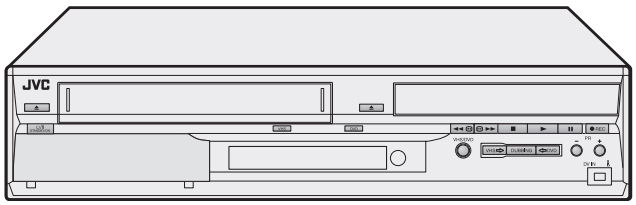
JVC

SERVICE MANUAL

DVD VIDEO RECORDER & VIDEO CASSETTE RECORDER

DR-MV5BEK, DR-MV5SEK



DR-MV5BEK, DR-MV5SEK [D5RV21]

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).

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No.YD075
2005/8

SPECIFICATION

GENERAL	
Power requirement	AC 220 V - 240V, 50/60 Hz
Power consumption	
Power on	38W
Power off	7.0W
Temperature	
Operating	5°C to 35°C
Storage	-20°C to 60°C
Operating position	Horizontal only
Dimensions (W × H × D)	435 mm x 96 mm x 344 mm
Weight	5.8 kg
Input/Output	
Video input	1.0 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 x 1, IN/DECODER x 1
Input/Output (DVD Deck Only)	
S-video input	Y: 1.0 Vp-p, 75 Ω, C: 0.300 Vp-p, 75 Ω
i.Link	4-pin for DV input
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	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 (VHS Deck)	
Signal system	PAL colour signal and CCIR monochrome signal, 625 lines/50 fields
Recording system	DA4 (Double Azimuth) head helical scan system
Format	VHS PAL standard
Maximum recording time	
(SP)	180 min. with E-180 video cassette
(LP)	360 min. with E-180 video cassette
Signal-to-noise ratio	45 dB
Horizontal resolution	230 lines
Frequency range	70 Hz to 10,000 Hz (Normal audio) 20 Hz to 20,000 Hz (Hi-Fi audio)
TUNER/TIMER	
TV channel storage capacity	99 positions (+AUX position)
Tuning system	Frequency synthesized tuner
Channel coverage	VHF 47 MHz - 143 MHz/143 MHz - 470 MHz, UHF 470 MHz - 862 MHz
Memory backup time	Approx. 10 minutes
ACCESSORIES	
Provided accessories	RF cable, 21-pin SCART cable, Infrared remote control unit, "AA" battery x 2

- Specifications shown are for SP mode unless otherwise specified.
- E.& O.E. Design and specifications subject to change without notice.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.
- i.LINK (i.Link) refers to the IEEE1394-1995 industry specification and extensions thereof. The i.LINK logo is used for products compliant with the i.Link standard.

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.

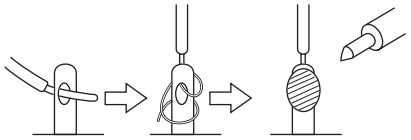


Fig.1-1-1

(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.

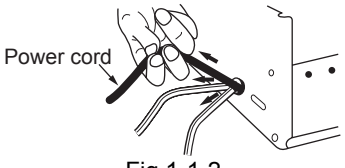


Fig.1-1-2

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

- **Connector part number** :E03830-001
- **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
- **Replacement procedure**

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

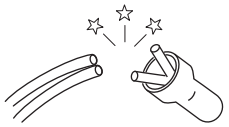


Fig.1-1-3

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.

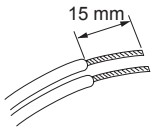


Fig.1-1-4

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

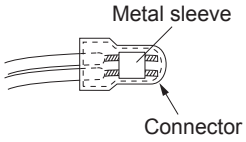


Fig.1-1-5

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.

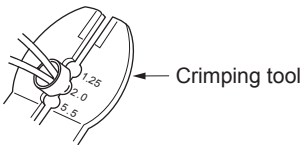


Fig.1-1-6

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

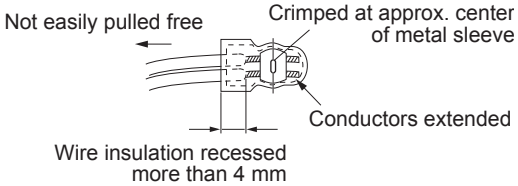


Fig.1-1-7

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.

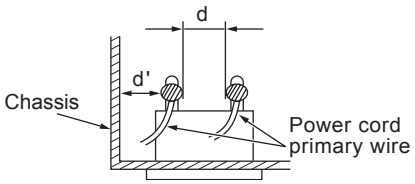


Fig.1-1-8

(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.

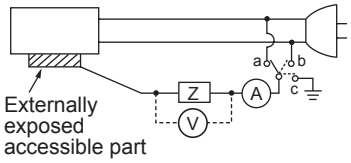
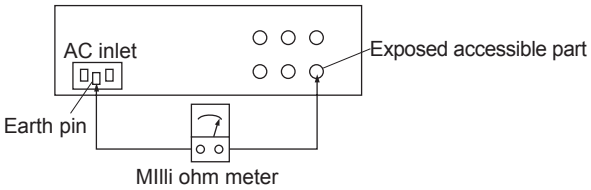


Fig.1-1-9

(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 ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

Fig.1-1-10

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

Fig.1-1-11

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Fig.1-1-12

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

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 Different table of features

The following table indicates main different points between models DR-MV5BEK and DR-MV5SEK.

ITEM	DR-MV5BEK	DR-MV5SEK
BODY COLOUR	BLACK	PURE SILVER

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, DVD unit, switching regulator, digital, 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.

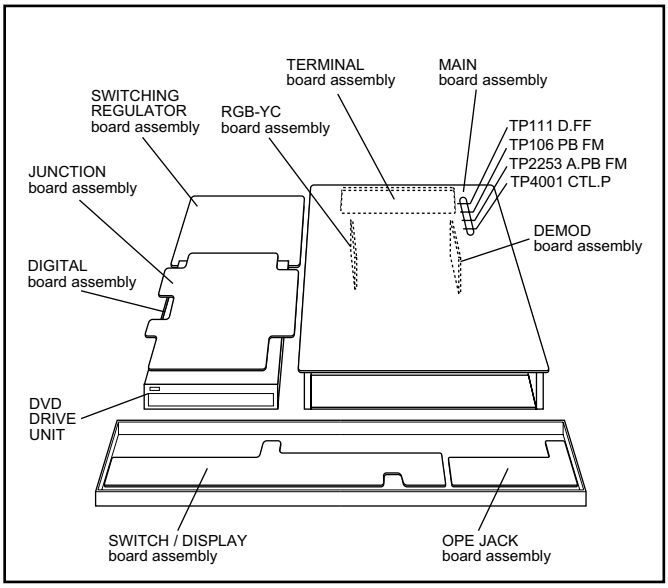


Fig.2-2a

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.**

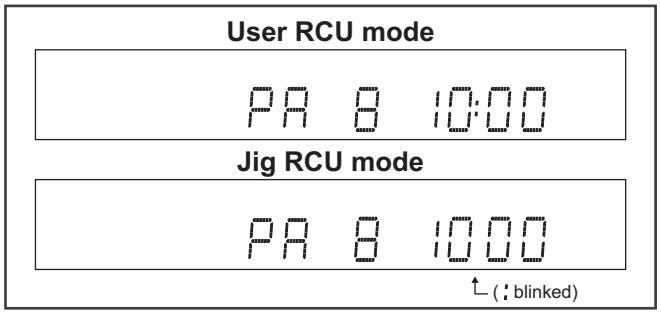


Fig.2-3a User/Jig RCU mode

2.3.1 Changing Remote Control Code

(1) Slide the TV/DVD switch to DVD.

(2) Press the number button "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."

Note:

- **When "POWER SAVE " is set to "ON", it is not possible to change the remote code.**

2.3.2 Setting the Jig RCU mode

<Method 1>

(1) Turn on the power.

(2) Press the "VHS/DVD" button repeatedly on the unit so that the VHS lamp lights up on the unit.

(3) Press the following remocon 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.2-2a)

<Method 2>

(1) Unplug the power cord plug from the power outlet.

(2) Press and hold the "REC" and "PAUSE" buttons on the unit simultaneously, while plugging the power cord plug into the power outlet.
When the unit is set to the Jig RCU mode, the symbols (" : ") in the time display of the FDP are blinked.

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.

2.4 Mechanism service mode

This model has a unique function to enter the mechanism into every operation mode without loading of any cassette tape. This function is called the "Mechanism service mode".

2.4.1 How to set the "Mechanism service mode"

(1) Set the unit to the Jig RCU mode (the mode in which codes from the Jig RCU can be received)

(2) Transmit the code "43-E5" from the Jig RCU.

(3) Release the lug of the Cassette holder and then slide the Cassette holder toward the direction where the Cassette holder is loaded by manually.

(4) The cassette holder lowers and, when the loading has completed, the mechanism enters the desired mode.
When the unit is set to the Mechanism service mode, the symbols ("TIMER" or "HDD") in the FDP (LED) are turned on.

2.4.2 How to exit from the "Mechanism service mode"

(1) Unplug the power cord plug from the power outlet.

2.5 Maintenance and inspection

2.5.1 Cleaning

Regular cleaning of the transport system parts is desirable but practically impossible. So make it a rule to carry out cleaning of the tape transport system whenever the machine is serviced.
When the video head, tape guide and/or brush get soiled, the playback picture may appear inferior or at worst disappear, resulting in possible tape damage.

Note:

- **Absolutely avoid sweeping the upper drum vertically as this will cause damage to the video head.**

(1) When cleaning the upper drum (especially the video head), soak a piece of closely woven cloth with alcohol and while holding the cloth onto the upper drum by the fingers, turn the upper drum counterclockwise.

(2) To clean the parts of the tape transport system other than the upper drum, use a piece of closely woven cloth or a cotton swab soaked with alcohol.

(3) After cleaning, make sure that the cleaned parts are completely dry before using the cassette tape.

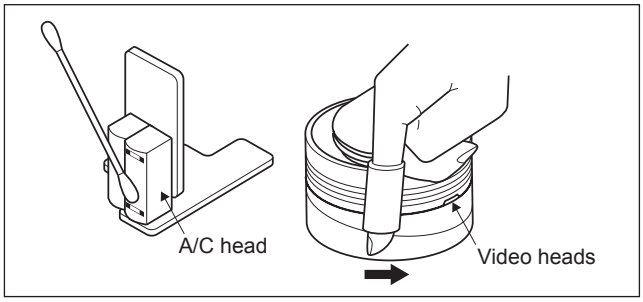


Fig.2-5a

2.5.2 Lubrication

With no need for periodical lubrication, you have only to lubricate new parts after replacement. If any oil or grease on contact parts is soiled, wipe it off and newly lubricate the parts.

Note:

- **See the "mechanism assembly" diagram of the "parts list" for the lubricating or greasing spots, and for the types of oil or grease to be used.**

2.5.3 Suggested servicing schedule for main components

The following table indicates the suggested period for such service measures as cleaning, lubrication and replacement. In practice, the indicated periods will vary widely according to environmental and usage conditions. However, the indicated components should be inspected when a set is brought for service and the maintenance work performed if necessary. Also note that rubber parts may deform in time, even if the set is not used.

System	Parts name	Operation hours	
		1000H	2000H
Tape transport	Drum assembly	C,X	X
	A/C head	C,X	C,X
	Pinch roller arm assembly	C	C
	Full erase head	C	C
	Tension arm assembly	C	C
	Capstan motor (Shaft)	C	C
	Guide arm assembly	C	C
Drive	Capstan motor		X
	Capstan brake assembly		X
	Main brake assembly		X
	Belt (Capstan)	X	X
	Loading motor		X
	Clutch unit		X
	Worm gear		X
	Control plate		X
Other	Rotary encoder		X

C : Cleaning
X : Inspection or Replacement if necessary

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	⇔	Switch/jack	CN7201	9
WR2b	Main	CN3102	⇔	Display/switch	CN7001	15
WR3a	Main	CN2001	⇔	A/C head		6
WR3b	Drum assembly		⇔	Main	CN1	9
WR4a	DVD unit		⇔	Digital	CN2201	40
WR4b	DVD unit		↔	Junction	CN5503	4
WR5a	Junction	CN7110	⇔	Digital	CN1103	17
WR5b	Junction	CN7109	⬌	Digital	CN1102	15
WR5c	Junction	CN7108	⬌	Digital	CN1101	15
WR5d	Junction	CN7121	⬌	Digital	CN1801	9
WR6a	Main	CN3103	⬌	Junction	CN7102	19
WR6b	Main	CN2601	⬌	Junction	CN8001	11
WR6c	Junction	CN7123	⇔	Main	CN501	4
WR6d	Junction	CN7107	⇔	Main	CN7111	13
WR6e	SW.REG	CN5304	⬌	Junction	CN5501	19
WR7a	SW.REG	CN5301	⬌	Main	CN5311	19
WR7b	SW.REG	CN5302	↔	Fun motor		2

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	3-1a	4(S1a),(S1b),3(L1a), 2(SD1a),(P1a),(W1a), CN1(WR1a),	<Note 1a>
	Bracket		2(S1c)	

(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	3-1d	6(S1a)	
[2]	Front panel assembly (Switch/jack board assembly) (Display/switch board assembly)	3-1a, 3-1d	(S2a),(S2b),3(L2a),5(L2b) CN3104(WR2a), CN3102(WR2b),(WR2c),(WR2d)	<Note2a> <Note2b>
[3]	Mechanism assembly (Drum assembly)	3-1b, 3-1c, 3-1d	CN2001(WR3a), 3(S3a) CN(WR3b) (S3c),(S3d),(S3e)	<Note2a> <Note3a> <Note3b> <Note3c>
[4]	DVD unit (Bracket)	3-1d	4(S4a),4(S4b) (WR4a),(WR4b)	<Note2a>
[5]	Digital board assembly (Shield cover)	3-1d	4(S5a),4(S5b) CN7100(WR5a),CN1102(WR5b), CN1101(WR5c),CN1801(WR5d)	<Note2a>
[6]	Junction board assembly	3-1d	(S6a),CN3103(WR6a), CN2601(WR6b),CN7123(WR6c), CN7107(WR6d),CN5304(WR6e)	<Note2a>
[7]	Switching regulator board assembly	3-1d	4(S7a),CN5301(WR7a), CN5302(WR7b)	<Note2a>
[8]	Rear cover	3-1d	2(S8a),7(S8b),(S8c),3(L8a)	
[9]	Main board assembly	3-1d	2(S9a)	

<Note 2a>

- 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.

<Note 2b>

- When reattaching the Front panel assembly, make sure that the door opener of the Side frame (R) is lowered in position prior to the reinstallation.
- When reattaching the Front panel assembly, pay careful attention to the switch lever of the Front panel assembly not to make it touch the switch knob of the Main board assembly from the side.
- When reattaching the Front panel assembly, lift the Cassette door slightly.

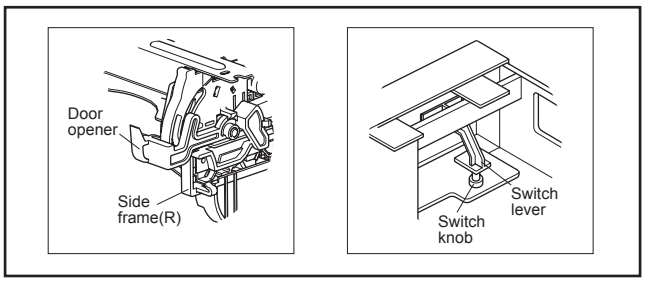


Fig.3-1a

<Note 3a>

- When reattaching the Mechanism assembly, secure the screws (S3a to S3b) in the order of 1,2,3.
- When reattaching the Mechanism assembly, be sure to align the phase of the Rotary encoder on the Main board assembly.
- When reattaching the Mechanism assembly, set the “Mechanism assembling mode”. [See “MECHANISM ASSEMBLY SERVICE MANUAL (No. 86700)”.]

• When reattaching the Mechanism assembly to the Main board assembly, take care not to damage the sensors and switch on the Main board assembly.

<Note 3b>

• When reattaching the Drum assembly, secure the screws (S3c to S3e) in the order of c, d, e.

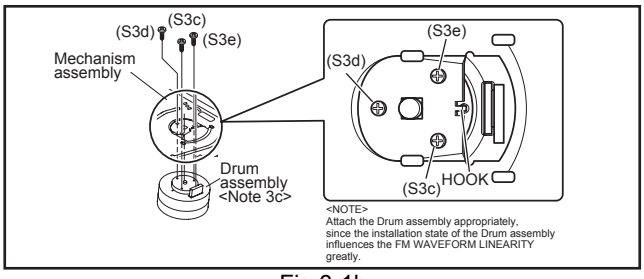


Fig.3-1b

• When handling the drum assembly alone, hold it by the motor or shaft. Be careful not to touch other parts, especially the video heads. Also take care not to damage the connectors.

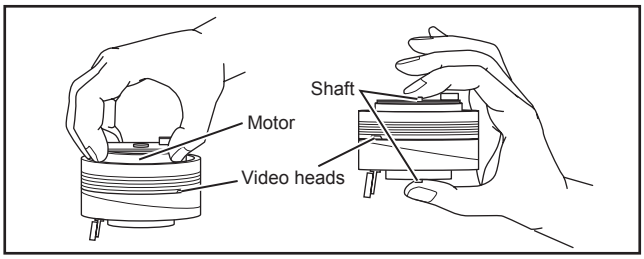


Fig.3-1c

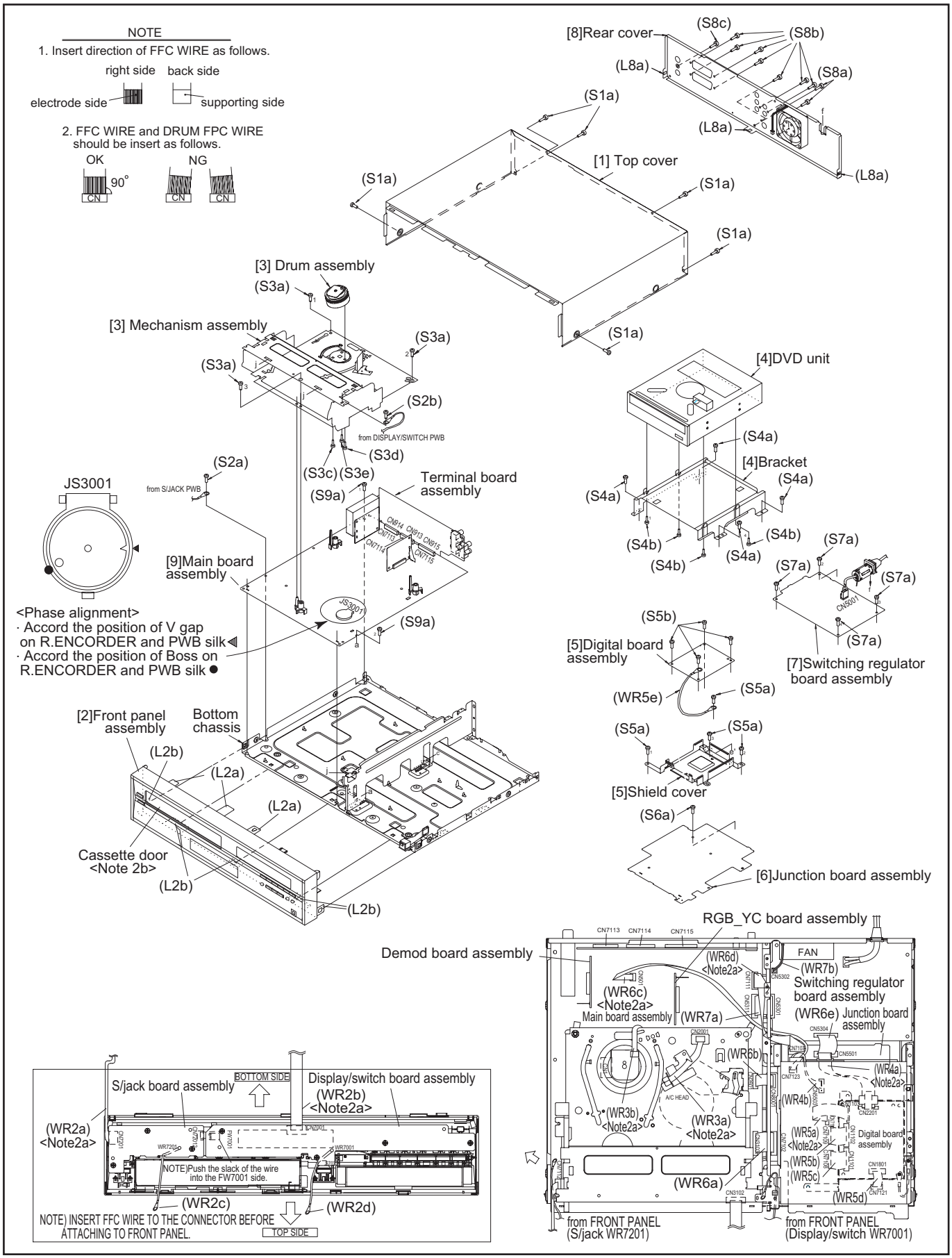

NOTE
1. Insert direction of FFC WIRE as follows.
right side
back side
electrode side
supporting side
2. FFC WIRE and DRUM FPC WIRE should be insert as follows.
OK
NG
90°
[8]Rear cover
(S8c)
(S8b)
(S8a)
(L8a)
[1] Top cover
(S1a)
[3] Drum assembly
(S3a)
[3] Mechanism assembly
(S2b)
from DISPLAY/SWITCH PWB
(S3d)
(S3c)
(S3e)
(S2a)
from S/JACK PWB
JS3001
Terminal board assembly
(S9a)
[9]Main board assembly
<Phase alignment>
· Accord the position of V gap on R.ENCORDER and PWB silk
· Accord the position of Boss on R.ENCORDER and PWB silk
[4]DVD unit
(S4a)
[4]Bracket
(S4b)
(S7a)
CN5201
[7]Switching regulator board assembly
(S5b)
[5]Digital board assembly
(WR5e)
(S5a)
[5]Shield cover
(S6a)
[6]Junction board assembly
[2]Front panel assembly
Bottom chassis
(L2b)
(L2a)
Cassette door
<Note 2b>
RGB_YC board assembly
Demod board assembly
FAN
(WR6d)
<Note2a>
(WR7b)
Switching regulator board assembly
(WR6c)
<Note2a>
Main board assembly
(WR7a)
(WR6e)
Junction board assembly
(WR6b)
(WR4a)
<Note2a>
(WR4b)
(WR3b)
<Note2a>
(WR3a)
<Note2a>
(WR5a)
<Note2a>
Digital board assembly
(WR5b)
(WR5c)
(WR6a)
(WR5d)
from FRONT PANEL
(S/jack WR7201)
from FRONT PANEL
(Display/switch WR7001)
S/jack board assembly
BOTTOM SIDE
Display/switch board assembly
(WR2b)
<Note2a>
(WR2a)
<Note2a>
NOTE)Push the slack of the wire into the FW7001 side.
(WR2c)
(WR2d)
NOTE) INSERT FFC WIRE TO THE CONNECTOR BEFORE ATTACHING TO FRONT PANEL.
TOP SIDE

Fig.3-1d

SECTION 4
ADJUSTMENT

4.1 Before adjustment

4.1.1 Precaution

- **The adjustments of this unit include the mechanism compatibility and electrical adjustments. During the performance of this work, be sure to observe the precautions for each type of adjustment.**
- **If there is a reference to a signal input method in the signal column of the adjustment chart, "Ext. S-input" means the Y/C separated video signal and "Ext. input" means the composite video signal input.**
- **Unless otherwise specified, all measuring points and adjustment parts are located on the Main board.**

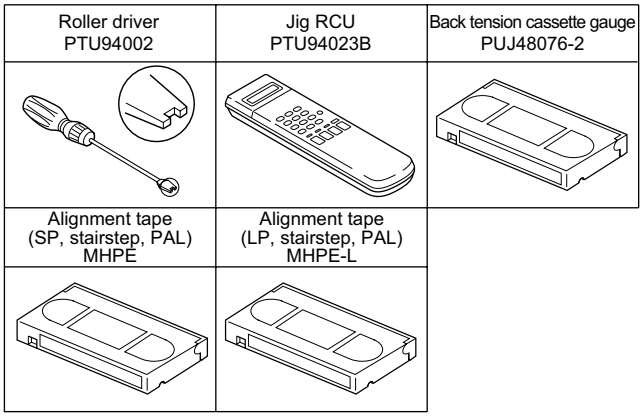
4.1.2 Required test equipments

- Color (colour) television or monitor
- Oscilloscope: wide-band, dual-trace, triggered delayed sweep
- Signal generator: RF / IF sweep / marker
- Signal generator: stairstep, color (colour) bar [PAL]
- Recording tape
- Digit-key remote controller(provided)

4.1.3 Required adjustment tools

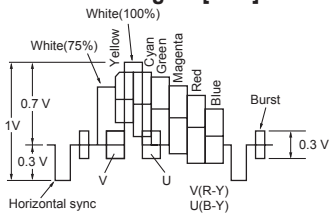
● : Used --- : Not used

	Mechanism compatibility adjustment	Electrical adjustment
Roller driver	●	---
Jig RCU	---	●
Back tension cassette gauge	●	---
Alignment tape(MHPE)	●	---
Alignment tape(MHPE-L)	●	●

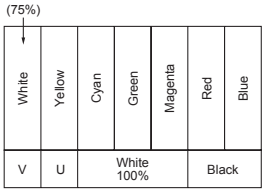


4.1.4 Color (colour) bar signal,Color (colour) bar pattern

• Colour bar signal [PAL]



• Colour bar pattern [PAL]



4.1.5 Switch settings

When adjusting this unit, set the VCR mode and switches as described below.

