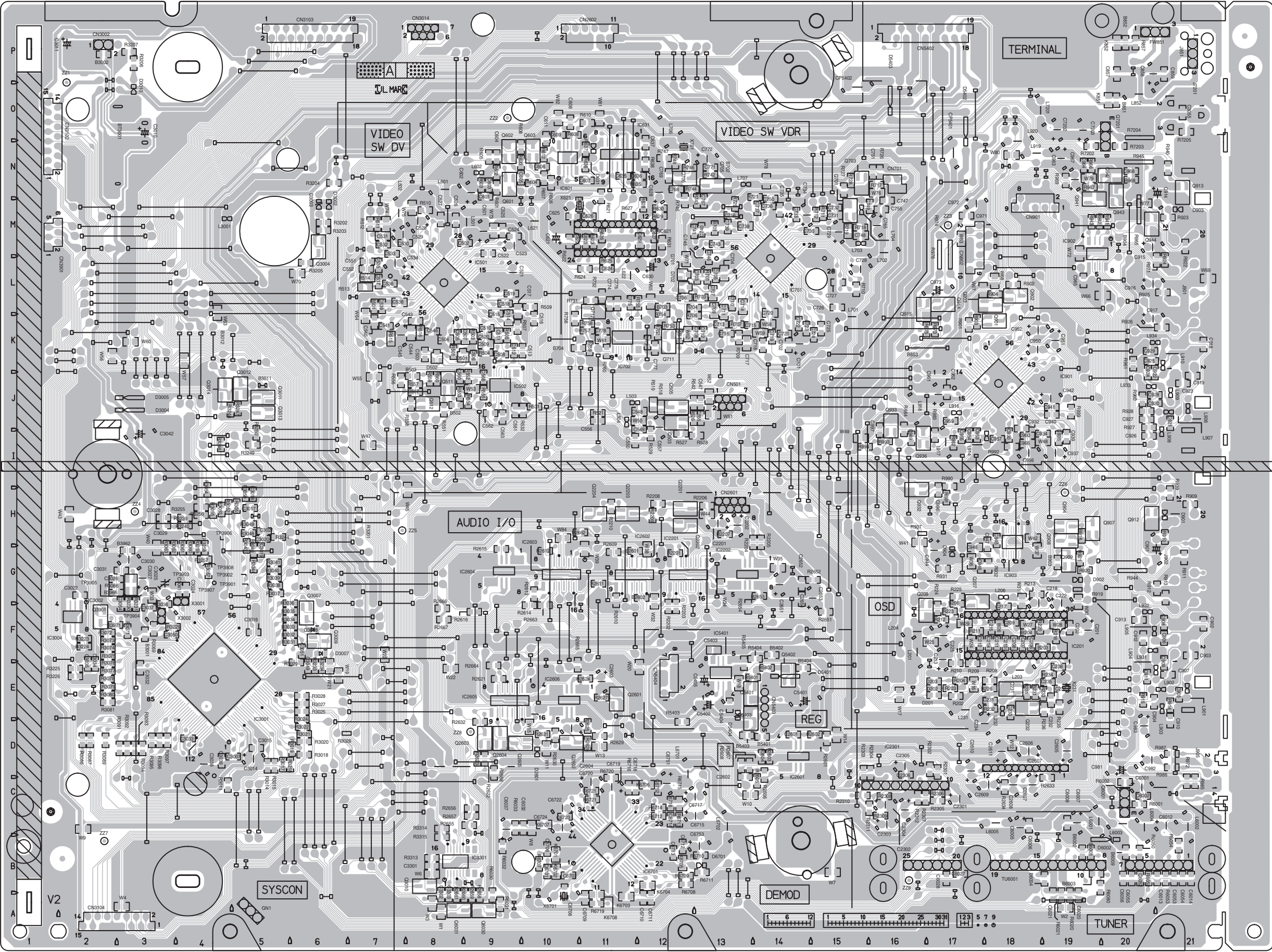


COMPONENT PARTS LOCATION GUIDE <SWITCHING REGULATOR>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR											
C5001	A D 6F	C5306	A D 6B	D5203	A D 5C	L5203	A D 7D	R5108	A D 1D	FC5002	A D 6G
C5002	A D 4F	C5307	A D 8C	D5204	B C 5D	L5204	A D 8B	R5109	A D 3D	LF5002	A D 5F
C5003	A D 2F	C5308	A D 8C	D5205	A D 5C	L5205	A D 6B	R5301	B C 4B	PC5101	A D 4B
C5004	A D 1B	C5310	A D 9D	D5207	B C 5C	L5206	A D 7C	R5302	B C 4B	SG5001	B C 9F
C5005	A D 8F	C5311	A D 9D	D5208	A D 5C	L5207	A D 7C	R5303	B C 4A	T5001	A D 3B
C5101	A D 3E	C5312	A D 10D	D5209	A D 5C	L5302	A D 7B	R5304	B C 4A	VA5001	A D 6F
C5102	A D 4E	C5315	B C 6A	D5210	A D 5B			R5305	B C 5A	VA5003	A D 9G
C5103	A D 1D	C5316	B C 6B	D5211	A D 5B	TRANSISTOR					
C5104	A D 1C	C5321	A D 10B	D5212	B C 5B	Q5303	B C 10D	R5306	B C 5A		
C5105	A D 1C	C5326	A D 9B	D5213	A D 5D	Q5304	B C 10D	R5307	B C 10D		
C5106	B C 3B			D5301	A D 5D	Q5305	A D 10D	R5308	B C 10E		
C5107	B C 1B			D5303	A D 9D	Q5306	A D 10C	R5309	B C 9D		
C5202	A D 6E	CONNECTOR		D5304	A D 10D	Q5307	A D 10E	R5310	B C 10C		
C5203	A D 8D	CN5001	A D 7F	D5305	A D 9D	Q5308	B C 10E	R5311	B C 10E		
C5204	A D 7D	CN5001	A D 11C	D5306	A D 10B	H5313	A D 10B	R5312	B C 10E		
C5205	A D 7B	CN5002	A D 10F	D5307	A D 10B	Q5314	A D 9B	R5313	B C 10E		
C5206	A D 6C	CN5303	A D 10B			Q5315	B C 11B	R5325	A D 5A		
C5207	A D 6C	CN5304	A D 8A	FUSE				R5326	A D 6B		
C5208	A D 6C			F5001	A D 7G	RESISTOR				R5327	B C 11B
C5209	A D 6B	D5001	A D 4E	IC		R5001	A D 8F	R5328	B C 11B		
C5210	A D 5A	D5101	A D 2D	IC5101	A D 1C	R5101	A D 3F	R5329	B C 9B		
C5301	A D 4A	D5103	A D 2C	IC5301	A D 5A	R5102	B C 1B	R5330	A D 10B		
C5302	A D 4A	D5104	A D 2B			R5103	A D 4E				
C5303	A D 9E	D5105	A D 2C	COIL				R5104	B C 1B	OTHER	
C5304	A D 8D	D5106	A D 1B	L5201	A D 8D	R5105	A D 3C	CP5301	A D 5B		
C5305	A D 8C	D5202	A D 5E	L5202	A D 8D	R5106	A D 1C	PC5302	A D 7A		
						R5107	B C 1C	FC5001	A D 7G		

■ MAIN CIRCUIT BOARD

<03>MAIN

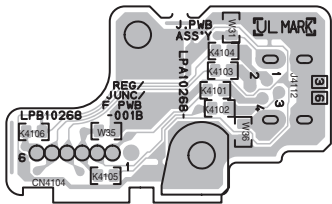


COMPONENT PARTS LOCATION GUIDE <MAIN>

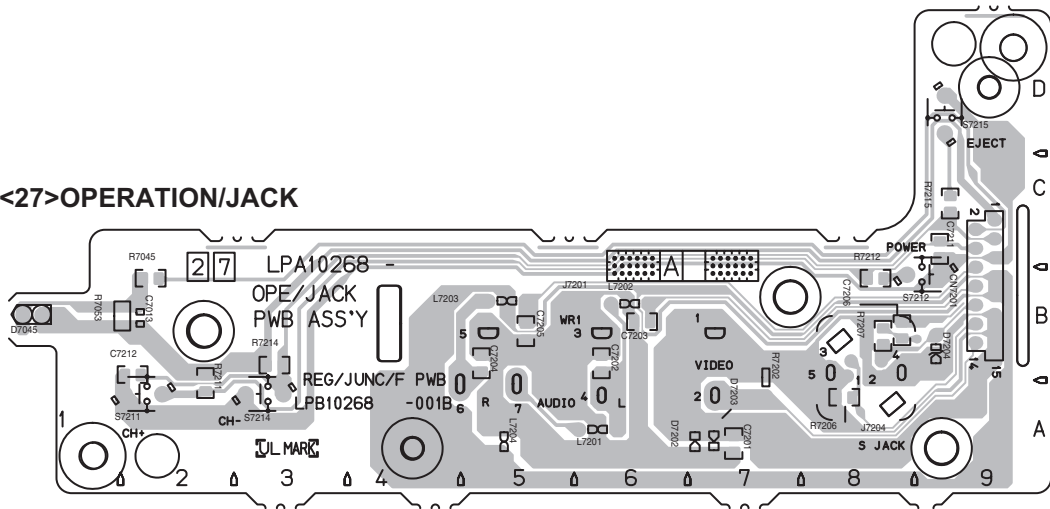
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CAPACITOR	C709	B C 13L	C966	B C 18I	C6723	B C 10C	L917	A D 17I	R519	B C 12J	R961	B C 20K	R3039	B C 5G	GN1	A D 4A	
C201	A D 19F	C710	B C 13L	C967	A D 19N	C6724	A D 10C	L918	A D 16J	R521	B C 11J	R965	A D 20N	R3040	B C 5G	J851	A D 22P
C202	B C 19F	C711	B C 13L	C968	B C 20N	C6751	A D 12C	L919	A D 18N	R526	B C 12J	R966	B C 19N	R3041	B C 5G	J901	A D 21L
C206	B C 18F	C712	B C 13K	C969	B C 16I	C6752	B C 12C	L920	A D 18N	R527	B C 12I	R967	B C 19N	R3044	B C 5G	J902	A D 21G
C207	B C 18F	C713	B C 13K	C971	B C 17M	C6753	A D 12B	L931	A D 21F	R528	B C 13I	R968	B C 20N	R3046	B C 5G	J905	A D 22C
C208	B C 18F	C714	B C 13L	C972	A D 17M	C7202	A D 19C	L932	A D 20F	R529	B C 12I	R969	B C 19N	R3047	B C 5G	J7201	A D 22O
C209	B C 18F	C715	B C 13K	C973	A D 17L	C7203	A D 19C	L933	A D 21J	R531	B C 10J	R971	B C 20L	R3048	B C 5H	K851	B C 20O
C210	B C 18F	C716	B C 13K	C981	A D 20D			L934	A D 21K	R532	B C 10J	R972	B C 21C	R3049	B C 5H	K852	B C 20P
C211	B C 18F	C717	B C 13K	C982	A D 20D	CONNECTOR	L3001	A D 4M	R542	B C 12J	R973	B C 17K	R3050	B C 5H	K6701	B C 10B	
C212	B C 17F	C718	B C 14K	C983	A D 20D	CN501	A D 13J	L6001	A D 19C	R551	B C 8J	R974	A D 17M	R3051	B C 5H	K6702	B C 10B
C213	A D 17E	C719	B C 14K	C996	B C 17H	CN701	A D 16N	L6002	A D 21B	R552	B C 9J	R975	B C 17K	R3052	B C 4H	K6703	B C 11A
C214	B C 18F	C720	B C 14L	C997	B C 16I	CN901	A D 19M	L6003	A D 20C	R553	B C 8J	R976	A D 17M	R3053	B C 4H	K6704	B C 12B
C215	B C 18F	C721	B C 14K	C2201	A D 13H	CN902	A D 17M	L6004	A D 20B	R554	B C 9J	R982	B C 17I	R3054	B C 4H	K6705	B C 12B
C217	B C 18F	C722	B C 14K	C2202	A D 13H	CN2601	A D 13H	L6005	A D 18C	R555	B C 9J	R983	B C 17I	R3055	B C 4H	K6706	B C 12C
C218	A D 18G	C723	B C 14K	C2301	A D 17C	CN2602	A D 10P	L6701	A D 12C	R556	B C 7J	R984	B C 16J	R3057	B C 4G	K6707	B C 10C
C222	A D 19G	C724	B C 15K	C2302	A D 16C	CN3002	A D 2P	L6702	A D 13B	R557	B C 8J	R985	B C 21C	R3060	B C 4G	K6708	B C 11A
C225	A D 17F	C725	B C 15K	C2303	A D 16C	CN3014	A D 8P	L7201	A D 18O	R558	B C 8J	R986	B C 21D	R3061	B C 4G	PC015	B C 22P
C231	B C 18E	C726	B C 15L	C2304	A D 16C	CN3102	A D 1N			R559	B C 8J	R987	B C 21D	R3062	B C 4G	PC016	B C 2B
C232	B C 19E	C727	B C 15L	C2305	A D 16D	CN3103	A D 5P	TRANSISTOR	R560	B C 8J	R990	B C 17I	R3063	B C 3G	TP3901	B C 5G	
C233	B C 18E	C728	A D 15L	C2306	B C 16D	CN3104	A D 3A	Q207	B C 17G	R601	B C 9N	R991	B C 17H	R3066	B C 3G	TP3902	B C 5G
C234	A D 18E	C729	A D 15M	C2601	B C 14D	CN3901	A D 1M	Q208	B C 16F	R602	B C 9N	R992	B C 18I	R3069	B C 3F	TP3903	B C 4G
C235	B C 19E	C730	B C 15M	C2602	B C 13D	CN5402	A D 16P	Q231	B C 18E	R603	B C 9N	R993	B C 16I	R3071	B C 3F	TP3904	B C 3F
C236	B C 19E	C731	B C 15M	C2603	A D 11E	CN5403	A D 14E	Q232	B C 18E	R604	B C 10N	R994	B C 15I	R3072	B C 2F	TP3905	B C 3G
C237	B C 19E	C732	B C 15M	C2604	A D 10D	CN5404	A D 12E	Q503	B C 12J	R605	B C 9N	R999	B C 19J	R3073	B C 2F	TP3906	B C 4H
C501	A D 9M	C733	B C 14M	C2605	A D 19D			Q505	B C 12J	R606	B C 10N	R2201	B C 12G	R3074	B C 2F	TP3907	B C 4G
C502	B C 9M	C734	A D 14M	C2606	A D 18D	DIODE	Q511	B C 8J	R607	B C 10N	R2202	B C 12F	R3075	B C 2F	TP3908	B C 4G	
C503	B C 8K	C735	B C 14M	C2607	A D 18C	D201	B C 17E	Q512	B C 8J	R608	B C 9N	R2203	B C 12F	R3076	B C 2E	TU6001	A D 21B
C504	B C 8K	C736	B C 14M	C2608	A D 18C	D202	B C 17E	Q601	B C 9N	R609	B C 10O	R2204	B C 14H	R3077	B C 2E	X231	A D 19E
C505	B C 8K	C737	B C 14M	C2609	A D 18C	D203	B C 17E	Q602	B C 9N	R610	B C 11O	R2205	B C 14H	R3078	B C 2E	X621	A D 10M
C506	B C 9K	C738	B C 13M	C2610	A D 17D	D501	B C 8K	Q603	B C 10N	R612	B C 10N	R2206	B C 13H	R3079	B C 2E	X701	A D 12N
C507	B C 9K	C739	B C 13M	C2611	A D 18D	D502	B C 8K	Q701	B C 15M	R620	B C 9N	R2207	B C 13H	R3080	B C 2E	X3001	A D 4G
C508	B C 9K	C740	B C 13M	C2651	A D 14G	D631	A D 11O	Q703	B C 15M	R621	B C 11N	R2208	B C 12H	R3081	B C 2E	X3002	A D 3F
C509	B C 9K	C741	B C 12M	C2652	A D 14G	D701	B C 12L	Q705	B C 13N	R622	B C 10M	R2209	B C 12H	R3086	B C 2D	X6701	A D 10A
C510	B C 9K	C743	B C 13M	C2653	A D 15G	D702	B C 12L	Q706	B C 12N	R623	B C 11M	R2210	B C 11H	R3087	B C 2D		
C511	B C 9K	C745	A D 13M	C2654	B C 14G	D901	A D 21H	Q711	B C 12K	R624	B C 11L	R2301	B C 17D	R3089	B C 2D		
C512	B C 9K	C746	B C 13L	C3007	B C 5D	D902	A D 19G	Q712	B C 11L	R625	B C 11L	R2302	B C 17D	R3091	B C 3D		
C513	B C 10K	C747	B C 16M	C3010	A D 3O	D903	A D 21M	Q901	B C 18K	R626	B C 11M	R2303	B C 15D	R3092	B C 3D		
C514	B C 9K	C748	B C 15M	C3011	A D 2P	D904	A D 17G	Q902	B C 18L	R627	B C 11M	R2304	B C 16D	R3093	B C 3D		
C515	B C 9L	C749	B C 16M	C3014	A D 5D	D2601	A D 10D	Q903	B C 18L	R628	B C 12M	R2305	B C 17C	R3094	B C 3D		
C516	B C 10K	C750	B C 14M	C3015	B C 5D	D3002	A D 6M	Q904	B C 19H	R629	B C 12M	R2306	B C 17C	R3095	B C 3D		
C517	B C 9L	C751	B C 16N	C3016	B C 5F	D3003	A D 6M	Q907	B C 19H	R630	B C 12M	R2307	B C 16C	R3096	B C 3D		
C518	B C 9L	C755	B C 16M	C3017	B C 5H	D3004	A D 3J	Q908	B C 19H	R631	B C 12M	R2308	B C 16C	R3097	B C 3D		
C519	B C 9L	C756	B C 13M	C3018	B C 5H	D3005	A D 3J	Q909	B C 19G	R635	B C 12N	R2309	B C 16C	R3201	B C 7H		
C520	B C 9K	C765	A D 16M	C3019	B C 5G	D3007	B C 6F	Q912	B C 20H	R636	B C 11N	R2310	B C 15C	R3202	B C 6M		
C521	A D 9L	C767	B C 13M	C3020	B C 5H	D3008	B C 6F	Q913	B C 21N	R637	B C 11N	R2311	B C 16C	R3203	B C 6M		
C522	B C 9M	C768	B C 12N	C3021	B C 5H	D3010	A D 3O	Q914	B C 17L	R638	B C 12N	R2312	B C 16C	R3204	B C 6N		
C523	A D 9M	C769	B C 12N	C3022	B C 2G	D5401	A D 14E	Q915	B C 16L	R701	B C 13L	R2601	B C 15D	R3205	B C 6L		
C524	B C 9M	C771	B C 13N	C3024	B C 4G	D5402	A D 17O	Q932	B C 16H	R703	B C 13L	R2602	B C 15D	R3206	B C 3P		
C525	B C 9M	C772	A D 13N	C3025	A D 3G	D5403	A D 16P	Q933	B C 16J	R704	B C 12L	R2603	B C 14D	R3207	B C 3P		
C526	B C 8M	C773	B C 12K	C3026	B C 3G	D5404	A D 13E	Q936	B C 16I	R706	B C 12K	R2604	B C 14D	R3218	B C 6D		
C527	B C 8M	C774	B C 11L	C3027	A D 3G	D6002	A D 19B	Q941	B C 19M	R707	B C 13K	R2605	B C 14C	R3223	B C 2F		
C528	A D 8M	C775	B C 11L	C3028	B C 3H	D6701	A D 12B	Q942	B C 20N	R709	B C 13K	R2606	B C 14D	R3224	B C 2F		
C529	A D 7M	C776	B C 11L	C3029	B C 3H			Q943	B C 20N	R710	B C 15L	R2607	B C 13D	R3225	B C 2E		
C530	B C 7M	C777	B C 12K	C3030	A D 3G	IC	Q944	B C 20M	R711		B C 15M	R2608	B C 13D	R3226	B C 2E		
C531	B C 7M	C778	B C 11K	C3031	B C 3G	IC201	A D 19F	Q2201	B C 12H	R712	B C 15M	R2609	B C 11G	R3229	B C 3F		
C532	B C 7M	C857	B C 20P	C3032	B C 3E	IC501	B C 8L	Q2202	B C 12H	R717	B C 16N	R2610	B C 11G	R3230	B C 3F		
C533	B C 7M	C858	A D 20P	C3033	B C 4D	IC502	B C 9J	Q2203	B C 11H	R718	B C 15M	R2611	B C 11G	R3231	B C 3F		
C534	A D 7L	C859	B C 21P	C3034	B C 2E	IC601	B C 10M	Q2204	B C 11H	R719	B C 15M	R2612	B C 10G	R3233	B C 6E		
C535	B C 7L	C901	A D 20G	C3035	B C 2E	IC621	A D 10M	Q2601	B C 11E	R721	B C 14N	R2613	B C 10G	R3234	B C 6E		
C536	B C 7L	C902	B C 21F	C3036	B C 3F	IC631	B C 11N	Q2602	B C 10D	R726	B C 16N	R2614	B C 10F	R3239	B C 4H		
C537	B C 7L	C903	B C 21F	C3037	B C 3F	IC701	B C 14L	Q2603	B C 9D	R727	B C 15N	R2615	B C 9F	R3240	B C 4H		
C538	B C 7L	C904	B C 20E	C3038	A D 4D	IC702	B C 11K	Q2604	B C 9D	R728	B C 15N	R2616	B C 9F	R3244	B C 5H		
C539	B C 7L	C905	B C 21E	C3039	B C 4D	IC901	B C 18I	Q2605	B C 9D	R729	B C 13M	R2621	B C 9E	R3246	B C 4J		
C540	B C 7K	C906	B C 21F	C3041	B C 4G	IC902	B C 19M	Q3004	B C 6M	R731	B C 11L	R2622	B C 9D	R3247	B C 5J		
C541	B C 7K	C907	B C 21E	C3042	A D 3I	IC903	B C 18H	Q3007	B C 6F	R732	B C 11L	R2623	B C 9D	R3248	B C 4J		
C543	B C 8K	C908	B C 21F	C3049	B C 6E	IC2201	B C 12G	Q3009	B C 6F	R742	B C 13N	R2624	B C 11E	R3249	B C 5I		
C544	B C 8K	C909	B C 21E	C3050	B C 3F	IC2202	B C 13G	Q3010	B C 8B	R743	B C 13M	R2625	B C 11D	R3250	B C 5I		
C545	A D 7K	C910	B C 21D	C3051	B C 6F	IC2301	A D 17C	Q3011	B C 5J	R744	B C 12N	R2627	B C 11E	R3255	B C 4H		
C546	B C 8K	C911	B C 20E	C3054	B C 3F	IC2801	B C 14D	Q3012	B C 5J	R745	B C 12M	R2628	B C 11D	R3256	B C 4H		
C547	B C 13J	C912	B C 20F	C3055	B C 21O	IC2802	B C 11G	Q3013	B C 5J	R746	B C 12N	R2629	B C 11D	R3257	B C 4G		
C548	B C 12J	C913	B C 20F	C3301	B C 8B	IC2803	B C 10G	Q3014	B C 4J	R747	B C 12N	R2630	B C 10D	R3258	B C 4G		
C549	B C 12J	C914	A D 20M	C3302	B C 8A	IC2804	B C 9G	Q3901	B C 2F	R748	B C 12N	R2631	B C 10D	R3259	B C 4G		
C550	B C 11I	C915	A D 20M	C3303	B C 8A	IC2805	B C 9E	Q5401	B C 13E	R751	B C 12K	R2632	B C 9D	R3313	B C 8B		
C551	B C 7L	C916	A D 20L	C5401	A D 14E	IC2806	B C 10E	Q5402	B C 14E	R752	B C 12K	R2633	B C 19C	R3314	B C 8C		
C552	B C 7L	C917	A D 20K	C5402	A D 13E	IC2807	A D 19D	Q5403	B C 13E	R753	B C 12K	R2634	B C 18C	R3315	B C 8B		
C555	B C 13J	C918	B C 21K	C5403	B C 13F	IC3001	B C 4E	Q6001	A D 20C								