- When using the Jig RCU, it is required to set the VCR to the Jig RCU mode (the mode in which codes from the Jig RCU can be received). (See "section 2 SPECIFIC SERVICE INSTRUCTIONS".)

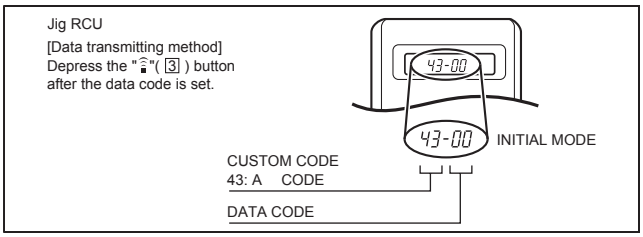


Fig.4-1a Jig RCU [PTU94023B]

- Set the switches as shown below unless otherwise specified on the relevant adjustment chart. The switches that are not listed below can be set as desired.
  If the VCR is not equipped with the functions detailed below, setup is not required.

AUTO PICTURE/VIDEO CALIBRATION/ B.E.S.T./D.S.P.C.	OFF
PICTURE CONTROL/SMART PICTURE	NORMAL/NATURAL
VIDEO STABILIZER	OFF
TBC	ON
Digital 3R	ON
VIDEO NAVIGATION/TAPE MANAGER	OFF
BLUE BACK	OFF

4.1.6 Manual tracking mode (Auto tracking ON/OFF) setting

(1) In order to set to the manual tracking mode during tape playback, press PR + or - on the unit simultaneously to active manual tracking.
  • When the manual tracking mode is set, the tracking is placed at the center position.

(2) Press PR + or - to adjust the tracking manually.+/-" to adjust the tracking manually.
  • To return to automatic tracking, press PR + or - simultaneously or eject and insert the tape again.

4.1.7 EVR Adjustment

Some of the electrical adjustments require the adjustment performed by the EVR system. The main unit have EEPROMs for storing the EVR adjustment data and user setups.

Notes:

- **In the EVR adjustment mode, the value is varied with the channel buttons (+, -). The adjusted data is stored when the setting mode changes (from PB to STOP, when the tape speed is changed, etc.). Take care to identify the current mode of each adjustment item when making an adjustment.**
- **When changing the address setting in the EVR adjustment mode, use the Jig RCU or the remote controller having numeric keypad with which a numeric code can be directly input.**
  The remote control code of the Jig RCU corresponds to each of the digit keys on the remote controller as follows.

Digit-key	0	1	2	3	4	5	6	7	8	9
Code	20	21	22	23	24	25	26	27	28	29

- **As the counter indication and remaining tape indication are not displayed FDP during the EVR adjustment mode, check them on the TV monitor screen.**
- **When performing the EVR adjustment, confirm that the FDP indication is changed to the EVR mode, as shown below.**

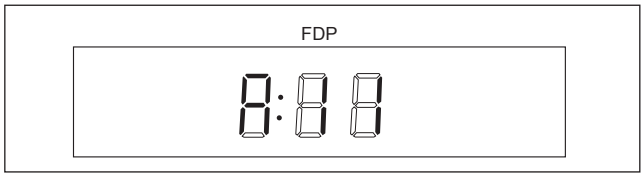


Fig.4-1b EVR mode

4.2 Mechanism compatibility adjustment

Notes:

- **Although compatibility adjustment is very important, it is not necessary to perform this as part of the normal servicing work. It will be required when you have replaced the A/C head, drum assembly or any part of the tape transport system.**
- **To prevent damaging the alignment tape in the compatibility adjustment, prepare a cassette tape (for self-recording/playback), perform a test on it by transporting it and making sure that the tape is not bent by the tape transport mechanisms such as in the guide rollers.(See Fig.4-2b.)**

4.2.1 Tension pole position

Notes:

- **This adjustment must be performed every time the tension band is replaced.**

Signal	(A)	• Back tension cassette gauge [PUJ48076-2]
Mode	(B1) (B2)	• PB • Eject end
Adjustment part	(F)	• Adjust pin [Mechansim assembly]
Specified value	(G)	• 25 - 51 gf•cm (2.45 - 5 x 10^{-3} Nm)

(1) Play back the back tension cassette gauge (A).
(2) Check that the indicated value on the left side gauge is within the specified value (G).
(3) If the indicated value is not within the specified value (G), perform the adjustment in a following procedure.(See Fig.4-2a.)
   a) Remove the top frame, cassette holder and side frames (L/R) all together. (Refer to the SERVICE MANUAL No.86700 [MECHANISM ASSEMBLY].)
   b) Rotate the loading motor gear to move the control plate so that the triangular stamping to the left of the "P"stamping is aligned with the stamping (a) on the main deck. This positioning is mode (B1).
   c) Adjust by turning the adjustment pin so that the tip of the tension arm is aligned with the stamping (b) on the main deck.
   d) Rotate the reel disk (S) by about one turn clockwise and make sure that the round hole of the adjustment pin is located in the "OK" range. If it is outside this range, restart the adjustment from the beginning.

   After completion of the adjustment, rotate the loading gear motor to return it to the mode (B2) position.

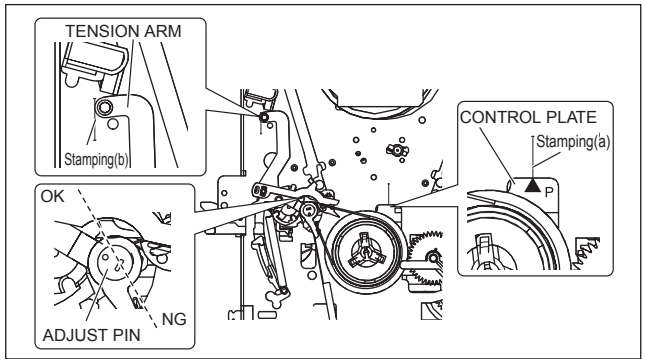


Fig.4-2a

4.2.2 FM waveform linearity

Signal	(A1) (A2)	• Alignment tape(SP, stairstep, PAL) [MHPE] • Alignment tape(LP, stairstep, PAL) [MHPE-L]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• TP106 (PB. FM)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• Guide roller [Mechanism assembly]
Specified value	(G)	• Flat V.PB FM waveform
Adjustment tool	(H)	• Roller driver [PTU94002]

(1) Play back the alignment tape (A1).
(2) Apply the external trigger signal to D.FF (E), to observe the V.PB FM waveform at the measuring point (D).
(3) Set the VCR to the manual tracking mode.
(4) Make sure that there is no significant level drop of the V.PB FM waveform caused by the tracking operation, with its generally parallel and linear variation ensured. Perform the following adjustments when required. (See Fig. 4-2c.)
(5) Reduce the V.PB FM waveform by the tracking operation. If a drop in level is found on the left side, turn the guide roller of the pole base assembly (supply side) with the roller driver to make the V.PB FM waveform linear.
   If a drop in level is on the right side, likewise turn the guide roller of the pole base assembly (take-up side) with the roller driver to make it linear. (See Fig. 4-2c.)
(6) Make sure that the V.PB FM waveform varies in parallel and linearly with the tracking operation again. When required, perform fine-adjustment of the guide roller of the pole base assembly (supply or take-up side).
(7) Unload the cassette tape once, play back the alignment tape (A1) again and confirm the V.PB FM waveform.
(8) After adjustment, confirm that the tape wrinkling does not occur at the roller upper or lower limits. (See Fig. 4-2b.) [Perform adjustment step (9) only for the models equipped with SP mode and EP (or LP) mode.]

   [Perform adjustment step (9) only for the models equipped with SP mode and EP (or LP) mode.]
(9) Repeat steps (1) to (8) by using the alignment tape (A2).

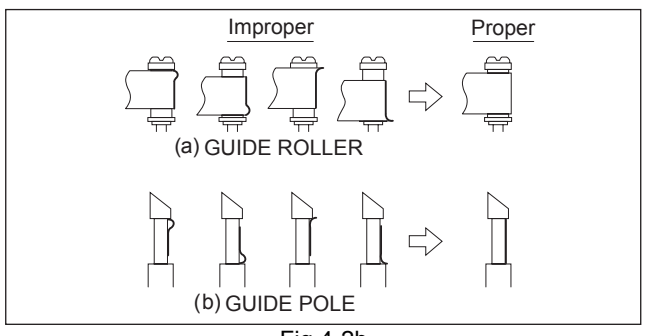


Fig.4-2b

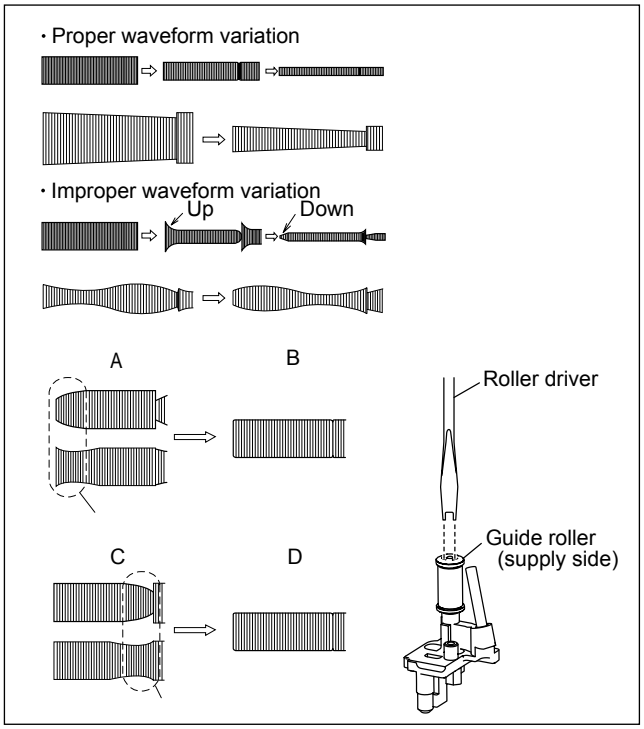


Fig.4-2c

4.2.3 Height and tilt of the A/C head

Note:

- **Set a temporary level of the height of the A/C head in advance to make the adjustment easier after the A/C head has been replaced. (Refer to the SERVICE MANUAL No.86700 [MECHANISM ASSEMBLY].)**

Signal	(A)	• Alignment tape(SP, stairstep, PAL) [MHPE]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D1) (D2)	• TP106 (PB. FM) • TP4001 (CTL. P)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• A/C head [Mechanism assembly]
Specified value	(G)	• Maximum waveform

(1) Play back the alignment tape (A).
(2) Apply the external trigger signal to D.FF (E), to observe the AUDIO OUT waveform and Control pulse waveform at the measuring points (D1) and (D2) in the ALT mode.
(3) Set the VCR to the manual tracking mode.
(4) Adjust the AUDIO OUT waveform and Control pulse waveform by turning the screws (1), (2) and (3) little by little until both waveforms reach maximum. The screw (1) and (3) are for adjustment of tilt and the screw (2) for azimuth.

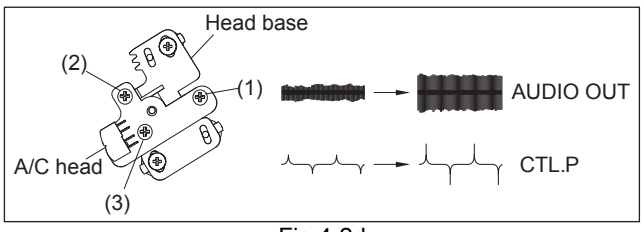


Fig.4-2d

4.2.4 A/C head phase (X-value)

Signal	(A1) (A2)	• Alignment tape(SP, stairstep, PAL) [MHPE] • Alignment tape(LP, stairstep, PAL) [MHPE-L]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• TP106 (PB. FM)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• A/C head base [Mechanism assembly]
Specified value	(G)	• Flat V.PB FM waveform
Adjustment tool	(H)	• Roller driver [PTU94002]

(1) Play back the alignment tape (A1).
(2) Apply the external trigger signal to D.FF (E), to observe the V.PB FM waveform at the measuring point (D).
(3) Set the VCR to the manual tracking mode.
(4) Loosen the screws (4) and (5), then set the Roller driver to the innermost projected part of the A/C head. (See Fig. 4-2e.)
(5) Rotate the roller driver so that the A/C head comes closest to the capstan. From there, move the A/C head back gradually toward the drum until the point where the FM waveform is maximized for the second time, and then tighten the screws (4) and (5) temporarily.
(6) Play an alignment tape (A2) and set to the manual-tracking mode.
(7) Fine-adjust A/C head base position to maximize the FM waveform, and then tighten the screws (4) and (5) firmly.
(8) Play alignment tapes (A1) and (A2) and confirm that the FM waveforms are maximized when the tracking is at the center position.

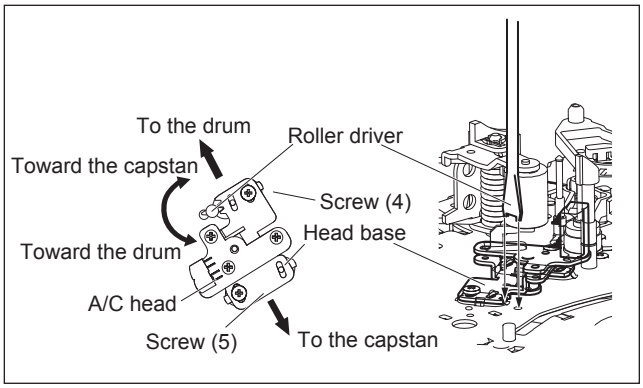


Fig.4-2e

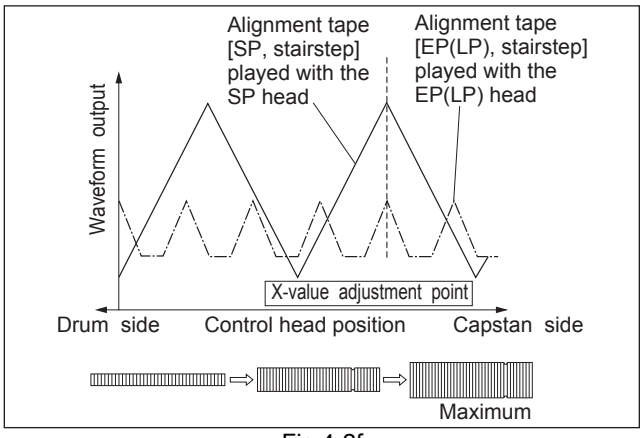


Fig.4-2f

4.3 Electrical adjustment

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.

4.3.1 Servo circuit

4.3.1.1 Switching point

Signal	(A1) (A2)	• Stairstep signal • Alignment tape(LP, stairstep, PAL) [MHPE-L]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• VIDEO OUT terminal (75 ohm terminated) • TP106 (PB. FM)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• Jig RCU: Code “43-5A”
Specified value	(G)	• 6.5 ± 0.5H
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Play back the signal (A1) of the alignment tape (A2).
(2) Apply the external trigger signal to D.FF (E) to observe the VIDEO OUT waveform and V.PB FM waveform at the measuring points (D1) and (D2).
(3) Set the VCR to the manual tracking mode.
(4) Adjust tracking so that the V.PB FM waveform becomes maximum.
(5) Set the VCR to the Auto adjust mode by transmitting the code (F) from the Jig RCU. When the VCR enters the stop mode, the adjustment is completed.
(6) If the VCR enters the eject mode, repeat steps (1) to (5) again.
(7) Play back the alignment tape (A2) again, confirm that the switching point is the specified value (G).

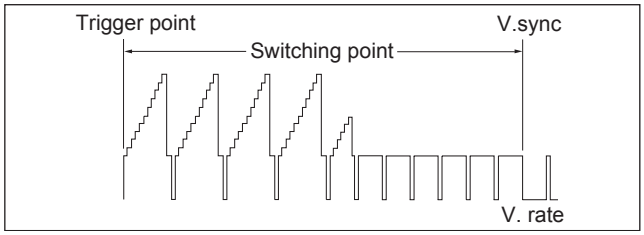


Fig.4-3a Switching point

4.3.1.2 Slow tracking preset

Signal	(A1) (A2)	• Ext. input • Color (colour) bar signal [PAL]
Mode	(B1) (B2)	• VHS SP • VHS LP
Measuring point	(D)	• TV-Monitor
Adjustment part	(F)	• Jig RCU: Code “43-71”or “43-72”
Specified value	(G)	• minimum noise
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Record the signal (A2) in the mode (B1), and play back the recorded signal.
(2) Set the VCR to the manual tracking mode.
(3) Set the VCR to the FWD slow (+1/6x) mode.
(4) Transmit the code (F) from the Jig RCU to adjust so that the noise bar becomes the specified value (G) on the TV monitor in the slow mode.
(5) Set the VCR to the Stop mode.
(6) Confirm that the noise bar is (G) on the TV monitor in the slow mode.

Note:

- **For FWD slow (+1/6x) playback, transmit the code “43-08” from the Jig RCU to enter the slow playback mode.**

4.3.2 Syscon circuit

4.3.2.1 Timer clock

Signal	(A)	• No signal
Mode	(B)	• EE
Equipment	(C)	• Frequency counter
Measuring point	(D1) (D2) (D3)	• IC3001 pin 61 • IC3001 pin 24 • C3026 + and -
Adjustment part	(F)	• C3025 (TIMER CLOCK)
Specified value	(G)	• 1024.008 ± 0.001 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 you cannot remove the cassette tape which is loaded because of any electrical or mechanical failures, manually remove it by taking the following steps.

(1) Unplug the power cord plug from the power outlet.

(2) Refer to the disassembly procedure of the VCR and perform the disassembly of the major parts before removing the mechanism assembly. (See Fig. 5-1a)

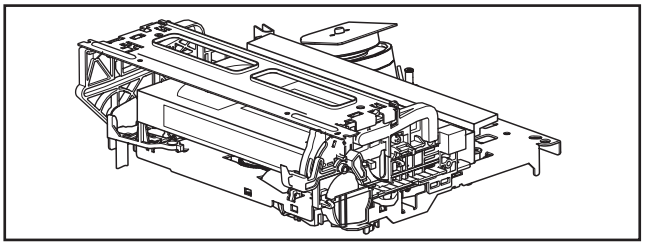


Fig.5-1a

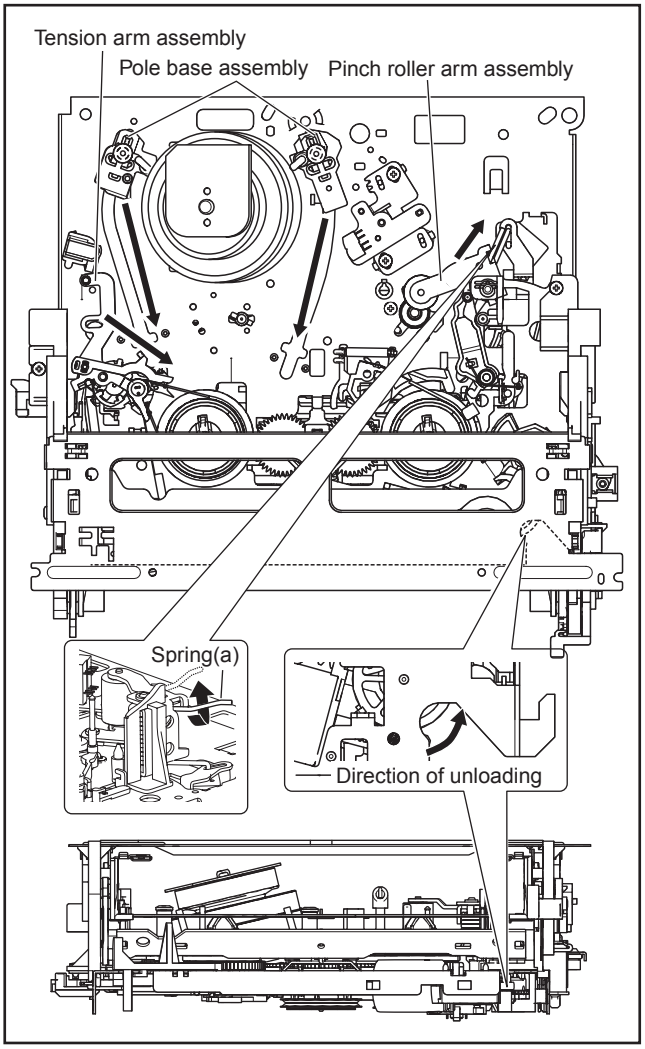


Fig.5-1b

(3) Unload the pole base assembly by manually turning the gear of the loading motor until the pole base assembly is hidden behind the cassette lid. In doing so, hold the tape by the hand to keep the slack away from any grease. (See Fig.5-1b)

In case of mechanical failures, while keeping the tension arm assembly free from tension, pull out the tape on the pole base assembly. Take the spring(a) of the pinch roller arm assembly off the hook, and detach it from the tape.

(4) Remove the screw (a) of the side frame (L/R).

(5) Hold the slack tape and cassette cover together, lift the cassette tape, top frame, cassette holder and side frames (L, R) together from the rear and remove them by dis-engaging the hooks (a) and (b).

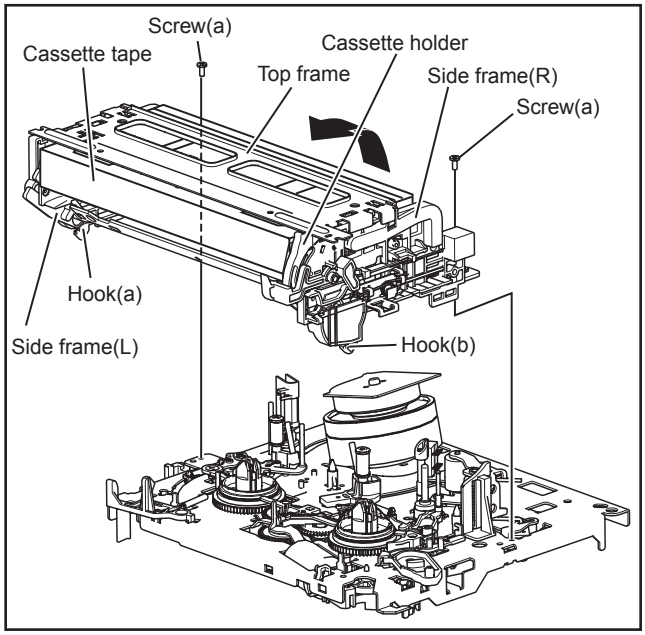


Fig.5-1c

(6) Take up the slack of the tape into the cassette. This completes removal of the cassette tape.

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)

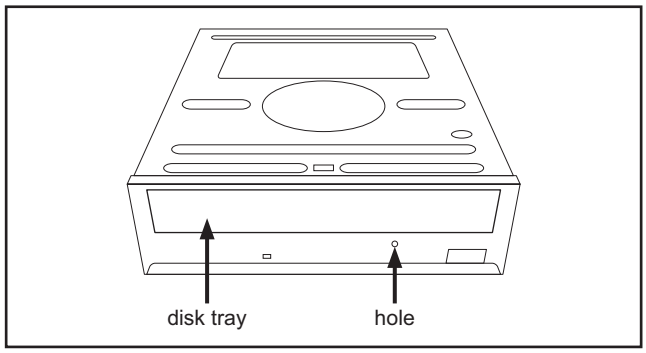


Fig.5-2a

5.3 Emergency display function (VHS SECTION)

This unit saves details of the last two emergencies as the EMG history and allows the status of the unit and the mechanism of 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.

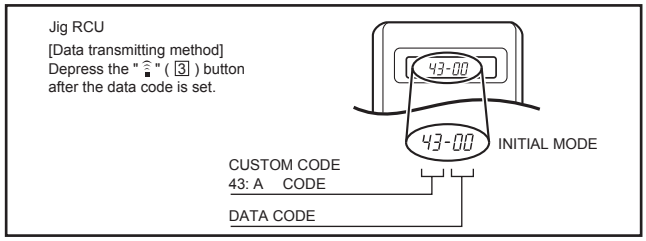


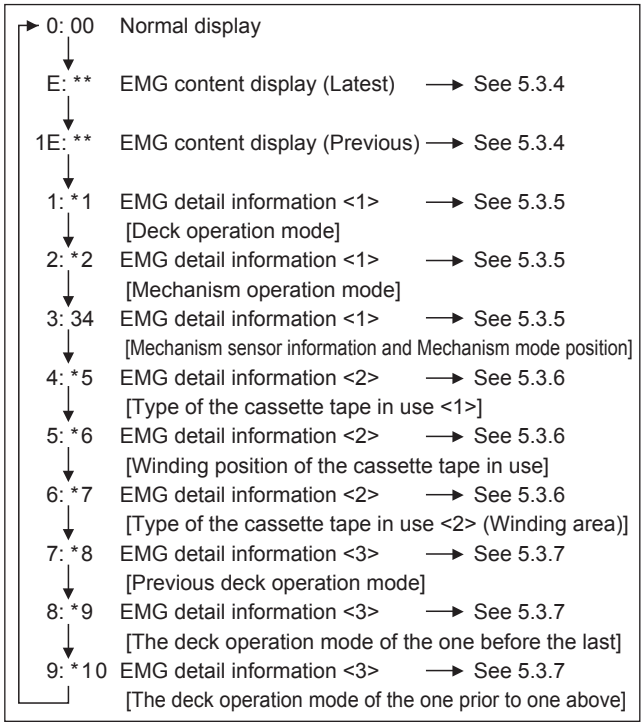
Fig.5-3a Jig RCU [PTU94023B]

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:

- **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 7 FDP display model
Fig.5-3b

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 : 01 ← Latest EMG

<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 “ *1: *2 : 34 ”.

*1 : Deck operation mode at the moment of EMG
*2 : Mechanism operation mode at the moment of EMG
3- : Mechanism sensor information at the moment of EMG
-4 : 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 “ *5 : *6 : *7 ”.

*5 : Type of the cassette tape in use <1> .
*6 : Winding position of the cassette tape in use
*7 : Type of the cassette tape in use <2> (Winding area)

(4) Transmit the code “43-59” from the Jig RCU once again.
The FDP shows the EMG detail information <3> in the form of “*8 : *9 : *10”.

*8 : Previous deck operation mode at the moment of EMG
*9 : The deck operation mode of the one before the last at the moment of EMG
*10: The deck operation mode of the one prior to one above at the moment of EMG

(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 display is variable depending on the part No. of the System Control microcomputer (IC3001) built into the unit. In the following, refer to the figure carrying the same two characters as the top two characters of the part number of your IC.**
- **The sensor information in the OSD display contents is partially different from the mechanism sensor information in EMG detail information <1>.**

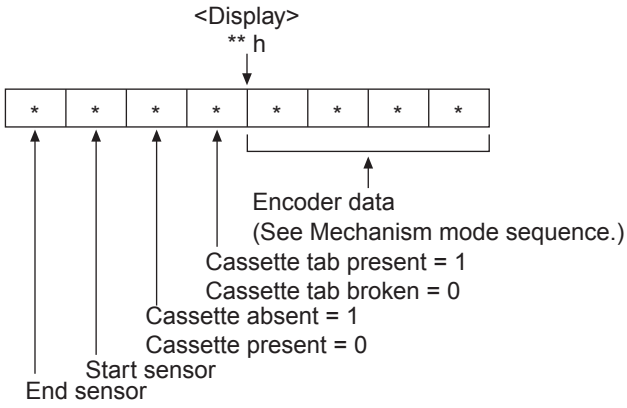
[For MN* only]

AA	BB	CC	DD	EE
FF	GG	HH	I I	J J
KK	L L	MM	NN	OO
PP	QQ	RR	SS	TT
UU	VV	WW	XX	YY

AA : Deck operation mode (See EMG detail information <1>.)
BB : Mechanism operation mode
(See EMG detail of information <1>.)
CC : Mechanism transition flag
DD : Capstan motor control status
EE : Loading motor control status
FF : Sensor information (See sensor information details.)
GG : Capstan motor speed
HH : Key code (JVC code)
I I : Supply reel winding diameter data higher 8 bits.
JJ : Supply reel winding diameter data lower 8 bits.
KK : Mechanism sensor information & mechanism mode position(See EMG detail of information <1>.)
LL : Tape speed data higher 8 bits.
MM : Tape speed data lower 8 bits.
NN : Cassette tape type <2> higher 8 bits.
(See EMG detail of information <2>.)
OO : Cassette tape type <2> lower 8 bits.
(See EMG detail of information <2>.)
PP : General data display area

YY : General data display area

***FF:Sensor information details**

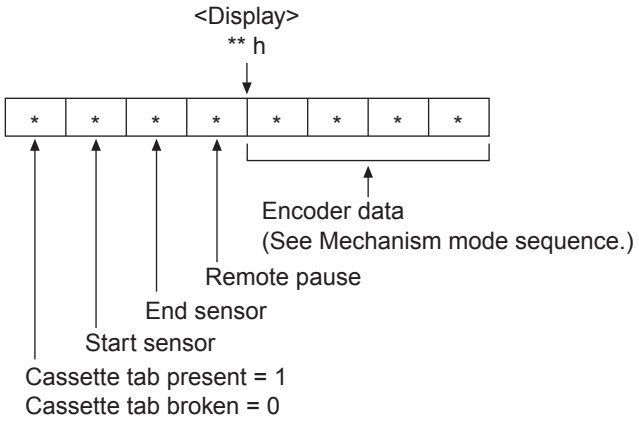


[For *HD only]

AA	BB	CC
DD	EE	FF
GGGG	HHHH	
I I	J J J J	
KKKK	L L L L	MMMM
ROM No.		

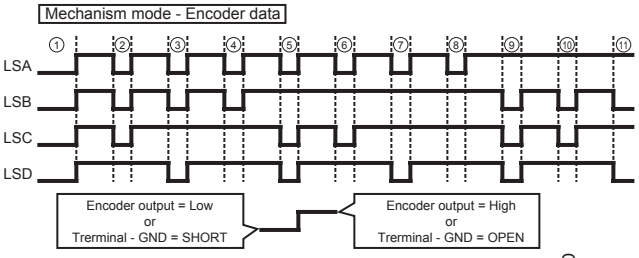
AA : Key code (JVC code)
BB : Deck operation mode(See EMG detail information <1>.)
CC : Mechanism operation mode (See EMG detail information <1>.)
DD : Sensor information (See sensor information details.)
EE : Capstan motor speed (Search, double speed)
FF : Tracking value
GGGG : Cassette tape type <2>, 16 bits.
(See EMG detail information <2>.)
HHHH : Supply reel winding diameter data
I I : Capstan motor speed (FF/REW, double speed)
JJJJ : Tape speed data, lower 8 bits.
KKKK : General data display area
LLLL : General data display area
MMMM : General data display area

***DD:Sensor information details**

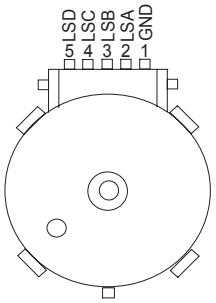


[For both MN*/HD*]

Mechanism mode sequence



No.	Position	Encoder data
①	EJECT	0 h = 0000
②	EJECT1	1 h = 0001
③	EJECT2	2 h = 0010
④	ULSTOP	3 h = 0011
⑤	UPPER	4 h = 0100
⑥	ONSTOP(PLAY)	5 h = 0101
⑦	FWD/SS	6 h = 0110
⑧	REV/SS	7 h = 0111
⑨	OFFSTOP	8 h = 1000
⑩	FFREW-BRAKE	9 h = 1001
⑪	FFREW	A h = 1010
⑫	MIDDLE	F h = 1111



5.3.4 EMG content description

Note:

EMG contents “E09” are for the model with Dynamic Drum (DD).

FDP	CONTENT	CAUSE
E01: Loading EMG	If the mechanism mode does not change to the next mode within 4 seconds after the loading motor starts rotating in the loading direction, while the mechanism is in the after-loading position (with the tape up against the pole base), [E:01] is identified and the power is switched OFF. However, if the tape loading is not completed within 4 seconds after the loading motor starts rotating in the loading direction, the tape is simply unloaded and ejected. No EMG data is recorded in this case.	1. The mechanism is locked in the middle of the mode transition during a tape loading operation. 2. The mechanism overruns during the tape loading operation because the SYSCON cannot recognize the mechanism mode normally. This problem is due to a cause such as a rotary encoder failure. 3. Power is not supplied to the loading MDA. (M12V/Vcc/Vref/ICP are disconnected in the middle.)
E02: Unloading EMG	When the mechanism mode cannot be changed to another mode even when the loading motor has rotated for more than 4 seconds in the unloading direction, [E:02] is identified and the power is turned off.	1. The mechanism is locked in the middle of mode transition. 2. Without an eject signal being sent from the SYSCON, unloading is attempted (i.e. Ejection is attempted while the tape is still inside the mechanism.) because the SYSCON cannot recognize the mechanism mode normally. This is due to a cause such as a rotary encoder failure. (Mechanism position: UPPER) 3. Power is not supplied to the loading MDA. (M12V/Vcc/Vref/ICP are disconnected in the middle.)
E03: Take Up Reel Pulse EMG	When the falling edje of the take-up reel pulse has not been generated for more than 4 seconds in the capstan rotating mode, [E:03] is identified, the pinch rollers are turned off and stopped, and the power is turned off. In this case, however, the mechanism should be in position after tape loading. Note that the reel EMG is not detected during Slow/Frame advance operations.	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 because the mechanism mal-functions for some reason. 2) The idler gear is meshed with the take-up reel gear, but incapable of winding due to too large mechanical load (abnormal tension); 3) The reel is rotating normally but an FG pulse is not generated due to the take-up reel sensor failure. 2. The supply reel pulse is not generated in the REV transport modes (REV SEARCH/REW, etc.) because; 1) The idler gear is not meshed with the supply reel gear because the mechanism mal-functions for some reason. 2) The idler gear is meshed with the supply reel gear, but incapable of winding due to too large a mechanical load (abnormal tension); 3) The reel rotates normally but the FG pulse is not generated due to a supply reel sensor failure. 3. Power(SW5V) is not supplied to the reel sensor on the tape winding side.
E04: Drum FG EMG	When the drum FG pulse has not been input for more than 3 seconds in the drum rotating mode, [E:04] 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 a 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 reach the System controller CPU because; 1) The signal circuit is disconnected in the middle; 2) The FG pulse generator (hall device) of the drum is faulty. 3. The drum control voltage (DRUM CTL V) is not supplied to the MDA. 4. Power (M12V) is not supplied to the drum MDA.
E05: Cassette Eject EMG	If the cassette does not reach the eject position within about 0.7 seconds after the cassette housing has started the cassette ejection operation, [E:05] is identified, the drive direction is reversed to load the tape, the mode is switched to STOP mode with the pinch roller OFF, and the power is switched OFF. During the cassette insertion process, the drive direction is reversed and the cassette is ejected if the tape is not up against the pole base within about 3 seconds after the start of the cassette pulling-in operation. If the cassette does not reach the eject position within about 0.7 seconds after the drive mode reversal operation, [E:05] is identified and the power is switched OFF immediately.	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 factors: Temperature environment (low temperature, etc.), mechanism wear or failure. 3. The sensor/switch for detecting the end of ejection are not functioning normally. 4. The loading motor drive voltage is lower than specified or power (M12V) is not supplied to the motor (MDA). 5. When the user attempted to eject a cassette, a foreign object (or perhaps the user's hand) was caught in the opening of the housing.
E06: Capstan FG EMG	When the capstan FG pulse has not been generated for more than 1 second in the capstan rotating mode, [E:06] is identified, the pinch rollers are turned off and stopped, and the power is turned off.However, the capstan EMG is not detected in SLOW/STILL modes. Note that, if the part number of the System Control IC begins with "MN" or "M3", the capstan EMG is not detected even during the FF/REW operation.	1. The capstan could not start or the capstan rotation has stopped due to too large a 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 (occurrence of tape entangling, etc.). 2. The capstan FG pulse did not reach the System controller CPU because; 1) The signal circuit is disconnected in the middle; 2) The FG pulse generator (MR device) of the capstans is faulty. 3. The capstan control voltage (CAPSTAN CTL V) is not supplied to the MDA. 4. Power (M12V, SW5V) are not supplied to the capstan MDA.
E07: SW Power Short-Circuit EMG	When short-circuiting of the SW power supply with GND has lasted for 0.5 second or more, [E:07] is identified, all the motors are stopped and the power is turned off.	1. The SW 5 V power supply circuit is shorted with GND. 2. The SW 12 V power supply circuit is shorted with GND.
E08: DVD EMG	When communication with a system computer of VHS side is not carried out because of the defective DVD unit, or when the DVD unit must be reset	1. The DVD unit is defective. 2. Contact failure of the wires in the DVD unit or VHS side.
E09: DD FG EMG	When the DD FG pulse is not generated within 2.5 seconds, [E:09] is identified, the tilt motor is stopped and the power is turned off.	1. The FG sensor is defective. (The soldered parts have separated.) 2. The pull-up resistor at the FG sensor output is defective. (The soldered parts have separated.) 3. Contact failure or soldering failure of the pins of the connector (board-to-board) to the FG sensor. 4. The power (5V) to the sensor is not supplied. (Connection failure/soldering failure) 5. The FG pulse is not sent to the System Controller CPU. 6. The tilt motor is defective. (The soldered parts have separated.) 7. The drive power to the tilt motor is not supplied. (Connection failure/soldering failure) 8. The tilt motor drive MDA - IC is defective. 9. Auto-recovery of the DD tilting cannot take place due to overrun.
E0A: Supply Reel Pulse EMG	When the falling edge of the supply reel pulse has not been generated for more than 10 seconds in the capstan rotating mode, [E:0A] is identified and the cassette is ejected (but the power is not turned off). In this case, however, the mechanism should be in the position after tape loading (with the tape up against the pole base). Also note that the reel EMG is not detected during Slow/Frame advance operations.	1. The supply reel pulse is not generated in the FWD transport mode (PLAY/FWD SEARCH/FF, etc.) because; 1) PLAY/FWD or SEARCH/FF is started while the tape in the inserted cassette is cut in the middle; 2) A mechanical factor caused tape slack inside and outside the supply reel side of the cassette shell. In this case, the supply reel will not rotate until the tape slack is removed by the FWD transport, so the pulse is not generated until then; 3) The reel is rotating normally but the FG pulse is not generated due to a supply reel sensor failure. 2. The take-up reel pulse is not generated in the REV transport mode (REV SEARCH/REW, etc.). 1) REV SEARCH/REW is started when the tape in the inserted cassette has been cut in the middle; 2) A mechanical factor caused tape slack inside and outside the take-up reel side of the cassette shell. In this case, the take up will not rotate until the tape slack is removed by the REV transport, so the pulse will not be generated until that time; 3) The reel is rotating normally but the FG pulse is not generated due to a take-up reel sensor failure. 3. The power (SW 5V) to a reel sensor is not supplied.
EU1: Head clog warning history	Presupposing the presence of the control pulse output in the PLAY mode, when the value obtained by mixing the two V.FM output channels (without regard to the A.FM output) has remained below a certain threshold level for more than 10 seconds, [E:U1] is identified and recorded in the emergency history. During the period in which the head clog is detected, the FDP shows "U:01" and the OSD repeats the "3 seconds of warning display" and the "7 seconds of noise picture display" alternately. EMG code : "E:C1" or "E:U1" / FDP : "U:01" / OSD : "Try cleaning tape." or "Use cleaning cassette." The head clog warning is reset when the above-mentioned threshold has been exceeded for more than 2 seconds or the mode is changed to another mode than PLAY.	

5.3.5 EMG detail information <1>

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

[FDP/OSD display] *1 : *2 : 34

*1 : Deck operation mode at the moment of EMG
*2 : Mechanism operation mode at the moment of EMG
3- : Mechanism sensor information at the moment of EMG
-4 : Mechanism mode position at the moment of EMG

Note:

- **For EMG detailed information <1>, the content of the code that is shown on the display (or OSD) differs depending on the parts number of the system control microprocessor (IC3001) of the unit. The system control microprocessor parts number starts with two letters, refer these to the corresponding table.**

***1 : Deck operation mode**

[Common table of MN* and HD]

Display		Deck operation mode
MN*	HD*	
00	-	Mechanism being initialized
01	00	STOP with pinch roller pressure off (or tape present with P.OFF)
02	01	STOP with pinch roller pressure on
03	-	POWER OFF as a result of EMG
04	04	PLAY (Normal playback)
0C	0E	REC
10	11	Cassette ejected
20	22	FF
21	-	Tape fully loaded, START sensor ON, short FF
22	-	Cassette identification FWD SEARCH before transition to FF (SPx7-speed)
24	26	FWD SEARCH (variable speed) including x2-speed
2C	2E	INSERT REC
40	43	REW
42	-	Cassette identification REV SEARCH before transition to REW (SPx7-speed)
44	47	REV SEARCH (variable speed)
4C	4C	AUDIO DUB
6C	6E	INSERT REC (VIDEO + AUDIO)
84	84	FWD STILL / SLOW
85	85	REV STILL / SLOW
8C	8F	REC PAUSE
8D	-	Back spacing
8E	-	Forward spacing (FWD transport mode with BEST function)
AC	AF	INSERT REC PAUSE
AD	-	INSERT REC back spacing
CC	CD	AUDIO DUB PAUSE
CD	-	AUDIO DUB back spacing
EC	EF	INSERT REC (VIDEO + AUDIO) PAUSE
ED	-	INSERT REC (VIDEO + AUDIO) back spacing

***2 : Mechanism operation mode**

[Table of MN*]

Display	Mechanism operation mode
00	Command standby (No command to be executed)
01	Immediate Power OFF after EMG occurrence
02	Loading from an intermediate position during mechanism initialization
03	Unloading due to EMG occurrence during mechanism initialization
04	Ejecting cassette (ULSTOP to EJECT)
05	Inserting cassette (EJECT to ULSTOP)
06	Loading tape (ULSTOP to PLAY)
07	Unloading tape (PLAY to ULSTOP)
08	Transition from pinch roller ON to STOP
09	Transition from pinch roller OFF to STOP (PLAY to OFFSTOP)
0A	Transition from pinch roller OFF to STOP at power OFF
0B	Transition from pinch roller ON to STOP at power ON
0C	Transition to PLAY
0D	Transition to Search FF
0E	Transition to REC
0F	Transition to FWD STILL/SLOW
10	Transition to REV STILL/SLOW
11	Transition to Search REV
12	Transition from FF/REW to STOP
13	Transition to FF
14	Transition to REW
15	Tape end detection processing during loading
16	Short FWD/REV at tape sensor ON during unloading
17	Transition to FF/REW brake mode

[Table of HD*]

Display	Mechanism operation mode
00	STOP with pinch roller pressure off
01	STOP with pinch roller pressure on
02	U/L STOP (or tape being loaded)
04	PLAY (Normal playback)
05	PLAY (x1-speed playback using JOG)
0E	REC
11	Cassette ejected
22	FF
26	FWD SEARCH (variable speed) including x2-speed
2E	INSERT REC
43	REW
47	REV SEARCH
4C	AUDIO DUB
6E	INSERT REC (VIDEO + AUDIO)
84	FWD STILL/SLOW
85	REV STILL/SLOW
8F	REC PAUSE
AF	INSERT REC PAUSE
C7	REV SEARCH (x1-speed reverse playback using JOG)
CD	AUDIO DUB PAUSE
EF	INSERT REC (VIDEO + AUDIO) PAUSE
F0	Mechanism being initialized
F1	POWER OFF as a result of EMG
F2	Cassette being inserted
F3	Cassette being ejected
F4	Transition from STOP with pinch roller pressure on to STOP with pinch roller pressure off
F5	Transition from STOP with pinch roller pressure on to PLAY
F6	Transition from STOP with pinch roller pressure on to REC
F7	Cassette type detection SEARCH before FF/REW is being executed
F8	Tape being unloaded
F9	Transition from STOP with pinch roller pressure off to STOP with pinch roller pressure on
FA	Transition from STOP with pinch roller pressure off to FF/REW
FB	Transition from STOP with pinch roller pressure off to REC.P (T.REC,etc.)
FC	Transition from STOP with pinch roller pressure off to cassette type detection SEARCH
FD	Short REV being executed after END sensor on during unloading
FE	Tension loosening being executed after tape loading (STOP with pinch roller pressure on)
FF	Tape being unloaded

3- : Mechanism sensor information

[Common table of MN* and HD*]

Display	Mechanism sensor informatio n			
	REC safety SW	Start sensor	End sensor	Mechansim position sensor
0-	Tab broken	ON	ON	ON
1-	Tab broken	ON	ON	OFF
2-	Tab broken	ON	OFF	ON
3-	Tab broken	ON	OFF	OFF
4-	Tab present	OFF	ON	ON
5-	Tab present	OFF	ON	OFF
6-	Tab present	OFF	OFF	ON
7-	Tab present	OFF	OFF	OFF
8-	Tab broken	ON	ON	ON
9-	Tab broken	ON	ON	OFF
A-	Tab broken	ON	OFF	ON
B-	Tab broken	ON	OFF	OFF
C-	Tab present	OFF	ON	ON
D-	Tab present	OFF	ON	OFF
E-	Tab present	OFF	OFF	ON
F-	Tab present	OFF	OFF	OFF
	Tab broken = 0 Tab present = 1	Sensor ON = 0 sensor OFF = 1	Sensor ON = 0 Sensor OFF = 1	

-4 : Mechanism mode position

[Common table of MN* and HD*]

Mechanism sensor information	Dis-play	Deck operation mode	
Even number (0, 2, 4, 6, 8, A, C, E)	-0	Not established	
	-1	EJECT	EJECT position
	-2	EJECT-EJECT1	Intermodal position
	-3	EJECT1	EJECT1 position
	-4	EJECT1-EJECT2	Intermodal position
	-5	EJECT2	EJECT2 position
	-6	EJECT2-ULSTOP	Intermodal position
	-7	ULSTOP	ULSTOP position
	-8	ULSTOP-UPPER	Intermodal position
	-9	UPPER	Loading (unloading) tape
	-A	UPPER-ONSTOP	Intermodal position
	-B	ONSTOP	PLAY position
	-C	PLAY-FWD/SS	Intermodal position
	-D	FWD/SS	FWD (FWD Still/Slow) position
	-E	FWD/SS-REV	Intermodal position
	-F	REV	REV (REV Still/Slow) position
Odd number (1, 3, 5, 7, 9, B, D, F)	-0	REV-OFFSTOP	Intermodal position
	-1	OFFSTOP	Pinch roller OFF position
	-2	OFFSTOP-FFREWB	Intermodal position
	-3	FFREWB	FF/REW Brake position
	-4	FFREWB-FFREW	Intermodal position
	-5	FFREW	FF/REW position

5.3.6 EMG detail information <2>

The type of the cassette tape and the cassette tape winding position can be confirmed based on the figure in EMG detail information <2> .

Note:

- **EMG detail information <2> is the reference information stored using the remaining tape detection function of the cassette tape. As a result, it may not identify cassette correctly when a special cassette tape is used or when the tape has variable thickness.**

***5 : Cassette tape type <1>**

Display	Cassette tape type <1>
00	Cassette type not identified
16	Large reel/small reel (T-0 to T-15/T-130 to T-210) not classified
82	Small reel, thick tape (T-120) identified/thin tape (T-140) identified
84	Large reel (T-0 to T-60) identified
92	Small reel, thick tape (T-130) identified/thin tape (T-160 to T-210) identified
93	Small reel, thick tape/C cassette (T-0 to T-100/C cassette) not classified
C3	Small reel, thick tape/C cassette (T-0 to T-100/C cassette) being classified
D3	Small reel, thick tape/C cassette (T-0 to T-100/C cassette) being classified
E1	C cassette, thick tape (TC-10 to TC-20) identified
E2	Small reel, thick tape (T-0 to T-100) identified
E9	C cassette, thin tape (TC-30 to TC-40) identified
F1	C cassette, thick tape/thin tape (TC-10 to TC-40) not classified

Notes:

- **Cassette tape type <1> is identified a few times during mode transition and the identification count is variable depending on the cassette tape type. If an EMG occurs in the middle of identification, the cassette tape type may not be able to be identified.**
- **If other value than those listed in the above table is displayed, the cassette tape type is not identified.**

***6 : Cassette tape winding position**

The cassette tape winding position at the moment of EMG is displayed by dividing the entire tape (from the beginning to the end) in 21 sections using a hex number from “00” to “14”.

00 : End of winding
14 : Beginning of winding
FF : Tape position not identified

***7 : Cassette tape type <2> (Winding area)**

Display	Cassette tape type <2>		(Reference) Word data (Beginning) (End)
00	Cassette type not identified		
04 - 08	C cassette, thick tape	TC-10	(0497 - 0506) (0732 - 0858)
05 - 06	Small reel, thick tape	T-20	(05A9 - 0661)
05 - 0C	C cassette, thick tape	TC-20P	(0599 - 05FF) (0AA1 - 0C07)
06 - 0C	C cassette, thin tape	TC-40	(0623 - 063D) (0C41 - 0CC3)
06 - 0C	C cassette, thin tape	TC-30	(0611 - 0638) (0C0C - 0CB2)
07 - 08	Small reel, thick tape	T-40	(07CC - 08E5)
09 - 0B	Small reel, thick tape	T-60	(09FD - 0B78)
0C - 0D	Small reel, thick tape	T-80(DF-160)	(0C20 - 0DFC)
0D - 0F	Small reel, thick tape	T-90(DF-180)	(0D31 - 0F3E)
0E - 10	Small reel, thick tape	T-100	(0E43 - 107F)
10 - 12	Small reel, thin tape	T-140	(10E1 - 120C)
10 - 13	Small reel, thick tape	T-120(DF-240)	(1073 - 1313)
11 - 14	Small reel, thick tape	T-130	(1185 - 1429)
12 - 14	Small reel, thin tape	T-160	(12D3 - 141F)
13 - 14	Small reel, thin tape	T-210(DF-420)	(1373 - 14C3)
13 - 14	Small reel, thin tape	T-180(DF-360)	(1357 - 14C0)
13 - 14	Small reel, thin tape	T-168	(1395 - 14EE)
13 - 14	Small reel, thick tape	DF-300	(13A8 - 14CE)
15 - 16	Large reel	T-20	(1536 - 1618)
16 - 17	Large reel	T-30	(1647 - 175A)
17 - 18	Large reel	T-40	(1759 - 189C)
19 - 1B	Large reel	T-60	(1989 - 1B2F)

Note:

- **The values of cassette tape type <2> in the above table are typical values with representative cassette tapes.**

5.3.7 EMG detail information <3>

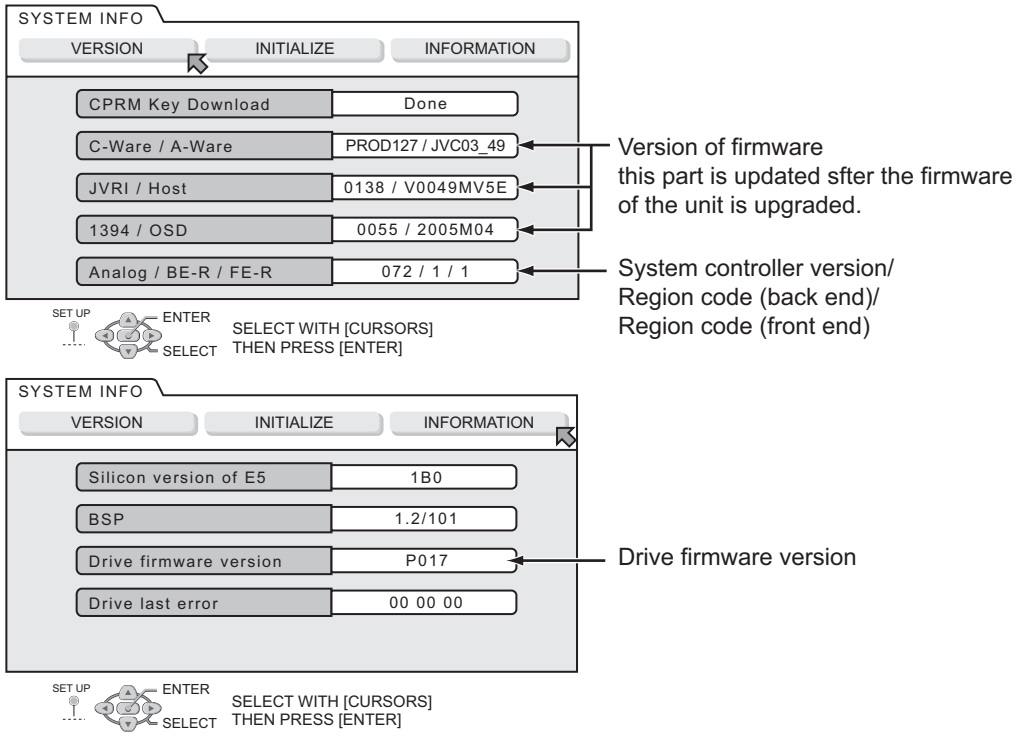
Three deck operation modes preceding the deck operation mode in which the EMG occurs may be confirmed based on the figures in the EMG information detail <3>. For the contents of the displayed information, see the table "Deck operation mode" in section "5.3.5 EMG detail information <1>".