JACK, OPERATION/JACK, DISPLAY/SWITCH AND REAR JACK CIRCUIT BOARDS

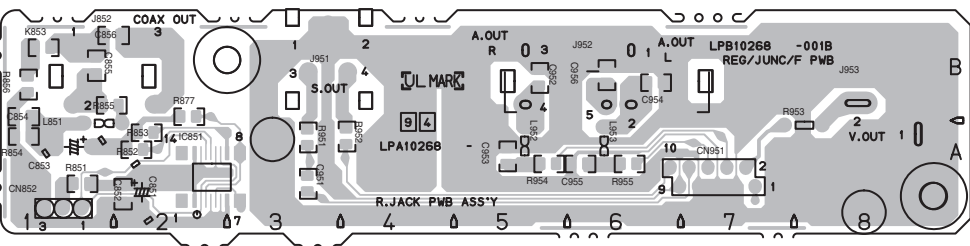
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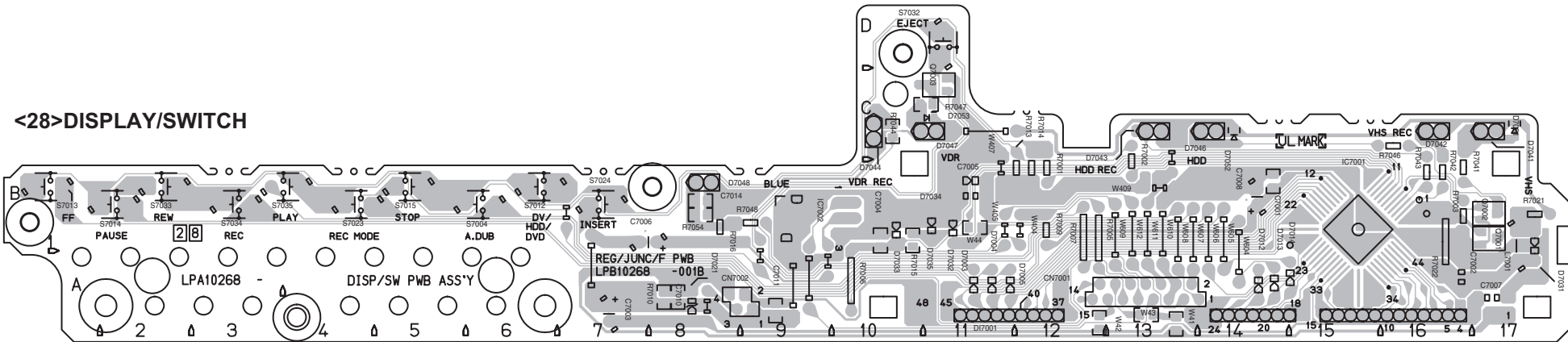
COMPONENT PARTS LOCATION GUIDE <OPERATION/JACK>

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CAPACITOR						D7046	A	D	14A	L7201	A	D	6A	R7002	A	D	13A	R7207	B	C	8B	S7211	A	D	2A											
C7013	A	D	2B	CONNECTOR			D7047	A	D	11A	L7202	A	D	6B	R7013	A	D	12A	R7211	B	C	2A	S7212	A	D	9B										
C7201	B	C	7A				D7051	B	C	17A	L7203	A	D	5B	R7014	A	D	12A	R7212	B	C	8B	S7214	A	D	3A										
C7202	B	C	6B				D7052	B	C	14A	L7204	A	D	5A	R7044	B	C	10A	R7214	B	C	3B	S7215	A	D	9D										
C7203	B	C	6B				DIODE			D7053	B	C	11A	TRANSISTOR			R7045	B	C	2B	R7215	B	C	9C												
C7204	B	C	5B	D7041	A	D				17A	D7202	A	D				7A	Q7003			B	C	11A	OTHER												
C7205	B	C	5B	D7042	A	D				16A	D7203	A	D				7A				R7053							B	C	2B	J7201	A	D	6B		
C7206	B	C	8B	D7043	A	D				13A	D7204	A	D				9B											R7202			A	D	7B	J7204	A	D
C7211	B	C	9C	D7044	A	D	10A	COIL			RESISTOR			R7001	A	D	12A										R7206				B	C	8A	S7032	A	D
C7212	B	C	2B	D7045	A	D	1B																													

COMPONENT PARTS LOCATION GUIDE <REAR JACK>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C955	B C 6A	J852	A D 1B	R854	B C 1A
C851	A D 2A	C956	B C 6B	J951	A D 3B	R855	B C 2B
C852	B C 2A	CONNECTOR	CN951 A D 7A	J952	A D 6B	R856	B C 1B
C853	A D 1A			J953	A D 8B	R877	B C 2B
C854	B C 1B			K853	B C 1B	R951	B C 3A
C855	B C 1B			L851	A D 1A	R952	B C 4A
C856	B C 2B			L952	A D 5A	R953	A D 8A
C951	B C 3A			L953	A D 6A	R954	B C 5A
C952	B C 5B	IC851	B C 2A	R851	B C 1A	R955	B C 6A
C953	B C 5A	OTHER		R852	B C 2A		
C954	B C 6B			R853	B C 2A		

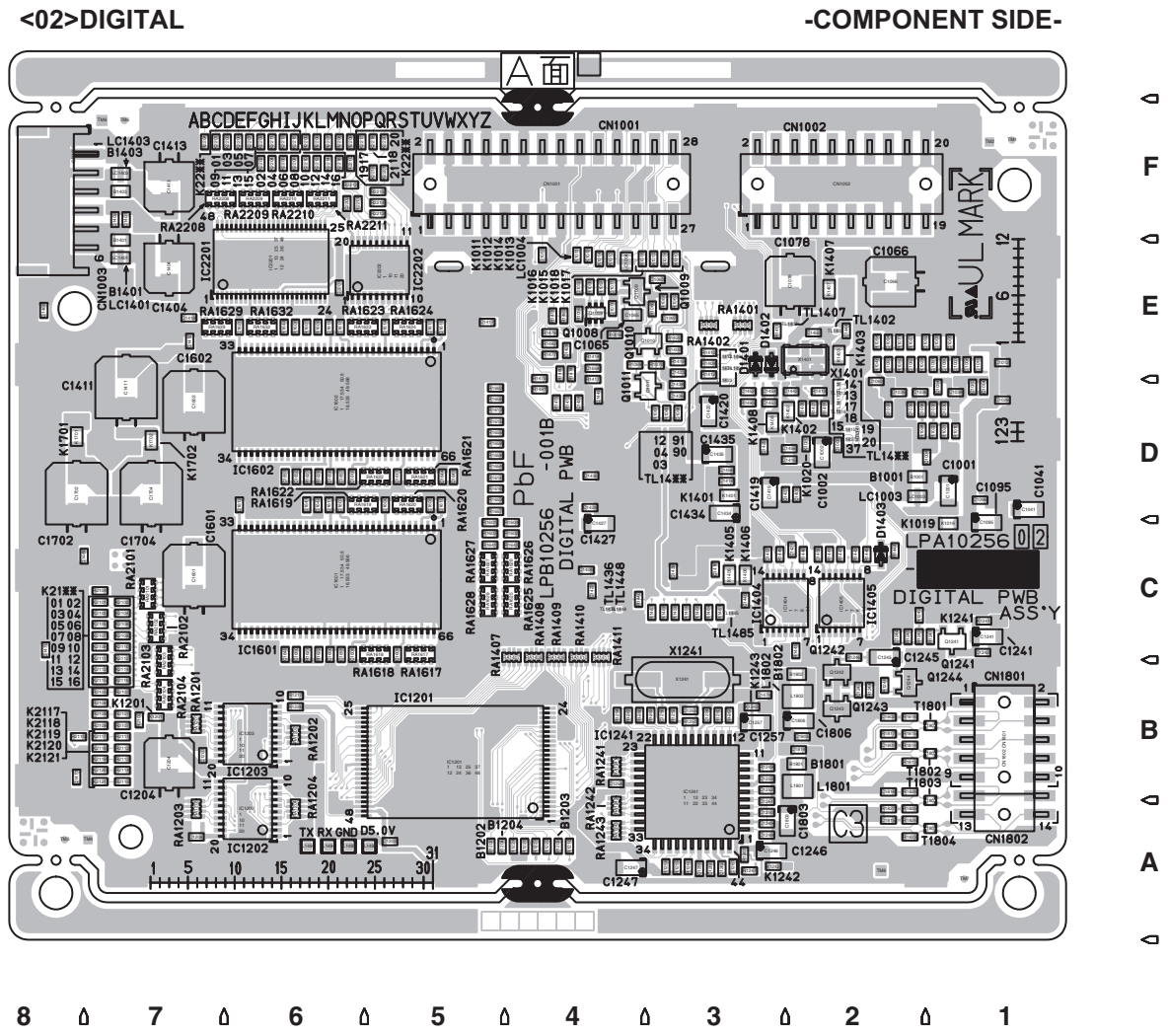
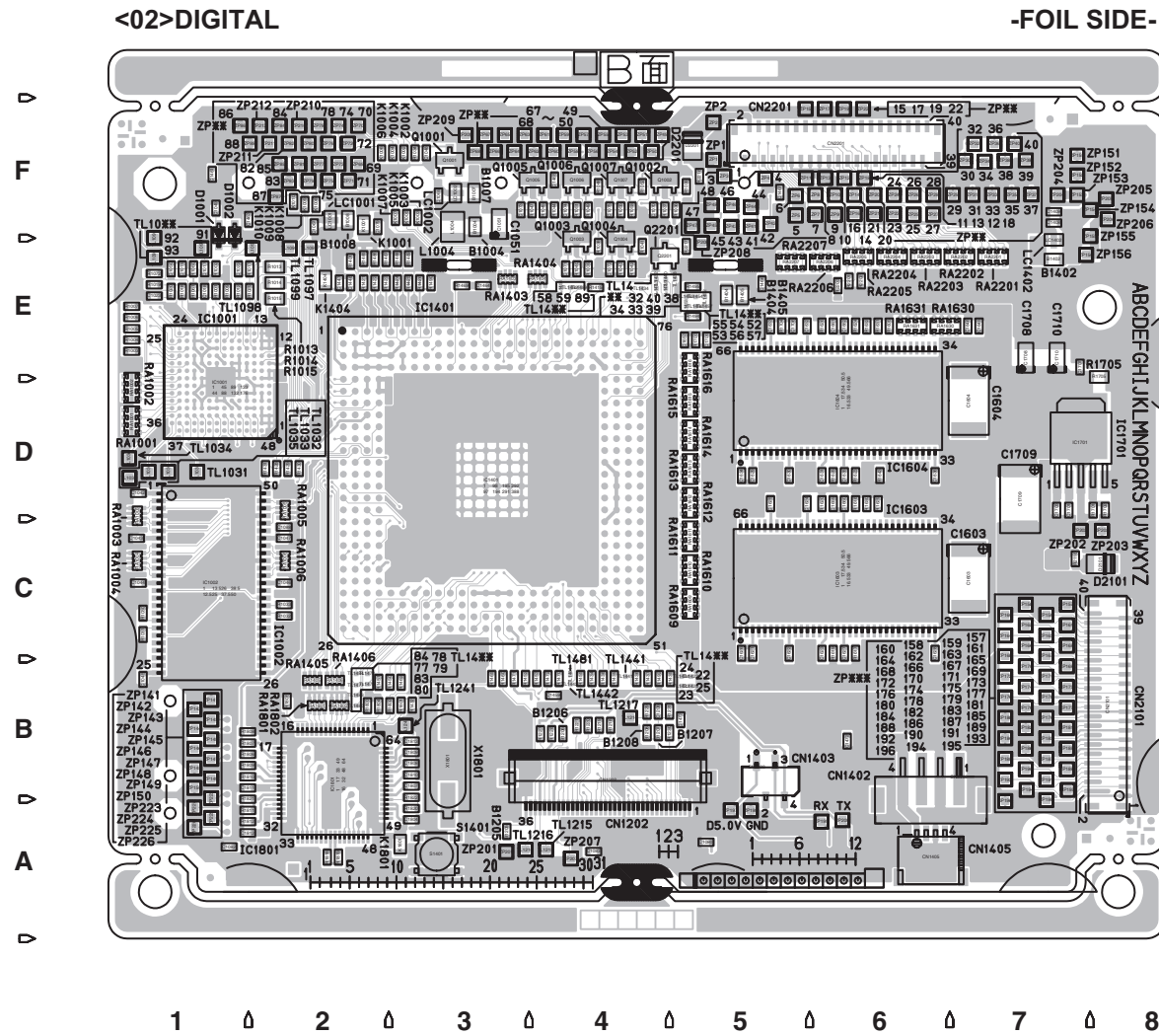
<28>DISPLAY/SWITCH



COMPONENT PARTS LOCATION GUIDE <DISPLAY/SWITCH>

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CAPACITOR				D7021	A D 8A	D7048	A D 8B	Q7001	B C 17A	R7013	A D 12B	R7048	A D 9B
C7001	B C 14B	CONNECTOR		D7031	A D 17B	D7051	B C 17C	Q7002	B C 17B	R7014	A D 12B	R7053	B C 2D
C7002	A D 16A	CN7001	A D 14A	D7032	A D 11B	D7052	B C 14C	Q7003	B C 11C	R7015	B C 10A	R7054	B C 8B
C7003	A D 7A	CN7002	A D 9A	D7033	A D 10B	D7053	B C 11C			R7016	A D 8B		
C7004	B C 10A	CN7201	A D 9E	D7034	A D 11B			RESISTOR		R7021	A D 17B	OTHER	
C7005	A D 11B			D7035	A D 11B	IC		R7001	A D 12B	R7022	A D 16B	DI7001	A D 14A
C7006	A D 8A	DIODE		D7041	A D 17C	IC7001	B C 15B	R7002	A D 13B	R7041	A D 16B	S7004	A D 6B
C7007	A D 17A	D7003	A D 11A	D7042	A D 16C	IC7002	A D 9B	R7003	A D 16B	R7042	A D 16B	S7012	A D 6B
C7008	A D 14B	D7004	A D 11A	D7043	A D 13C			R7005	A D 12B	R7043	A D 16B	S7013	A D 1B
C7010	B C 8A	D7005	A D 11A	D7044	A D 10C	COIL		R7006	A D 10A	R7044	B C 10C	S7014	A D 2B
C7011	B C 9A	D7012	A D 14A	D7045	A D 1D	L7001	A D 17A	R7007	A D 12B	R7045	B C 2D	S7015	A D 5B
C7013	A D 2D	D7013	A D 14A	D7046	A D 14C			R7009	A D 12B	R7046	A D 16B	S7023	A D 4B
C7014	B C 8B	D7014	A D 15A	D7047	A D 11C	TRANSISTOR		R7010	B C 8A	R7047	B C 11C	S7024	A D 7B

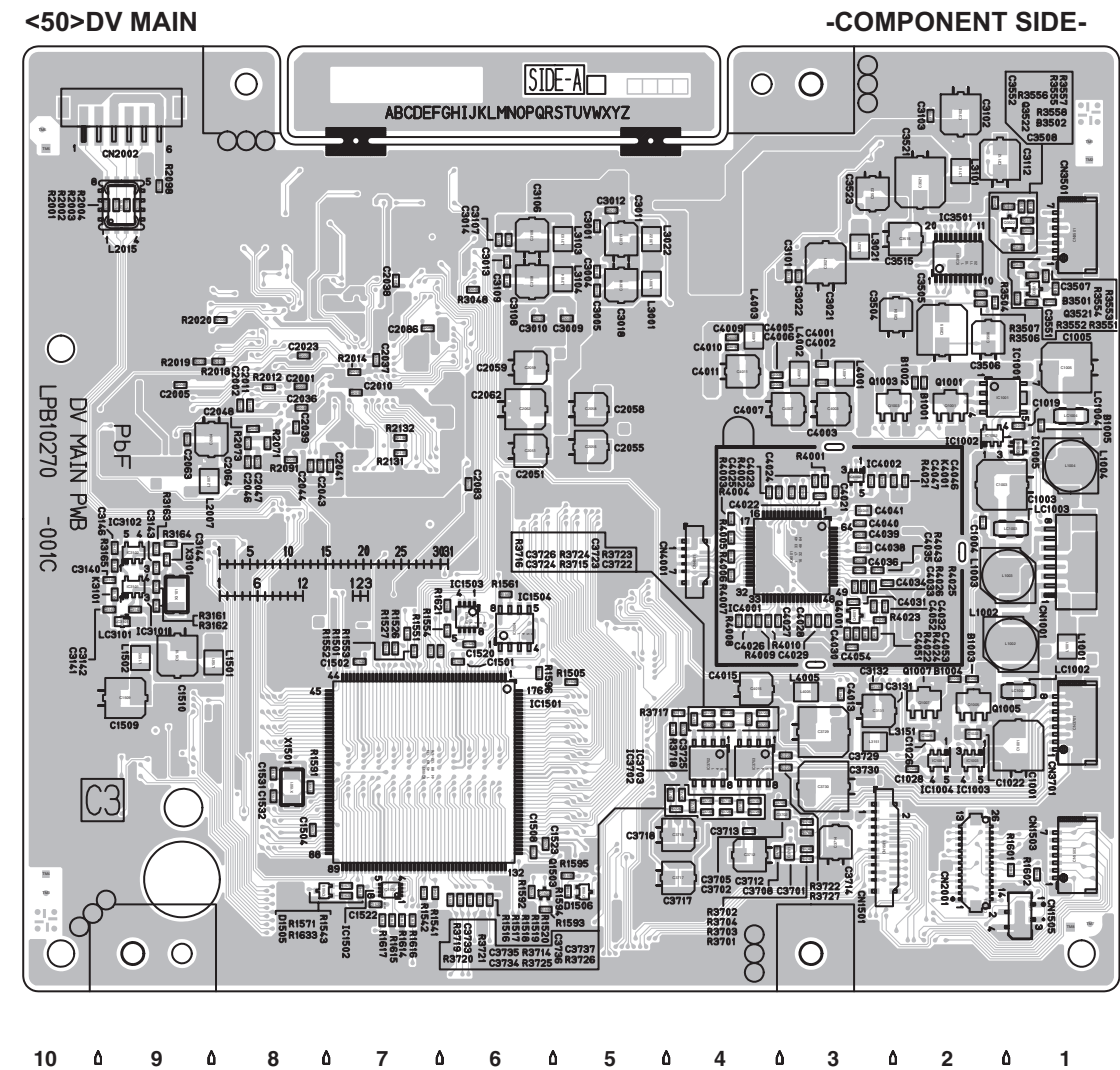
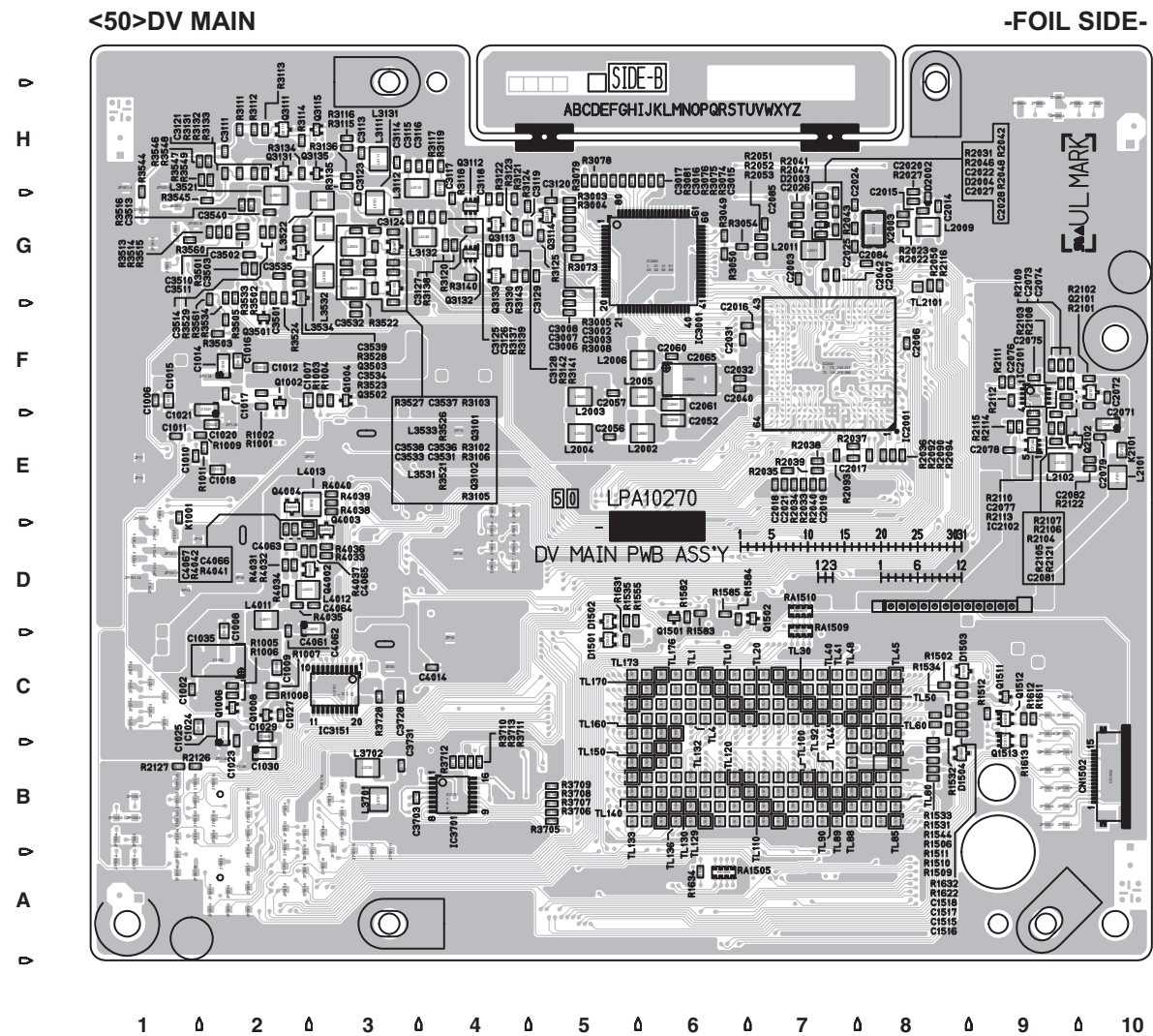
DIGITAL CIRCUIT BOARD