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 VHS/DVD select button on the unit repeatedly so that the DVD 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 the Jig RCU mode.



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

(1) Set the unit to the Jig RCU mode.
(2) Set the unit to DVD mode.(DVD lamp lights up)
(3) Transmit "43-70" from the Jig RCU.
(4) "UPDATE" appears in FDP, load the upgrade disk on the disk tray then close the disk tray.
(5) Wait for approx.30 seconds while FDP is displayed as "UPDATE."
(6) Then, "FW UPDATE" appears in FDP. It takes approx. 3 minutes at maximum to upgrade firmware.
(7) The tray is ejected. Then, take out the disk and close the tray.Turn off the unit, and unplug the AC power cord from the AC outlet. Then plug the AC power cord into the AC outlet.
(8) "LOADING" of FDP disappears. then, turn on the unit.
(9) Display the SYSTEM INFO menu, and check the version of the firmware.
(10) Cancel the Jig RCU mode

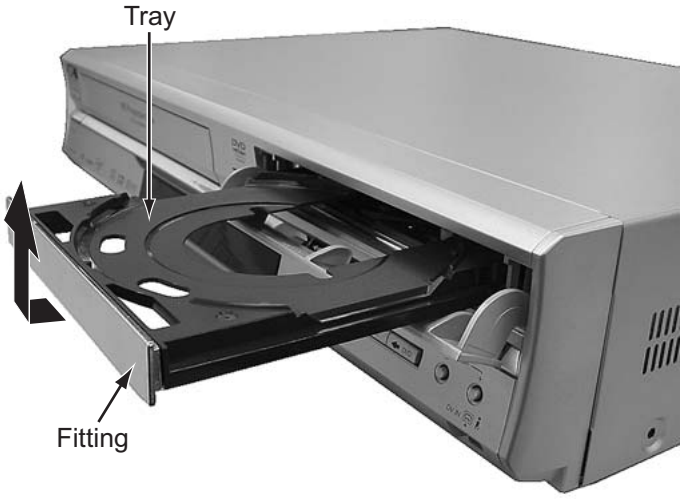
ATTENTION :

Firmware may sometimes not be upgraded successfully.
If firmware is not upgraded successfully, the tray opens, and "ERROR" appears in FDP.
If firmware is upgraded successfully, the tray opens, and "OPEN" appears in FDP.
If unplug the AC power cord from the AC outlet while "ERROR" appears, data in the flash memory is destroyed and the unit cannot start: the flash memory needs to be replaced.
After upgrading procedure, pay enough attention to FDP when the tray opens.
When "ERROR" appears, upgrade firmware again in the following way to restore the firmware

(1) Transmit "43-70" from the Jig RCU while the tray opens.
(2) When "UPDATE" appears in FDP, close the tray and make the unit read the disk. Upgrading starts.
(3) After (2), perform upgrading procedure (4) - (10) of 5.4.2 Upgrading firmware of the unit above.

5.4.3 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.



5.4.4 Initialization method

Since the information on internal is as follows if it initializes, before enforcement, it is required to surely obtain the approval of a customer.
All initial setting of DVD returns to an initial state.

(1) Set the unit to the Jig RCU mode.
(2) Set the unit to DVD mode.(DVD lamp lights up)
(3) Transmit "43-6F" from the Jig RCU.
(4) Confirm the FDP changes from "FACTORY" to "CHECK OK".
(5) Press the "VHS/DVD" select button on the unit so that the VHS lamp lights up on the unit.
(6) To cancel Jig RCU mode transmit "43-9D" from the Jig RCU.

5.4.5 The setting method of a region code

A region code should be set after a DVD unit is replaced.
While a DVD unit is in a warehouse as a stock, a region code of the DVD unit is not determined.
Only replacement of a DVD unit may cause abnormal playback of Disc.
Set a region code of a DVD unit in the following procedure.

(1) Replace a DVD unit.
(2) Set the unit to Jig RCU mode.
(3) Insert a DVD-RAM disc in the unit to make the unit read the DVD-RAM disc.(The DVD-RAM disk used in this procedure is not a disk for upgrade. If it is a DVD-RAM disk, it is good anything.)
(4) Transmit "43-F2" from the Jig RCU.
(5) "REGION 2" is displayed on FDP.
(6) Set the unit to STANDBY mode.
(7) Turn the POWER switch ON.
(8) To cancel Jig RCU mode transmit "43-9D" from the Jig RCU.
(9) Setting is completed in the procedure above.

5.4.6 When it is displayed in FDP, 'RESET'

When the following operations are carried out, "RESET" is displayed in the FDP of the main body.

(1) When the "POWER" button and the "STOP" button of the main body are pressed at the same time
(2) When the code "9B" is transmitted to the main body by using JIG remote control unit
(3) When transmission failure occurs between the main CPU and the DVD host CPU due to defect

If "RESET" is displayed in the FDP after the power code is plugged into the outlet, check the followings.

- The peripheral circuitry of each microcomputer
- Whether the wire between the DVD drive and the board is properly connected
- Whether the wire between the main board and the digital board is properly connected

JVC

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.YD075)

Printed in Japan
VPT

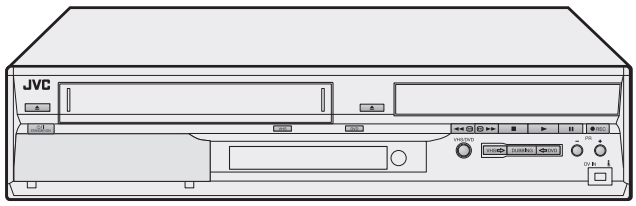
JVC

SCHEMATIC DIAGRAMS

DVD VIDEO RECORDER & VIDEO CASSETTE RECORDER

DR-MV5BEK, DR-MV5SEK

CD-ROM No.SML200508



DR-MV5BEK, DR-MV5SEK [D5RV21]

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).

No.YD075SCH
2005/8

CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

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

1. Units of components on the schematic diagram

Unless otherwise specified.

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

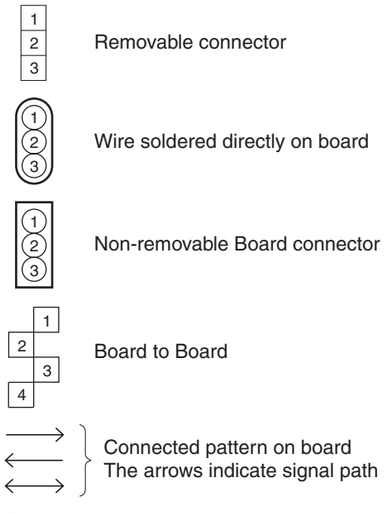
Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

AUX : Active at high.

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

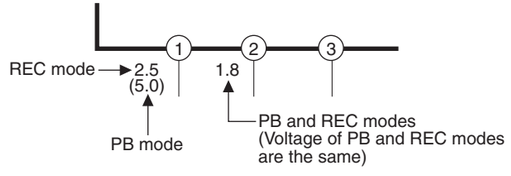
3. Interpreting Connector indications



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.

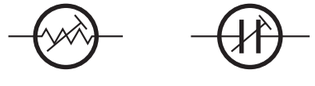
- Playback signal path
- Playback and recording signal path (including E-E signal path)
- Capstan servo path
- Drum servo path

(Example)

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

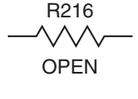
6. Indication of the parts for adjustments

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



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

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



CIRCUIT BOARD NOTES

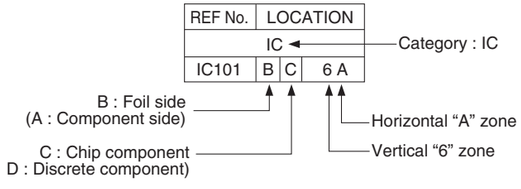
1. Foil and Component sides

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

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

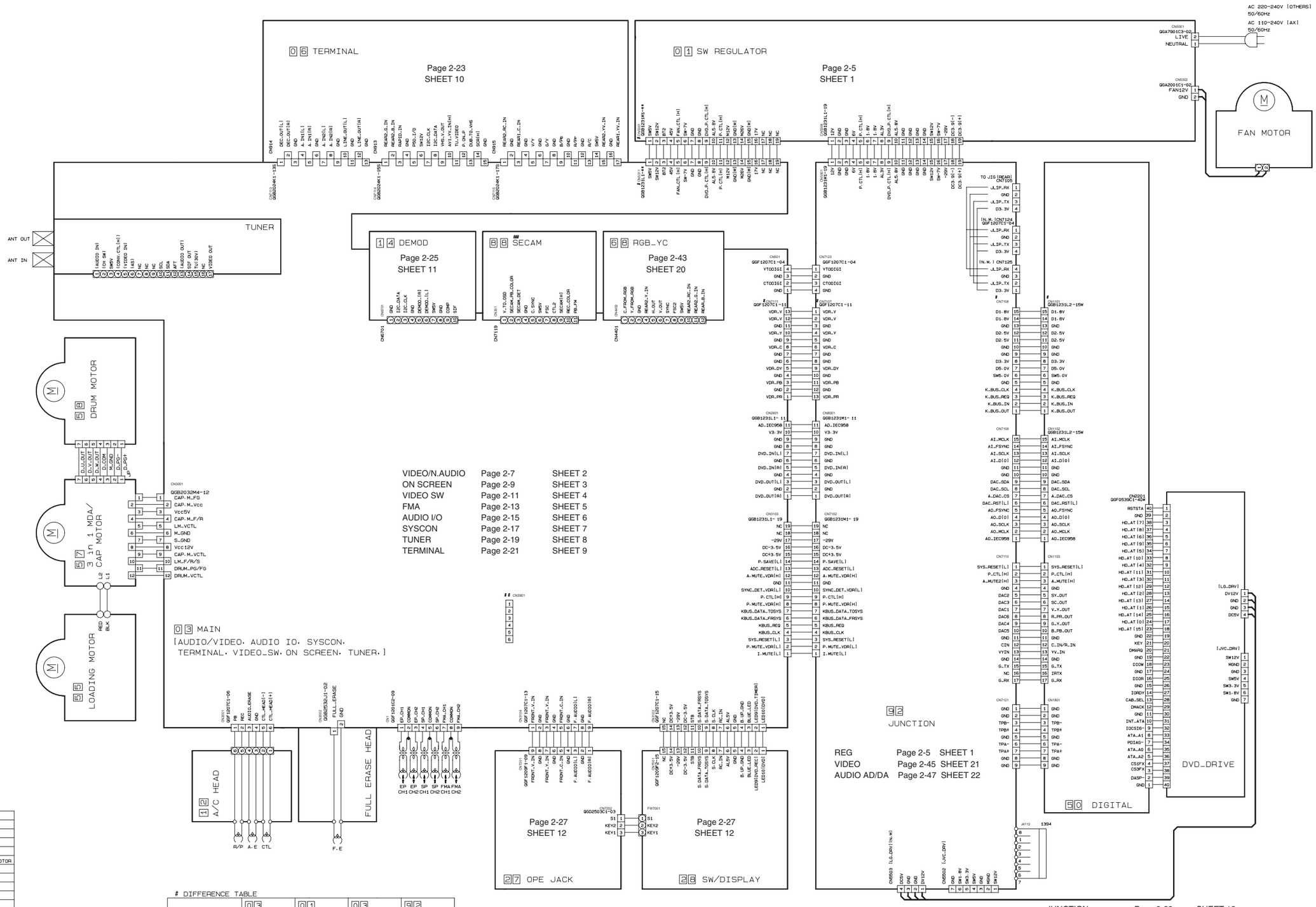
2. Parts location guides

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



92	JUNCTION
88	SECAM
68	RGB_YC
58	DRUM MOTOR
57	3 in 1 MDA/CAP MOTOR
55	LOADING MOTOR
28	DISP/SW
27	OPE/JACK
14	DEMOD
12	A/C HEAD
50	DIGITAL
06	TERMINAL
03	MAIN
01	SW REGULATOR
NO	NAME

VIDEO/N.AUDIO	Page 2-7	SHEET 2
ON SCREEN	Page 2-9	SHEET 3
VIDEO SW	Page 2-11	SHEET 4
FMA	Page 2-13	SHEET 5
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SYSCON	Page 2-17	SHEET 7
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VIDEO	Page 2-45	SHEET 21
AUDIO AD/DA	Page 2-47	SHEET 22

JUNCTION	Page 2-29	SHEET 13
FLASH	Page 2-31	SHEET 14
MEDIA PROCESSOR	Page 2-33	SHEET 15
DDR SDRAM	Page 2-35	SHEET 16
1394PHY	Page 2-37	SHEET 17
VIDEO DECORDER	Page 2-39	SHEET 18
AYAPI IF	Page 2-41	SHEET 19

DIFFERENCE TABLE

	03 CN5311	01 CN5301	03 CN7111	92 CN7107
MV5 SAA/SAX	1-15pin	1-15pin	1-13pin	1-13pin
MV5 SE/SEK/SERSEF	1-15pin	1-15pin	1-11pin	3-13pin
MV5 BE/BEK	1-15pin	1-15pin	1-11pin	3-13pin

#1:CN3901 IS USED FOR FLASH CPU
##:SECAM IS USED FOR SEF ONLY

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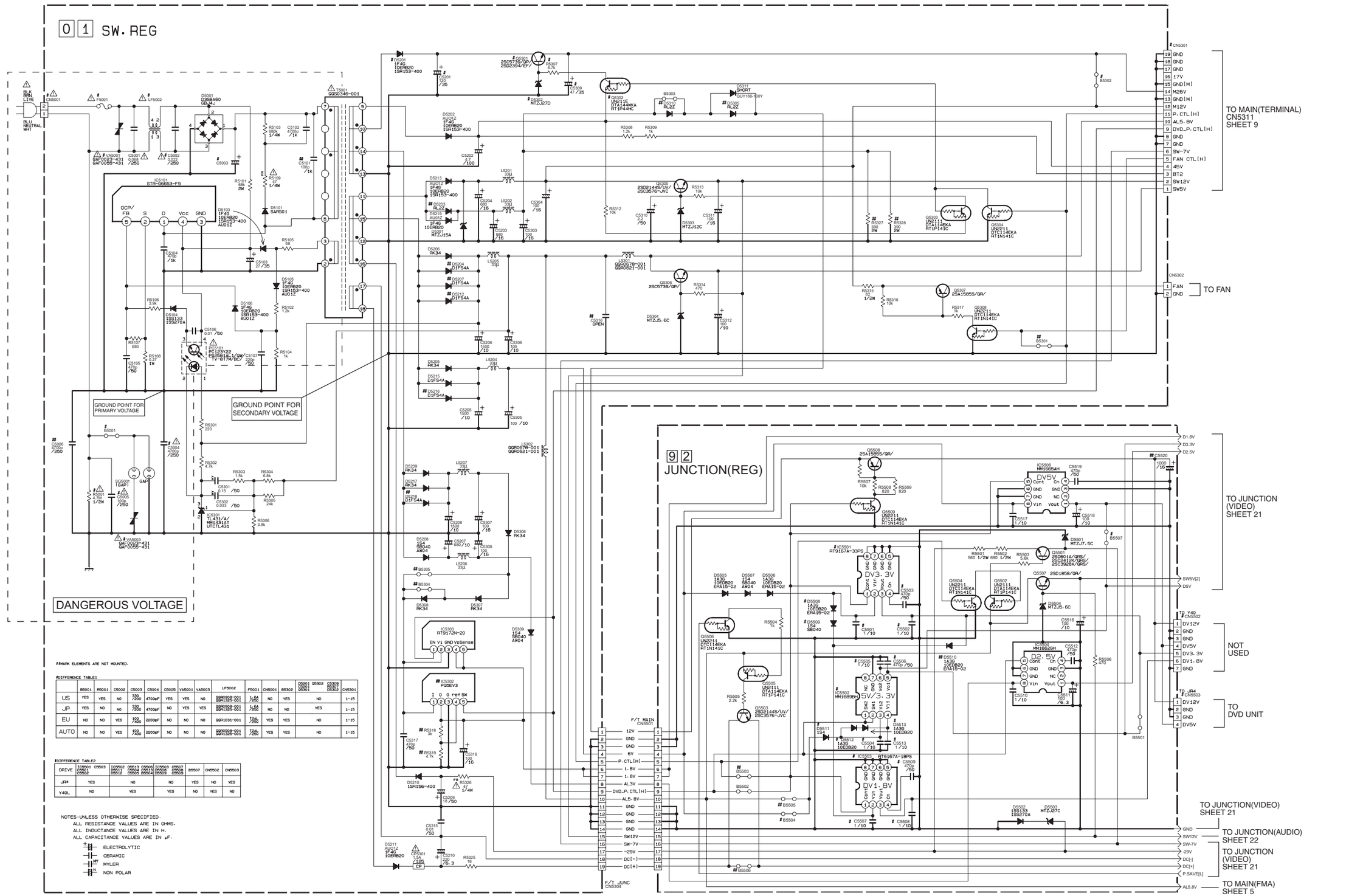
■ SW REG AND JUNCTION(REG) SCHEMATIC DIAGRAM



#MARK ELEMENTS ARE NOT MOUNTED.

#DIFFERENCE TABLE1

	B5001	R5001	C5002	C5003	C5004	C5005	VA5001	VA5003	LF5002	F5001	CN5001	B5302	D5201 Q5301	D5309 Q5302	CM5301
US	YES	YES	NO	330 /200	4700pF	YES	YES	NO	GQR0308-001 GQR1305-001	1.6A /250	NO	YES	NO		1-15
JP	YES	NO	NO	330 /200	4700pF	NO	YES	YES	GQR0308-001 GQR1305-001	1.6A /250	NO	NO	YES		1-15
EU	NO	NO	YES	100 /400	2200pF	NO	NO	NO	GQR1031-001	T2AL /350	YES	YES	NO		1-15
AUTO	NO	NO	YES	100 /400	2200pF	NO	NO	NO	GQR0308-001 GQR1305-001	T2AL /350	YES	YES	NO		1-15

#DIFFERENCE TABLE2

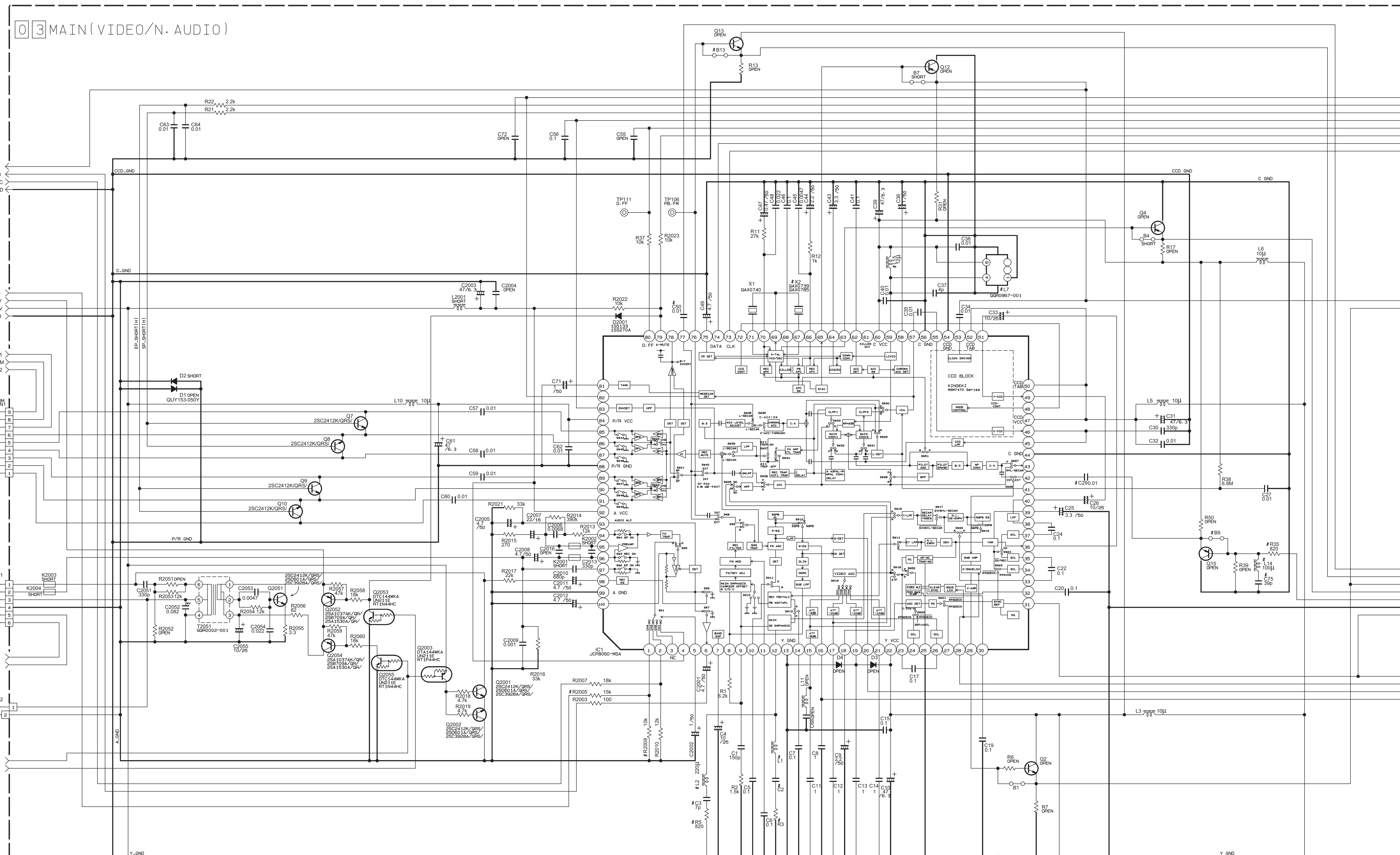
DRIVE	IC5501 C5503 C5601 C5602	IC5502 D5511 D5512	D5513 C5506 C5504 C5505	IC5503 C5507 C5508 C5509	B5507	CN5502	CN5503
JR*	YES	NO	NO	YES	NO	YES	
Y40L	NO	YES	YES	NO	YES	NO	

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

p10743001a_rev0

SHEET 1

■ MAIN(VIDEO/N.AUDIO) SCHEMATIC DIAGRAM



DIFFERENCE TABLE

	L1	C2	R3	L2	C3	R5	B9 R35 L14 C75 C29 B13 C50	X2	L7	L15	R2005 R2008
E,EK,ER etc. (PAL MODEL)	SHORT	47p	4.7k	×	×	×	×	×	○	×	○
EF (PAL/SECAM MODEL)	SHORT	39p	8.2k	220μ	7p	820	○	×	○	×	○
AA,AG etc. (PAL/NTSC MODEL)	SHORT	47p	4.7k	×	×	×	×	○	×	○	×

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

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

ALL NPN TYPE TRANSISTORS ARE 2SC2412K/QRS/ OR 2SD601A/QRS/ 2SC3928A/QRS/.
ALL PNP TYPE TRANSISTORS ARE 2SA1037AK/QR/ OR 2SB709A/QR/ 2SA1530A/QR/.
ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144WKA OR UN221E OR RT1N44HC.
ALL PNP TYPE DIGITAL TRANSISTORS ARE DTA144WKA OR UN211E OR RT1P44HC.

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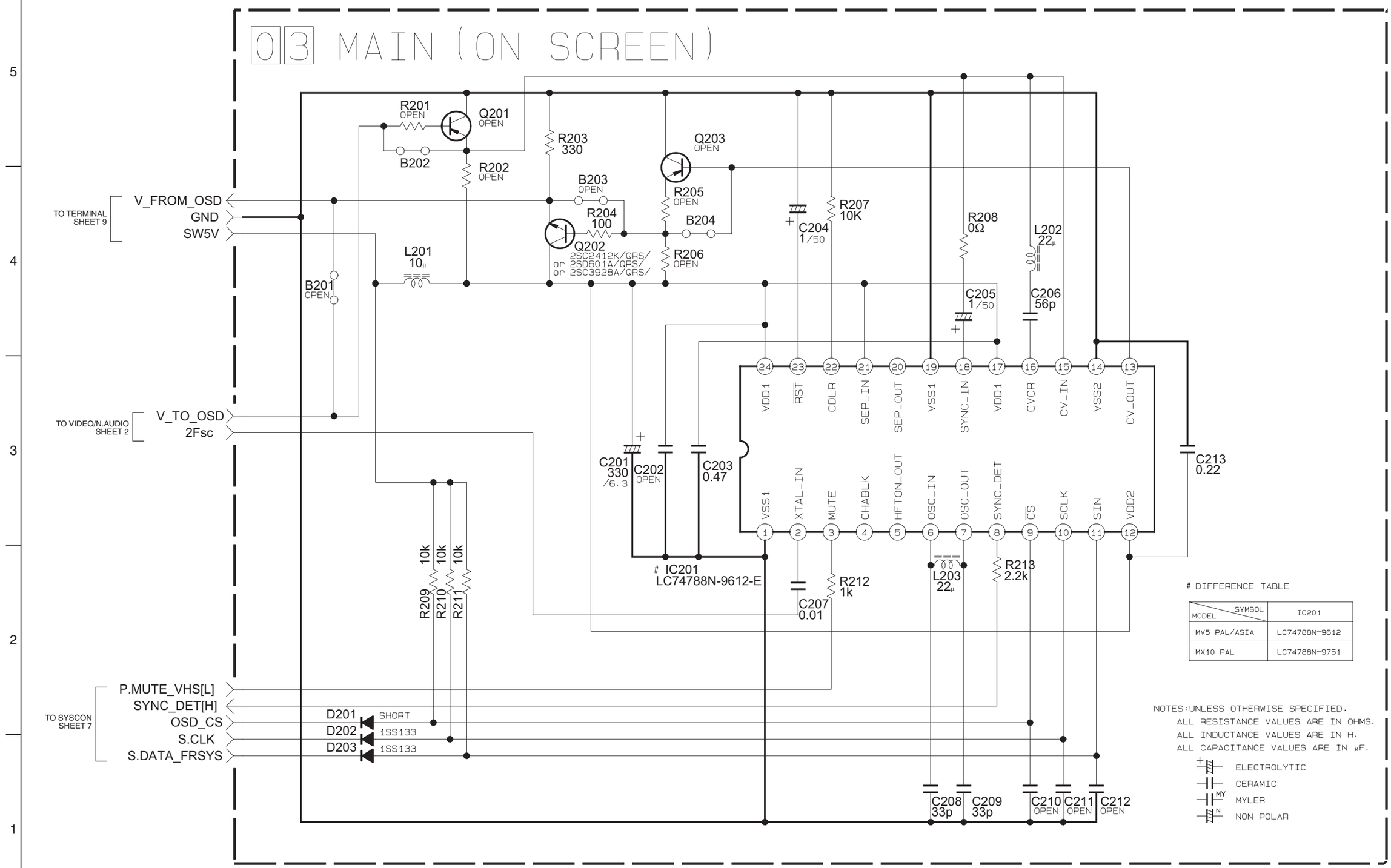
SHEET 2

■ MAIN(ON SCREEN) SCHEMATIC DIAGRAM



DIFFERENCE TABLE

MODEL \ SYMBOL	IC201
MV5 PAL/ASIA	LC74788N-9612
MX10 PAL	LC74788N-9751

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

+ ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

p30145001a_rev0

SHEET 3

■ MAIN(VIDEO SW) SCHEMATIC DIAGRAM

0 3 MAIN(VIDEO SW)

DIFFERENCE TABLE

	R520	R521	C503 R502 C505 R505 C514 R508 C517 R509 C526	B503	B504	## MARK	### MARK
MV5 E·EK·EA·EF MODEL	1·8k	1k	O	O	×	O	×
MX10 E·EK·ER MODEL	×	0a	O	O	×	O	×
MX10 EF MODEL	×	0a	O	O	×	O	O
MV5 ASIA MODEL	1·8k	1k	×	×	O	×	×

NOTES·UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

ALL NPN TYPE TRANSIISTORS ARE 2SC2412K/QR5/ OR 2SD601A/QR5/ 2SC3928A/QR5/.
ALL PNP TYPE TRANSISTORS ARE 2SA1037AK/QR/ OR 2SB709A/QR/ 2SA1530A/QR/.
ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144WKA OR UN221E OR RT1N44HC.
ALL PNP TYPE DIGITAL TRANSISTORS ARE DTA144WKA OR UN211E OR RT1P44HC.

INPUT	V	Y/C
1	FRONT	FRONT
2	VHS	RGB_Y/C [EU]
3	REAR2 [EU]	REAR2 [EU]
4	REAR1	REAR1
5	TUNER	X

TO JUNCTION(VIDEO) CN7123 SHEET 21

TO RGB YC CN4402 SHEET 20

TO SYSCON SHEET 7

TO TERMINAL SHEET 9

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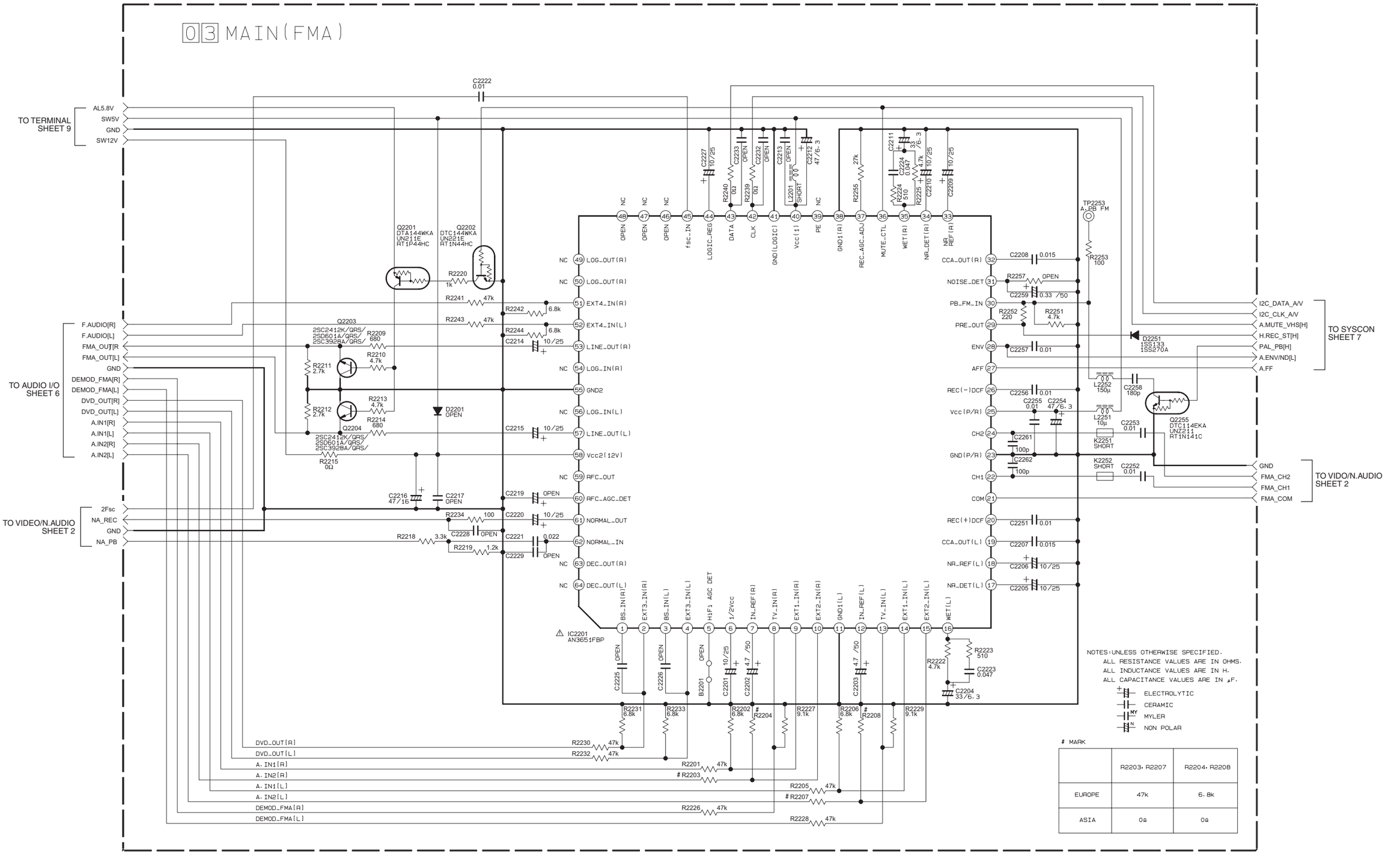
SHEET 4

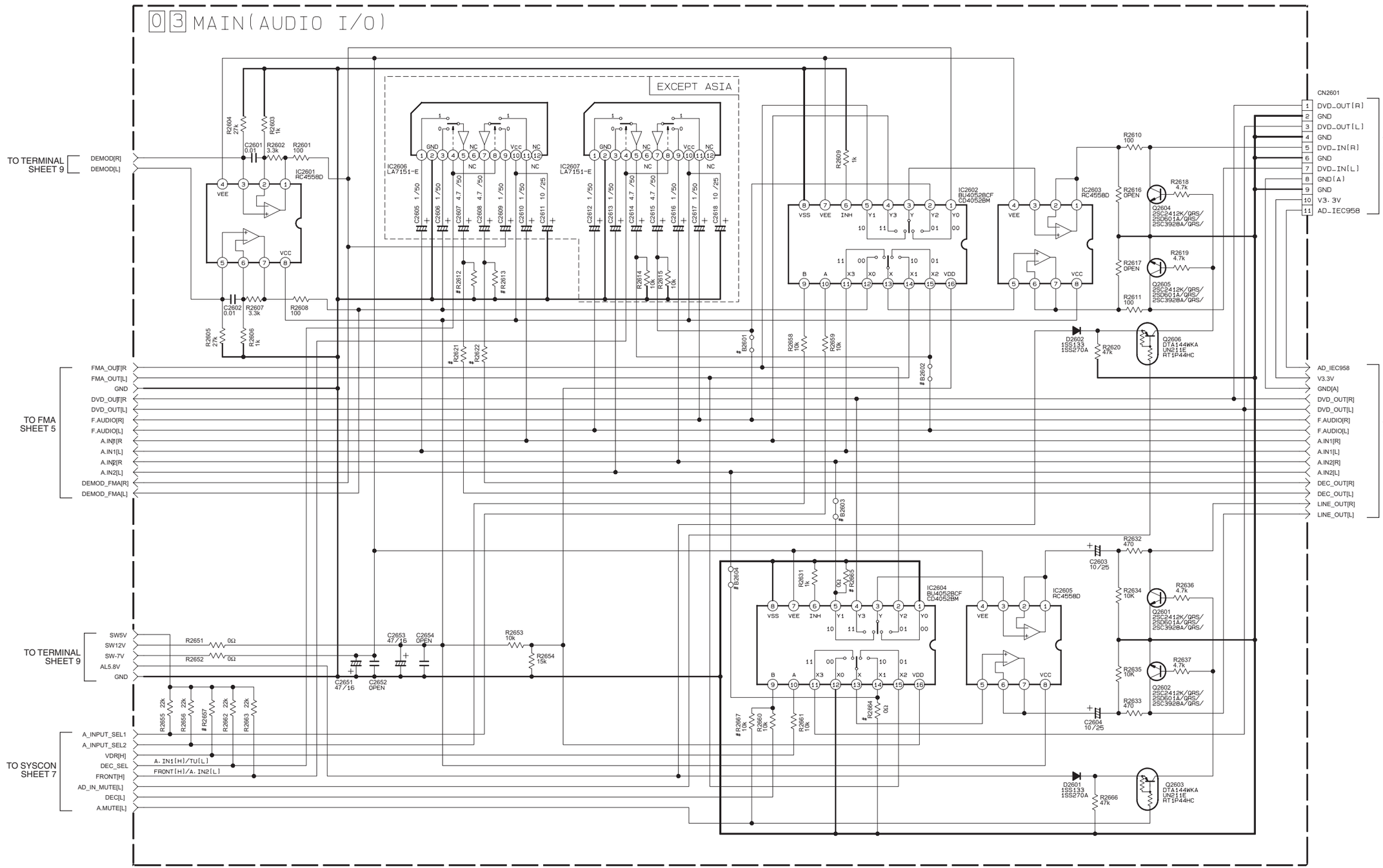
■ MAIN(FMA) SCHEMATIC DIAGRAM



p20493001a_rev0

SHEET 5

■ MAIN(AUDIO I/O) SCHEMATIC DIAGRAM



MARK

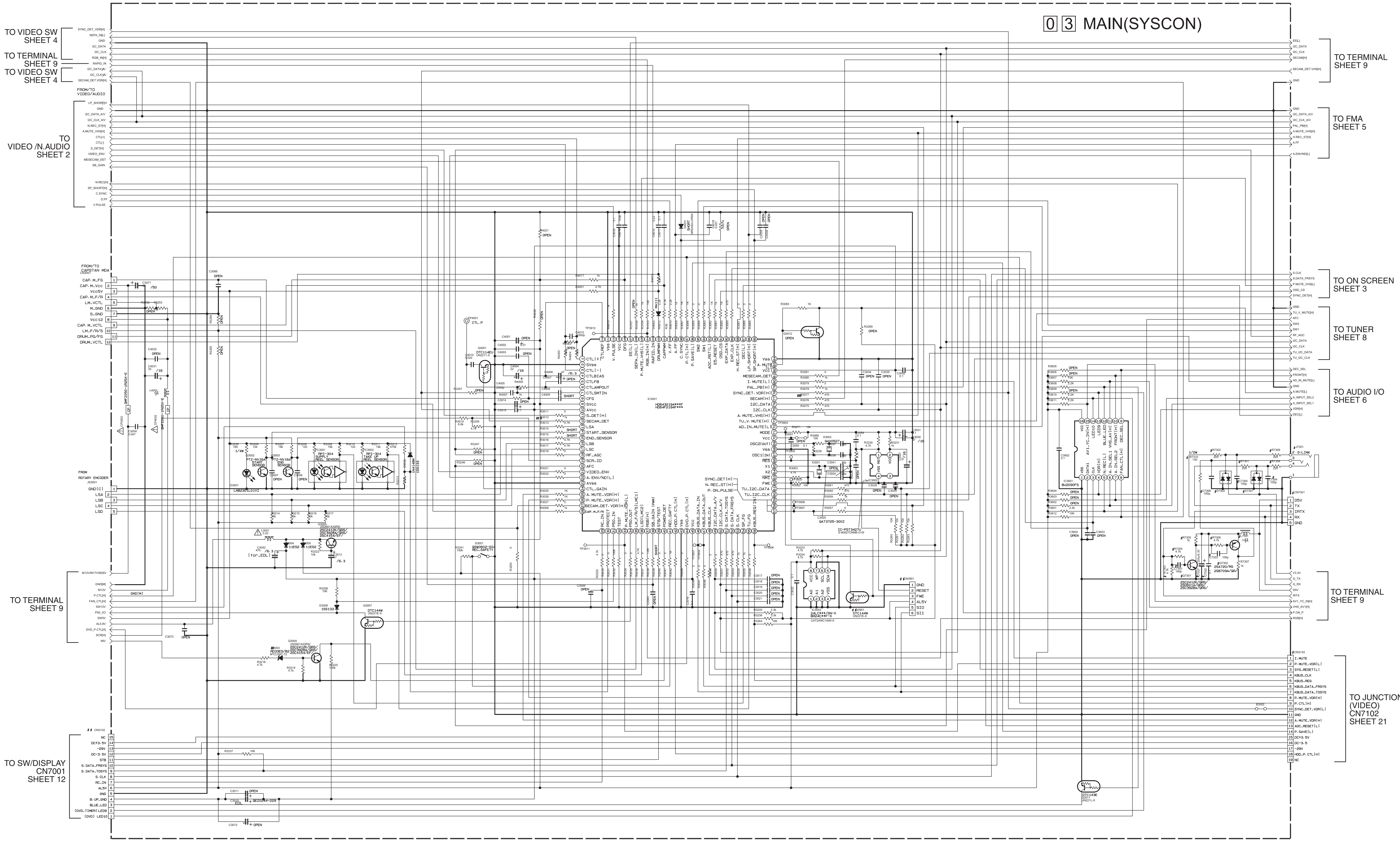
	B2601・B2602 R2664・R2665・R2667	B2603・B2604 R2660	R2657	R2612・R2613	R2621・R2622
EUROPE	NOT USE	USE	22k	10k	330
ASIA	USE	NOT USE	1k	0Ω	NOT USE

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

p20492001a_rev1

SHEET 6

■ MAIN(SYSCON) SCHEMATIC DIAGRAM



###:DIFFERENCE TABLE.

	R3012	R3077
SEF	○	○
OTHERS	×	×

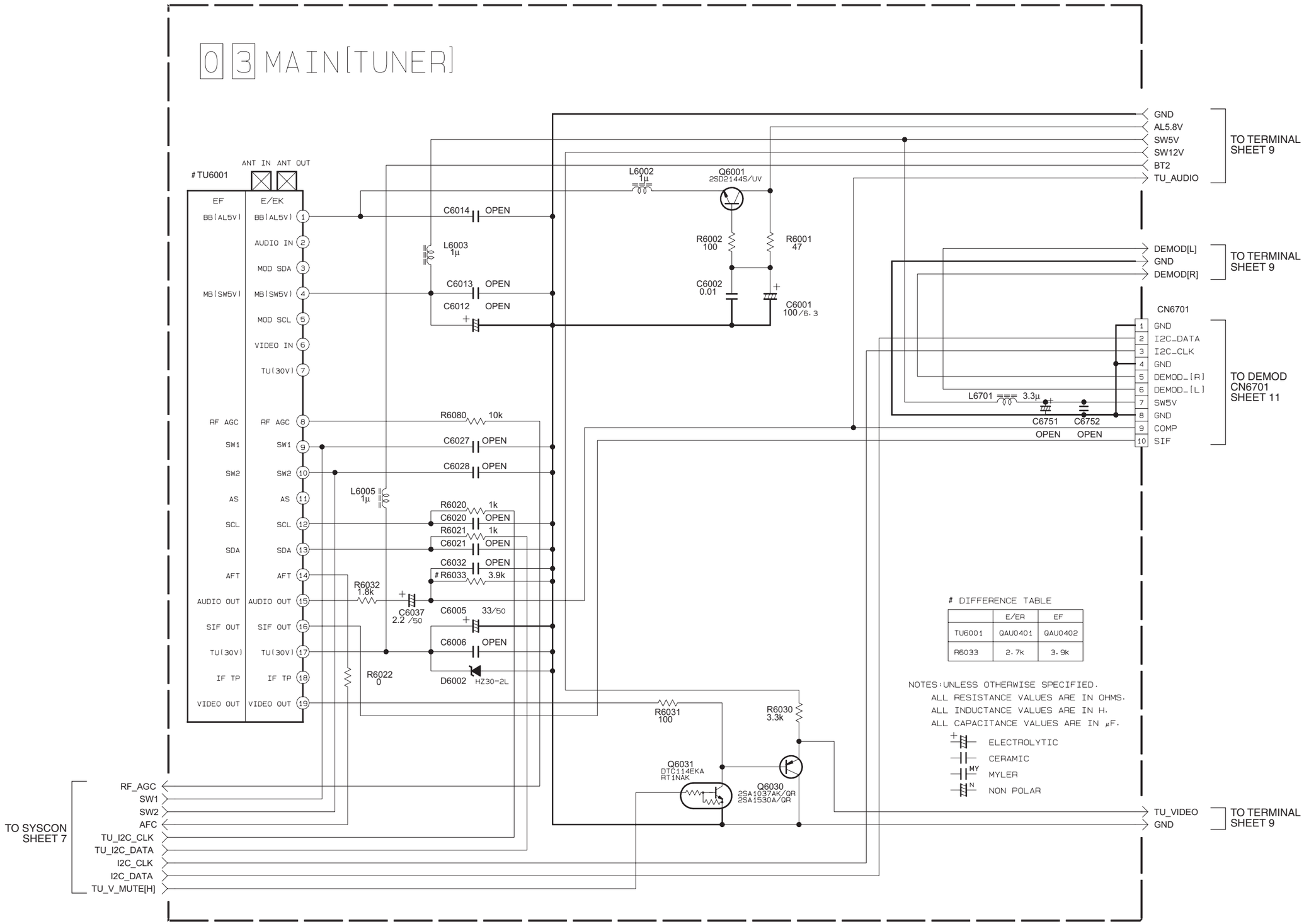
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

p10750001a_rev0

SHEET 7

■ MAIN(TUNER) SCHEMATIC DIAGRAM



	E/ER	EF
TU6001	QAU0401	QAU0402
R6033	2.7k	3.9k

p20500001a_rev0

SHEET 8

■ MAIN(TERMINAL) SCHEMATIC DIAGRAM

TO AUDIO I/O SHEET 6

TO TERMINAL(I/O) CN914 SHEET 10

TO TERMINAL(I/O) CN913 SHEET 10

TO TERMINAL(I/O) CN915 SHEET 10

TO JUNCTION(VIDEO) CN7107 SHEET 21

TO SYSCON SHEET 7

TO VIDEO/N.AUDIO SHEET 2

TO VIDEO SW SHEET 4

TO ON SCREEN SHEET 3

TO TUNER SHEET 8

TO FMA SHEET 5

TO OPE/JACK CN7201 SHEET 12

TO SYSCON SHEET 7

TO SW.REG CN5301 SHEET 1

TO SYSCON SHEET 7

COAXIAL OUT

IC7901 CD74HC4053PW

IC7501 SN74LV08APW

DIFFERENCE TABLE

		B7101 B7102 B7103	B7106 B7111 B7107 B7113 B7108 B7114 B7109	B7104 B7105 B7110	B7112	L7101 IC7101 R7101 R7102	CN7111	CN7113	CN7114	CN7115	CN7119	B7503 B7504	B7505 B7506	B7121 B7124	B7122 B7123
MV5	E.EK.ER	×	×	○	○	○	1-11 PIN	1-13 PIN	1-15 PIN	1-17 PIN	×	○	×	○	×
	EF										○				
MX10	E.EK.ER	×	○	×	○	○	1-13 PIN	1-13 PIN	1-15 PIN	1-17 PIN	×	○	×	×	○
	EF										○				
MV5 ASIA		○	×	○	×	×	1-13 PIN	4-13 PIN	6-15 PIN	3-17 PIN	×	×	○	○	×