COMPONENT PARTS LOCATION GUIDE <DIGITAL>

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CAPACITOR		C1053	A C 4E	C1243	A C 2B	C1423	A C 3E	C1473	B C 5B	C1642	A C 6D	C1811	B C 1B	IC1404	A C 3C	R1005	B C 1E	R1050	A C 2E
C1001	A C 1D	C1058	A C 2D	C1244	A C 2C	C1424	A C 3D	C1474	A C 3B	C1643	A C 5D	C1812	B C 4F	IC1405	A C 2C	R1006	B C 1F	R1051	B C 4F
C1002	A C 2D	C1060	A C 2E	C1245	A C 2C	C1425	A C 3D	C1475	A C 3C	C1644	A C 5D	C1813	B C 3B	IC1406	A C 6C	R1007	B C 1E	R1052	B C 4F
C1003	A C 2D	C1062	A C 2D	C1246	A C 3A	C1426	A C 3D	C1476	A C 4C	C1645	B C 7E	C1814	A C 2B	IC1407	A C 6D	R1008	B C 1E	R1053	B C 4F
C1004	A C 1D	C1063	A C 3E	C1247	A C 4A	C1428	A C 4E	C1478	A C 4E	C1646	B C 7E	C1815	A C 2A	IC1408	B C 6C	R1009	A C 1D	R1054	A C 2E
C1005	A C 1E	C1065	A C 4E	C1248	A C 3A	C1429	A C 4D	C1479	A C 4D	C1649	B C 7D	C1816	A C 2B	IC1409	B C 6D	R1010	A C 1D	R1055	B C 4F
C1007	A C 1E	C1066	A C 2E	C1249	A C 3A	C1430	A C 4D	C1480	A C 5D	C1650	A C 6C	C2201	A C 6E	IC1410	B C 7D	R1011	B C 2E	R1056	A C 4E
C1008	A C 1E	C1067	B C 2F	C1250	A C 3A	C1434	A C 3D	C1484	A C 5D	C1651	A C 6D	C2202	A C 6F	IC1411	B C 7D	R1012	B C 2E	R1057	A C 4E
C1009	A C 1E	C1069	B C 3F	C1251	A C 3A	C1435	A C 3D	C1485	A C 6D	C1652	A C 6D	IC2201	A C 6E	IC1412	A C 6E	R1013	B C 2E	R1058	A C 4E
C1012	A C 1E	C1070	B C 4F	C1252	A C 3B	C1436	A C 3D	C1486	A C 6C	C1653	B C 5E	CONNECTOR		IC2202	A C 5E	R1014	B C 2E	R1059	A C 4E
C1014	A C 1D	C1071	B C 4E	C1253	A C 3B	C1437	A C 3D	C1487	A C 5C	C1654	A C 4E	CN1001	A C 4F	IC2203	A C 5E	R1015	B C 1E	R1060	B C 1E
C1015	A C 1E	C1072	B C 4E	C1254	A C 3B	C1438	A C 3D	C1488	A C 5D	C1655	A C 4E	CN1002	A C 2F	IC2204	A C 5E	R1016	B C 1E	R1061	B C 1E
C1017	B C 1E	C1073	B C 3F	C1255	A C 3B	C1439	A C 3D	C1489	A C 6C	C1656	A C 4E	CN1003	A C 8F	IC2205	A C 5E	R1017	B C 1E	R1062	B C 1E
C1018	B C 1E	C1074	B C 4F	C1256	A C 3B	C1442	A C 2D	C1492	A C 6D	C1657	A C 4E	CN1004	B C 4B	IC2206	A C 5E	R1018	B C 1E	R1063	B C 1E
C1019	B C 1E	C1075	B C 4E	C1257	A C 3B	C1444	A C 2E	C1494	A C 6D	C1658	A C 4E	CN1005	B C 7B	IC2207	A C 5E	R1019	B C 1E	R1064	B C 1E
C1020	A C 1D	C1076	A C 4E	C1258	A C 4B	C1445	A C 3C	C1495	A C 6D	C1659	B C 5E	CN1006	B C 5B	IC2208	A C 5E	R1020	B C 1E	R1065	A C 3D
C1022	B C 1E	C1077	A C 4E	C1259	A C 3A	C1446	A C 2E	C1496	A C 6E	C1660	B C 6D	CN1007	B C 6A	IC2209	A C 5E	R1021	B C 1E	R1066	A C 3D
C1023	B C 1E	C1078	A C 4E	C1260	A C 3A	C1447	A C 2E	C1497	A C 6E	C1661	B C 6D	CN1008	A C 1B	IC2210	A C 5E	R1022	B C 1E	R1067	A C 3D
C1026	A C 1D	C1079	B C 2F	C1261	A C 3A	C1448	A C 2E	C1498	A C 6E	C1662	B C 6D	CN1009	A C 1B	IC2211	A C 5E	R1023	B C 1E	R1068	A C 3D
C1030	A C 1D	C1080	B C 5A	C1262	A C 3A	C1450	A C 2E	C1499	A C 6E	C1663	B C 6D	CN1010	A C 8B	IC2212	A C 5E	R1024	B C 1E	R1069	A C 3D
C1032	A C 1D	C1082	B C 1A	C1401	A C 7F	C1452	A C 3D	C1501	A C 6E	C1664	B C 6D	CN1011	A C 6F	IC2213	A C 5E	R1025	B C 1E	R1070	A C 3D
C1033	A C 2D	C1083	B C 4A	C1402	A C 7F	C1453	A C 3D	C1502	A C 6E	C1665	B C 6D	CN1012	A C 6F	IC2214	A C 5E	R1026	B C 1E	R1071	A C 3D
C1034	A C 1D	C1088	B C 2C	C1404	A C 7E	C1454	A C 3D	C1503	A C 6E	C1666	B C 6D	CN1013	A C 6F	IC2215	A C 5E	R1027	B C 1E	R1072	A C 3D
C1035	A C 2D	C1090	A C 1E	C1405	A C 7D	C1455	A C 3D	C1504	A C 6E	C1667	B C 6D	CN1014	A C 6F	IC2216	A C 5E	R1028	B C 1E	R1073	A C 3D
C1036	A C 2D	C1091	A C 1E	C1406	A C 4E	C1456	A C 3D	C1505	A C 6E	C1668	B C 6D	CN1015	A C 6F	IC2217	A C 5E	R1029	B C 1E	R1074	A C 3D
C1038	A C 1D	C1092	A C 2E	C1408	B C 7F	C1457	A C 3D	C1506	A C 6E	C1669	B C 6D	CN1016	A C 6F	IC2218	A C 5E	R1030	B C 1E	R1075	A C 3D
C1039	A C 2D	C1093	A C 2E	C1409	B C 7D	C1458	A C 3D	C1507	A C 6E	C1670	B C 6D	CN1017	A C 6F	IC2219	A C 5E	R1031	B C 1E	R1076	A C 3D
C1041	A C 1D	C1094	A C 2E	C1411	A C 7F	C1459	A C 3D	C1508	A C 6E	C1671	B C 6D	CN1018	A C 6F	IC2220	A C 5E	R1032	B C 1E	R1077	A C 3D
C1042	B C 1C	C1095	A C 1D	C1412	A C 7E	C1461	B C 1F	C1509	A C 6E	C1672	B C 6D	CN1019	A C 6F	IC2221	A C 5E	R1033	B C 1E	R1078	A C 3D
C1043	B C 1C	C1096	A C 1D	C1413	A C 7E	C1463	B C 1F	C1510	A C 6E	C1673	B C 6D	CN1020	A C 6F	IC2222	A C 5E	R1034	B C 1E	R1079	A C 3D
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C1045	B C 1B	C1098	A C 3D	C1415	A C 3D	C1465	B C 1F	C1512	A C 6E	C1675	B C 6D	CN1022	A C 6F	IC2224	A C 5E	R1036	B C 1E	R1081	A C 3D
C1046	B C 2C	C1203	A C 5A	C1416	A C 3D	C1466	B C 1F	C1513	A C 6E	C1676	B C 6D	CN1023	A C 6F	IC2225	A C 5E	R1037	B C 1E	R1082	A C 3D
C1047	B C 2C	C1204	A C 5B	C1417	A C 3E	C1467	B C 1F	C1514	A C 6E	C1677	B C 6D	CN1024	A C 6F	IC2226	A C 5E	R1038	B C 1E	R1083	A C 3D
C1048	B C 3F	C1206	A C 7A	C1418	A C 7E	C1468	B C 1F	C1515	A C 6E	C1678	B C 6D	CN1025	A C 6F	IC2227	A C 5E	R1039	B C 1E	R1084	A C 3D
C1049	B C 1F	C1207	A C 7B	C1419	A C 3D	C1469	B C 1F	C1516	A C 6E	C1679	B C 6D	CN1026	A C 6F	IC2228	A C 5E	R1040	B C 1E	R1085	A C 3D
C1050	B C 1E	C1208	B C 4B	C1420	A C 3D	C1470	A C 8C	C1517	A C 6E	C1680	B C 6D	CN1027	A C 6F	IC2229	A C 5E	R1041	B C 1E	R1086	A C 3D
C1051	B C 3F	C1241	A C 1C	C1421	A C 2C	C1471	A C 8C	C1518	A C 6E	C1681	B C 6D	CN1028	A C 6F	IC2230	A C 5E	R1042	B C 1E	R1087	A C 3D
C1052	A C 4E	C1242	A C 1C	C1422	A C 4C	C1472	B C 6B	C1519	A C 6E	C1682	B C 6D	CN1029	A C 6F	IC2231	A C 5E	R1043	B C 1E	R1088	A C 3D

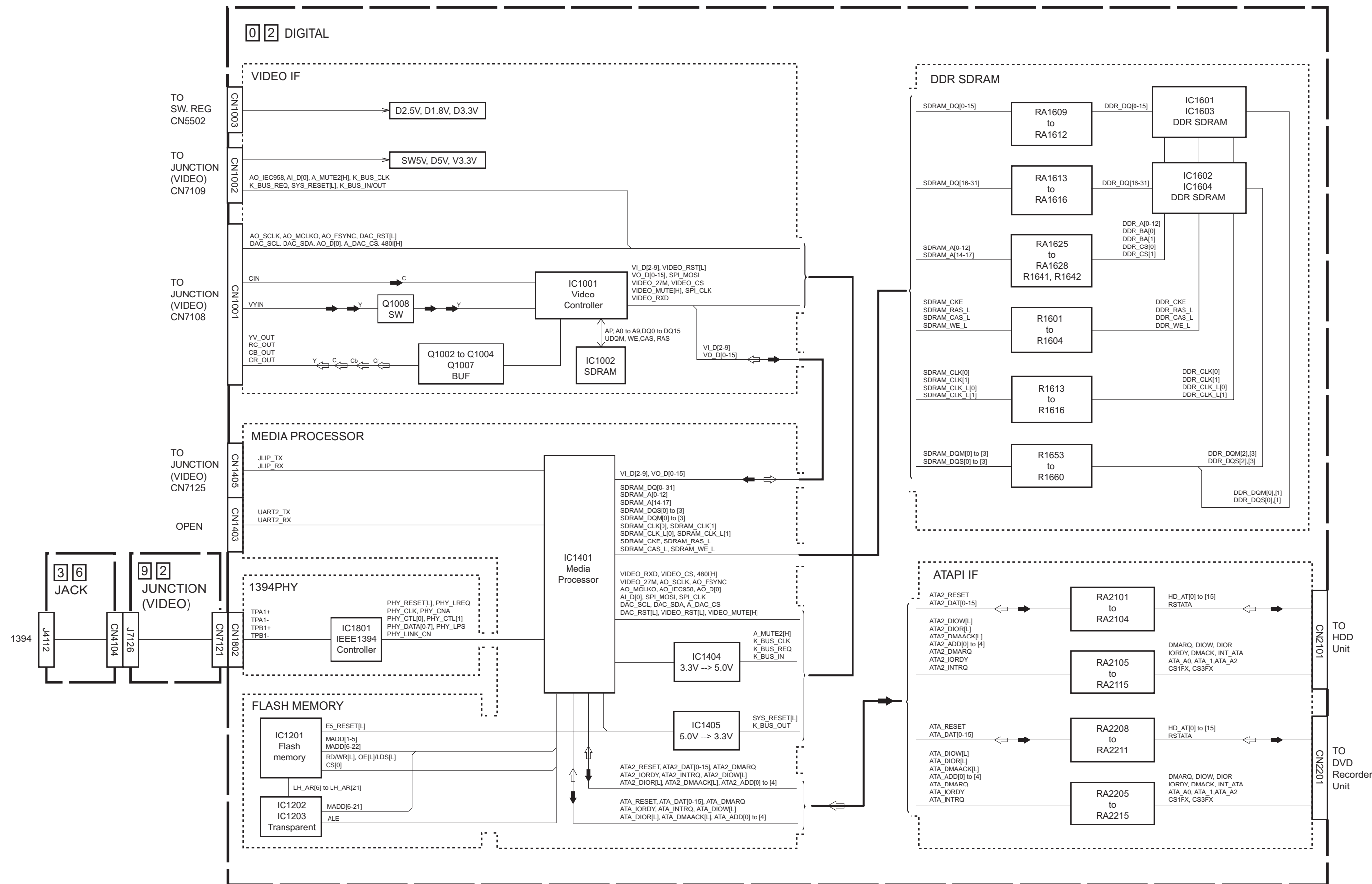
■ DV MAIN CIRCUIT BOARD



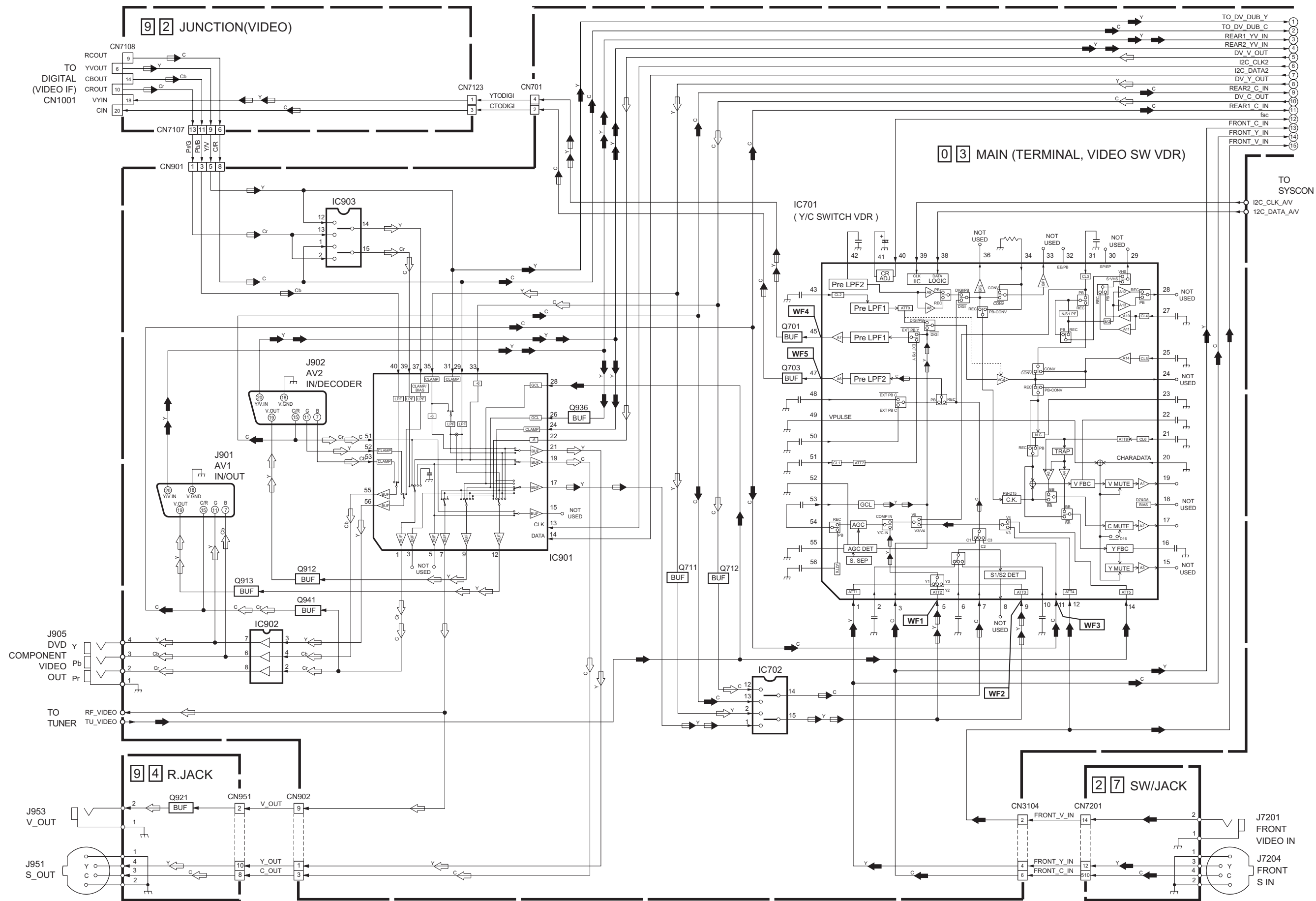
COMPONENT PARTS LOCATION GUIDE <DV MAIN>

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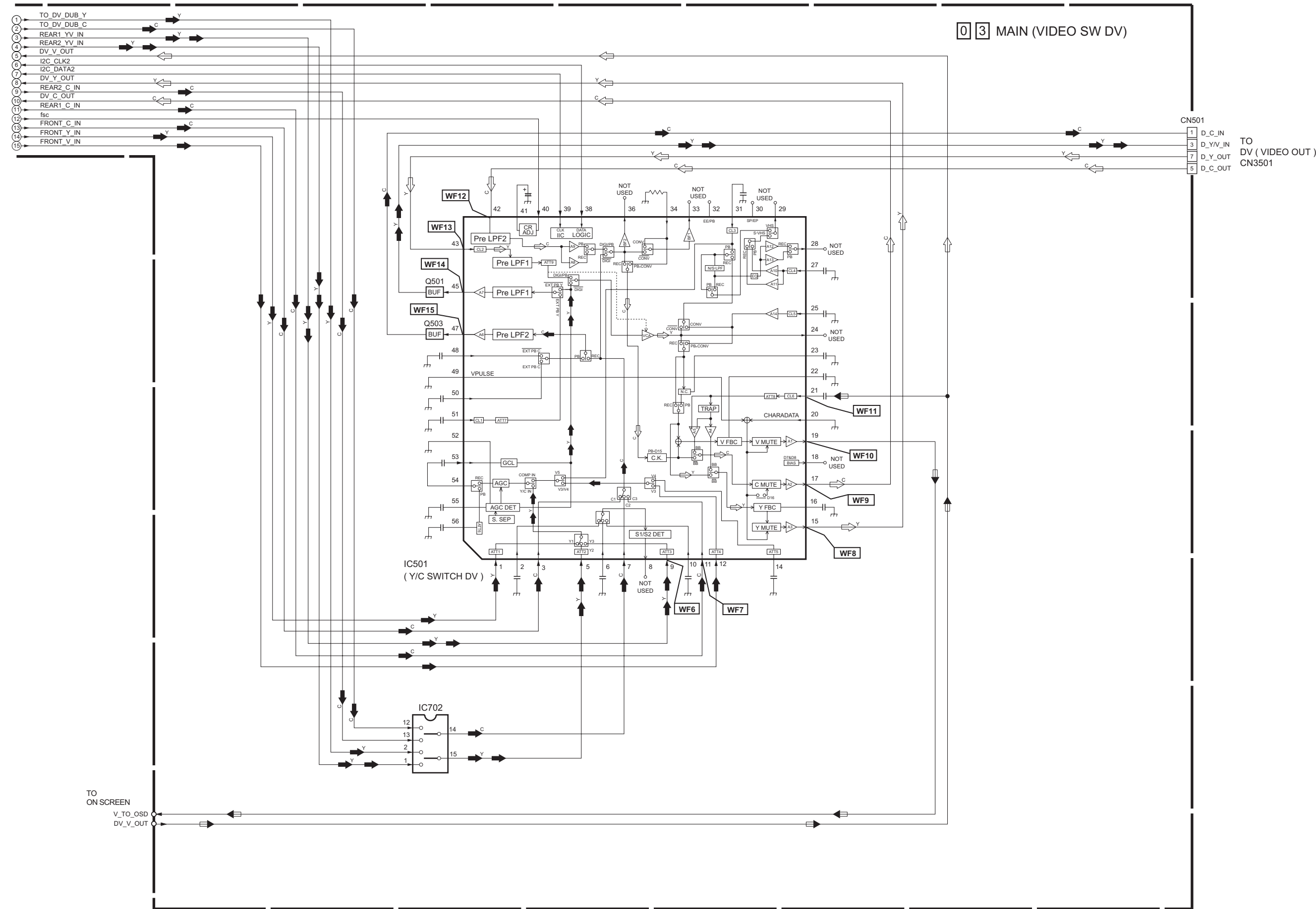
DIGITAL BLOCK DIAGRAM



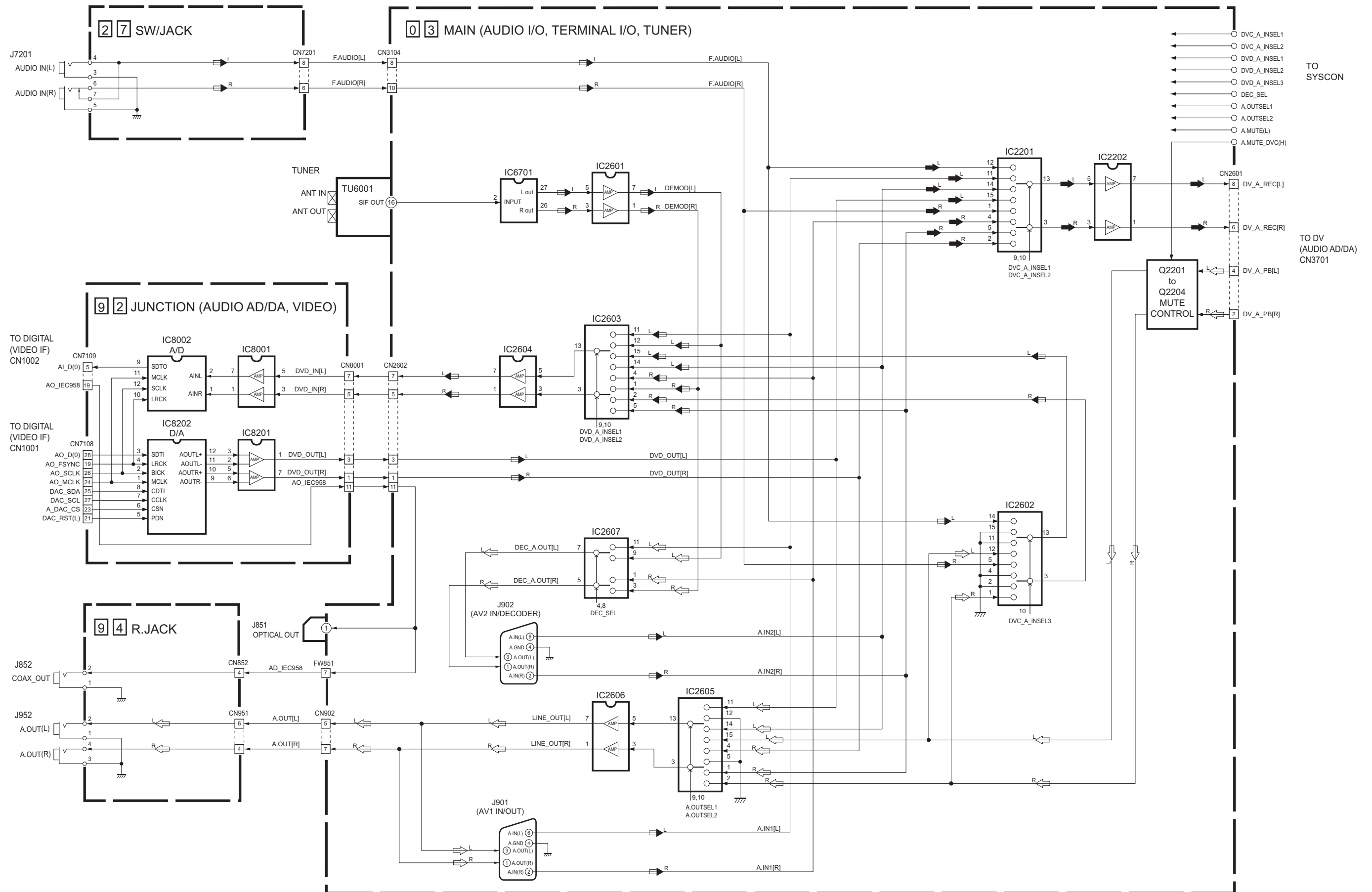
■ VIDEO BLOCK DIAGRAM (1)



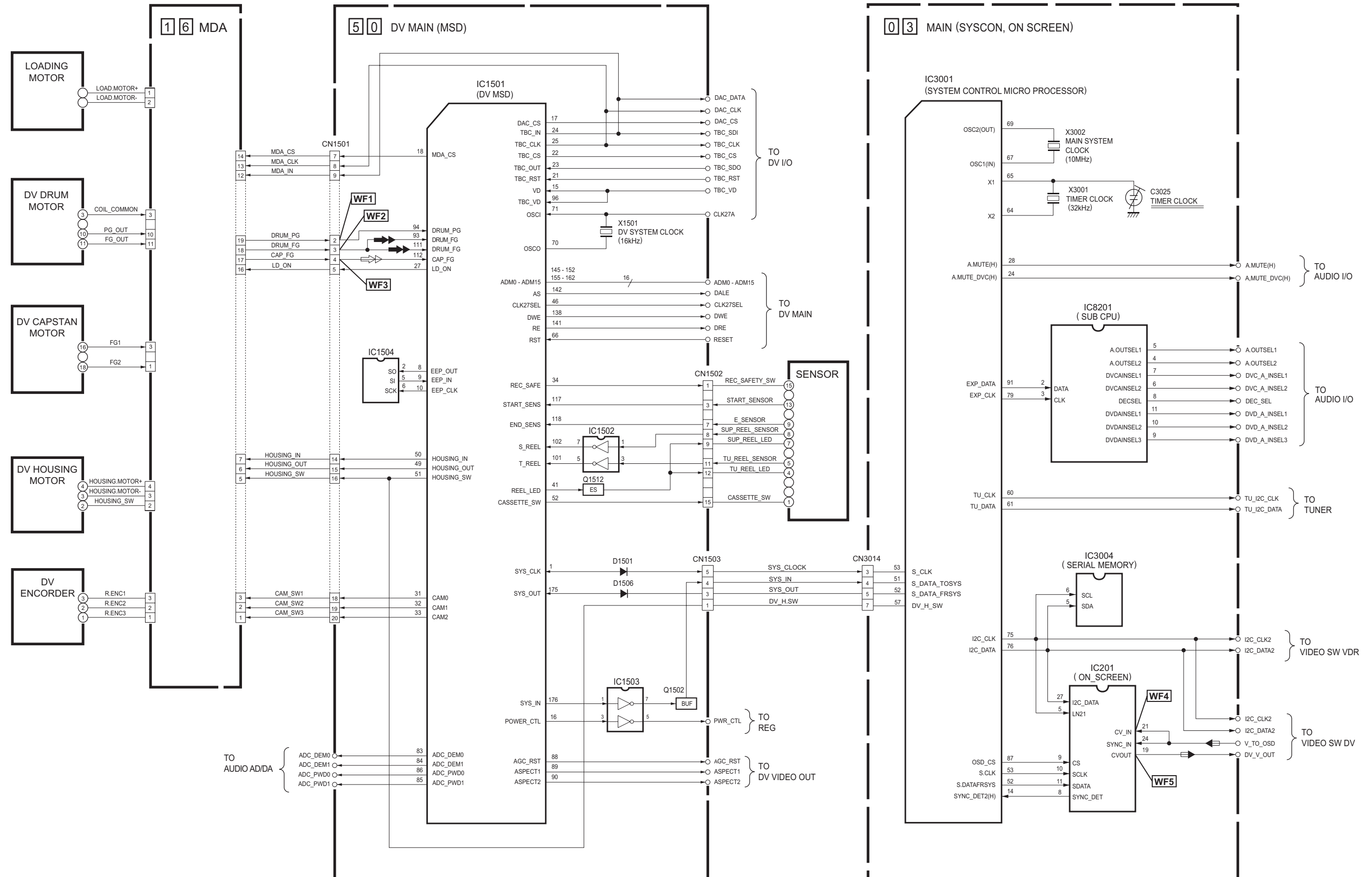
VIDEO BLOCK DIAGRAM (2)