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

S ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

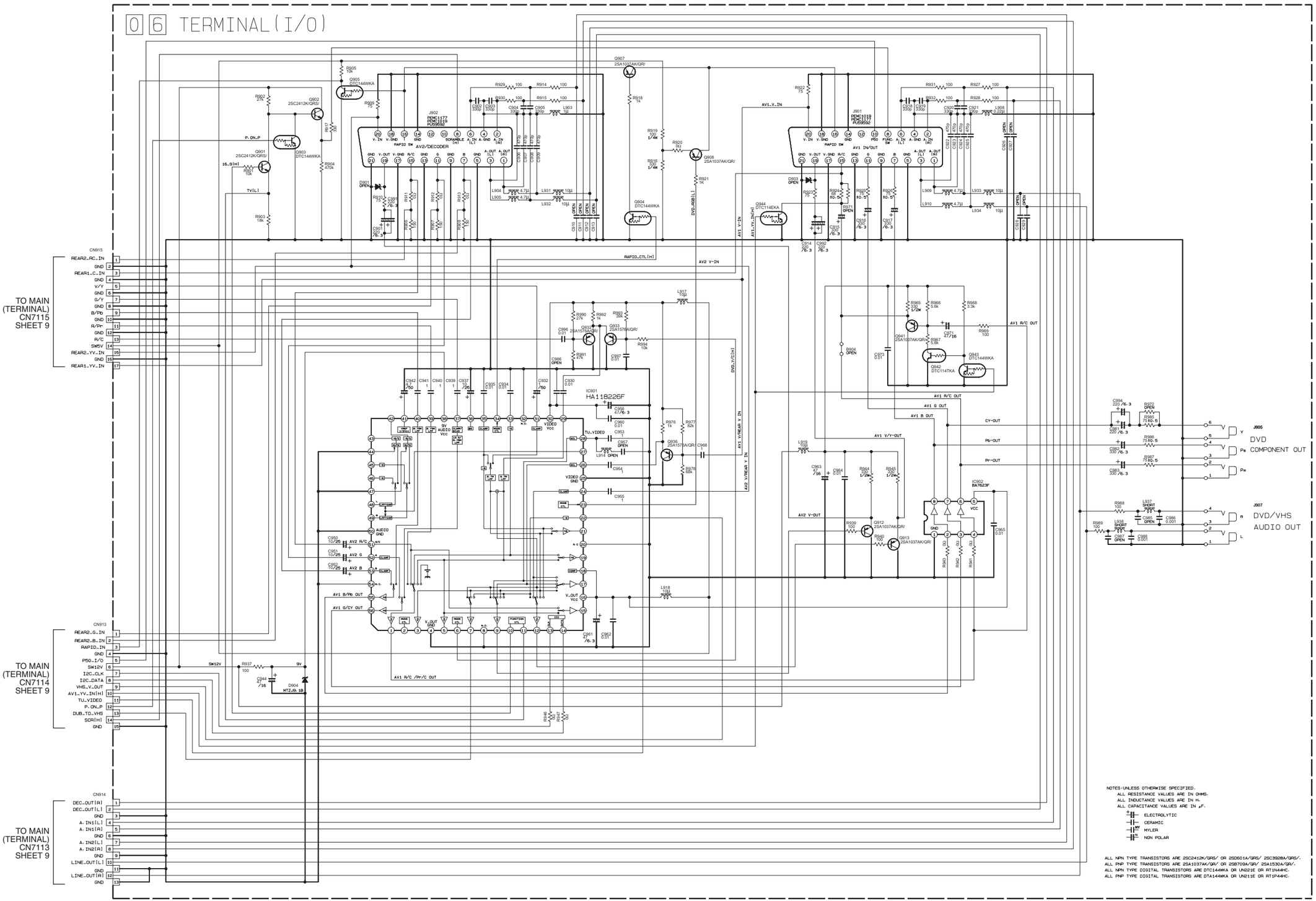
0 3 MAIN TERMINAL

p10749001a_rev0

SHEET 9

2-21 2-22

■ TERMINAL(I/O) SCHEMATIC DIAGRAM



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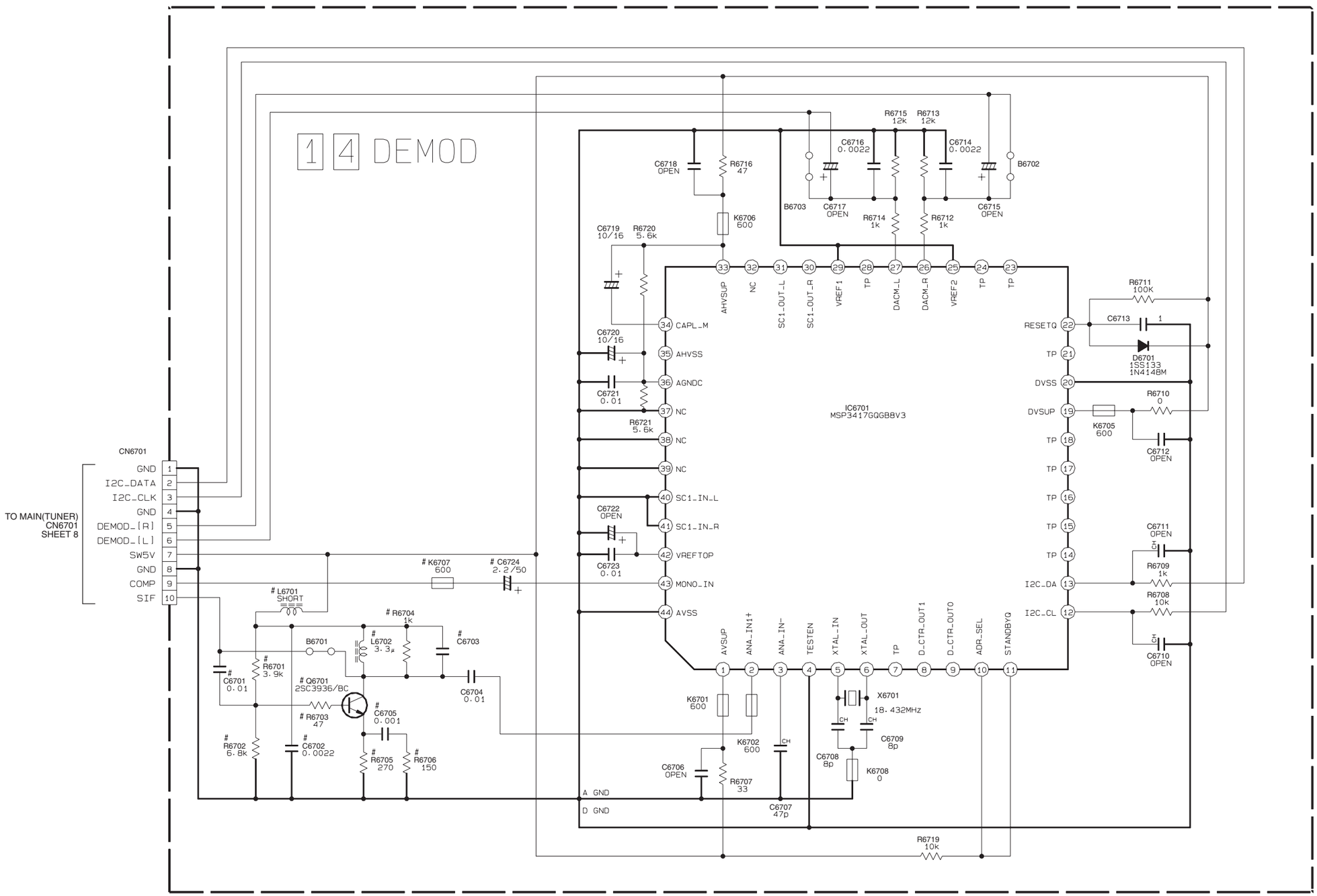
SHEET 10

■ DEMOD SCHEMATIC DIAGRAM



DIFFERENCE TABLE

FUNCTION	SYMBOL	EZ/ER/EL/EY EU/EK/AA/AG	EF
PREAMP	R6701-R6704, R6705, R6706, C6701-C6703, C6705, L6702, Q6701	×	×
MONO IN	C6724, K6707	×	○

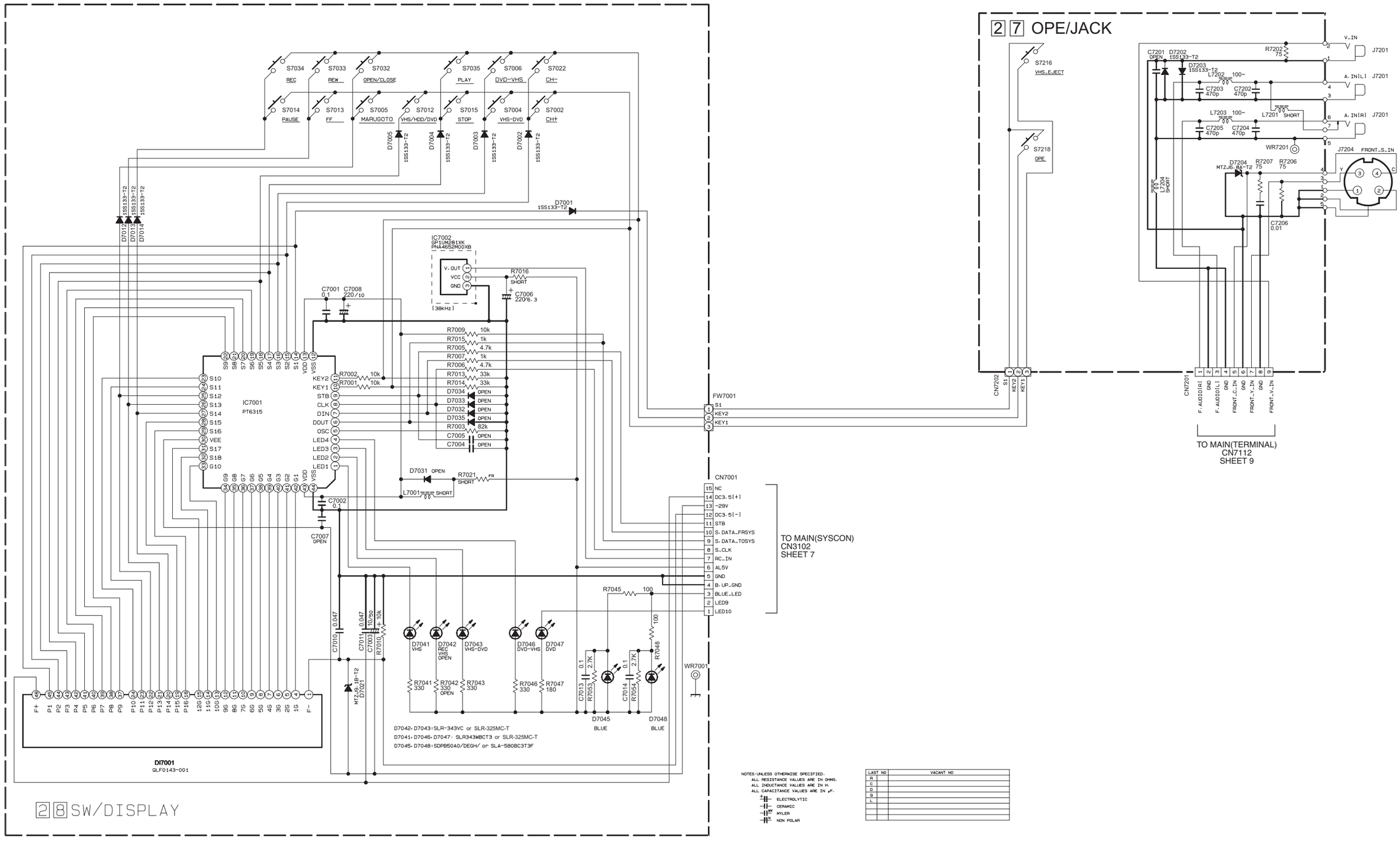
NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p20495001a_rev0

SHEET 11

■ OPERATION/JACK AND SWITCH/DISPLAY SCHEMATIC DIAGRAM



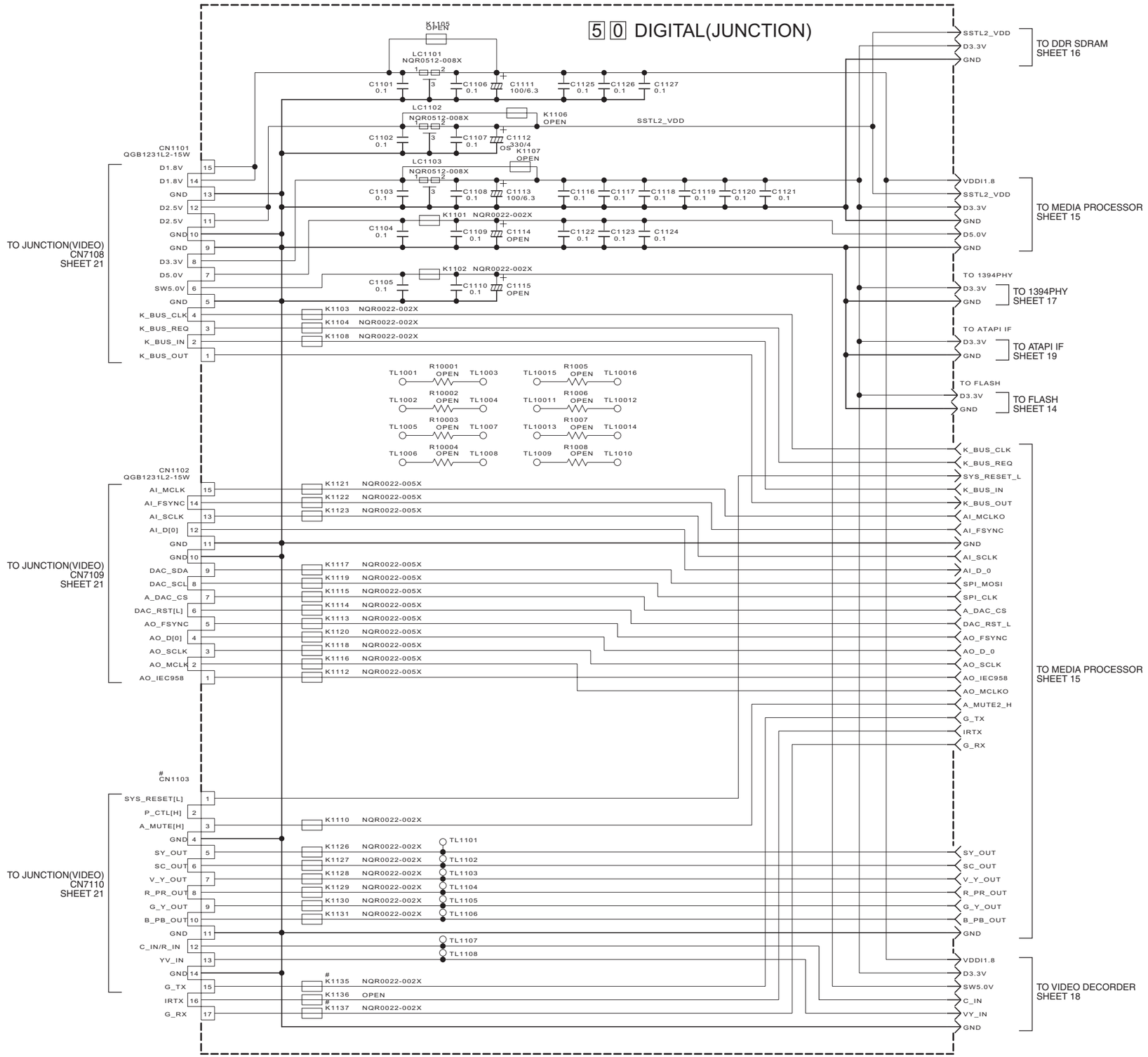
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

p10754001a_rev1

SHEET 12

■ DIGITAL(JUNCTION) SCHEMATIC DIAGRAM



NOTES:UNLESS OTHERWISE SPECIFIED

ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN Fμ

ELECTROLYTIC
CERAMIC
OS ORGANIC SEMICONDUCTOR
T TANTAL

MARK

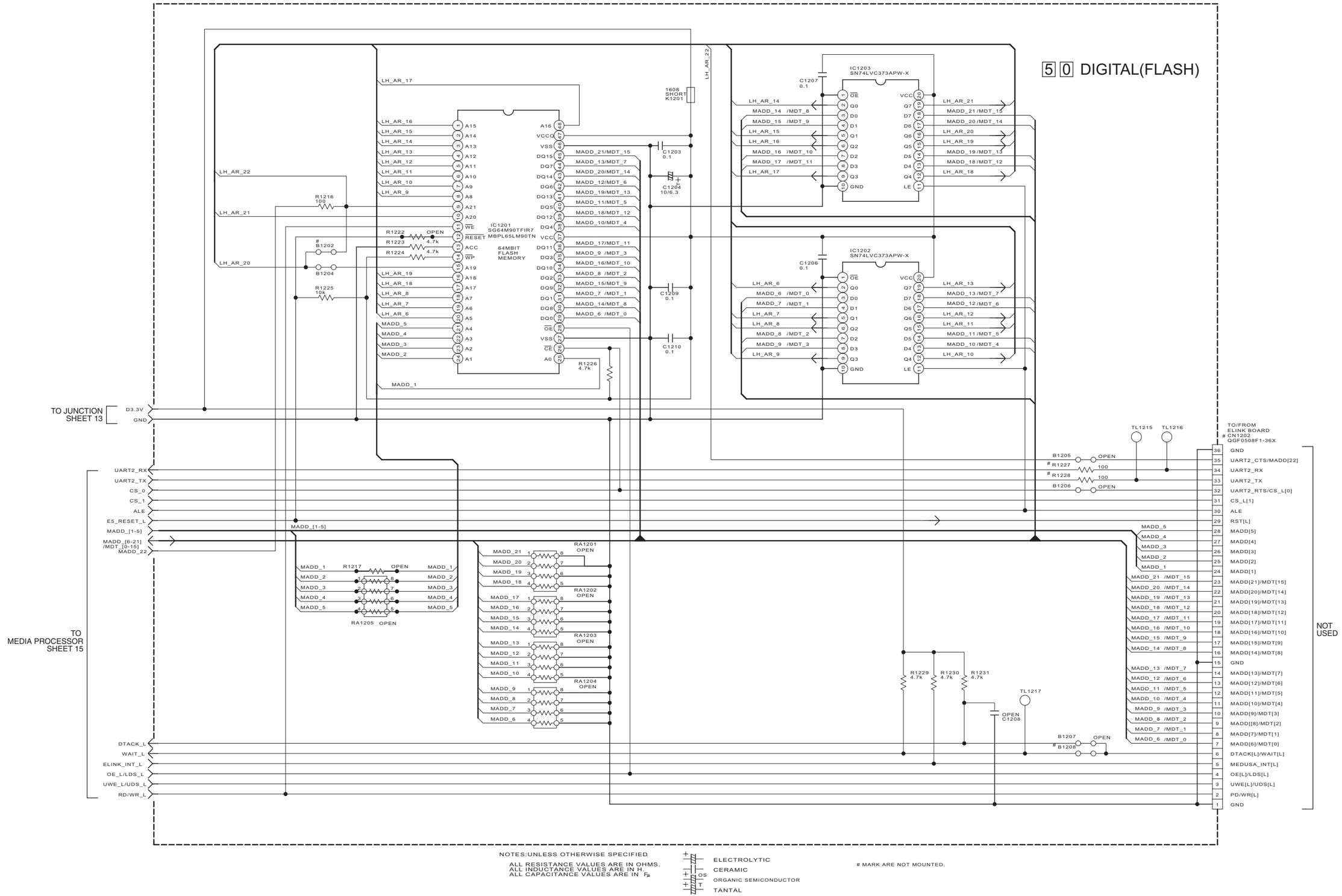
Ref / Dest / Key	CN1103	K1135 K1137
DR-MV5	QGF1016C2-17W	YES
OTHER	QGF1016C2-15W	NO

p20482001a_rev0

SHEET 13

■ DIGITAL(FLASH) SCHEMATIC DIAGRAM

5 0 DIGITAL(FLASH)



NOTES:UNLESS OTHERWISE SPECIFIED

ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN Fμ

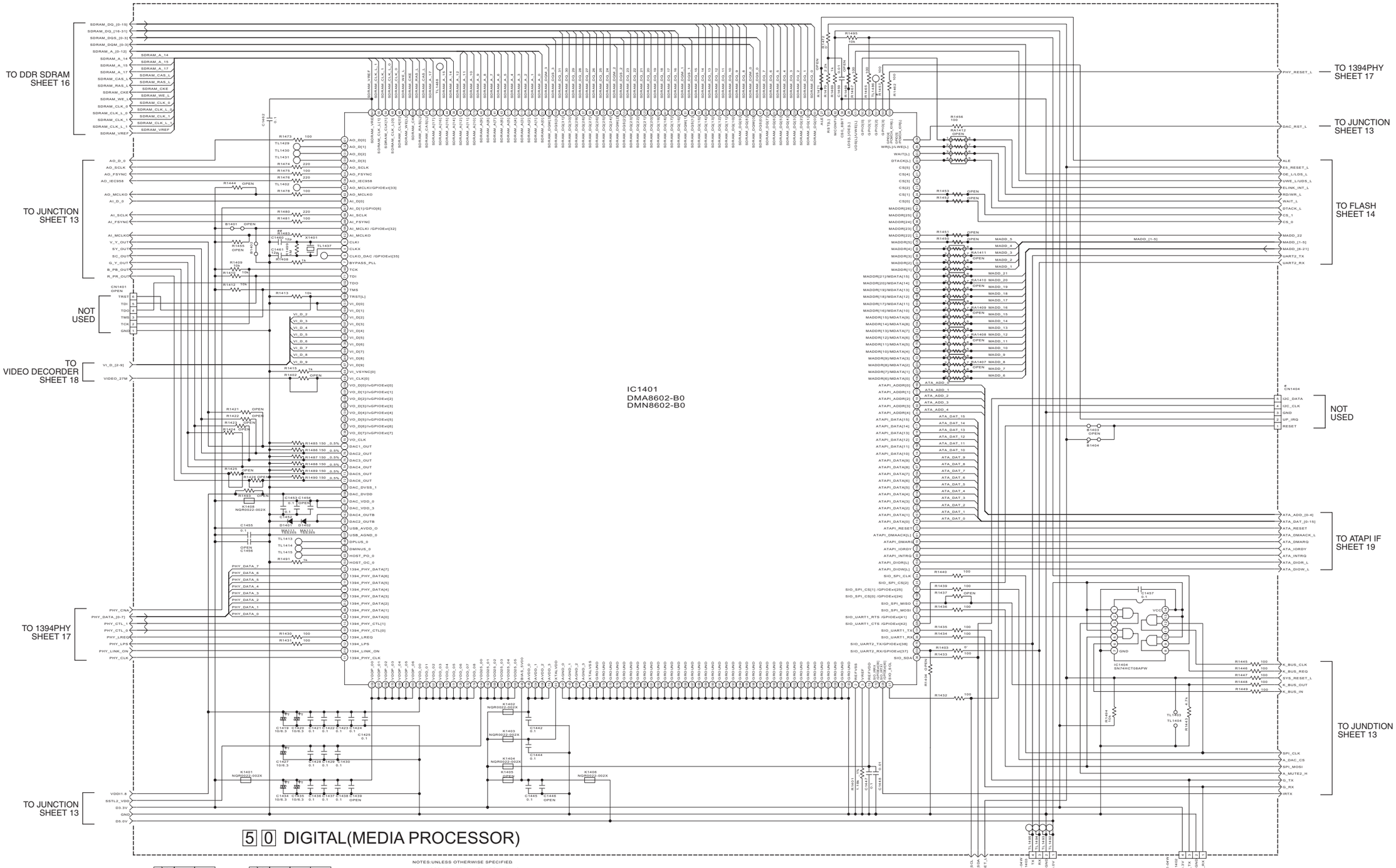
ELECTROLYTIC
CERAMIC
ORGANIC SEMICONDUCTOR
TANTAL

MARK ARE NOT MOUNTED.

p20480001a_rev1

SHEET 14

■ DIGITAL(MEDIA PROCESSOR) SCHEMATIC DIAGRAM



Ref Desi Key	R1483	CN1402
DR-MVS	100	NO
OTHER	820	YES

Ref Desi Key	CN1404	B1404	R1457
DR-M150	YES	YES	YES
OTHER	NO	NO	NO

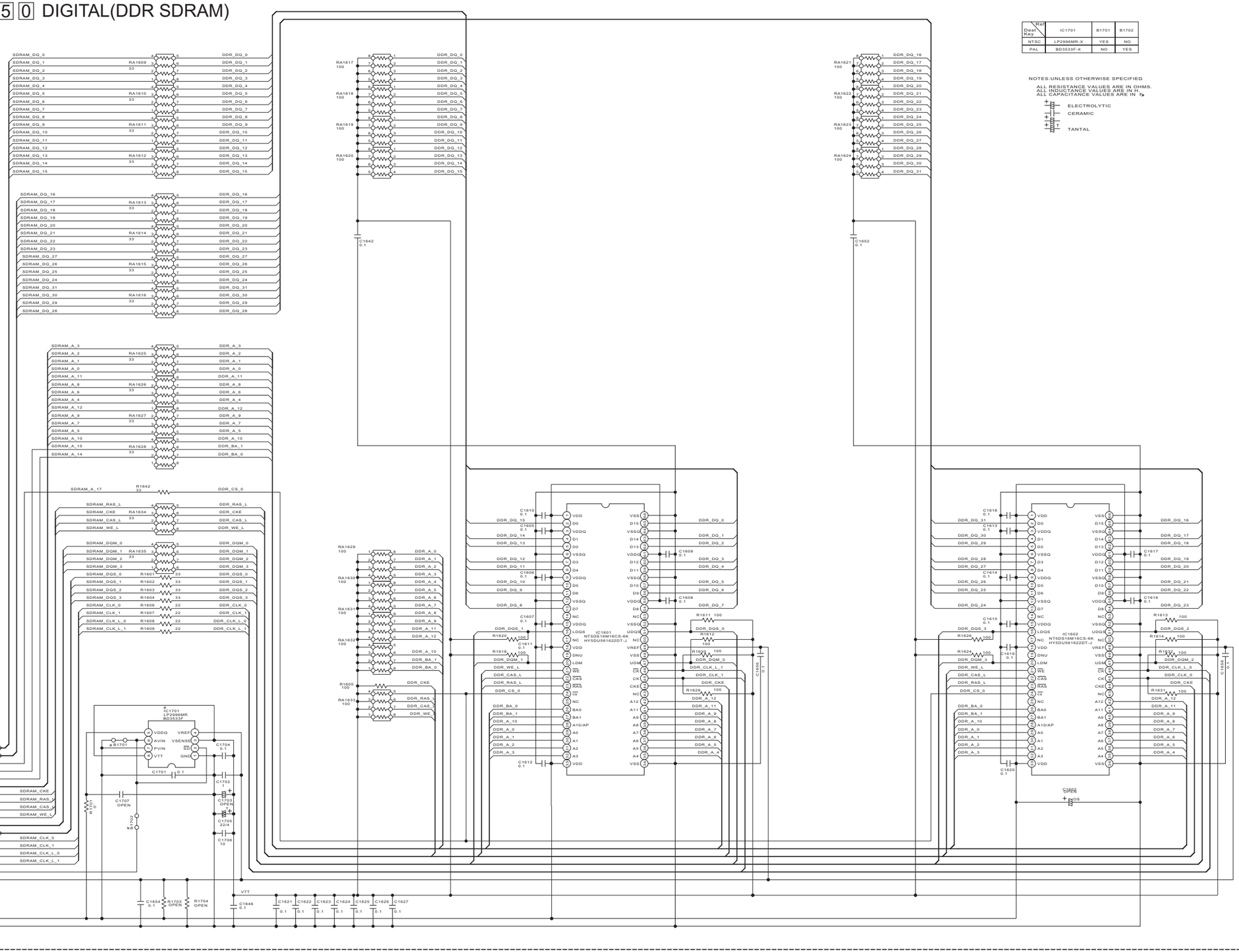
■ DIGITAL(DDR SDRAM) SCHEMATIC DIAGRAM

5 0 DIGITAL(DDR SDRAM)

Ref / Destination	IC1701	B1701	B1702
NTSC	LP2996MR-X	YES	NO
PAL	BD3533F-X	NO	YES

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

ELECTROLYTIC
CERAMIC
TANTAL

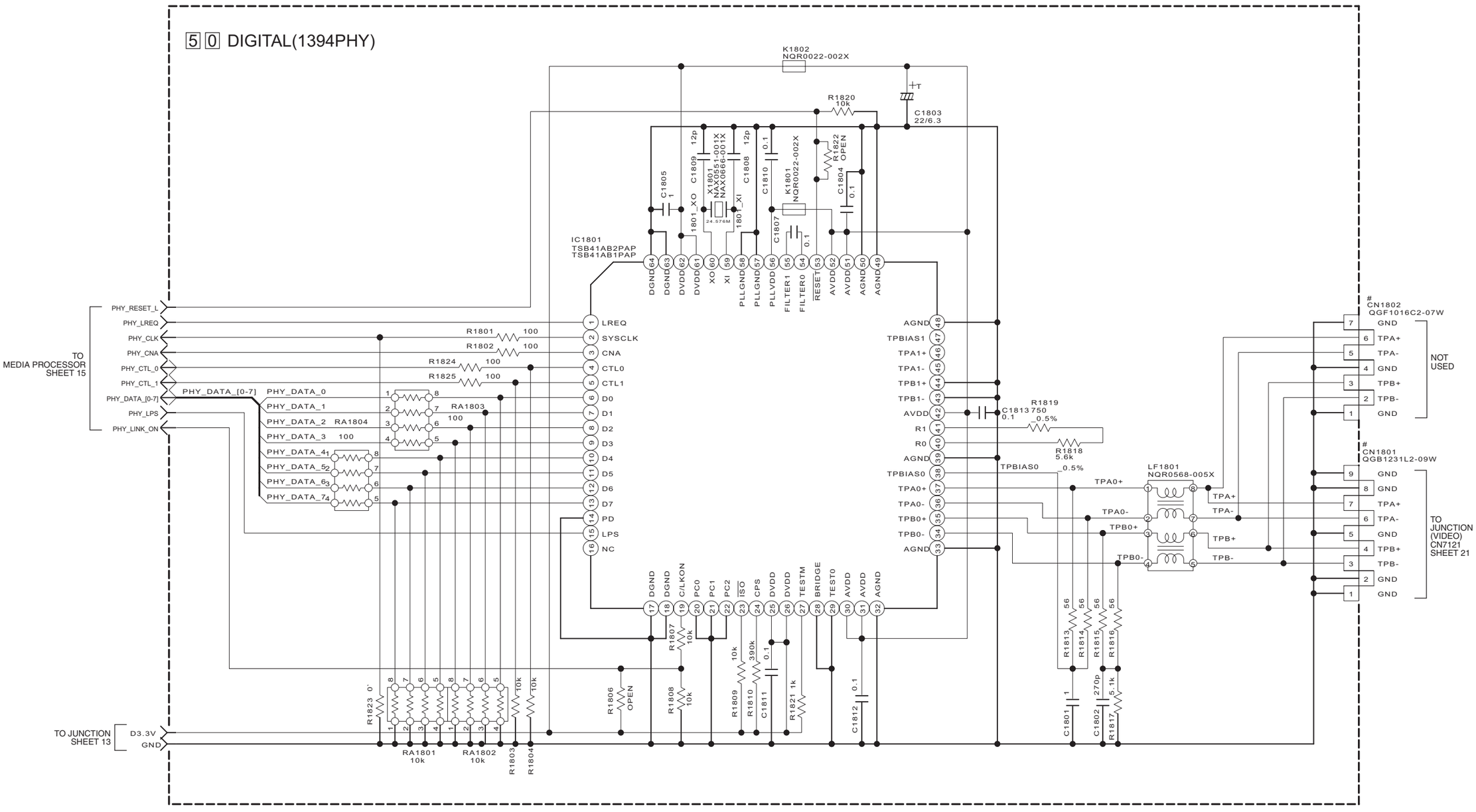


p10730001a_rev1

SHEET 16

■ DIGITAL(1394PHY) SCHEMATIC DIAGRAM

5 0 DIGITAL(1394PHY)



NOTES:UNLESS OTHERWISE SPECIFIED.

ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN Fμ

ELECTROLYTIC
CERAMIC
OS ORGANIC SEMICONDUCTOR
T TANTAL

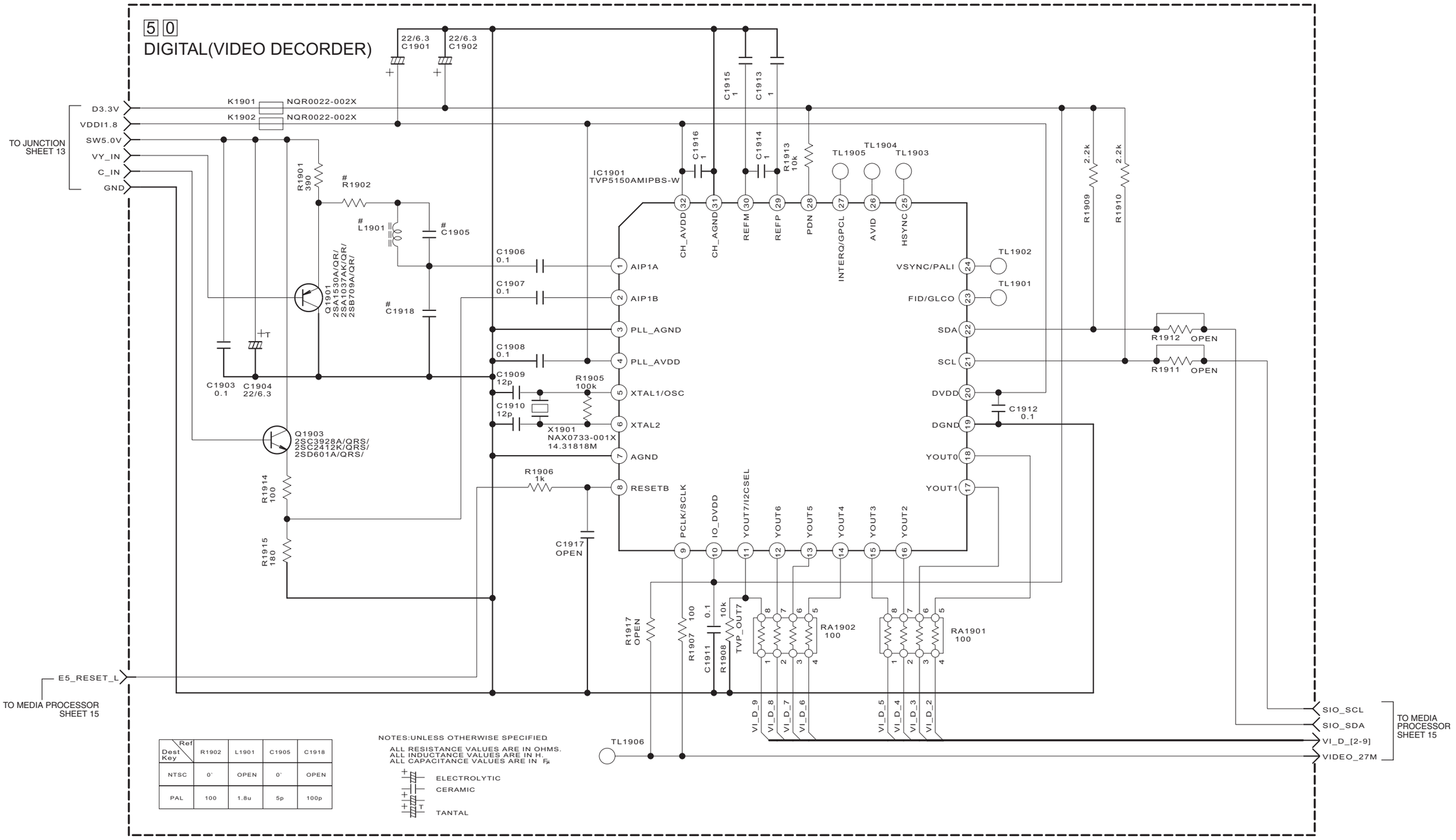
MARK

Dest / Ref Key	CN1801	CN1802
THEATER	NO	YES
OTHER	YES	NO

p30137001a_rev1

SHEET 17

■ DIGITAL(VIDEO DECORDER) SCHEMATIC DIAGRAM



Ref / Dest / Key	R1902	L1901	C1905	C1918
NTSC	0˙	OPEN	0˙	OPEN
PAL	100	1.8u	5p	100p

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

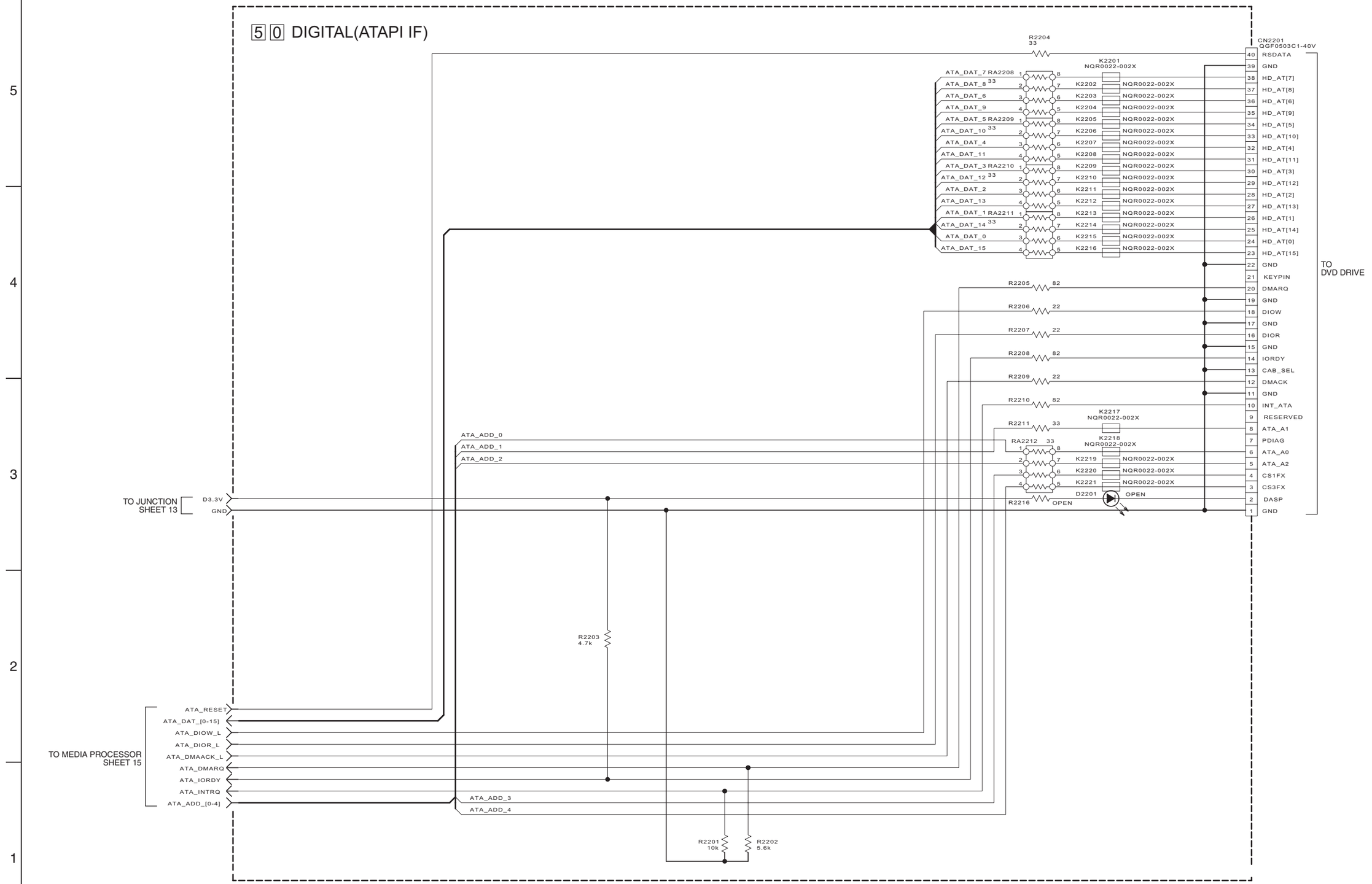
ELECTROLYTIC
CERAMIC
TANTAL

p30136001a_rev1

SHEET 18

■ DIGITAL(ATAPI IF) SCHEMATIC DIAGRAM

5 0 DIGITAL(ATAPI IF)



NOTES:UNLESS OTHERWISE SPECIFIED

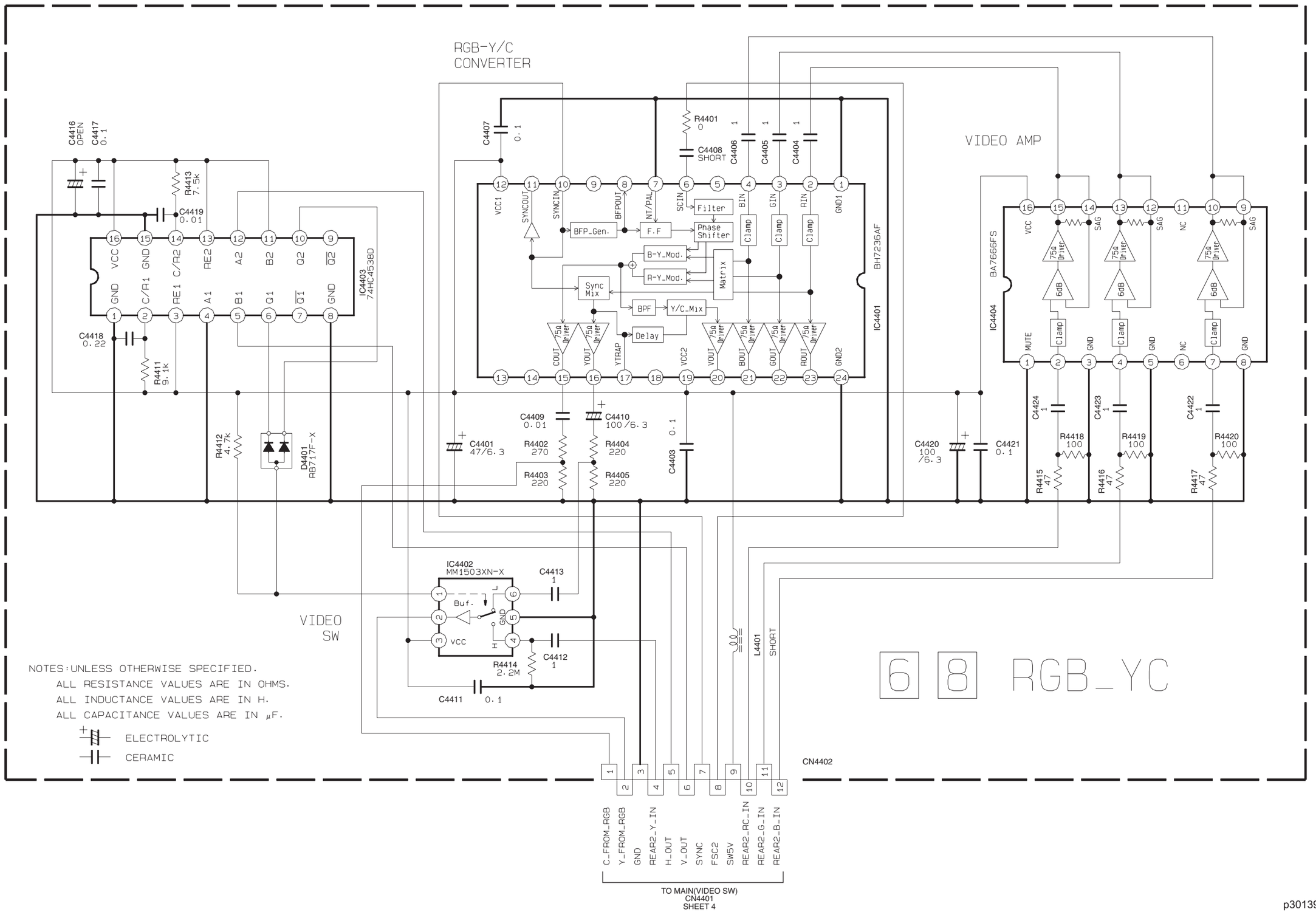
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN Fμ

ELECTROLYTIC
CERAMIC
OS ORGANIC SEMICONDUCTOR
TANTAL

p20481001a_rev0

SHEET 19

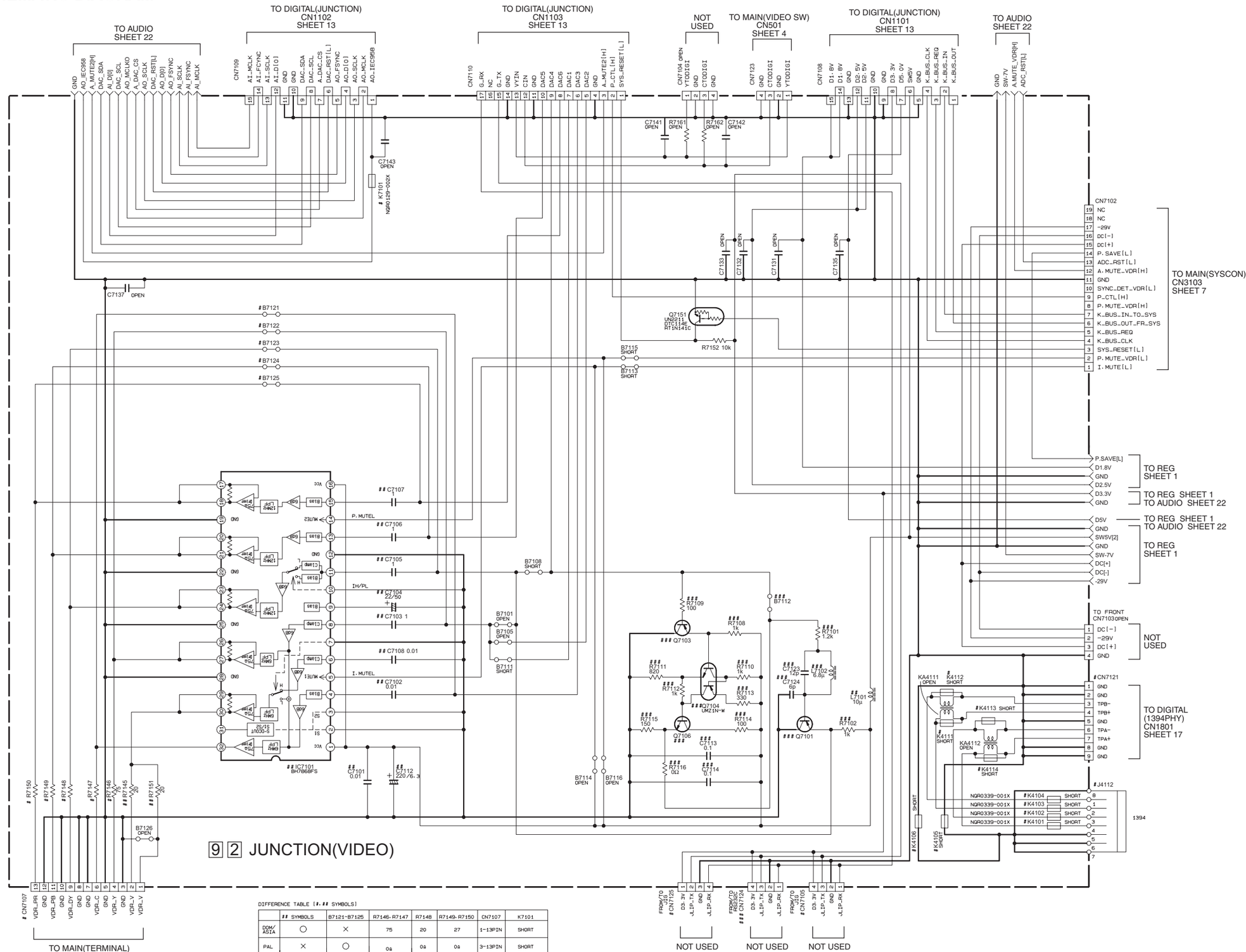
■ RGB YC SCHEMATIC DIAGRAM



p30139001a_rev0

SHEET 20

■ JUNCTION(VIDEO) SCHEMATIC DIAGRAM



	RGB MODE	OTHER MODE
DAC1	V	Y
DAC2	Y	Y
DAC3	C	C
DAC4	G	Y
DAC5	B	Pb
DAC6	R	Pr

	CN7125	CN7105
JVC DRIVE	○	×
JR* DRIVE	×	○

	CN7121.J4112 K4101~K4106 K4111~K4114	APPLIED MODELS
WITH 1-LINK	○	DR-MV5SUS DR-MV5SEU/EF etc
W/O 1-LINK	×	DR-MV4SUS DR-MV5JP etc

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

DIFFERENCE TABLE [#.## SYMBOLS]

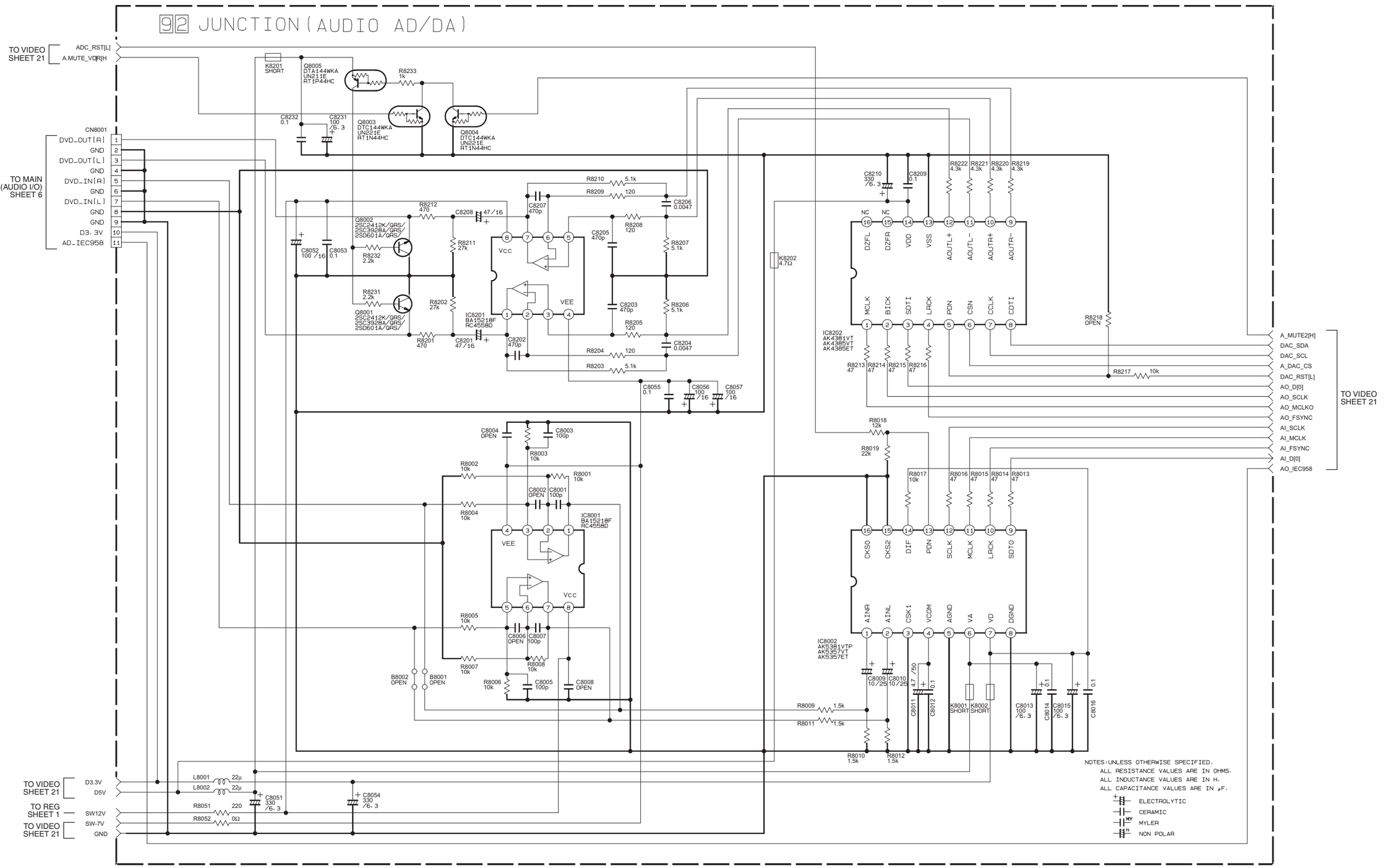
	## SYMBOLS	B7121-B7125	R7146-R7147	R7148	R7149-R7150	CN7107	K7101
DOM/ ASIA	○	×	75	20	27	1-13PIN	SHORT
PAL	×	○	0Ω	0Ω	0Ω	3-13PIN	SHORT
US	○	×	75	20	27	1-13PIN	SHORT