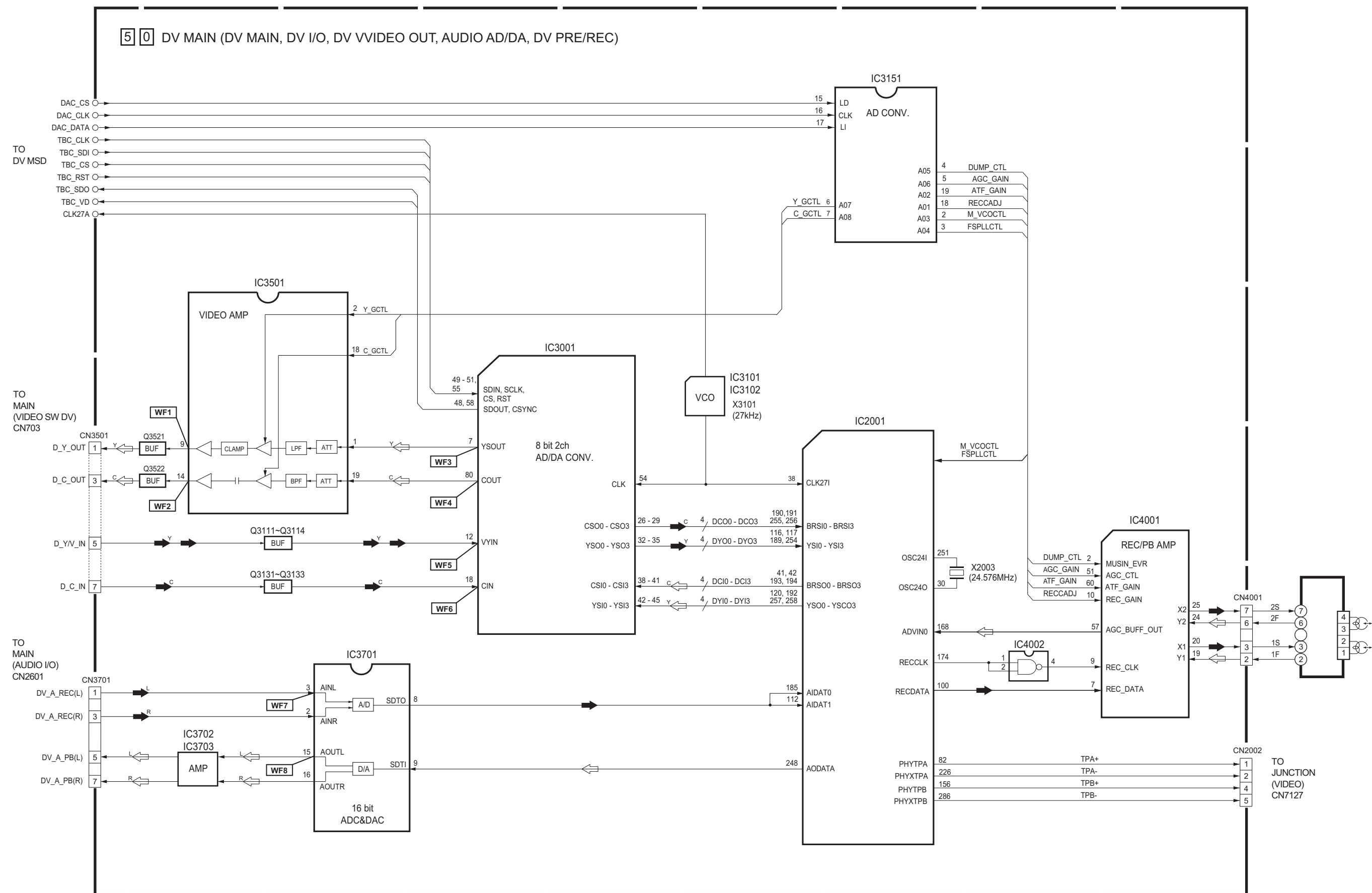
AUDIO BLOCK DIAGRAM



SYSTEM CONTROL BLOCK DIAGRAM



■ VIDEO (DV) BLOCK DIAGRAM



CPU PIN FUNCTION

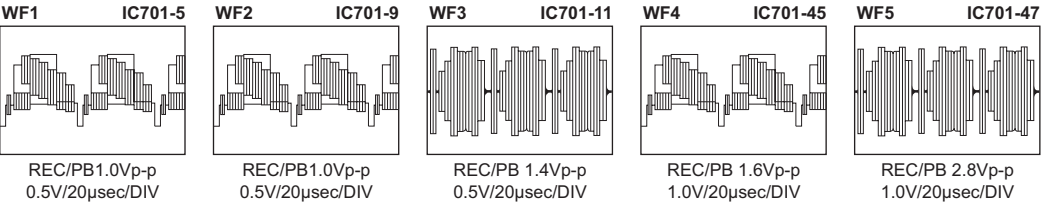
<SYSCON IC3001>

PIN NO.	LABEL	IN/OUT	FUNCTION
1	TO_VSS	-	GND
2	SVss	-	GND
3	OPEN	-	NOT CONNECTED
4	TO_VSS	-	GND
5	OPEN	-	NOT CONNECTED
6	OPEN	-	NOT CONNECTED
7	C+VSS	-	NOT USED
8	TO_VSS	-	GND
9	SVcc	-	SYSTEM POWER
10	Avcc	-	SYSTEM POWER
11	SYNC_DET_VDR[L]	IN	DETECTION OF VIDEO SYNC SIGNAL FOR DVD (DETECTED : H)
12		-	GND
13		-	GND
14	SYNC_DET2[H]	IN	DETECTION OF VIDEO SYNC SIGNAL FOR DVC (DETECTED : H)
15	SYNC_DET1[H]	IN	DETECTION OF VIDEO SYNC SIGNAL FOR HDD (DETECTED : H)
16		-	GND
17	TEST	-	NOT USED
18	SCR_ID	IN	SCRAMBLE CONTROL INPUT (SCRAMBLE:H)
19	KEY1IN	IN	OPERATION CONTROL SIGNAL
20	AFC	IN	TUNING CHECK
21	RF_AGC	IN	CHANGES IN ATS+IC OUTPUT AS CAUSED BY CHANGES IN RECEIVER SENSITIVITY WHEN THE SAME CHANNEL IS RECEIVED MORE THAN ONCE ARE INPUT
22	KEY2IN	IN	OPERATION CONTROL SIGNAL
23	Avss	-	GND
24	A.MUTE_DVC[H]	OUT	AUDIO MUTE CONTROL FOR DVC(MUTE:H)
25	SW2	OUT	TV RF SYSTEM SELECT
26		-	NOT CONNECTED
27	SW1	OUT	TV RF SYSTEM SELECT
28	A.MUTE[L]	OUT	AUDIO MUTE CONTROL(MUTE ON : L)
29	RC	IN	REMOTE CONTROL DATA INPUT
30		-	NOT CONNECTED
31	P50_IN	IN	CONTROL SIGNAL FOR TV LINK
32	COMPU_IN	IN	AV COMPULINK INPUT
33	COMP_OUT	OUT	AV COMPULINK OUTPUT
34	P50_OUT	OUT	CONTROL SIGNAL FOR TV LINK
35	P.CTL[H]	OUT	CONTROL SIGNAL FOR SWITCHING POWER SUPPLY
36	FAN_CTL[H]	OUT	FAN MOTOR ON/OFF CONTROL
37	P.MUTE_VDR[L]	OUT	PICTURE MUTE CONTROL FOR DVD (MUTE : H)
38	MSD_CS	OUT	CHIP SELECT OF DVC CPU
39	STB	OUT	STROBE SIGNAL
40	POWER_DET	IN	DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY
41	VDR_DUB[L]	OUT	DUBBING MODE FOR VDR : L
42	PROTECT	IN	DETECTION SIGNAL FOR SWITCHING POWERSUPPLY
43	Vss	-	GND
44	RMO	OUT	REMOTE CONTROL OUTPUT FOR SATELLITE RECEIVER
45	Vcc	-	SYSTEM POWER
46	K.BUS_IN	IN	SERIAL DATA TRANSFERMER INPUT FROM DVD CPU
47	K.BUS_OUT	OUT	SERIAL DATA TRANSFERMER OUTPUT TO DVD CPU
48	K.BUS_CLK	OUT	SERIAL DATA TRANSFERMER CLOCK FOR DVD CPU
49	12C_DATA_AV	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR A/V IC
50	12C_CLK_AV	OUT	SERIAL DATA TRANSFER CLOCK FOR A/V IC
51	S.DATA_TOSYS	OUT	SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO
52	S.DATA_FRSYS	OUT	SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO
53	S,CLK	OUT	SERIAL DATA TRANSFERMER CLOCK FOR ONSCREEN IC
54	K_BUS_REQ	OUT	SERIAL DATA TRANSFER REQUEST TO DVD CPU
55	MSD_READY	IN	PREPARATION OF COMMUNICATION OF DVC CPU
56		-	CONNECTED Vcc

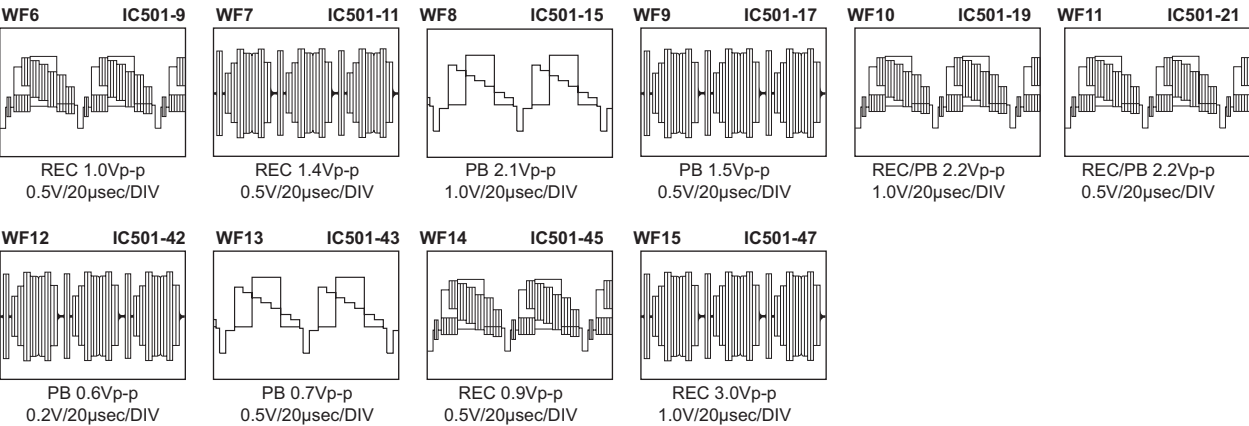
PIN NO.	LABEL	IN/OUT	FUNCTION
57	DV_H_SW	IN	DETECTION OF DVC CASSETTE
58		-	CONNECTED Vcc
59		-	CONNECTED Vcc
60	TU_CLK	OUT	SERIAL DATA TRANSFERMER CLOCK TO TUNER
61	TU_DATA	OUT	SERIAL DATA TRANSFERMER DATA TO TUNER
62	FWE	-	FLASH WRITE ENABLE
63	NMI	-	NOT USED
64	X2	-	TIMER CLOCK(32kHz)
65	X1	-	TIMER CLOCK(32kHz)
66	RES	OUT	RESET TERMINAL(RESET ON:L)
67	OSC1	IN	MAIN SYSTEM CLOCK(10MHz)
68	Vss	-	GND
69	OSC2	OUT	MAIN SYSTEM CLOCK(10MHz)
70	Vcl	-	SYSTEM POWER
71	MODE	-	NOT USED
72	RGB[H]	OUT	RGB MODE : H
73	TU_V.MUTE[H]	OUT	TUNER VIDEO SIGNAL MUTE : H
74	A.MUTE_VDR[H]	OUT	AUDIO MUTE CONTROL FOR DVD(MUTE:H)
75	12C_CLK2	OUT	SERIAL DATA TRANSFER CLOCK FOR MEMORY IC
76	12C_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC
77	SEPA_IN[H]	OUT	ADD THE DC BIAS TO COLOR SIGNAL
78	SECAM DET[H]	IN	SECAN MODE DETECT
79	EXP_CLK	OUT	SERIAL DATA TRANSFER CLOCK FOR EXPANDER IC (IC3301)
80	MSD_RESET[L]	OUT	RESET OUTPUT TO DVD CPU
81	E5_RESET[L]	OUT	RESET OUTPUT TO DVD CPU
82	Vcc	-	SYSTEM POWER
83		-	NOT CONNECTED
84	Vss	-	GND
85		-	NOT CONNECTED
86	P.ON_P	OUT	POWER ON/OFF PULSE OUTPUT
87	OSD_CS	OUT	CHIP SELECT FOR THE ONSCREEN IC
88		-	NOT CONNECTED
89	AV1_YC_IN[H]	OUT	Y/C SEPARATE INPUT MODE OF AV1 : H
90		-	NOT CONNECTED
91	EXP_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR EXPANDER IC (IC3301)
92	P.MUTE[L]	OUT	PICTURE MUTE CONTROL (MUTE ON : H)
93	AD_RST[L]	OUT	A/D CONVERTER RESET PULSE OUTPUT
94	DV_DUB[L]	OUT	DVC DUBBING MODE : L
95	P.MUTE_VDR[L]	OUT	PICTURE MUTE CONTROL FOR VDR (MUTE ON : L)
96	P.SAVE[L]	OUT	POWER SAVE MODE:H
97	HDD_P.SAVE	OUT	POWER SAVE FOR HDD
98		-	GND
99	OPEN	-	NOT CONNECTED
100	OPEN	-	NOT CONNECTED
101	OPEN	-	NOT CONNECTED
102	OPEN	-	NOT CONNECTED
103		-	NOT CONNECTED
104		-	NOT CONNECTED
105	TO_VSS	-	GND
106	TO_VSS	-	GND
107	TO_VSS	-	GND
108	TO_VSS	-	GND
109	Vcc	-	SYSTEM POWER
110		-	NOT CONNECTED
111	Vss	-	GND
112		-	NOT CONNECTED

WAVEFORMS

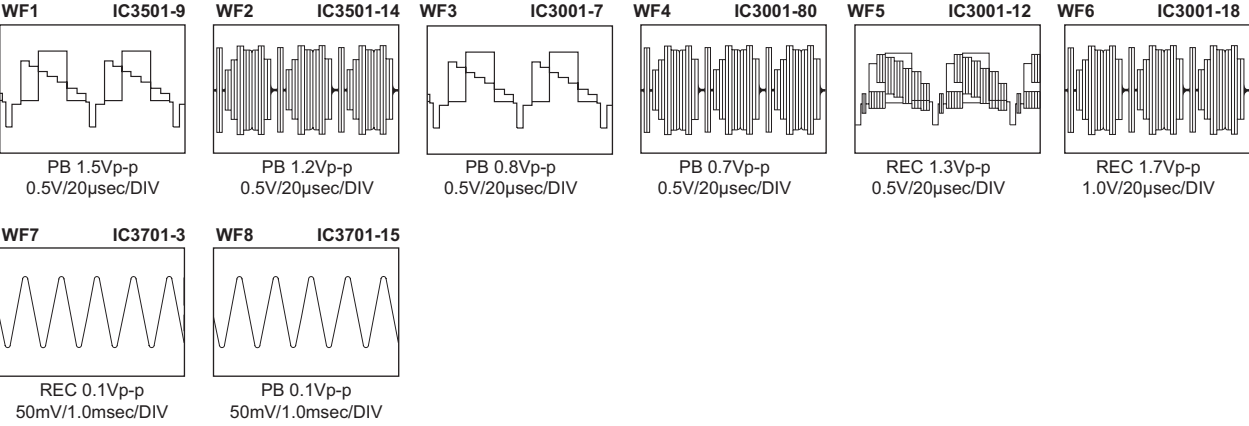
VIDEO BLOCK DIAGRAM(1)



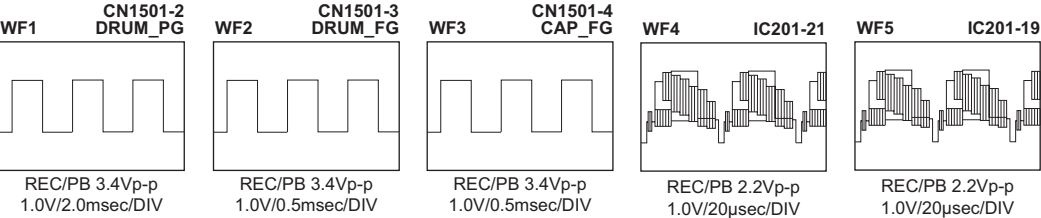
VIDEO BLOCK DIAGRAM(2)



VIDEO (DV) BLOCK DIAGRAM



SYSTEM CONTROL BLOCK DIAGRAM



SW.REGULATOR>>			<MAIN>		
MODE PIN NO.	REC	PLAY	MODE PIN NO.	REC	PLAY
IC5101			IC201		
1	132.3	132.6	1	0	0
2	0	0	2	2.6	2.6
3	0	0	3	5.0	5.0
4	16.9	16.9	4	0	0
5	2.0	2.1	5	4.5	4.5
IC5301			6	2.4	2.4
1	2.5	2.4	7	2.4	2.4
2	0	0	8	5.0	4.9
3	0	0	9	4.1	4.2
Q5303			10	4.2	4.2
E	22.5	22.4	11	3.4	3.4
C	0	22.4	12	5.0	4.9
B	0	0	13	2.1	2.1
Q5304			14	2.1	2.1
E	0	0	15	0	0
C	0	0	16	0.9	0.9
B	4.2	4.2	17	0	0
Q5305			18	5.0	5.0
E	11.4	11.4	19	2.4	2.4
C	12.3	12.2	20	0	0
B	12.1	12.1	21	2.3	2.4
Q5306			22	0.7	1.3
E	5.1	5.1	23	4.9	5.0
C	5.7	5.8	24	2.9	2.9
B	5.8	0	25	2.4	2.5
Q5307			26	4.9	4.9
E	11.0	10.9	27	4.4	4.4
C	10.9	11.0	28	3.5	3.5
B	10.3	10.3	29	4.9	4.9
Q5308			30	4.9	5.0
E	0	0	IC501		
C	0	0	1	2.3	2.8
B	4.6	4.6	2	0.1	0.1
Q5313			3	2.1	2.1
E	12.1	12.1	4	5.0	5.0
C	12.0	12.0	5	2.8	2.8
B	11.3	11.4	6	0.2	0.2
Q5314			7	2.1	2.1
E	5.5	0	8	0	0
C	5.5	5.5	9	2.7	2.8
B	4.8	4.8	10	0.1	0.1
Q5315			11	2.1	2.1
E	0	0	12	2.8	2.8
C	0.7	0.7	13	0	0
B	4.6	0	14	2.8	2.8
CN5301			15	2.3	2.3
1	5.1	5.1	16	2.7	2.7
2	11.3	11.4	17	2.3	2.4
3	32.9	33.2	18	0	0
4	54.8	54.8	19	2.3	2.4
5	4.6	4.6	20	0	0
6	-7.5	-7.4	21	3.5	3.3
7	0	0	22	2.7	2.7
8	0	0	23	3.0	3.0
9	5.0	5.0	24	3.3	3.4
10	5.8	5.8	25	2.8	2.8
11	4.2	0	26	4.9	5.0
12	0	0	27	2.8	2.8
13	0	0	28	2.4	2.4
14	5.8	5.8	29	2.5	0
15	0	0	30	0.2	0.6
16	0	0	31	2.7	2.7
17	0	0	32	0	0
18	0	0	33	2.8	2.8
19	0	0	34	0.4	0.4
CN5302			35	2.8	2.8
1	11.0	11.0	36	3.3	3.4
2	0	0	37	0	0
CN5303			38	4.4	4.4
1	12.0	12.0	39	4.5	4.5
2	0	0.1	40	2.8	2.8
3	0	0	41	2.7	2.7
4	5.5	5.5	42	2.8	2.8
CN5304			43	3.3	3.3
1	4.6	4.6	44	0	1.6
2	5.5	5.6	45	2.0	1.3
3	5.9	5.9	46	4.9	5.0
4	12.1	12.1	47	2.3	1.0
5	5.9	5.9	48	2.8	2.8
6	5.9	5.9	49	0	0
7	0	0	50	2.8	2.2
8	0	0	51	2.8	2.9
9	4.2	4.2	52	0	0
10	5.0	5.0	53	3.1	2.9
11	0	0	54	2.3	2.1
12	5.8	5.8	55	2.	

2-79 2-80

■ VOLTAGE CHARTS

[illegible]



Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY DIGITAL VIDEO STORAGE CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.YD085)



Printed in Japan
VPT

PARTS LIST

[DR-DX5SEK,DR-DX5SEL,DR-DX5SEU,
DR-DX5SEY,DR-DX5SEZ]

* SAFETY PRECAUTION

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

* BEWARE OF BOGUS PARTS

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

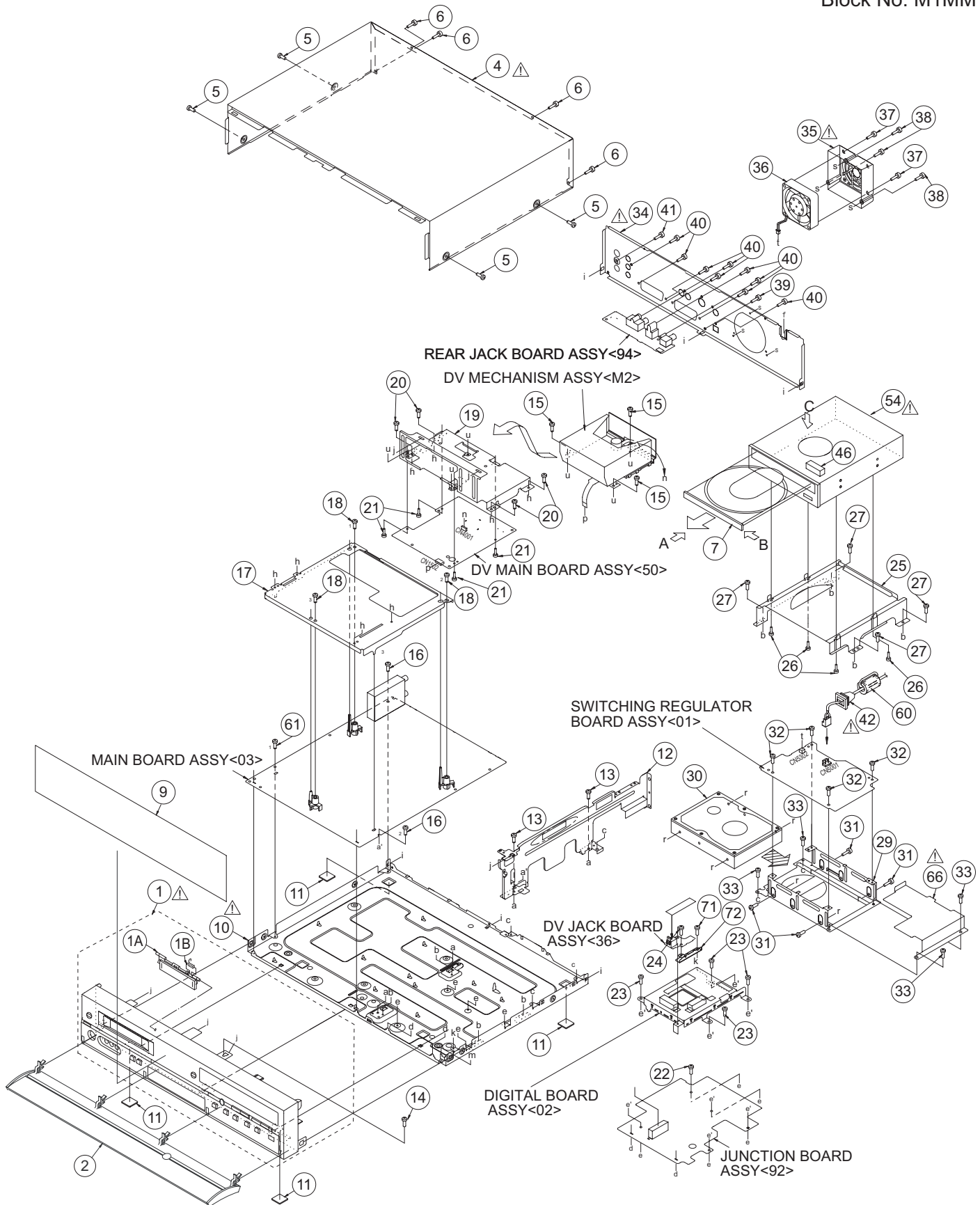
* (x_) in a description column shows the number of the used part.

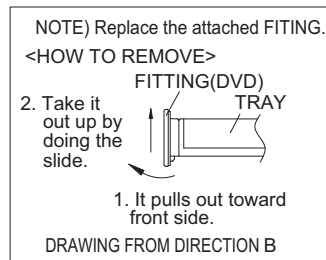
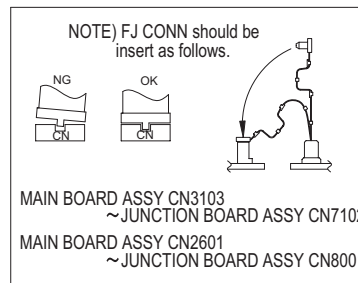
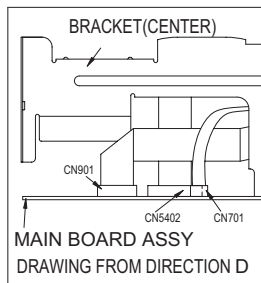
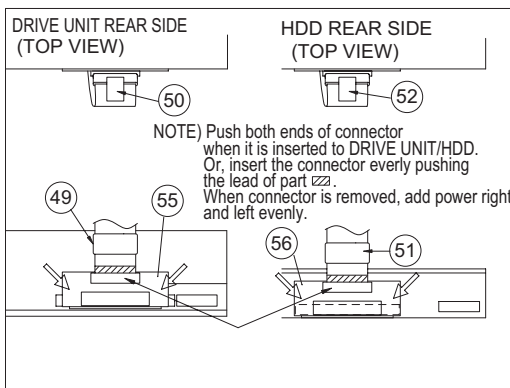
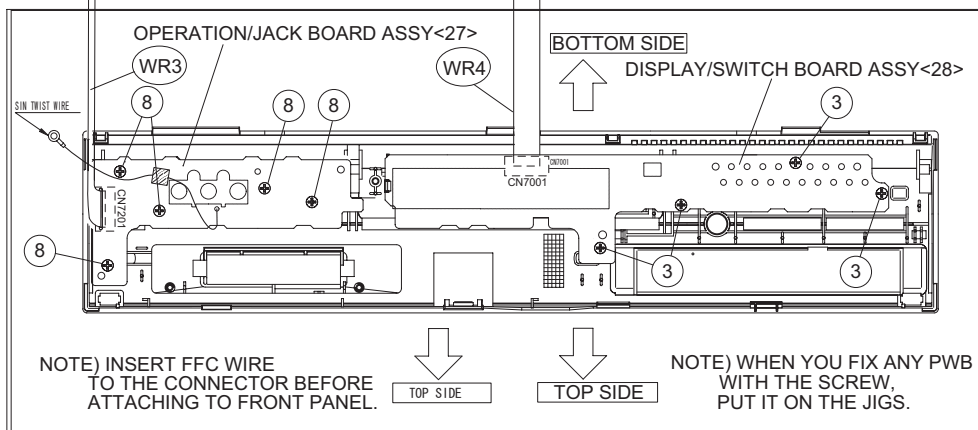
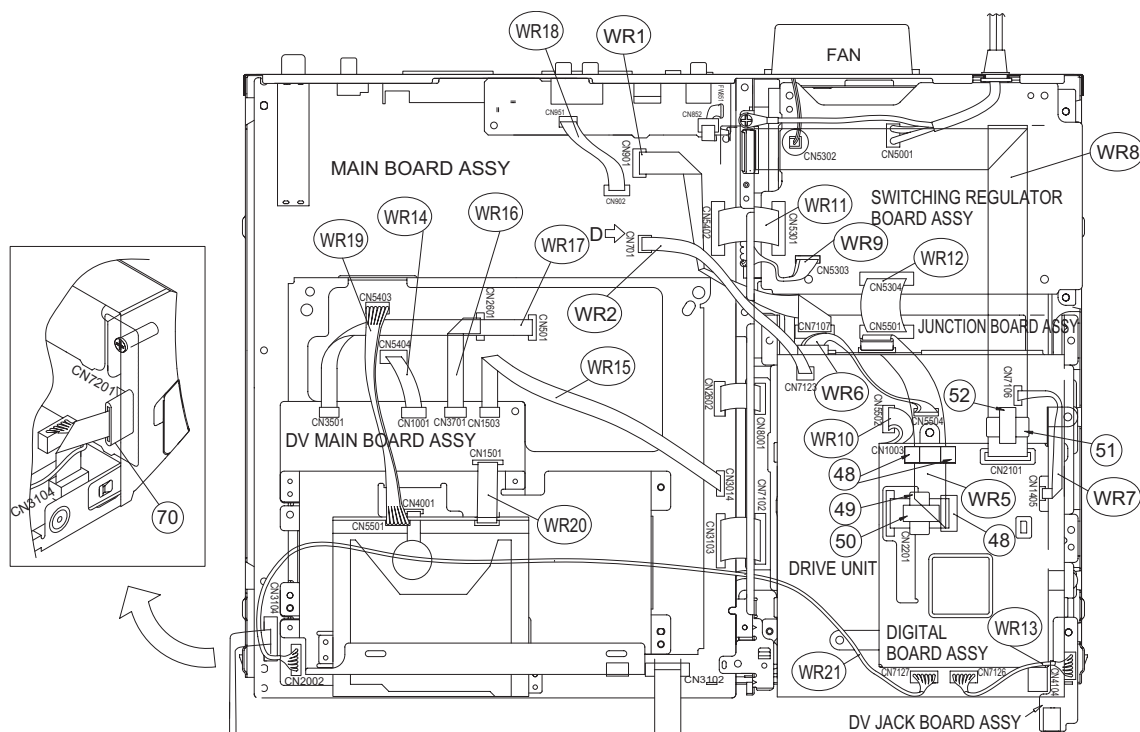
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Exploded view of general assembly and parts list

Block No. M1MM





General assembly

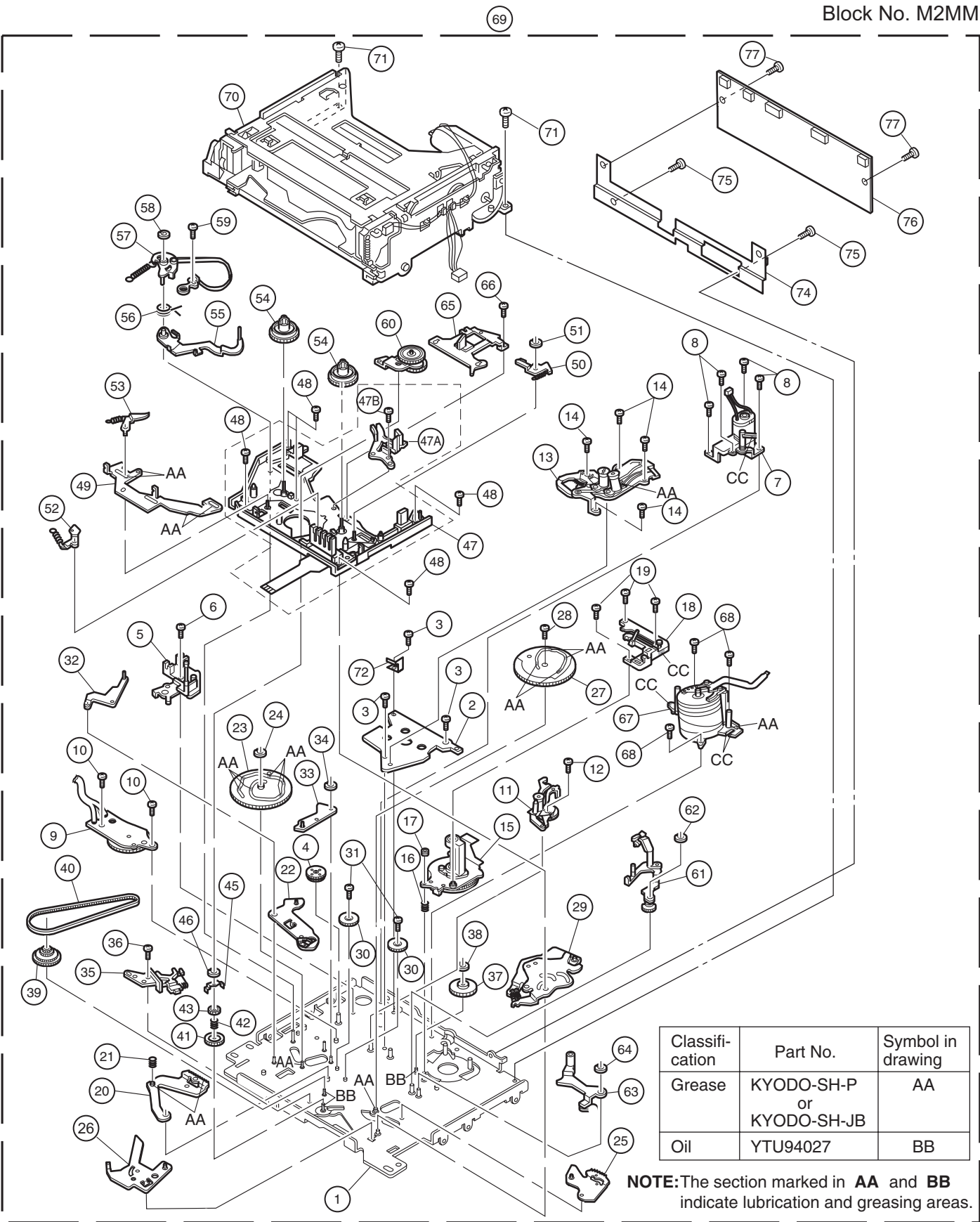
Block No. [M][1][M][M]

Symbol No.	Part No.	Part Name	Description	Local
△ 1	LP10555-008A	FRONT PANEL ASSY		
1A	LP30756-004A	CASSETTE DOOR(DV)		
1B	LP40688-001A	SPRING(DV)		
2	LP10557-014A	DOOR ASSY		EK
2	LP10557-013A	DOOR ASSY		EL,EU,EY,EZ
3	QYTD5F2608ZA	TAP SCREW	M2.6 x 8mm DISP/SW(x4)	
△ 4	LP10460-010A	TOP COVER		
5	QYSBSG3006NA	TAP SCREW	M3 x 6mm TOP SIDE(x4)	
6	QYSBSG3006NA	TAP SCREW	M3 x 6mm TOP REAR(x4)	
7	LP21348-001B	FITTING(DVD)		
8	QYTD5F2608ZA	TAP SCREW	M2.6 x 8mm JACK/SW(x5)	
9	QPH00704705	POLY SHEET	7cm x 47cm	
△ 10	LP10525-002B	BOTTOM CHASSIS		
11	LP31348-001A	FOOT	(x4)	
12	LP21294-001B	BRACKET(CENTER)		
13	LP31391-001A	SPECIAL SCREW	BRACKET(CENTER)(x2)	
14	LP31391-001A	SPECIAL SCREW	FRONT PANEL	
15	QYTDST2608ZA	TAP SCREW	M2.6 x 8mm DV MECHANISM(x3)	
16	LP31391-001A	SPECIAL SCREW	MAIN(x2)	
17	LP21345-001A	BRACKET(DV MAIN)		
18	LP31391-002A	SPECIAL SCREW	BRACKET(DV MAIN)(x3)	
19	LP21346-001A	BRACKET(DV SUB)		
20	QYTDST3006ZA	TAP SCREW	M3 x 6mm BRACKET(DV SUB)(x4)	
21	QYTDST2608ZA	TAP SCREW	M2.6 x 8mm DV MAIN(x4)	
22	LP31391-001A	SPECIAL SCREW	JUNCTION	
23	LP31391-001A	SPECIAL SCREW	SHIELD FRAME(DIGITAL)(x4)	
24	LP31391-001A	SPECIAL SCREW	DV JACK	
25	LP21299-001D	LOADER BRACKET		
26	QYTDST3006ZA	TAP SCREW	M3 x 6mm DRIVE UNIT(x4)	
27	LP31391-001A	SPECIAL SCREW	LOADER BRACKET(x4)	
29	LP21297-001B	BRACKET(HDD/SWITCHING REGULATOR)		
30	LP40278-005A	HDD	(SERVICE)	
31	LP40738-001B	SCREW	HDD(x4)	
32	LP31391-001A	SPECIAL SCREW	SWITCHING REGULATOR(x4)	
33	QYSPSG3006ZA	TAP SCREW	BKT(H/R)(x4)	
△ 34	LP21295-014A	REAR PANEL		
△ 35	LP21296-001B	COVER(FAN)		
36	QAR0349-001	COOLING FAN		
37	QYTD5F3010MA	TAP SCREW	M3 x 10mm FAN(x2)	
38	QYSBSG3006MA	TAP SCREW	M3 x 6mm COVER(FAN)(x3)	
39	QYSBSG3006NA	TAP SCREW	M3 x 6mm REAR PANEL	
40	QYTD5F3008MA	TAP SCREW	M3 x 8mm JACK COVER(x9)	
41	QYSBST3004MA	TAP SCREW	M3 x 5mm TUNER	
△ 42	QMPN330-170-K	POWER CORD	1.7m BLACK	EK
△ 42	QMPK340-170-JC	POWER CORD	1.7m BLACK	EL,EU,EY,EZ
46	LP41171-001A	SHIELD TIGHT	FOR DRIVE	
48	LP30002-0A9A	SPACER	FFC WIRE(x3)	
49	QQR1439-003	FERRITE CORE	DRIV ATAPI(x2)	
50	LP30002-0A9A	SPACER	FERRITE(x2)	
51	QQR1439-003	FERRITE CORE	HDD ATAPI(x2)	
52	LP30002-0A9A	SPACER	FERRITE(x2)	
△ 54	QAL0704-001	DRIVE UNIT		
55	QGZ0021A2-40	CONNECTOR	ATAPI CN	
56	QGZ0021A2-40	CONNECTOR	ATAPI CN	
60	QQR0918-001	CORE FILTER	AC CORD	
61	QYSBSGG3006ZA	TAP SCREW	M3 x 6mm MAIN	
△ 66	LP31465-001A	SHEET(HDD)		
70	QQR1439-003	FERRITE CORE	FRONT FFC	
71	LP31391-001A	SPECIAL SCREW	BKT(I-LNK)	
72	LP31413-001B	BKT(I-LINK PWB)		
WR 1	QUQ112-0918CG-E	FFC WIRE	JUNCTION CN7107-MAIN CN901	
WR 2	QUQ212-0416CG-E	FFC WIRE	JUNCTION CN7123-MAIN CN701	
WR 3	QUQ112-1510CG-E	FFC WIRE	OPERATON/JACK CN7201-MAIN CN3104	
WR 4	QUQ112-1510CG-E	FFC WIRE	DISPLAY/SWITCH CN7001-MAIN CN3102	
WR 5	QUQL05-4022BH-E	FFC WIRE	DRIVE UNIT-DIGITAL CN2201	
WR 6	QJJ032-041504-E	SIN CR C-C WIRE	DRIVE UNIT-JUNCTION CN5504	
WR 7	QUQ210-0408CC-E	FFC WIRE	DIGITAL CN1405-JUNCTION CN7106	
WR 8	QUQL05-4032AH-E	FFC WIRE	HDD-DIGITAL CN2101	
WR 9	QJJ032-041504-E	SIN CR C-C WIRE	HDD-SWITCHING REGULATOR CN5303	
WR10	QJJ015-060801-E	SIN CR C-C WIRE	DIGITAL CN1003-JUNCTION CN5502	
WR11	QUQ212-1512CG-E	FFC WIRE	SWITCHING REGULATOR CN5301-MAIN CN5402	
WR12	QUQ212-1912CG-E	FFC WIRE	SWITCHING REGULATOR CN5304-JUNCTION CN5501	
WR13	WJN0085-003A-E	E-SH C WIRE C-C	DV JACK CN4104-JUNCTION CN7126	
WR14	QUQ212-0807CG-E	FFC WIRE	DV MAIN CN1001-MAIN CN5404	
WR15	QUQ210-0720CC-E	FFC WIRE	DV MAIN CN1503-MAIN CN3014	
WR16	QUQ210-0808CC-E	FFC WIRE	DV MAIN CN3701-MAIN CN2601	
WR17	QUQ210-0717CC-E	FFC WIRE	DV MAIN CN3501-MAIN CN501	
WR18	QUQ112-0812CG-E	FFC WIRE	REAR JACK CN951-MAIN CN902	
WR19	QJA002-051800-E	SIN ID C-C WIRE	MDA-MAIN CN5403	

△ Symbol No.	Part No.	Part Name	Description	Local
WR20 WR21	QUQL05-2008AA-E WJN0085-004A-E	FFC WIRE E-SH C WIRE C-C	MDA-DV MAIN CN1501 JUNCTION CN7127-DV MAIN CN2002	

DV mechanism assembly and parts list

Block No. M2MM



DV mechanism

Block No. [M][2][M][M]

△ Symbol No.	Part No.	Part Name	Description	Local
1	PRD10428A	MAIN DECK ASSY		
2	LY30358-001B	DRUM BASE DECK		
3	YQ43893	MINI SCREW	(x3)	
4	LY30343-001A	WORM WHEEL 2		
5	LY40237-001C	ENT.GUIDE BASE ASSY		
6	YQ43893	MINI SCREW		
7	LY30341-001B	MOTOR BRACKET ASSY		
8	YQ43893	MINI SCREW	(x4)	
9	LY41190-003A	ROTARY ENCODER ASSY		
10	YQ43893	MINI SCREW	(x2)	
11	YQ31873D-33	GUIDE RAIL(SUPPLY)ASSY		
12	YQ43893	MINI SCREW		
13	LY20097-003B	GUIDE RAIL(TAKE UP) ASSY		
14	YQ43893	MINI SCREW	(x4)	
15	QAR0012-002	CAPSTAN MOTOR		
16	LY30002-003A	COMPRESSION SPRING		
17	LY41390-001B	ADJUST NUT		
18	LY30345-001A	MIDDLE CATCHER ASSY		
19	YQ43893	MINI SCREW	(x3)	
20	LY40223-001A	ARM GEAR 1 ASSY		
21	LY40224-001A	COLLAR		
22	LY40235-002B	CENTERRING ARM ASSY		
23	LY10060-003A	MAIN CAM		
24	YQ44246	SLIT WASHER		
25	LY40279-001A	ARM GEAR 2 ASSY		
26	LY40228-001A	CLUTCH LOCK LEVER ASSY		
27	LY20102-001A	SUB CAM		
28	YQ43893	MINI SCREW		
29	LY30347-001A	CHARGE ARM ASSY		
30	YQ44560-1-2	CONNECT GEAR 2	(x2)	
31	YQ43893	MINI SCREW	(x2)	
32	LY40236-001A	TENSION CONTROL ARM ASSY		
33	LY40233-001A	BRAKE CONTROL ARM ASSY		
34	YQ44246	SLIT WASHER		
35	LY40242-001C	BASE PLATE ASSY		
36	YQ43893	MINI SCREW		
37	PRD45311	REEL DRIVE GEAR 1		
38	YQ44246	SLIT WASHER		
39	LY40239-003A	CENTER GEAR ASSY		
40	PRD45310	TIMING BELT		
41	LY40246-001A	CLUTCH LOCK GEAR(1)		
42	LY30002-009A	COMPRESSION SPRING		
43	LY40247-001A	CLUTCH LOCK GEAR(2)		
45	LY40248-001A	PUSH PLATE		
46	YQ44246	SLIT WASHER		
47	PRD31443B-03	SUB DECK ASSY(G)		
47A	LY20108-001B	PRISM ASSY		
47B	YQ43893	MINI SCREW		
48	YQ43893	MINI SCREW	(x5)	
49	LY20109-001B	CONTROL PLATE		
50	LY40257-001A	SUB BRAKE ASSY		
51	YQ44246	SLIT WASHER		
52	LY40259-001A	MAIN BRAKE(TAKE UP)		
53	LY40260-003A	MAIN BRAKE(SUPPLY)		
54	LY40255-003A	REEL DISK ASSY	(x2)	
55	LY41245-001B	TENSION ARM SUB ASSY		
56	LY41243-001A	TORSION SPRING		
57	LY41246-003B	BAND ARM PLATE SUB ASSY		
58	PRD45316	SLIT WASHER		
59	YQ43893-7	MINI SCREW		
60	LY30370-002C	SWING ARM ASSY		
61	LY30380-001D	EXIT GUIDE ARM ASSY		
62	YQ44246	SLIT WASHER		
63	LY30374-001B	PINCH ROLLER ARM ASSY		
64	YQ44246	SLIT WASHER		
65	LY40280-003A	REEL COVER ASSY		
66	YQ43893	MINI SCREW		
67	YDV2100A	DRUM ASSY		
68	YQ43893	MINI SCREW	(x3)	
69	LL30228-1A-H	DV MECHA UNIT		
70	LY30428-005A	CASSETTE HOUSING ASSY		
71	QYSDSP2005ZA	SCREW	M2 x 5mm(x2)	
72	PRD45370	ASSIST GUIDE		
74	LL30210-001B-H	BRACKET(MDA)		
75	QYSDSP2002N	SCREW	M2 x 2mm(x2)	
76	LK2119A0A-H2	DV MDA BOARD ASSY		
77	QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x2)	

Electrical parts list

Switching regulator board

Block No. [0][1]

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10268-04B1	SWITCHING REGULATOR BOARD ASSY		
IC5101	STR-G6653-F9	IC		
IC5301	UTC TL431-T	IC		
IC5301	or MM1431AT-T	IC		
IC5301	or L5431-T	IC		
IC5301	or TL431/A-T	IC		
Q5303	DTA114EKA-X	DIGI TRANSISTOR		
Q5303	or UN2111-X	TRANSISTOR		
Q5303	or RT1P141C-X	DIGI TRANSISTOR		
Q5304	DTC114EKA-X	DIGI TRANSISTOR		
Q5304	or UN2211-X	TRANSISTOR		
Q5304	or RT1N141C-X	DIGI TRANSISTOR		
Q5305	2SD2144S/UV/-T	TRANSISTOR		
Q5305	or 2SC3576-JVC-T	TRANSISTOR		
Q5306	2SC5739/QP/-	TRANSISTOR		
Q5306	or 2SD2394/EF/-	TRANSISTOR		
Q5307	2SA1585S/QR/-T	TRANSISTOR		
Q5308	DTC114EKA-X	DIGI TRANSISTOR		
Q5308	or UN2211-X	TRANSISTOR		
Q5308	or RT1N141C-X	DIGI TRANSISTOR		
Q5313	2SA1585S/QR/-T	TRANSISTOR		
Q5314	2SA1585S/QR/-T	TRANSISTOR		
Q5315	DTC114EKA-X	DIGI TRANSISTOR		
Q5315	or UN2211-X	TRANSISTOR		
Q5315	or RT1N141C-X	DIGI TRANSISTOR		
D5001	D3SBA60	DIODE		
D5101	SARS01-T2	SI DIODE		
D5103	AU01Z-T2	FR DIODE		
D5103	or 10ERB20-T2	FR DIODE		
D5104	1SS133-T2	SI DIODE		
D5104	or 1SS270A-T2	SI DIODE		
D5105	10ERB20-T2	FR DIODE		
D5105	or AU01Z-T2	FR DIODE		
D5106	10ERB20-T2	FR DIODE		
D5106	or AU01Z-T2	FR DIODE		
D5202	AU01Z-T2	FR DIODE		
D5202	or 10ERB20-T2	FR DIODE		
D5203	RL2Z-LFB2	FR DIODE		
D5204	D1FS4A-X	SB DIODE		
D5205	RK34-LFB2	SB DIODE		
D5207	D1FS4A-X	SB DIODE		
D5208	AW04-T2	SB DIODE		
D5209	RK34-LFB2	SB DIODE		
D5210	AU01Z-T2	FR DIODE		
D5210	or 10ERB20-T2	FR DIODE		
D5211	10ERB20-T2	FR DIODE		
D5211	or AU01Z-T2	FR DIODE		
D5212	D1FS4A-X	SB DIODE		
D5213	AU01Z-T2	FR DIODE		
D5213	or 10ERB20-T2	FR DIODE		
D5301	MTZJ15A-T2	Z DIODE		
D5303	MTZJ12C-T2	Z DIODE		
D5304	MTZJ5.6C-T2	Z DIODE		
D5306	RK34-LFB2	SB DIODE		
D5307	1SS133-T2	SI DIODE		
△ PC5101	PC123Y82FZ	PHOTO COUPLER		
△ C5001	QFZ9073-683	MM CAPACITOR	0.068uF AC250V M	
△ C5002	QFZ9073-223	MM CAPACITOR	0.022uF AC250V M	
C5003	QEZO374-107	E CAPACITOR	100uF 400V M	
△ C5004	QCZ9079-222	C CAPACITOR	2200pF AC250V M	
C5102	QCZ0349-472Z	C CAPACITOR	4700pF 1kV K	
C5103	QEMU1VM-276Z	E CAPACITOR	27uF 35V M	
C5104	QCZ0136-471Z	C CAPACITOR	470pF 1kV K	
C5105	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	
C5106	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5107	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C5202	QETN2AM-475Z	E CAPACITOR	4.7uF 100V M	

△ Symbol No.	Part No.	Part Name	Description	Local
C5203	QEMT1CM-128	E CAPACITOR	1200uF 16V M	
C5204	QEMT1CM-687	E CAPACITOR	680uF 16V M	
C5205	QEMT1AM-278	E CAPACITOR	2700uF 10V M	
C5206	QEMT1AM-338	E CAPACITOR	3300uF 10V M	
C5207	QEMT1CM-687	E CAPACITOR	680uF 16V M	
C5208	QEMT1AM-158	E CAPACITOR	1500uF 10V M	
C5209	QEMU1HM-186Z	E CAPACITOR	18uF 50V M	
C5210	QEMX0JM-227Z	E CAPACITOR	220uF 6.3V M	
C5301	QFVF1HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C5302	QFLC1HJ-333Z	M CAPACITOR	0.033uF 50V J	
C5303	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5304	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5305	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5306	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5307	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5308	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5309	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C5310	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C5311	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5312	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5315	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5321	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5326	QEZ0653-107Z	E CAPACITOR	100uF 6.3V M	
R5101	QRG02GJ-683	OMF RESISTOR	68kΩ 2W J	
R5102	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R5103	QRE141J-684Y	C RESISTOR	680kΩ 1/4W J	
R5104	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5105	QRE141J-680Y	C RESISTOR	68Ω 1/4W J	
R5106	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	
R5107	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R5108	QRT01DJ-R33X	MF RESISTOR	0.33Ω 1W J	
△ R5109	QRZ9051-470X	FUSI RESISTOR	47Ω 1/4W J	
R5301	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R5302	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5303	NRVA63D-152X	CMF RESISTOR	1.5kΩ 1/16W D	
R5304	NRVA63D-682X	CMF RESISTOR	6.8kΩ 1/16W D	
R5305	NRVA63D-243X	CMF RESISTOR	24kΩ 1/16W D	
R5306	NRVA63D-392X	CMF RESISTOR	3.9kΩ 1/16W D	
R5308	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R5309	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5312	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5313	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5314	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R5315	QRE121J-101Y	C RESISTOR	100Ω 1/2W J	
R5316	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5317	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5325	QRE141J-150Y	C RESISTOR	15Ω 1/4W J	
△ R5326	QRZ9051-470X	FUSI RESISTOR	47Ω 1/4W J	
R5327	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5328	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R5329	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5330	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
L5201	QQL26AK-330Z	COIL	33uH K	
L5202	QQL26AK-330Z	COIL	33uH K	
L5203	QQL26AK-330Z	COIL	33uH K	
L5204	QQL26AK-330Z	COIL	33uH K	
L5205	QQL26AK-330Z	COIL	33uH K	
L5206	QQL26AK-330Z	COIL	33uH K	
L5207	QQL26AK-330Z	COIL	33uH K	
△ T5001	QQS0289-001	SW TRANSF		
B5307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
△ CN5001	QGA7901C3-02	CONNECTOR	W-B (1-2)	
CN5301	QGF1208C1-15	CONNECTOR	FFC/FPC (1-15)	
CN5302	QGA2001C1-02	CONNECTOR	W-B (1-2)	
CN5303	QGA2501C1-04	CONNECTOR	W-B (1-4)	
CN5304	QGF1208C1-19	CONNECTOR	FFC/FPC (1-19)	
△ CP5301	QMFZ049-1R5Z-E	FUSE	1.5A 125V	
△ CP5302	QMFZ049-2R0Z-E	FUSE	2A 125V	
△ F5001	QMF5AE2-2R0-J1	FUSE	2A AC250V	
FC5001	QNG0020-001Z	FUSE CLIP		
FC5002	QNG0020-001Z	FUSE CLIP		
HS1	QZW0155-001	HEAT SINK	FOR IC5101	
△ LF5002	QQR1031-001	LINE FILTER		

△ Symbol No.	Part No.	Part Name	Description	Local
ST1	QZW0007-001	POST PIN		
W52	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
OT1	QYTDST3008ZA	TAP SCREW	M3 x 8mm FOR IC5101	

Digital board

Block No. [0][2]

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10256-03D	DIGITAL BOARD ASSY		
IC1001	JCP8059-2	IC		
IC1002	HY57V161610ET-8	IC		
IC1002	or HY57V161610ETP7	IC		
IC1201	LPN0941-002A	IC(FLASH)	(SERVICE)	
IC1202	SN74LVC373APW-X	IC(DIGITAL)		
IC1203	SN74LVC373APW-X	IC(DIGITAL)		
IC1401	DMN8652-B0L	IC(DIGITAL)		
IC1404	SN74HCT08APW-X	IC		
IC1405	SN74LV08APW-X	IC		
IC1601	HY5DU561622DT-J	IC		
IC1602	HY5DU561622DT-J	IC		
IC1603	HY5DU561622DT-J	IC		
IC1604	HY5DU561622DT-J	IC		
IC1701	PQ015YZ01Z-X	IC		
IC1801	TSB41AB2PAP	IC		
Q1002	2SA1037AK/QR/-X	TRANSISTOR		
Q1002	or 2SA1530A/QR/-X	TRANSISTOR		
Q1002	or 2SB709A/QR/-X	TRANSISTOR		
Q1003	2SA1037AK/QR/-X	TRANSISTOR		
Q1003	or 2SA1530A/QR/-X	TRANSISTOR		
Q1003	or 2SB709A/QR/-X	TRANSISTOR		
Q1004	2SA1037AK/QR/-X	TRANSISTOR		
Q1004	or 2SA1530A/QR/-X	TRANSISTOR		
Q1004	or 2SB709A/QR/-X	TRANSISTOR		
Q1005	2SA1037AK/QR/-X	TRANSISTOR		
Q1005	or 2SA1530A/QR/-X	TRANSISTOR		
Q1005	or 2SB709A/QR/-X	TRANSISTOR		
Q1006	2SA1037AK/QR/-X	TRANSISTOR		
Q1006	or 2SA1530A/QR/-X	TRANSISTOR		
Q1006	or 2SB709A/QR/-X	TRANSISTOR		
Q1007	2SA1037AK/QR/-X	TRANSISTOR		
Q1007	or 2SA1530A/QR/-X	TRANSISTOR		
Q1007	or 2SB709A/QR/-X	TRANSISTOR		
Q1008	UMZ1N-W	PAIR TRANSISTOR		
Q1008	or BC847PN-X	PAIR TRANSISTOR		
Q1008	or BC846PN-X	PAIR TRANSISTOR		
Q1009	2SC2412K/QRS/-X	TRANSISTOR		
Q1009	or 2SC3928A/QRS/-X	TRANSISTOR		
Q1009	or 2SD601A/QRS/-X	TRANSISTOR		
Q1010	2SC2412K/QRS/-X	TRANSISTOR		
Q1010	or 2SC3928A/QRS/-X	TRANSISTOR		
Q1010	or 2SD601A/QRS/-X	TRANSISTOR		
Q1011	2SC2412K/QRS/-X	TRANSISTOR		
Q1011	or 2SC3928A/QRS/-X	TRANSISTOR		
Q1011	or 2SD601A/QRS/-X	TRANSISTOR		
D1001	1SS355-X	SI DIODE		
D1001	or MA111-X	SI DIODE		
D1002	1SS355-X	SI DIODE		
D1002	or MA111-X	SI DIODE		
D1401	1SS355-X	SI DIODE		
D1401	or MA111-X	SI DIODE		
D1402	1SS355-X	SI DIODE		
D1402	or MA111-X	SI DIODE		
D1403	1SS355-X	SI DIODE		
D1403	or MA111-X	SI DIODE		
C1001	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1002	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

△ Symbol No.	Part No.	Part Name	Description	Local
C1007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1017	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1018	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1019	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1020	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1030	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1038	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1041	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1042	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1043	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1045	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1046	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1047	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1051	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1052	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1053	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1060	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1062	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1065	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C1077	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1080	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1082	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1083	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1090	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1091	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1092	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1093	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1094	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1095	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1096	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1097	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1098	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1204	NEHMOJM-476X	E CAPACITOR	47uF 6.3V M	
C1206	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1207	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1404	NEHMOJM-476X	E CAPACITOR	47uF 6.3V M	
C1405	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1408	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1409	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1411	NEHMOJM-107X	E CAPACITOR	100uF 6.3V M	
C1412	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1413	NEHMOJM-476X	E CAPACITOR	47uF 6.3V M	
C1414	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1416	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1417	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1418	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1420	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1422	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1423	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1424	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1425	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1427	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1428	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1429	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1430	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1435	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1436	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1437	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1438	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1439	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

△ Symbol No.	Part No.	Part Name	Description	Local
C1442	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1444	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1445	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1446	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1447	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1448	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1450	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1452	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1453	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1455	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1457	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1458	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1461	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1463	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1464	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1465	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1466	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1467	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1468	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1469	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1470	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1471	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1472	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1473	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1474	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1602	NEX60GM-337X	E CAPACITOR	330uF 4V M	
C1605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1607	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1610	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1612	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1613	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1614	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1615	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1617	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1619	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1620	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1621	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1622	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1623	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1624	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1625	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1626	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1627	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1628	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1629	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1630	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1631	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1633	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1634	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1635	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1636	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1642	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1644	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1646	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1650	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1652	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1654	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1656	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1658	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1660	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1662	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1702	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1703	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1704	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1706	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1708	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1710	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1801	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1802	NDC31HJ-271X	C CAPACITOR	270pF 50V J	

△ Symbol No.	Part No.	Part Name	Description	Local
C1803	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1804	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1806	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1808	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1809	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1812	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1813	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1814	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1815	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1816	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
R1001	NRSA63D-221X	MG RESISTOR	220Ω 1/16W D	
R1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1009	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1013	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1014	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1015	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1021	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1022	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1024	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R1027	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1028	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1029	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1030	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1031	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1032	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1033	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1037	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1038	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1039	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1040	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1041	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1043	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1045	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1046	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1047	NRSA63D-201X	MG RESISTOR	200Ω 1/16W D	
R1048	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1049	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1050	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R1051	NRSA63D-271X	MG RESISTOR	270Ω 1/16W D	
R1052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1053	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1054	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1055	NRSA63D-181X	MG RESISTOR	180Ω 1/16W D	
R1056	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1057	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1059	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1060	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1061	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1065	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1067	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1068	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1069	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1070	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R1071	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1217	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1218	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R1222	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R1605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1606	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1226	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R1607	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1229	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R1608	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R1613	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1231	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R1614	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1401	NRSA63F-1181X	MG RESISTOR	1.18kΩ 1/16W F		R1615	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R1616	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1408	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1617	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1409	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1618	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1410	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1619	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1411	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1620	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1412	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1621	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1413	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1622	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1414	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1623	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1415	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1416	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1417	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1626	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1419	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1627	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1420	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1628	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1427	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1629	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1428	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1630	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1429	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1631	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1430	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1632	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1431	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1641	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1434	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1642	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1435	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1643	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1436	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1644	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1437	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R1653	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1438	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1654	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1439	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1655	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1440	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1656	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1441	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R1657	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1443	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R1658	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1444	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R1659	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1445	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1660	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1446	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1701	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1447	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1448	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1703	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1449	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1704	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1450	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1801	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1451	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1452	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1803	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1453	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1455	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1805	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1458	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1459	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1460	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1810	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R1461	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1812	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1462	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1813	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1464	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1814	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1465	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1815	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1466	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1816	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1467	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1817	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R1468	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1818	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D	
R1469	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1819	NRSA63D-751X	MG RESISTOR	750Ω 1/16W D	
R1470	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R1820	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1471	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1821	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1472	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R1822	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1473	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1823	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1474	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1824	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1475	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1825	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1476	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1826	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1477	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R1827	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R2101	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R2102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1480	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R2103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1481	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R2104	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1482	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R2105	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R1483	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R2106	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1491	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R2107	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1493	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R2108	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R1494	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R2109	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1495	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R2110	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R1601	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		R2111	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1602	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		R2112	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1603	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		R2113	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1604	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		R2114	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R2115	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2202	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2204	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2205	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2206	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2207	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2208	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2209	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2210	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2211	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2212	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2213	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2214	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2215	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
RA1001	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA1002	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA1003	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1005	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1006	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1201	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1202	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1203	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1204	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1401	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1402	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1403	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1404	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1405	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1406	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1407	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1408	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1409	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1410	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1411	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4	
RA1609	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1610	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1611	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1612	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1613	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1614	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1615	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1616	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1617	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1618	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1619	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1620	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1621	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1622	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1623	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1624	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1625	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1626	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1627	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1628	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1629	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1630	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1631	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1632	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1801	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA1802	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4	
RA2101	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2102	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2103	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2104	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2208	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2209	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2210	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2211	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
L1004	NQL144K-100X	P COIL	10uH K	
L1801	NQL144K-100X	P COIL	10uH K	
T1801	NQR0514-002X	FILTER COIL		
T1802	NQR0514-002X	FILTER COIL		
T1803	NQR0514-002X	FILTER COIL		
T1804	NQR0514-002X	FILTER COIL		

△ Symbol No.	Part No.	Part Name	Description	Local
B1001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1008	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B1405	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1802	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CN1001	QGB2027L5-28X	CONNECTOR	B-B (1-28)	
CN1002	QGB2027L5-20X	CONNECTOR	B-B (1-20)	
CN1003	QGA2001F6-06X	CONNECTOR	W-B (1-6)	
CN1403	QGF1016C6-04W	CONNECTOR	FFC/FPC (1-4)	
CN1405	QGF1016F8-04W	CONNECTOR	FFC/FPC (1-4)	
CN1802	QGB2027L1-14X	CONNECTOR	B-B (1-14)	
CN2101	QGF0508C2-40W	CONNECTOR	FFC/FPC (1-40)	
CN2201	QGF0508C2-40W	CONNECTOR	FFC/FPC (1-40)	
K1001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1003	NQR0129-002X	FERRITE BEADS		
K1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1005	NQR0129-002X	FERRITE BEADS		
K1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1010	NQR0129-002X	FERRITE BEADS		
K1011	NQR0129-002X	FERRITE BEADS		
K1012	NQR0129-002X	FERRITE BEADS		
K1013	NQR0129-002X	FERRITE BEADS		
K1014	NQR0129-002X	FERRITE BEADS		
K1015	NQR0129-002X	FERRITE BEADS		
K1016	NQR0129-002X	FERRITE BEADS		
K1017	NQR0129-002X	FERRITE BEADS		
K1018	NQR0129-002X	FERRITE BEADS		
K1019	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1020	NQR0129-002X	FERRITE BEADS		
K1201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1402	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1403	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1404	NQR0339-001X	FERRITE BEADS		
K1406	NQR0339-001X	FERRITE BEADS		
K1407	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1408	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1701	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1702	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1801	NQR0339-001X	FERRITE BEADS		
K2101	NQR0129-002X	FERRITE BEADS		
K2102	NQR0129-002X	FERRITE BEADS		
K2103	NQR0129-002X	FERRITE BEADS		
K2104	NQR0129-002X	FERRITE BEADS		
K2105	NQR0129-002X	FERRITE BEADS		
K2106	NQR0129-002X	FERRITE BEADS		
K2107	NQR0129-002X	FERRITE BEADS		
K2108	NQR0129-002X	FERRITE BEADS		
K2109	NQR0129-002X	FERRITE BEADS		
K2110	NQR0129-002X	FERRITE BEADS		
K2111	NQR0129-002X	FERRITE BEADS		
K2112	NQR0129-002X	FERRITE BEADS		
K2113	NQR0129-002X	FERRITE BEADS		
K2114	NQR0129-002X	FERRITE BEADS		
K2115	NQR0129-002X	FERRITE BEADS		
K2116	NQR0129-002X	FERRITE BEADS		
K2117	NQR0129-002X	FERRITE BEADS		
K2118	NQR0129-002X	FERRITE BEADS		
K2119	NQR0129-002X	FERRITE BEADS		
K2120	NQR0129-002X	FERRITE BEADS		
K2121	NQR0129-002X	FERRITE BEADS		
K2201	NQR0129-002X	FERRITE BEADS		
K2202	NQR0129-002X	FERRITE BEADS		
K2203	NQR0129-002X	FERRITE BEADS		
K2204	NQR0129-002X	FERRITE BEADS		
K2205	NQR0129-002X	FERRITE BEADS		
K2206	NQR0129-002X	FERRITE BEADS		
K2207	NQR0129-002X	FERRITE BEADS		
K2208	NQR0129-002X	FERRITE BEADS		
K2209	NQR0129-002X	FERRITE BEADS		
K2210	NQR0129-002X	FERRITE BEADS		
K2211	NQR0129-002X	FERRITE BEADS		

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
K2212	NQR0129-002X	FERRITE BEADS			Q706	or 2SC2412K/QRS/-X	TRANSISTOR		
K2213	NQR0129-002X	FERRITE BEADS			Q706	or 2SC3928A/QRS/-X	TRANSISTOR		
K2214	NQR0129-002X	FERRITE BEADS			Q711	2SB709A/QR/-X	TRANSISTOR		
K2215	NQR0129-002X	FERRITE BEADS			Q711	or 2SA1037AK/QR/-X	TRANSISTOR		
K2216	NQR0129-002X	FERRITE BEADS			Q711	or 2SA1530A/QR/-X	TRANSISTOR		
K2217	NQR0129-002X	FERRITE BEADS			Q712	2SB709A/QR/-X	TRANSISTOR		
K2218	NQR0129-002X	FERRITE BEADS			Q712	or 2SA1037AK/QR/-X	TRANSISTOR		
K2219	NQR0129-002X	FERRITE BEADS			Q712	or 2SA1530A/QR/-X	TRANSISTOR		
K2220	NQR0129-002X	FERRITE BEADS			Q901	2SD601A/QRS/-X	TRANSISTOR		
K2221	NQR0129-002X	FERRITE BEADS			Q901	or 2SC2412K/QRS/-X	TRANSISTOR		
LC1401	NQR0512-008X	EMI FILTER			Q901	or 2SC3928A/QRS/-X	TRANSISTOR		
LC1402	NQR0512-008X	EMI FILTER			Q902	2SD601A/QRS/-X	TRANSISTOR		
LC1403	NQR0512-008X	EMI FILTER			Q902	or 2SC2412K/QRS/-X	TRANSISTOR		
SD1	LP21298-002A	S.FRAME(DIGI)			Q902	or 2SC3928A/QRS/-X	TRANSISTOR		
X1401	NAX0580-001X	CXO	27.0000MHz		Q903	DTC144WKA-X	DIGI TRANSISTOR		
X1801	NAX0666-001X	CRYSTAL	24.576000MHz		Q903	or UN221E-X	TRANSTSTOR		

Main board

Block No. [0][3]

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10269-06C	MAIN BOARD ASSY		EK
PW1	LPA10269-05C	MAIN BOARD ASSY		EL,EU,EY,EZ
IC201	LC74776-9791-E	IC		
IC501	JCP8038	IC		
IC502	CD74HC4053PW-X	IC		
IC621	LC74793-E	IC		
IC701	JCP8038-I	IC		
IC701	or JCP8038	IC		
IC702	CD74HC4053PW-X	IC		
IC901	HA118226F	IC		
IC902	BA7623F-X	IC		
IC903	CD74HC4053PW-X	IC		
IC2201	CD4052BM-X	IC		
IC2202	RC4558D-X	IC		
IC2601	RC4558D-X	IC		
IC2602	CD4052BM-X	IC		
IC2603	CD4052BM-X	IC		
IC2604	RC4558D-X	IC		
IC2605	CD4052BM-X	IC		
IC2606	RC4558D-X	IC		
IC2607	LA7151-E	IC		
IC3001	HD6432194SAE02F	IC(MCU)	MASK	
IC3002	S-80827CNNB-G-W	IC		
IC3004	LPN0939-006A-05	IC(EEPROM)	*(REFER TO BELOW) EK	
IC3004	LPN0939-005A-04	IC(EEPROM)	*(REFER TO BELOW) EL,EU,EY,EZ	
IC3301	BU2090FS-X	IC		
IC5401	MM1663DH-X	IC		
IC6701	MSP3417GQGB8V3X	IC		
Q207	2SA1037AK/QR/-X	TRANSISTOR		
Q207	or 2SB709A/QR/-X	TRANSISTOR		
Q207	or 2SA1530A/QR/-X	TRANSISTOR		
Q208	2SC2412K/QRS/-X	TRANSISTOR		
Q208	or 2SD601A/QRS/-X	TRANSISTOR		
Q208	or 2SC3928A/QRS/-X	TRANSISTOR		
Q232	2SC2412K/QRS/-X	TRANSISTOR		
Q232	or 2SD601A/QRS/-X	TRANSISTOR		
Q232	or 2SC3928A/QRS/-X	TRANSISTOR		
Q503	2SD601A/QRS/-X	TRANSISTOR		
Q503	or 2SC2412K/QRS/-X	TRANSISTOR		
Q503	or 2SC3928A/QRS/-X	TRANSISTOR		
Q505	2SB709A/QR/-X	TRANSISTOR		
Q505	or 2SA1037AK/QR/-X	TRANSISTOR		
Q505	or 2SA1530A/QR/-X	TRANSISTOR		
Q701	2SB709A/QR/-X	TRANSISTOR		
Q701	or 2SA1037AK/QR/-X	TRANSISTOR		
Q701	or 2SA1530A/QR/-X	TRANSISTOR		
Q703	2SD601A/QRS/-X	TRANSISTOR		
Q703	or 2SC2412K/QRS/-X	TRANSISTOR		
Q703	or 2SC3928A/QRS/-X	TRANSISTOR		
Q706	2SD601A/QRS/-X	TRANSISTOR		

Q706	or 2SC2412K/QRS/-X	TRANSISTOR
Q706	or 2SC3928A/QRS/-X	TRANSISTOR
Q711	2SB709A/QR/-X	TRANSISTOR
Q711	or 2SA1037AK/QR/-X	TRANSISTOR
Q711	or 2SA1530A/QR/-X	TRANSISTOR
Q712	2SB709A/QR/-X	TRANSISTOR
Q712	or 2SA1037AK/QR/-X	TRANSISTOR
Q712	or 2SA1530A/QR/-X	TRANSISTOR
Q901	2SD601A/QRS/-X	TRANSISTOR
Q901	or 2SC2412K/QRS/-X	TRANSISTOR
Q901	or 2SC3928A/QRS/-X	TRANSISTOR
Q902	2SD601A/QRS/-X	TRANSISTOR
Q902	or 2SC2412K/QRS/-X	TRANSISTOR
Q902	or 2SC3928A/QRS/-X	TRANSISTOR
Q903	DTC144WKA-X	DIGI TRANSISTOR
Q903	or UN221E-X	TRANSTSTOR
Q903	or RT1N44HC-X	DIGI TRANSISTOR
Q904	DTC144WKA-X	DIGI TRANSISTOR
Q904	or UN221E-X	TRANSTSTOR
Q904	or RT1N44HC-X	DIGI TRANSISTOR
Q907	2SB709A/QR/-X	TRANSISTOR
Q907	or 2SA1037AK/QR/-X	TRANSISTOR
Q907	or 2SA1530A/QR/-X	TRANSISTOR
Q908	2SB709A/QR/-X	TRANSISTOR
Q908	or 2SA1037AK/QR/-X	TRANSISTOR
Q908	or 2SA1530A/QR/-X	TRANSISTOR
Q912	2SB709A/QR/-X	TRANSISTOR
Q912	or 2SA1037AK/QR/-X	TRANSISTOR
Q912	or 2SA1530A/QR/-X	TRANSISTOR
Q913	2SB709A/QR/-X	TRANSISTOR
Q913	or 2SA1037AK/QR/-X	TRANSISTOR
Q913	or 2SA1530A/QR/-X	TRANSISTOR
Q914	2SB709A/QR/-X	TRANSISTOR
Q914	or 2SA1037AK/QR/-X	TRANSISTOR
Q914	or 2SA1530A/QR/-X	TRANSISTOR
Q915	2SB709A/QR/-X	TRANSISTOR
Q915	or 2SA1037AK/QR/-X	TRANSISTOR
Q915	or 2SA1530A/QR/-X	TRANSISTOR
Q932	2SB709A/QR/-X	TRANSISTOR
Q932	or 2SA1037AK/QR/-X	TRANSISTOR
Q932	or 2SA1530A/QR/-X	TRANSISTOR
Q933	2SB709A/QR/-X	TRANSISTOR
Q933	or 2SA1037AK/QR/-X	TRANSISTOR
Q933	or 2SA1530A/QR/-X	TRANSISTOR
Q936	2SB709A/QR/-X	TRANSISTOR
Q936	or 2SA1037AK/QR/-X	TRANSISTOR
Q936	or 2SA1530A/QR/-X	TRANSISTOR
Q941	2SB709A/QR/-X	TRANSISTOR
Q941	or 2SA1037AK/QR/-X	TRANSISTOR
Q941	or 2SA1530A/QR/-X	TRANSISTOR
Q942	DTC114TKA-X	TRANSISTOR
Q943	DTC144WKA-X	DIGI TRANSISTOR
Q943	or UN221E-X	TRANSTSTOR
Q943	or RT1N44HC-X	DIGI TRANSISTOR
Q944	DTC114EKA-X	DIGI TRANSISTOR
Q944	or UN2211-X	TRANSISTOR
Q944	or RT1N141C-X	DIGI TRANSISTOR
Q2201	2SC2412K/QRS/-X	TRANSISTOR
Q2201	or 2SD601A/QRS/-X	TRANSISTOR
Q2201	or 2SC3928A/QRS/-X	TRANSISTOR
Q2202	2SC2412K/QRS/-X	TRANSISTOR
Q2202	or 2SD601A/QRS/-X	TRANSISTOR
Q2202	or 2SC3928A/QRS/-X	TRANSISTOR
Q2203	DTA144WKA-X	TRANSISTOR
Q2203	or UN211E-X	DIGI TRANSISTOR
Q2203	or RT1P44HC-X	DIGI TRANSISTOR
Q2204	DTC144WKA-X	DIGI TRANSISTOR
Q2204	or UN221E-X	TRANSTSTOR
Q2204	or RT1N44HC-X	DIGI TRANSISTOR
Q2601	2SC2412K/QRS/-X	TRANSISTOR
Q2601	or 2SD601A/QRS/-X	TRANSISTOR
Q2601	or 2SC3928A/QRS/-X	TRANSISTOR
Q2602	2SC2412K/QRS/-X	TRANSISTOR
Q2602	or 2SD601A/QRS/-X	TRANSISTOR
Q2602	or 2SC3928A/QRS/-X	TRANSISTOR
Q2603	DTC143TKA-X	DIGI TRANSISTOR
Q2603	or UN2216-X	DIGI TRANSISTOR
Q2603	or RT1N430C-X	DIGI TRANSISTOR

After exchanging EEPROMs, a main part does not correspond to some remote control commands at Jig RCU mode.
Please cancel the Jig RCU mode of a main part after exchanging EEPROMs. Please refer to the "Canceling JIG mode"
about the release method.

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△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
Q2604	DTC143TKA-X	DIGI TRANSISTOR			C501	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
Q2604	or UN2216-X	DIGI TRANSISTOR			C502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q2604	or RT1N430C-X	DIGI TRANSISTOR			C503	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
Q2605	DTA144WKA-X	TRANSISTOR			C505	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q2605	or UN211E-X	DIGI TRANSISTOR			C506	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q2605	or RT1P44HC-X	DIGI TRANSISTOR			C508	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
Q3004	2SC2412K/QRS/-X	TRANSISTOR			C510	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q3004	or 2SD601A/QRS/-X	TRANSISTOR			C512	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q3004	or 2SC3928A/QRS/-X	TRANSISTOR			C513	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
Q3007	UN221E-X	TRANSTSTOR			C515	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q3007	or DTC144WKA-X	DIGI TRANSISTOR			C516	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q3007	or RT1N44HC-X	DIGI TRANSISTOR			C518	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
Q3010	UN221E-X	TRANSTSTOR			C519	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
Q3010	or DTC144WKA-X	DIGI TRANSISTOR			C520	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q3010	or RT1N44HC-X	DIGI TRANSISTOR			C521	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q3901	UN221E-X	TRANSTSTOR			C522	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
Q3901	or DTC144WKA-X	DIGI TRANSISTOR			C523	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q3901	or RT1N44HC-X	DIGI TRANSISTOR			C524	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q5401	2SB709A/QR/-X	TRANSISTOR			C525	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q5401	or 2SA1037AK/QR/-X	TRANSISTOR			C526	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q5401	or 2SA1530A/QR/-X	TRANSISTOR			C527	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q5402	UN2111-X	TRANSISTOR			C528	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
Q5402	or DTC114EKA-X	DIGI TRANSISTOR			C529	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
Q5402	or RT1N141C-X	DIGI TRANSISTOR			C530	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q6001	2SD2144S/UV/-T	TRANSISTOR			C533	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q6030	2SB709A/QR/-X	TRANSISTOR			C534	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
Q6030	or 2SA1037AK/QR/-X	TRANSISTOR			C537	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q6030	or 2SA1530A/QR/-X	TRANSISTOR			C539	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q6031	UN2211-X	TRANSISTOR			C540	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q6031	or DTC114EKA-X	DIGI TRANSISTOR			C541	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
Q6031	or RT1N141C-X	DIGI TRANSISTOR			C543	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D201	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		C545	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
D202	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		C546	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
D203	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		C547	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
D501	DA204U-X	SI DIODE			C549	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
D502	DA204U-X	SI DIODE			C550	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
D701	DA204U-X	SI DIODE			C551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D702	DA204U-X	SI DIODE			C552	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
D702	DA204U-X	SI DIODE			C556	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
D902	QRE141J-181Y	C RESISTOR	180Ω 1/4W J		C557	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
D904	MTZJ9.1B-T2	Z DIODE			C560	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D2601	1SS133-T2	SI DIODE			C562	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
D2601	or 1SS270A-T2	SI DIODE			C563	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
D3002	1SS133-T2	SI DIODE			C621	QETN0JM-227Z	E CAPACITOR	220uF 6.3V M	
D3002	or 1SS270A-T2	SI DIODE			C622	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
D3003	MTZJ39C-T2	Z DIODE			C623	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
D3004	10EDB20-T2	SI DIODE			C624	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
D3005	10EDB20-T2	SI DIODE			C627	NCB31CK-563X	C CAPACITOR	0.056uF 16V K	
D3008	1SS355-X	SI DIODE			C628	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
D3008	or MA111-X	SI DIODE			C629	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
D5401	10EDB20-T2	SI DIODE			C630	QETN0JM-227Z	E CAPACITOR	220uF 6.3V M	
D5402	10EDB20-T2	SI DIODE			C631	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
D5403	10EDB20-T2	SI DIODE			C701	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
D6002	HZ30-2L-T2	Z DIODE			C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D6701	1SS133-T2	SI DIODE			C703	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
D6701	or 1SS270A-T2	SI DIODE			C705	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C201	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		C706	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C206	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C708	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C207	NDC31HJ-330X	C CAPACITOR	33pF 50V J		C710	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C209	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		C712	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C210	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C713	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C211	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C715	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C212	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C716	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C213	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M		C718	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C214	NCB31AK-224X	C CAPACITOR	0.22uF 10V K		C719	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C215	NCB31AK-224X	C CAPACITOR	0.22uF 10V K		C721	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C217	NDC31HJ-560X	C CAPACITOR	56pF 50V J		C722	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C218	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M		C723	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C222	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M		C724	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C225	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		C725	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C231	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C726	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C232	NDC31HJ-821X	C CAPACITOR	820pF 50V J		C727	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C233	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C728	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C234	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C729	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C235	NCB31HK-102X	C CAPACITOR	1000pF 50V K		C730	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C236	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C733	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C237	NDC31HJ-180X	C CAPACITOR	18pF 50V J		C734	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
					C735	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C736	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C971	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C737	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C972	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C739	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C973	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C740	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C981	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C741	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C982	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C743	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C983	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C745	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M		C996	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C746	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C997	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C747	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C2201	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C749	NDC31HJ-100X	C CAPACITOR	10pF 50V J		C2202	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C750	NDC31HJ-820X	C CAPACITOR	82pF 50V J		C2601	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C756	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C2602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C765	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		C2603	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C767	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C2604	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C768	NCB31HK-102X	C CAPACITOR	1000pF 50V K		C2605	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C769	NDC31HJ-821X	C CAPACITOR	820pF 50V J		C2606	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C771	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C2607	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C772	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C2608	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C773	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C2609	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C775	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C2610	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C776	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C2611	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C777	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C2651	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C778	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C2653	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C857	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3007	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C858	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		C3010	QEZ0244-229	EDL CAPACITOR	0.022F 5.5V Z	
C859	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3014	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C901	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M		C3015	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C902	NDC31HJ-471X	C CAPACITOR	470pF 50V J		C3016	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C903	NDC31HJ-471X	C CAPACITOR	470pF 50V J		C3022	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C904	NDC31HJ-471X	C CAPACITOR	470pF 50V J		C3024	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C905	NDC31HJ-471X	C CAPACITOR	470pF 50V J		C3025	QAT3725-300Z	TRIM CAPACITOR	30pF TIMER CLOCK	
C906	NCB31HK-471X	C CAPACITOR	470pF 50V K		C3026	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C907	NCB31HK-471X	C CAPACITOR	470pF 50V K		C3027	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C908	NCB31HK-471X	C CAPACITOR	470pF 50V K		C3030	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C909	NCB31HK-471X	C CAPACITOR	470pF 50V K		C3031	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C914	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M		C3032	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C915	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M		C3033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C916	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M		C3036	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C917	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M		C3037	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C918	NDC31HJ-471X	C CAPACITOR	470pF 50V J		C3038	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C919	NDC31HJ-471X	C CAPACITOR	470pF 50V J		C3039	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C920	NDC31HJ-471X	C CAPACITOR	470pF 50V J		C3042	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C921	NDC31HJ-471X	C CAPACITOR	470pF 50V J		C3049	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C922	NCB31HK-471X	C CAPACITOR	470pF 50V K		C3050	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C923	NCB31HK-471X	C CAPACITOR	470pF 50V K		C3051	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C924	NCB31HK-471X	C CAPACITOR	470pF 50V K		C3054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C925	NCB31HK-471X	C CAPACITOR	470pF 50V K		C3301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C930	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C5401	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C932	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		C5403	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C934	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C5404	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C935	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C5405	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C937	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M		C6001	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C939	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		C6002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C940	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		C6014	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C941	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		C6701	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C942	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M		C6707	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C944	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M		C6708	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C945	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C6709	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C947	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C6713	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C948	NCB21HK-103X	C CAPACITOR	0.01uF 50V K		C6714	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C950	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M		C6715	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C951	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M		C6716	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C952	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M		C6717	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C953	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		C6719	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C954	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		C6720	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C955	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		C6721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C956	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		C6723	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C957	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C6751	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C960	NCB31HK-103X	C CAPACITOR	0.01uF 50V K						
C961	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C962	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C963	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M		R209	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C964	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R210	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
C965	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R211	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C966	NCB21HK-103X	C CAPACITOR	0.01uF 50V K		R212	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C967	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M		R213	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C968	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R216	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C969	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R224	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R225	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R226	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R233	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R234	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R235	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R236	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R505	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R510	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R518	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R521	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R527	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R528	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R529	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R531	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R532	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R542	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R623	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R624	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R625	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R627	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R628	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R630	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R631	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R703	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R704	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R706	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R707	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R709	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R710	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R717	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R718	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R721	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R726	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R727	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R728	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R729	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R732	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R744	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R745	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R746	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R748	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R751	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R752	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R753	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R754	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R756	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R757	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R758	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R759	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R857	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R901	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R902	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R903	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R904	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R909	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R910	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R911	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R912	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R913	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R914	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R915	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R918	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R919	QRE141J-131Y	C RESISTOR	130Ω 1/4W J	
R920	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R921	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R922	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R923	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R924	NRSA63D-680X	MG RESISTOR	68Ω 1/16W D	
R925	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R926	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R927	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R928	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R931	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R932	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R937	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R939	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R940	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R941	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R942	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R943	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R944	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R945	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R960	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R961	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R965	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R966	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R967	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R968	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R969	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R973	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R974	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R975	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R976	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R982	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R983	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R984	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R985	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R986	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R987	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R990	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R991	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R992	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R993	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R994	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R999	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2201	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2203	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2204	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2205	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2206	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2208	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2209	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2210	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2601	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2602	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2603	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2604	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2606	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2607	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2608	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2609	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2610	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2612	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2613	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2615	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2616	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2621	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2623	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2624	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2625	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2627	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2629	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2630	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2631	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2632	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R2633	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R3094	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2634	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R3095	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2651	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R3096	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2652	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R3097	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R3201	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R2654	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R3202	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R2655	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2656	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3204	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2657	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3205	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2658	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3207	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2659	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3218	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2660	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3223	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2661	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3224	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2662	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3225	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2663	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3226	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2664	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3229	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R2665	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2666	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3231	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2667	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3234	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2668	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3239	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R3240	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3014	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3246	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3015	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3249	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3017	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R3250	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3018	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R3255	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3019	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3256	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3257	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3258	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3022	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3024	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3313	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3025	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3314	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3027	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3315	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3028	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R5401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3029	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R5402	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R5404	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3032	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R5405	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R6001	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3035	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R6002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R6020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3037	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R6021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3038	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6030	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3039	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3040	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R6080	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3041	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R6707	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R3046	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3047	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6709	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3048	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6710	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3049	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6711	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3050	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3051	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R6713	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6714	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3053	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6715	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3054	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R6716	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R6719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3057	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R6720	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6721	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R3062	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L201	QQL29BK-1R0Z	P COIL	1uH K	
R3063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L203	QQL29BJ-220Z	P COIL	22uH J	
R3066	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L204	QQL29BJ-100Z	P COIL	10uH J	
R3069	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L206	QQL071J-220Y	COIL	22uH J	
R3071	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L231	QQL29BJ-100Z	P COIL	10uH J	
R3072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L232	QQL071J-8R2Y	COIL	8.2uH J	
R3073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L501	QQL29BJ-100Z	P COIL	10uH J	
R3074	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L502	QQL29BJ-100Z	P COIL	10uH J	
R3075	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L504	QQL231J-330Y	COIL	33uH J	
R3076	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L621	QQL29BJ-100Z	P COIL	10uH J	
R3077	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L701	QQL29BJ-100Z	P COIL	10uH J	
R3078	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L702	QQL29BJ-100Z	P COIL	10uH J	
R3079	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L704	QQL231J-330Y	COIL	33uH J	
R3080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L706	QQL29BJ-100Z	P COIL	10uH J	
R3081	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L707	QQL231J-8R2Y	COIL	8.2uH J	
R3086	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L852	QQL29BK-1R0Z	P COIL	1uH K	
R3087	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L901	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R3089	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L902	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R3091	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L903	QQL071J-1R0Y	COIL	1uH J	
R3092	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L904	QQL071J-4R7Y	COIL	4.7uH J	
R3093	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L905	QQL071J-4R7Y	COIL	4.7uH J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
L906	QRE141J-101Y	C RESISTOR	100Ω 1/4W J		W13	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L907	QRE141J-101Y	C RESISTOR	100Ω 1/4W J		W14	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L908	QQL231J-R22Y	COIL	0.22uH J		W15	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L909	QQL071J-4R7Y	COIL	4.7uH J		W16	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L910	QQL071J-4R7Y	COIL	4.7uH J		W17	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L914	QQL071J-1R0Y	COIL	1uH J		W18	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L917	QQL29BJ-100Z	P COIL	10uH J		W19	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L918	QQL29BJ-100Z	P COIL	10uH J		W20	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L919	QQL29BJ-100Z	P COIL	10uH J		W21	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L920	QQL29BJ-100Z	P COIL	10uH J		W22	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L931	QQL071J-100Y	COIL	10uH J		W23	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L932	QQL071J-100Y	COIL	10uH J		W24	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L933	QQL071J-100Y	COIL	10uH J		W25	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L934	QQL071J-100Y	COIL	10uH J		W26	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L3001	QQL231J-R22Y	COIL	0.22uH J		W27	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L6003	QQL29BK-1R0Z	P COIL	1uH K		W28	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L6005	QQL29BK-1R0Z	P COIL	1uH K		W29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
					W30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B231	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W33	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W34	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W35	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W36	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W37	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B702	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W38	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B851	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W39	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B852	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W40	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B903	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W41	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W42	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3962	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W44	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3966	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W45	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3971	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W47	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B5401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W48	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B5403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W49	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B6001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W50	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B6002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W51	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B6004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W52	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN501	QGF1040C1-07	CONNECTOR	FFC/FPC (1-7)		W53	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN701	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)		W55	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN901	QGF1207C1-09	CONNECTOR	FFC/FPC (1-9)		W56	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN902	QGF1207C1-08	CONNECTOR	FFC/FPC (1-8)		W57	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN2601	QGF1040C1-08	CONNECTOR	FFC/FPC (1-8)		W58	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN2602	QGB1231L1-11	CONNECTOR	B-B (1-11)		W59	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN3014	QGF1040C1-07	CONNECTOR	FFC/FPC (1-7)		W60	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN3102	QGF1207C1-15	CONNECTOR	FFC/FPC (1-15)		W61	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN3103	QGB1231L1-19	CONNECTOR	B-B (1-19)		W62	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN3104	QGF1207C1-15	CONNECTOR	FFC/FPC (1-15)		W63	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN3901	QGF1207C1-06	CONNECTOR	FFC/FPC (1-6)		W64	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN5402	QGF1207C1-15	CONNECTOR	FFC/FPC (1-15)		W65	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN5403	QGA2001C1-05	CONNECTOR	W-B (1-5)		W66	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN5404	QGF1207C1-08	CONNECTOR	FFC/FPC (1-8)		W67	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
△ CP5401	QMFZ050-1R5X-E	FUSE	1.5A 125V		W68	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
△ CP5402	QMFZ050-1R5X-E	FUSE	1.5A 125V		W69	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
FW851	QUM023-08A4BF-E	PARA RIBON WIRE			W70	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
GN1	QNZ0136-001Z	EARTH PLATE			W71	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
J851	GP1FA553TZ0F	IC	OPTICAL		W72	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
J901	QNZ0516-001	RGB CONNECTOR	L-1 IN/OUT		W73	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
J902	QNZ0516-001	RGB CONNECTOR	L-2 IN/DECODER		W74	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
J905	QNN0587-002	PIN JACK	COMPONENT		W75	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6701	NQR0129-003X	FERRITE BEADS			W76	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6702	NQR0129-003X	FERRITE BEADS			W77	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6703	NQR0129-003X	FERRITE BEADS			W78	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6704	NQR0129-003X	FERRITE BEADS			W79	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6705	NQR0129-003X	FERRITE BEADS			W80	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6706	NQR0129-003X	FERRITE BEADS			W81	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6708	NQR0129-003X	FERRITE BEADS			W82	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
TU6001	QAU0400-001	TUNER			W83	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W84	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X231	QAX0614-001Z	CRYSTAL	8.867238MHz	
W3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X701	QAX0740-001	CRYSTAL	4.433619MHz	
W4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X3001	QAX0445-001	CRYSTAL	32.768kHz	
W6	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X3002	QAX0527-001	CRYSTAL	10.000000MHz	
W7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X6701	QAX0773-001Z	CRYSTAL	18.432000MHz	
W9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		OT1	LP31378-001A	BOSS(MECHA)3		
W10	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		OT2	LP31379-001A	BOSS(MECHA)4	(x2)	
W11	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
W12	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						

Operation/jack board

Block No. [2][7]

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10268-04B5	OPERATON JACK BOARD ASSY		
D7045	SDPB50A0/DEGH/	LED	BLUE LIGHT	
D7045	or SLA-580BC3T3F	LED	BLUE LIGHT	
C7013	QCB81HK-103Y	C CAPACITOR	0.01uF 50V K	
C7202	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C7203	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C7204	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C7205	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C7206	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7211	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7212	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R7045	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7053	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7202	QRE141J-750Y	C RESISTOR	75Ω 1/4W J	
R7206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7207	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7212	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7215	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
L7202	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
L7203	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
CN7201	QGF1208C1-15	CONNECTOR	FFC/FPC (1-15)	
J7201	QNN0591-001	PIN JACK	FRONT AV IN	
J7204	QND0084-001	S JACK	FRONT S-VIDEO IN	
S7211	QSW0381-001Z	TACT SWITCH	CH+	
S7212	QSW0381-001Z	TACT SWITCH	OPERATE	
S7214	QSW0381-001Z	TACT SWITCH	CH-	
S7215	QSW0381-001Z	TACT SWITCH	DV_EJECT	
WR1	QUB220-14A4X-L	SIN TWIST WIRE		

Display/Switch board

Block No. [2][8]

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10268-04B4	DISPLAY/SWITCH BOARD ASSY		
IC7001	PT6315	IC		
IC7002	GP1UM281XKVF	IR DETECT UNIT		
IC7002	or PNA4652M00XB	IR DETECT UNIT	38kHz	
Q7001	UN221L-X	DIGI TRANSISTOR		
Q7001	or DTC143EKA-X	DIGI TRANSISTOR		
Q7001	or RT1N431C-X	DIGI TRANSISTOR		
Q7002	UN221L-X	DIGI TRANSISTOR		
Q7002	or DTC143EKA-X	DIGI TRANSISTOR		
Q7002	or RT1N431C-X	DIGI TRANSISTOR		
Q7003	UN221L-X	DIGI TRANSISTOR		
Q7003	or DTC143EKA-X	DIGI TRANSISTOR		
Q7003	or RT1N431C-X	DIGI TRANSISTOR		
D7003	1SS133-T2	SI DIODE		
D7003	or 1SS270A-T2	SI DIODE		
D7004	1SS133-T2	SI DIODE		
D7004	or 1SS270A-T2	SI DIODE		
D7005	1SS133-T2	SI DIODE		
D7005	or 1SS270A-T2	SI DIODE		
D7012	1SS133-T2	SI DIODE		
D7012	or 1SS270A-T2	SI DIODE		
D7013	1SS133-T2	SI DIODE		
D7013	or 1SS270A-T2	SI DIODE		
D7014	1SS133-T2	SI DIODE		
D7014	or 1SS270A-T2	SI DIODE		
D7021	MTZJ9.1B-T2	Z DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local
D7041	SLR343WBCT3	LED	VHS	
D7042	SLR-343VC-T	LED	DV REC	
D7043	SLR-343VC-T	LED	HDD REC	
D7044	SLR-343VC-T	LED	DVD REC	
D7046	SLR343WBCT3	LED	HDD	
D7047	SLR343WBCT3	LED	DVD	
D7048	SDPB50A0/DEGH/	LED	BLUE LIGHT	
D7048	or SLA-580BC3T3F	LED	BLUE LIGHT	
C7001	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C7002	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C7003	QEKJ1HM-106Z	E CAPACITOR	10uF 50V M	
C7006	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C7008	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C7010	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z	
C7011	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z	
R7001	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7002	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7003	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R7005	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R7006	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R7007	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7009	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7010	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7013	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7014	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7015	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7022	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7041	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7042	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7043	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7044	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R7046	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7047	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7048	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
CN7001	QGF1209F2-15	CONNECTOR	FFC/FPC (1-15)	
DI7001	QLF0143-001	FL TUBE		
HD1	PQ34949-1-1	FL HOLDER(L)	FOR DI7001	
HD2	PQ34950-1-1	FDP HOLDER(R)	FOR DI7001	
S7004	QSW0381-001Z	TACT SWITCH	AUDIO DUB.	
S7012	QSW0381-001Z	TACT SWITCH	DV/HDD/DVD	
S7013	QSW0381-001Z	TACT SWITCH	FF	
S7014	QSW0381-001Z	TACT SWITCH	PAUSE	
S7015	QSW0381-001Z	TACT SWITCH	STOP	
S7023	QSW0381-001Z	TACT SWITCH	REC MODE	
S7024	QSW0381-001Z	TACT SWITCH	INSERT	
S7032	QSW0381-001Z	TACT SWITCH	DVD_EJECT	
S7033	QSW0381-001Z	TACT SWITCH	REW	
S7034	QSW0381-001Z	TACT SWITCH	REC	
S7035	QSW0381-001Z	TACT SWITCH	PLAY	
W41	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W42	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W43	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W44	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

DV jack board

Block No. [3][6]

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10268-04B3	DV JACK BOARD ASSY		
CN4104	QGA2001C1-06	CONNECTOR	W-B (1-6) DIGITAL	
J4112	QNZ0675-001	D CONNECTOR	FRONT DV IN/OUT	
K4101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4105	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K4106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W35	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W36	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

DV main board

Block No. [5][0]

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10270-05B	DV MAIN BOARD ASSY		
IC1001	MM1561JF-X	IC		
IC1002	MM1572FN-X	IC		
IC1003	MM1573AN-X	IC		
IC1004	MM1572KN-X	IC		
IC1005	S-80823CNNB-G-W	IC		
IC1501	D703040YJ13-A	IC(MCU)		
IC1501	or D70F3040YJ13-A	IC(MCU)		
IC1502	TC7W14FK-X	IC		
IC1503	TC7W04FU-X	IC(DIGITAL)		
IC1504	CAT25C16SI-X	IC		
IC2001	JCY0152-2	IC		
IC2101	JCY0177-W	IC		
IC2102	SN74AHC1G04DC-X	IC		
IC3001	JCP8029	IC		
IC3101	TC7SH04F-X	IC(DIGITAL)		
IC3102	TC7SH04F-X	IC(DIGITAL)		
IC3151	M62366GP-D-X	IC		
IC3501	NJM2538V-X	IC		
IC3701	AK4550VT-X	IC		
IC3702	BA15218F-XE	IC		
IC3702	or RC4558D-X	IC		
IC3703	BA15218F-XE	IC		
IC3703	or RC4558D-X	IC		
IC4001	JCY0132	IC		
IC4002	TC7SH00FU-X	IC(DIGITAL)		
Q1001	2SB1302/ST/-X	TRANSISTOR		
Q1002	DTC144EE-X	DIGI TRANSISTOR		
Q1003	2SB1302/ST/-X	TRANSISTOR		
Q1004	DTC144EE-X	DIGI TRANSISTOR		
Q1005	2SB1302/ST/-X	TRANSISTOR		
Q1006	DTC144EE-X	DIGI TRANSISTOR		
Q1007	2SB1302/ST/-X	TRANSISTOR		
Q1008	DTC144EE-X	DIGI TRANSISTOR		
Q1501	2SC4617/RS/-X	TRANSISTOR		
Q1502	2SC4617/RS/-X	TRANSISTOR		
Q1503	2SC4617/RS/-X	TRANSISTOR		
Q1511	DTA114EE-X	DIGI TRANSISTOR		
Q1512	UMC3N-W	DIGI TRANSISTOR		
Q1513	UMC3N-W	DIGI TRANSISTOR		
Q3101	2SA1576A/RS/-X	TRANSISTOR		
Q3102	2SA1576A/RS/-X	TRANSISTOR		
Q3111	2SA1576A/RS/-X	TRANSISTOR		
Q3112	HN1B04FU/YG/-X	PAIR TRANSISTOR		
Q3113	2SC4081/RS/-X	TRANSISTOR		
Q3114	2SC4081/S/-X	TRANSISTOR		
Q3115	DTC144EE-X	DIGI TRANSISTOR		
Q3131	2SA1576A/RS/-X	TRANSISTOR		
Q3132	HN1B04FU/YG/-X	PAIR TRANSISTOR		
Q3133	2SC4081/RS/-X	TRANSISTOR		
Q3135	DTC144EE-X	DIGI TRANSISTOR		
Q3501	DTC144EE-X	DIGI TRANSISTOR		
Q3502	2SA1576A/RS/-X	TRANSISTOR		
Q3503	2SA1576A/RS/-X	TRANSISTOR		
Q3521	2SA1576A/RS/-X	TRANSISTOR		
Q3522	2SA1576A/RS/-X	TRANSISTOR		
Q4002	2SC4083/NP/-X	TRANSISTOR		
Q4003	2SC4083/NP/-X	TRANSISTOR		
Q4004	2SC4083/NP/-X	TRANSISTOR		
D1501	SB007W03Q-X	SB DIODE		
D1502	SB007W03Q-X	SB DIODE		
D1503	SB007W03Q-X	SB DIODE		
D1504	SB007W03Q-X	SB DIODE		
D1505	SB007W03Q-X	SB DIODE		
D1506	SB007W03Q-X	SB DIODE		
D2002	EC2C01C-TR-X	VARI CAP DIODE		
D2003	EC2C01C-TR-X	VARI CAP DIODE		
D2004	EC2C01C-TR-X	VARI CAP DIODE		
C1001	NEX60JM-227X	E CAPACITOR	220uF 6.3V M	
C1002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

△ Symbol No.	Part No.	Part Name	Description	Local
C1003	NEAF0JM-107X	E CAPACITOR	100uF 6.3V M	
C1004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1005	NEAF0JM-107X	E CAPACITOR	100uF 6.3V M	
C1006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1007	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1008	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1009	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1011	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1012	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1014	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1015	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1016	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1017	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1018	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1019	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1020	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1021	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1022	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1023	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1024	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1025	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1026	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1027	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1028	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1029	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C1030	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C1501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1508	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1509	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C1510	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C1515	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C1516	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C1517	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C1518	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C1520	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1522	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1523	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1531	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C1532	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C2001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2011	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2014	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C2015	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C2016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2017	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C2018	NCB31EK-472X	C CAPACITOR	4700pF 25V K	
C2019	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C2020	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2024	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J	
C2025	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J	
C2026	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C2027	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C2028	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C2031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2037	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2038	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2041	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2042	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2043	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2047	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C2048	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C2051	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C2052	NCB10JK-106X	C CAPACITOR	10uF 6.3V K		C3513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2055	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C3514	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2056	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3515	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C2057	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		C3521	NEAF0JM-107X	E CAPACITOR	100uF 6.3V M	
C2058	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C3523	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C2059	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C3531	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C2060	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3532	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C2061	NCB10JK-106X	C CAPACITOR	10uF 6.3V K		C3533	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C2062	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M		C3534	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C2063	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3535	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2064	NEHM0GM-476X	E CAPACITOR	47uF 4V M		C3536	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C2065	NBAD0GM-227X	OS E CAPACITOR	220uF 2.5V M		C3537	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C2071	NBE20GM-107X	TA E CAPACITOR	100uF 4V M		C3538	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C2073	NCB31EK-473X	C CAPACITOR	0.047uF 25V K		C3539	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C2075	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3540	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2076	NDC31HJ-102X	C CAPACITOR	1000pF 50V J		C3551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2077	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C3552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2078	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3701	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C2086	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3702	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C3001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3703	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3705	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C3003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3708	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C3004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3712	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C3005	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3713	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3714	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C3007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3717	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C3008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3718	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C3009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3725	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C3010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3726	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C3011	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C3728	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3012	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3729	NEAF1CM-476X	E CAPACITOR	47uF 16V M	
C3013	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3730	NEAF1CM-476X	E CAPACITOR	47uF 16V M	
C3014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3731	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3733	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C3016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C3734	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C3017	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3018	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C4002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3021	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M		C4003	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3102	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M		C4007	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3103	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C4009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3106	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C4010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4011	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3108	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C4013	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4015	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C3112	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M		C4021	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3113	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C4022	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3114	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J		C4023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3115	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C4024	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C3116	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C4025	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3117	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M		C4026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3119	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M		C4027	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3120	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C4028	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3121	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4029	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3123	NDC31HJ-120X	C CAPACITOR	12pF 50V J		C4030	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3124	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J		C4031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3127	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4032	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C3129	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3130	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C4034	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
C3131	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C4036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3132	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4038	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3140	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3141	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3142	NDC31HJ-100X	C CAPACITOR	10pF 50V J		C4041	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C3143	NDC31HJ-100X	C CAPACITOR	10pF 50V J		C4046	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3144	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4047	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4061	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C3503	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4062	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3504	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C4063	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3505	NEAF0JM-107X	E CAPACITOR	100uF 6.3V M		C4064	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C3506	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M		C4065	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3507	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C4066	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3508	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C4067	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3510	NCB31CK-104X	C CAPACITOR	0.1uF 16V K						
C3511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R1001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R1002	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1003	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1006	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1008	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1009	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1011	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1505	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1506	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1516	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1517	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R1518	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1519	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1520	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1526	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1531	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1532	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1533	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1534	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1535	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1541	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1543	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1544	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1551	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1552	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1553	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1554	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1555	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1561	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1571	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1582	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1583	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1584	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1585	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1591	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R1592	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1593	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1594	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1595	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1596	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1611	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1613	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1614	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R1615	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R1616	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1617	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1631	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1632	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1633	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1634	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2012	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2014	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2018	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2019	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2020	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2022	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2023	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2027	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2033	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J	
R2034	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R2035	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R2036	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R2037	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R2038	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R2039	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R2040	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R2041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2043	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R2047	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2048	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R2050	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2071	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2073	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R2090	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2091	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2092	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2093	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2094	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2098	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2104	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R2105	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2108	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R2109	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R2110	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2111	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2112	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2113	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R2114	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R2116	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2126	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3003	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3004	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3008	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3048	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3054	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3073	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3074	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3075	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3076	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3078	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3079	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3081	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3102	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3103	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3105	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3106	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3111	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R3112	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3113	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3114	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3115	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3116	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3117	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3118	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3119	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R3120	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3121	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R3122	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R3123	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3124	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3125	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3131	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R3132	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3133	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R3134	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3135	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R3136	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3137	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3138	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3139	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R3140	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3141	NRVA63D-821X	CMF RESISTOR	820Ω 1/16W D	
R3142	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3143	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R3161	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3162	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3163	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3164	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3165	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3501	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J	
R3502	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3503	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3504	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R3506	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J		RA1510	NRZ0040-473X	NET RESISTOR	47kΩ 1/16W J x4	
R3515	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		L1001	NQL144K-100X	P COIL	10uH K	
R3516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L1002	NQL17CM-390X	COIL	39uH M	
R3521	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J		L1003	NQL17CM-390X	COIL	39uH M	
R3522	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L1004	NQL17CM-390X	COIL	39uH M	
R3523	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L1501	NQL144K-100X	P COIL	10uH K	
R3524	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L1502	NQL144K-100X	P COIL	10uH K	
R3526	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		L2002	NQL144K-100X	P COIL	10uH K	
R3527	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L2003	NQL144K-100X	P COIL	10uH K	
R3528	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L2004	NQL144K-100X	P COIL	10uH K	
R3529	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L2005	NQL144K-100X	P COIL	10uH K	
R3533	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J		L2006	NQL144K-100X	P COIL	10uH K	
R3534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L2007	NQL144K-100X	P COIL	10uH K	
R3544	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		L2009	NQL904J-2R2X	COIL	2.2uH J	
R3545	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		L2011	NQL904J-120X	COIL	12uH J	
R3546	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		L2015	NQR0337-001X	CHOKE COIL		
R3547	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		L2101	NQL144K-100X	P COIL	10uH K	
R3548	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J		L3001	NQL144K-100X	P COIL	10uH K	
R3549	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		L3021	NQL144K-100X	P COIL	10uH K	
R3551	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		L3022	NQL144K-100X	P COIL	10uH K	
R3552	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		L3101	NQL144K-100X	P COIL	10uH K	
R3553	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L3103	NQL144K-100X	P COIL	10uH K	
R3555	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L3104	NQL144K-100X	P COIL	10uH K	
R3556	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		L3111	NQL904J-150X	COIL	15uH J	
R3557	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L3112	NQL904J-150X	COIL	15uH J	
R3560	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		L3131	NQL904J-150X	COIL	15uH J	
R3701	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		L3132	NQL904J-150X	COIL	15uH J	
R3702	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		L3151	NQL144K-100X	P COIL	10uH K	
R3703	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		L3521	NQL144K-100X	P COIL	10uH K	
R3704	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		L3522	NQL144K-100X	P COIL	10uH K	
R3705	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L3531	NQL904J-120X	COIL	12uH J	
R3706	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L3532	NQL904J-270X	COIL	27uH J	
R3707	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L3533	NQL904J-120X	COIL	12uH J	
R3708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L3534	NQL904J-270X	COIL	27uH J	
R3709	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L3701	NQL144K-100X	P COIL	10uH K	
R3710	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L3702	NQL144K-100X	P COIL	10uH K	
R3711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L4001	NQL144K-100X	P COIL	10uH K	
R3714	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J		L4002	NQL144K-100X	P COIL	10uH K	
R3715	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J		L4003	NQL144K-100X	P COIL	10uH K	
R3716	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L4005	NQL144K-100X	P COIL	10uH K	
R3717	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L4011	NQL144K-100X	P COIL	10uH K	
R3718	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L4012	NQL904J-R47X	COIL	0.47uH J	
R3719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L4013	NQL904J-R47X	COIL	0.47uH J	
R3720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN1001	QGF1211F2-08W	CONNECTOR	FFC/FPC (1-8)	
R3721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN1501	QGF0503C3-20W	CONNECTOR	FFC/FPC (1-20)	
R3722	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		CN1502	QGF0503F8-15X	CONNECTOR	FFC/FPC (1-15)	
R3723	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN1503	QGF1016F8-07W	CONNECTOR	FFC/FPC (1-7)	
R3724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN2001	QGB0801L1-26X	CONNECTOR	B-B (1-26)	
R3725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN2002	QGA2001C6-06X	CONNECTOR	W-B (1-6)	
R3726	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		CN3501	QGF1016F8-07W	CONNECTOR	FFC/FPC (1-7)	
R3727	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		CN3701	QGF1016F8-08W	CONNECTOR	FFC/FPC (1-8)	
R3728	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		CN4001	QGF0503C2-08W	CONNECTOR	FFC/FPC (1-8)	
R4001	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K1001	NQR0129-002X	FERRITE BEADS		
R4002	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		K2101	NQR0006-001X	FERRITE BEADS		
R4003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K3101	NQR0129-002X	FERRITE BEADS		
R4004	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J		K4001	NQR0129-002X	FERRITE BEADS		
R4005	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J		LC1002	NQR0388-019X	EMI FILTER		
R4006	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J		LC1003	NQR0388-019X	EMI FILTER		
R4007	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J		LC1004	NQR0388-019X	EMI FILTER		
R4008	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		LC3101	NQR0150-004X	EMI FILTER		
R4009	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		SD1	LP30467-001A	SHIELD COVER		
R4010	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		X1501	NAX0204-001X	CRYSTAL	16.000MHz	
R4021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		X2003	NAX0206-001X	CRYSTAL	24.576MHz	
R4031	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		X3101	NAX0218-001X	CRYSTAL	27.000MHz	
R4032	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		OT1	QNZ0136-001Z	EARTH PLATE	(x4)	
R4033	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J						
R4034	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J						
R4035	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J						
R4036	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J						
R4037	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J						
R4038	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J						
R4039	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J						
R4040	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J						
R4041	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J						
R4042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R4043	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J						
RA1505	NRZ0040-102X	NET RESISTOR	1kΩ 1/16W J x4						
RA1509	NRZ0040-102X	NET RESISTOR	1kΩ 1/16W J x4						

Junction board

Block No. [9][2]

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10268-04B2	JUNCTION BOARD ASSY		
IC5502	MM1565AF-X	IC		
IC5505	MM1563DF-X	IC		
IC5506	MPD4S010	IC(HYBRID)		
IC8001	RC4558D-X	IC		
IC8001	or BA15218F-XE	IC		
IC8002	AK5357ET-X	IC		
IC8002	or AK5357VT-X	IC		
IC8201	RC4558D-X	IC		
IC8201	or BA15218F-XE	IC		
IC8202	AK4385ET-X	IC		
IC8202	or AK4385VT-X	IC		
Q5501	2SD601A/QRS/-X	TRANSISTOR		
Q5501	or 2SC2412K/QRS/-X	TRANSISTOR		
Q5501	or 2SC3928A/QRS/-X	TRANSISTOR		
Q5502	UN2111-X	TRANSISTOR		
Q5502	or DTA114EKA-X	DIGI TRANSISTOR		
Q5502	or RT1P141C-X	DIGI TRANSISTOR		
Q5503	2SD2144S/UV/-T	TRANSISTOR		
Q5503	or 2SC3576-JVC-T	TRANSISTOR		
Q5504	UN2211-X	TRANSISTOR		
Q5504	or DTC114EKA-X	DIGI TRANSISTOR		
Q5504	or RT1N141C-X	DIGI TRANSISTOR		
Q5505	UN2111-X	TRANSISTOR		
Q5505	or DTA114EKA-X	DIGI TRANSISTOR		
Q5505	or RT1P141C-X	DIGI TRANSISTOR		
Q5506	UN2211-X	TRANSISTOR		
Q5506	or DTC114EKA-X	DIGI TRANSISTOR		
Q5506	or RT1N141C-X	DIGI TRANSISTOR		
Q5507	2SD1858/QR/-T	TRANSISTOR		
Q5508	2SA1585S/QR/-T	TRANSISTOR		
Q5509	2SA1585S/QR/-T	TRANSISTOR		
Q5510	UN2211-X	TRANSISTOR		
Q5510	or DTC114EKA-X	DIGI TRANSISTOR		
Q5510	or RT1N141C-X	DIGI TRANSISTOR		
Q7101	2SB709A/QR/-X	TRANSISTOR		
Q7101	or 2SA1037AK/QR/-X	TRANSISTOR		
Q7101	or 2SA1530A/QR/-X	TRANSISTOR		
Q8001	2SC2412K/QRS/-X	TRANSISTOR		
Q8001	or 2SD601A/QRS/-X	TRANSISTOR		
Q8001	or 2SC3928A/QRS/-X	TRANSISTOR		
Q8002	2SC2412K/QRS/-X	TRANSISTOR		
Q8002	or 2SD601A/QRS/-X	TRANSISTOR		
Q8002	or 2SC3928A/QRS/-X	TRANSISTOR		
Q8003	DTC144WKA-X	DIGI TRANSISTOR		
Q8003	or UN221E-X	TRANSISTOR		
Q8003	or RT1N44HC-X	DIGI TRANSISTOR		
Q8004	DTC144WKA-X	DIGI TRANSISTOR		
Q8004	or UN221E-X	TRANSISTOR		
Q8004	or RT1N44HC-X	DIGI TRANSISTOR		
Q8005	DTA144WKA-X	TRANSISTOR		
Q8005	or UN211E-X	DIGI TRANSISTOR		
Q8005	or RT1P44HC-X	DIGI TRANSISTOR		
D5501	10EDB20-T2	SI DIODE		
D5501	or ERA15-02-T2	SI DIODE		
D5502	1SS133-T2	SI DIODE		
D5502	or 1SS270A-T2	SI DIODE		
D5503	MTZJ27C-T2	Z DIODE		
D5504	MTZJ5.6C-T2	Z DIODE		
D5508	1SS133-T2	SI DIODE		
D5508	or 1SS270A-T2	SI DIODE		
D5514	MTZJ7.5C-T2	Z DIODE		
C5504	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5505	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5506	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5513	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5514	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C5515	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5516	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5518	QEC51CM-477	E CAPACITOR	470uF 16V M	

△ Symbol No.	Part No.	Part Name	Description	Local
C5519	QEC51CM-477	E CAPACITOR	470uF 16V M	
C5521	QEC51CM-477	E CAPACITOR	470uF 16V M	
C5523	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C5526	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C5527	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C5535	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C7123	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C7124	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J	
C7141	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C7142	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C7143	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C8001	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8003	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8005	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8007	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8009	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C8010	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C8011	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8012	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8013	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8014	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8015	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8016	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8051	QETN0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8052	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C8053	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8054	QETN0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8055	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8056	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C8057	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C8201	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C8202	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8203	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8204	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8205	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8206	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C8207	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C8208	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C8209	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8210	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8231	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8232	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
R5501	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	
R5502	QRE121J-271Y	C RESISTOR	270Ω 1/2W J	
R5503	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R5504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5505	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R5506	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R5507	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R5508	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R5510	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R5511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5512	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R5513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5514	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R7101	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R7102	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7147	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7148	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7149	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7150	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7152	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R7153	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R8001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8002	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8003	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8009	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8010	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8011	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8012	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8013	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R8014	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		W12	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8015	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		W13	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8016	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		W14	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8017	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		W15	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8018	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		W16	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8019	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		W17	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8051	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		W18	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		W19	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8201	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		W20	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8202	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		W21	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8203	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D		W22	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8204	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J		W23	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8205	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J		W24	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8206	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D		W25	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8207	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D		W26	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8208	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J		W27	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8209	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J						
R8210	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D						
R8211	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J						
R8212	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J						
R8213	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J						
R8214	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J						
R8215	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J						
R8216	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J						
R8217	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R8219	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J						
R8220	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J						
R8221	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J						
R8222	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J						
R8231	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R8232	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R8233	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
L7101	QQL29BJ-100Z	P COIL	10uH J						
L7102	QQL071J-6R8Y	COIL	6.8uH J						
L8001	QQL29BJ-220Z	P COIL	22uH J						
L8002	QQL29BJ-220Z	P COIL	22uH J						
B7101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
B7107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
B7112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
B7118	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
CN5501	QGF1208C1-19	CONNECTOR	FFC/FPC (1-19)						
CN5502	QGA2001C1-06	CONNECTOR	W-B (1-6)						
CN5504	QGA2501C1-04	CONNECTOR	W-B (1-4)						
CN7102	QGB1231M1-19	CONNECTOR	B-B (1-19)						
CN7106	QGF1040C1-04	CONNECTOR	FFC/FPC (1-4)						
CN7107	QGF1207C1-09	CONNECTOR	FFC/FPC (1-9)						
CN7108	QGB2027M3-28S	CONNECTOR	B-B (1-28)						
CN7109	QGB2027M4-20S	CONNECTOR	B-B (1-20)						
CN7121	QGB2027M9-14	CONNECTOR	B-B (1-14)						
CN7123	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)						
CN7124	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)						
CN7126	QGA2001C1-06	CONNECTOR	W-B (1-6)						
CN7127	QGA2001C1-06	CONNECTOR	W-B (1-6)						
CN8001	QGB1231M1-11	CONNECTOR	B-B (1-11)						
K4111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
K4112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
K4113	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
K4114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
K7101	NQR0129-002X	FERRITE BEADS							
K7102	NQR0129-002X	FERRITE BEADS							
K7103	NQR0129-002X	FERRITE BEADS							
K7104	NQR0129-002X	FERRITE BEADS							
K8001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
K8002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
K8201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
K8202	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J						
KA4113	NQR0577-001X	NOISE FILTER							
KA4114	NQR0577-001X	NOISE FILTER							
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
W6	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
W7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
W8	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
W9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
W10	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
W11	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						

Rear jack board

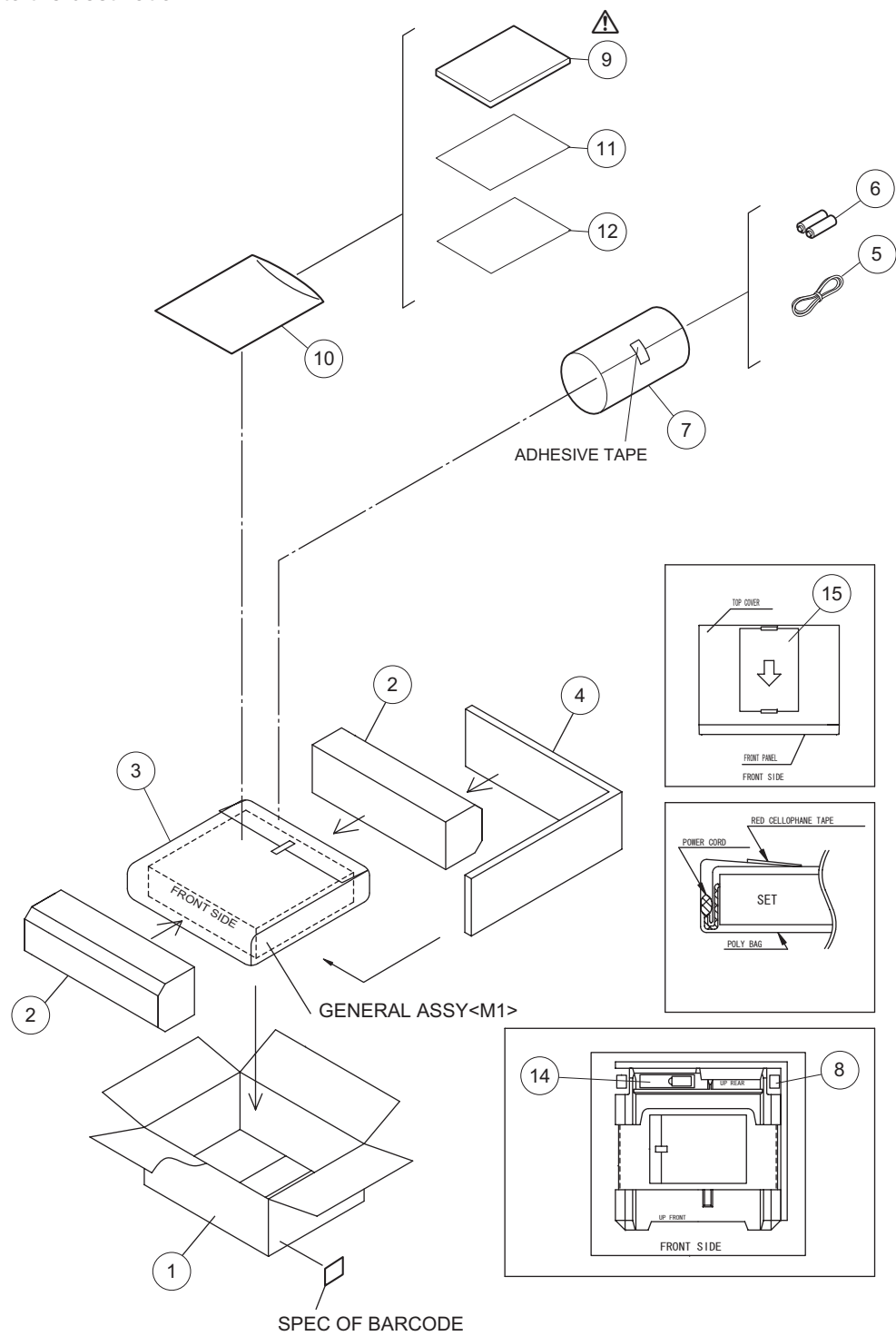
Block No. [9][4]

△ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10268-04B6	REAR JACK BOARD ASSY		
IC851	SN74LV08APW-X	IC		
C851	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C852	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C853	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M	
C854	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C855	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C856	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C951	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C952	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C953	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C954	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C955	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C956	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
R851	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R852	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R853	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R854	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R855	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R856	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R877	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R951	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R952	NRSA63D-750X	MG RESISTOR	75Ω 1/16W D	
R954	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R955	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
L851	QQL071J-1R0Y	COIL	1uH J	
L952	QQL071J-100Y	COIL	10uH J	
L953	QQL071J-100Y	COIL	10uH J	
CN852	QGD2503C1-03	CONNECTOR	(1-3)	
CN951	QGF1207C1-08	CONNECTOR	FFC/FPC (1-8)	
J852	QNN0096-001	PIN JACK	COAXIAL	
J951	QND0076-001	S JACK	S-VIDEO OUT	
J952	QNN0678-002	PIN JACK	AUDIO OUT	
K853	NQR0227-004X	FERRITE BEADS		

Packing materials and accessories parts list

Block No. M3MM

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



Packing and accessories

Block No. [M][3][M][M]

△ Symbol No.	Part No.	Part Name	Description	Local
1	LP31452-004A	PACKING CASE		EK
1	LP31452-003A	PACKING CASE		EL,EU,EY,EZ
2	LP31454-001A	CUSHION ASSY		
3	PQM30021-105	POLY BAG		
4	LP31561-002A	SHEET		
5	QAM0503-002	RF CABLE		
6	-----	BATTERY	R6 TYPE(x2)	
7	QPC02202230P	POLY BAG	CABLE	
8	QAM0502-002	PERI CABLE		
△ 9	LPT1101-001A	INST BOOK	(ENGLISH)	EK
△ 9	LPT1100-005A	INST BOOK	(SPANISH)	EL
△ 9	LPT1100-011A	INST BOOK	(PORTUGUESE)	EL
△ 9	LPT1100-002A	INST BOOK	(GERMANY)	EU,EY
△ 9	LPT1100-003A	INST BOOK	(FRENCH)	EU,EY
△ 9	LPT1100-004A	INST BOOK	(DUTCH)	EU,EY
△ 9	LPT1100-006A	INST BOOK	(ITALIAN)	EU,EY
△ 9	LPT1100-012A	INST BOOK	(CZECH)	EZ
△ 9	LPT1100-013A	INST BOOK	(POLISH)	EZ
△ 9	LPT1100-014A	INST BOOK	(HUNGARIAN)	EZ
10	QPC02503530P	POLY BAG	INST	EL,EU,EY,EZ
11	LYT0194-001B	Q.CARD		EK
12	-----	WARRANTY CARD	BT-54027-1	
14	RM-SDR022E-1	REMOCON UNIT		
15	LPT1012-001A	SHEET(LOADING)		