MARK ARE NOT MOUNTED

p20486001a_rev1

SHEET 21

■ JUNCTION(AUDIO AD/DA) SCHEMATIC DIAGRAM

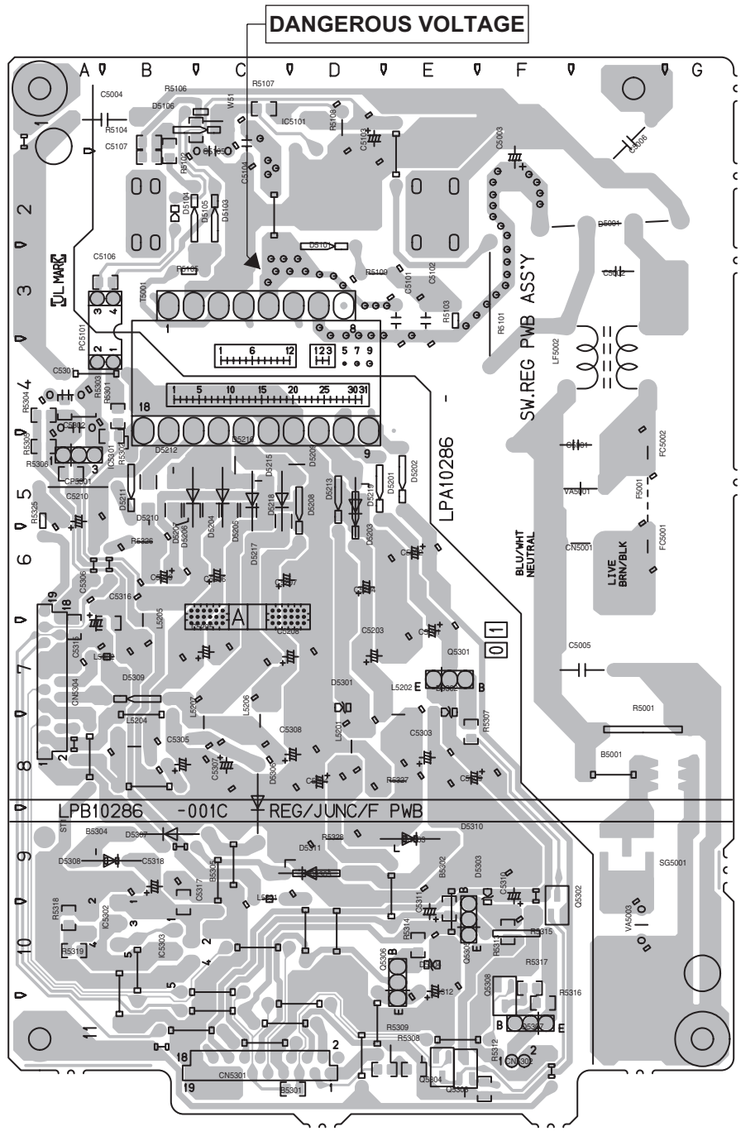


p20490001a_rev1

SHEET 22

■ SWITCHING REGULATOR CIRCUIT BOARD

<01>SWITCHING REGULATOR LPB10286-001C

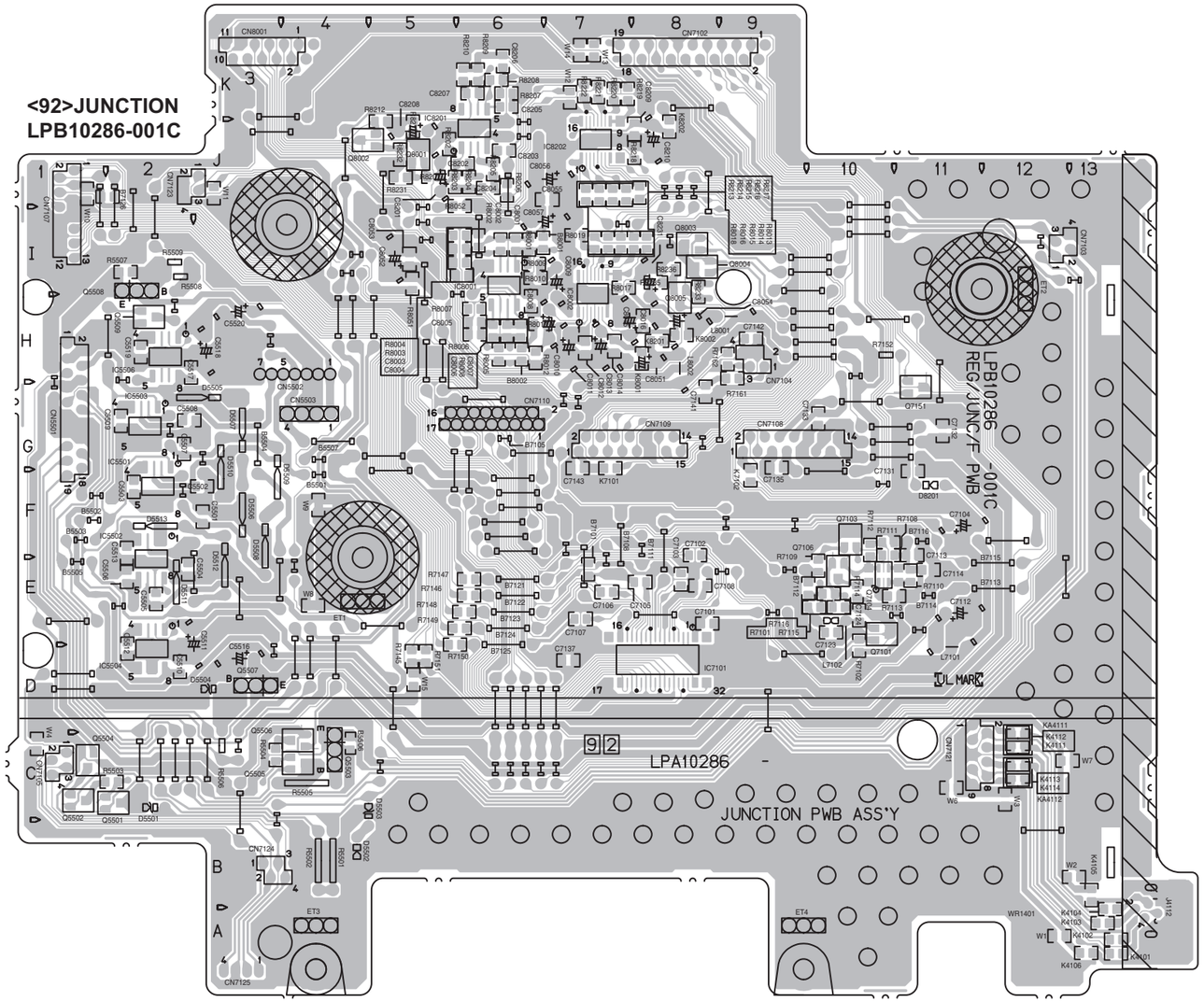


COMPONENT PARTS LOCATION GUIDE <SWITCHING REGULATOR> LPB10286-001C

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C5210	A D 5A			D5217	A D 5C			R5101	A D 2F	R5317	B C 10F
C5001	A D 5G	C5301	A D 4A	**DIODE**		D5218	B C 5C	**COIL**		R5102	B C 2B	R5318	B C 10A
C5002	A D 3G	C5302	A D 4A	D5001	A D 2F	D5219	A D 5D	L5201	A D 8D	R5103	A D 3E	R5319	B C 10A
C5003	A D 2F	C5303	A D 8E	D5101	A D 3D	D5301	A D 7D	L5202	A D 8D	R5104	B C 1B	R5325	A D 5A
C5004	A D 1B	C5304	A D 8D	D5103	A D 3C	D5302	A D 7E	L5204	A D 8B	R5105	A D 3C	R5326	A D 6B
C5005	A D 7F	C5305	A D 8B	D5104	A D 2B	D5303	A D 9F	L5205	A D 6B	R5106	A D 1C	R5327	A D 8D
C5006	A D 2G	C5306	A D 6A	D5105	A D 3B	D5304	A D 10E	L5206	A D 7C	R5107	B C 1C	R5328	A D 9D
C5101	A D 3E	C5307	A D 8C	D5106	A D 1B	D5305	A D 9D	L5207	A D 7C	R5108	A D 1D		
C5102	A D 3E	C5308	A D 8C	D5201	A D 5D	D5306	A D 8C	L5301	A D 9C	R5109	A D 3D	**OTHER**	
C5103	A D 1D	C5309	A D 8F	D5202	A D 5E	D5307	A D 9C	L5302	A D 7A	R5301	B C 4B	CP5301	A D 5B
C5104	A D 1C	C5310	A D 10F	D5203	A D 5D	D5308	A D 9A			R5302	B C 5B	FC5001	A D 6G
C5105	A D 2C	C5311	A D 10E	D5204	B C 5C	D5309	A D 7B	**TRANSISTOR**		R5303	B C 4A	FC5002	A D 5G
C5106	B C 3B	C5312	A D 10E	D5205	A D 5C	D5310	A D 9D	Q5301	A D 7E	R5304	B C 4A	LF5002	A D 4F
C5107	B C 2B	C5315	B C 7A	D5206	A D 5B	D5311	A D 9D	Q5302	B C 10F	R5305	B C 5A	PC0172	A D 6G
C5201	A D 7E	C5316	B C 7B	D5207	B C 5B			Q5303	B C 11E	R5306	B C 5A	PC0174	A D 6F
C5202	A D 6E	C5317	B C 10B	D5208	A D 5D	**FUSE**		Q5304	B C 11E	R5307	B C 8E	PC5101	A D 4B
C5203	A D 7D	C5318	A D 9B	D5209	A D 5C	F5001	A D 6G	Q5305	A D 10E	R5308	B C 11E	SG5001	B C 9G
C5204	A D 6D			D5210	B C 5B			Q5306	A D 11E	R5309	B C 11E	T5001	A D 3B
C5205	A D 7B	**CONNECTOR**		D5211	A D 5B	**IC**		Q5307	A D 11F	R5312	B C 12F	VA5001	A D 5F
C5206	A D 6C	CN5001	A D 6G	D5212	B C 5B	IC5101	A D 1C	Q5308	B C 11F	R5313	B C 10F	VA5003	A D 10G
C5207	A D 6C	CN5301	A D 11D	D5213	A D 5D	IC5301	A D 5A			R5314	B C 10E		
C5208	A D 7C	CN5302	A D 11F	D5215	B C 5C	IC5302	A D 10B	**RESISTOR**		R5315	A D 10F		
C5209	A D 6B	CN5304	A D 8A	D5216	B C 5C	IC5303	A D 10B	R5001	A D 8G	R5316	B C 11F		

■ JUNCTION CIRCUIT BOARD

<92>JUNCTION LPB10286-001C

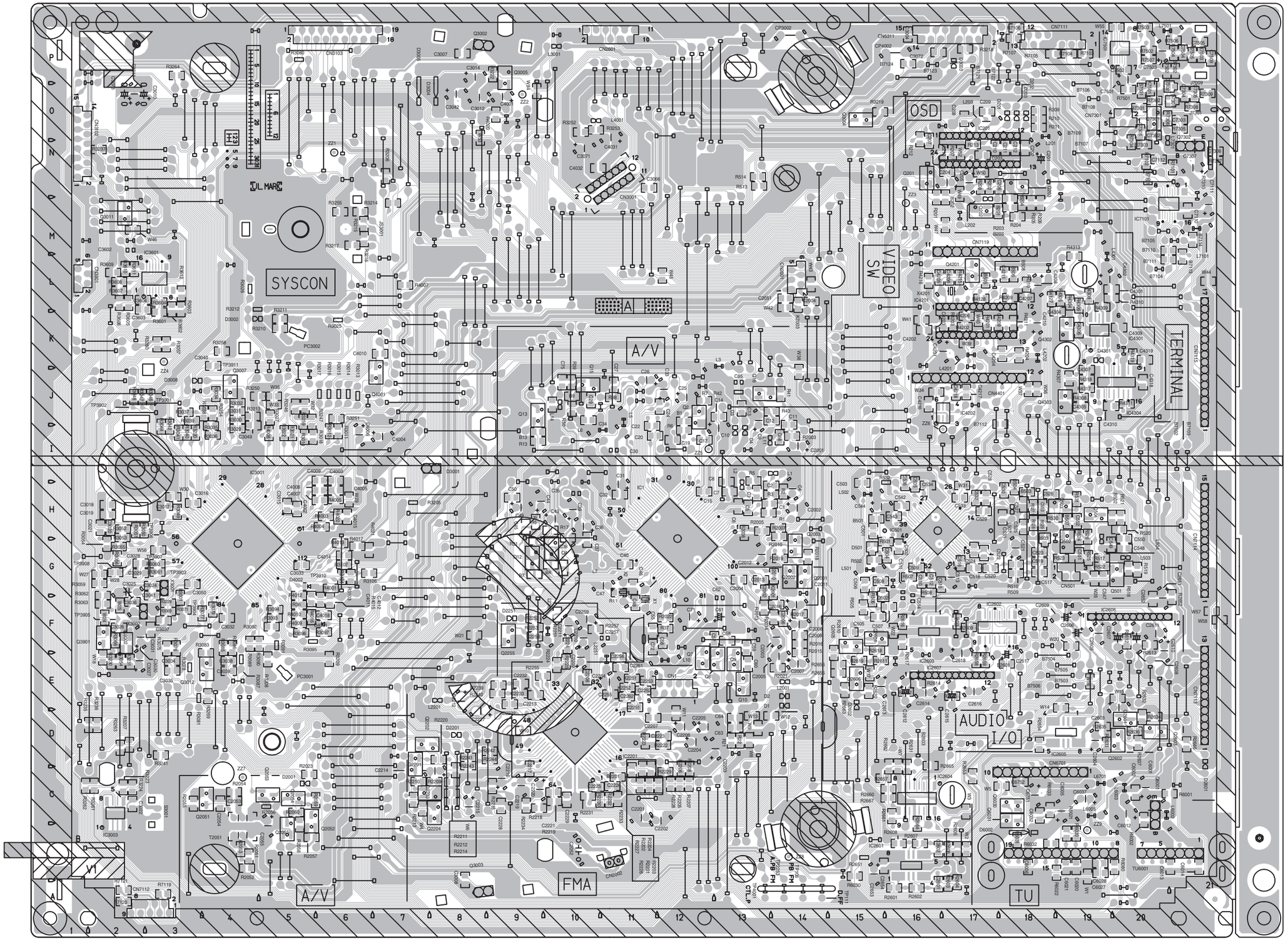


COMPONENT PARTS LOCATION GUIDE <JUNCTION> LPB10286-001C

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C7108	B C 8E	C8013	A D 7H	CN5503	A D 4G	D5511	A D 2E	Q5503	A D 4C	R5508	A D 2I	R8004	B C 6I	R8209	B C 6K	K4105	B C 13B
C5501	B C 3F	C7112	A D 11E	C8014	B C 7H	CN7102	A D 9K	D5512	A D 3E	Q5504	B C 1C	R5509	A D 2I	R8005	B C 6H	R8210	B C 6K	K4106	B C 13A
C5502	B C 3F	C7113	B C 11F	C8015	A D 7H	CN7103	A D 12I	D5513	A D 2F	Q5505	B C 4C	R7101	B C 10E	R8006	B C 6H	R8211	B C 5J	K4111	B C 12C
C5503	B C 2F	C7114	B C 11E	C8016	B C 8H	CN7104	A D 9H	D8201	A D 11F	Q5506	B C 4C	R7102	B C 10D	R8007	B C 6H	R8212	B C 5J	K4112	B C 12D
C5504	B C 2E	C7123	B C 10E	C8051	A D 8H	CN7105	A D 1C			Q5507	A D 3D	R7108	B C 10F	R8008	B C 6H	R8213	B C 7J	K4113	B C 12C
C5505	B C 2E	C7124	B C 10E	C8052	A D 5I	CN7107	A D 1J	**IC**		Q5508	A D 2I	R7109	B C 10E	R8009	B C 6I	R8214	B C 7J	K4114	B C 12C
C5506	B C 2E	C7131	B C 11F	C8053	B C 5I	CN7108	A D 9G	IC5501	B C 2F	Q5509	B C 2H	R7110	B C 11E	R8010	B C 6I	R8215	B C 7J	K7101	B C 7G
C5507	B C 2G	C7132	B C 11G	C8054	A D 8H	CN7109	A D 7G	IC5502	B C 2E	Q7101	B C 10E	R7111	B C 10F	R8011	B C 6H	R8216	B C 7J	K7102	B C 9F
C5508	B C 2G	C7133	B C 10G	C8055	B C 7J	CN7110	A D 6G	IC5503	B C 2G	Q7103	B C 10F	R7112	B C 10F	R8012	B C 6H	R8217	B C 8J	K8001	B C 8H
C5509	B C 2G	C7135	B C 9G	C8056	A D 7J	CN7121	A D 11D	IC5504	B C 2D	Q7104	B C 10E	R7113	B C 11E	R8013	B C 8I	R8218	B C 8J	K8002	B C 8H
C5510	B C 2D	C7137	B C 7D	C8057	A D 7I	CN7123	A D 3J	IC5506	B C 2H	Q7106	B C 10E	R7114	B C 10E	R8014	B C 8I	R8219	B C 7K	K8201	B C 8H
C5511	A D 3E	C7141	B C 8G	C8201	A D 5J	CN7124	A D 3B	IC7101	B C 8D	Q7151	B C 11G	R7115	B C 10E	R8015	B C 7I	R8220	B C 7K	K8202	B C 8J
C5512	B C 2D	C7142	B C 9H	C8202	B C 6J	CN7125	A D 3A	IC8201	B C 6I	Q8001	B C 5J	R7116	B C 10E	R8016	B C 7I	R8221	B C 7K	KA4111	B C 12C
C5513	B C 2F	C7143	B C 7G	C8203	B C 6J	CN8001	A D 4K	IC8202	B C 7J	Q8002	B C 4J	R7145	B C 5D	R8017	B C 7I	R8222	B C 7K	KA4112	B C 12C
C5516	A D 3D	C8001	B C 6I	C8204	B C 6J					Q8003	B C 8I	R7146	B C 6E	R8018	B C 7I	R8231	B C 5J		
C5517	B C 2H	C8002	B C 6I	C8205	B C 6K	**DIODE**				Q8004	B C 8H	R7147	B C 6E	R8019	B C 7I	R8232	B C 5J		
C5518	A D 3H	C8003	B C 6I	C8206	B C 6K	D5501	A D 2C					R7148	B C 6E	R8201	B C 5I	R8233	B C 8I		
C5519	B C 2H	C8004	B C 6I	C8207	B C 6K	D5502	A D 4B	**COIL**				R7149	B C 6E	R8052	B C 6J	R8235	B C 8I		
C5520	A D 3H	C8005	B C 6H	C8208	A D 5J	D5503	A D 5C	L7101	A D 11D	**RESISTOR**		R7150	B C 5E	R8201	B C 5J	R8236	B C 8I		
C7101	B C 8E	C8006	B C 6H	C8209	B C 8J	D5504	A D 3D	L7102	A D 10E	R5501	A D 4B	R7151	B C 5D	R8202	B C 5J				
C7102	B C 8F	C8007	B C 6H	C8210	A D 8J	D5505	A D 2G	L8001	A D 9H	R5502	A D 4B	R7152	A D 11H	R8203	B C 5J	**OTHER**			
C7103	B C 8E	C8008	B C 6H	C8231	A D 8H	D5506	A D 3F	L8002	A D 8G	R5503	B C 2C	R7161	B C 9H	R8204	B C 6J	J4112	A D 13A		
C7104	A D 11F	C8009	A D 7H			D5507	A D 3G			R5504	B C 3C	R7162	B C 9H	R8205	B C 6J	K4101	B C 13A		
C7105	B C 8E	C8010	A D 7H	**CONNECTOR**		D5508	A D 3E	**TRANSISTOR**		R5505	A D 3C	R8001	B C 6I	R8206	B C 6J	K4102	B C 13A		
C7106	B C 7E	C8011	A D 7H	CN5501	A D 1H	D5509	A D 3F	Q5501	B C 2C	R5506	A D 3D	R8002	B C 6I	R8207	B C 6K	K4103	B C 13A		
C7107	B C 7E	C8012	B C 7H	CN5502	A D 4H	D5510	A D 3F	Q5502	B C 1C	R5507	B C 2I	R8003	B C 6I	R8208	B C 6K	K4104	B C 13A		

■ MAIN CIRCUIT BOARD

<03>MAIN
LPB10293-001B



COMPONENT PARTS LOCATION GUIDE <MAIN> LPB10293-001B

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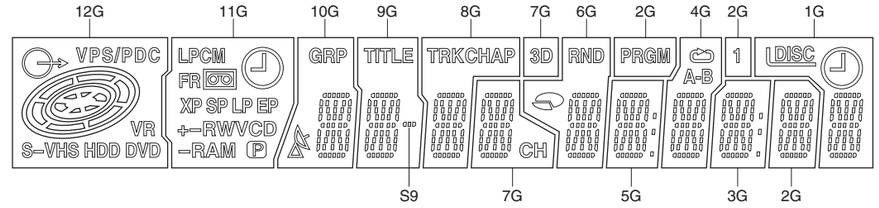
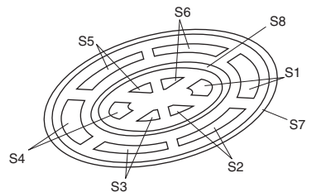
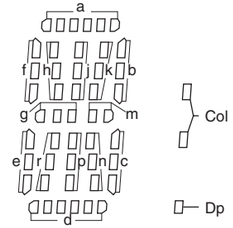
■ FDP GRID ASSIGNMENT AND ANODE CONNECTION







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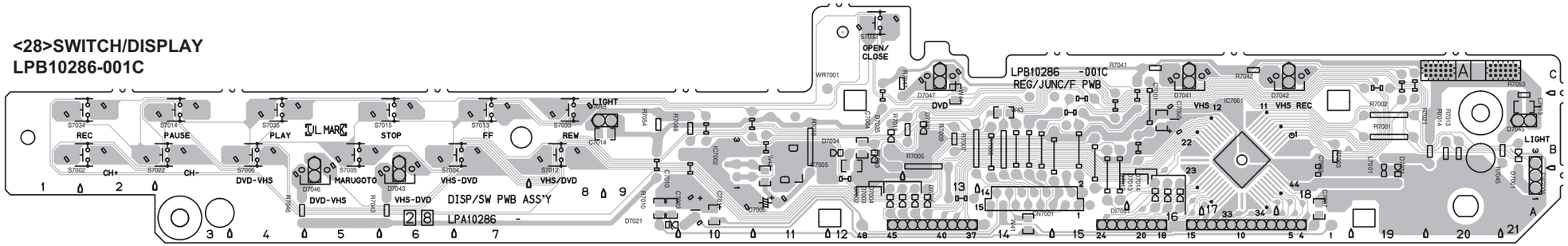
P2				S9	CHAP	CH		Dp	A-B	Dp	PRGM	DISC
P3	-		a	a	a	a	a	a	a	a		a
P4	S1	FR	h	h	h	h	h	h	h	h	h	h
P5	S2	XP	j	j	j	j	j	j	j	j	j	j
P6	S3	SP	k	k	k	k	k	k	k	k	k	k
P7	S4	LP	b	b	b	b	b	b	b	b	b	b
P8	S5	EP	f	f	f	f	f	f	f	f	f	f
P9	S6	+	m	m	m	m	m	m	m	m	m	m
P10	S7	–	g	g	g	g	g	g	g	g	g	g
P11	S8	R	c	c	c	c	c	c	c	c	c	c
P12	VR	W	e	e	e	e	e	e	e	e	e	e
P13	S–	V	r	r	r	r	r	r	r	r	r	r
P14	VHS	CD	p	p	p	p	p	p	p	p	p	p
P15	HDD	-RAM	n	n	n	n	n	n	n	n	n	n
P16	DVD	Ⓟ	d	d	d	d	d	d	d	d	d	d

■ OPERATION/JACK,SWITCH/DISPLAY AND TERMINAL CIRCUIT BOARDS

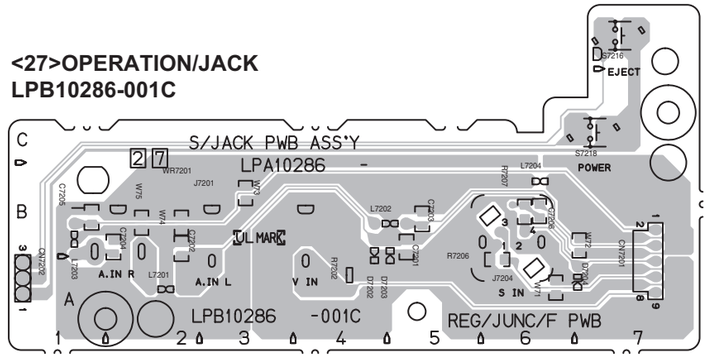
<28>SWITCH/DISPLAY
LPB10286-001C



COMPONENT PARTS LOCATION GUIDE <SWITCH/DISPLAY> LPB10286-001C

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR				D7021	A D 10A	DI7001	A D 15B	R7005	A D 12B	R7045	A D 21B	S7012	A D 8B
C7001	B C 16B	**CONNECTOR**		D7031	A D 19B			R7006	A D 14B	R7046	A D 4A	S7013	A D 7B
C7002	A D 18A	CN7001	A D 15A	D7032	A D 13B	**IC**		R7007	A D 13B	R7047	A D 12B	S7014	A D 3B
C7003	A D 10A			D7033	A D 12A	IC7001	B C 17B	R7009	A D 13B	R7048	A D 10B	S7015	A D 6B
C7004	B C 12B	DIODE		D7034	A D 11B	IC7002	A D 11B	R7010	B C 9A	R7053	A D 21B	S7022	A D 3B
C7005	B C 12B	D7001	A D 21B	D7035	A D 12B			R7013	A D 20B	R7054	A D 9B	S7032	A D 12C
C7006	A D 11A	D7002	A D 12A	D7041	A D 16C	**COIL**		R7014	A D 20B			S7033	A D 8B
C7007	B C 18A	D7003	A D 13A	D7042	A D 18C	L7001	A D 19A	R7015	A D 13B	**OTHER**		S7034	A D 2B
C7008	A D 16B	D7004	A D 13A	D7043	A D 6A			R7016	A D 11B	FW7001	A D 21A	S7035	A D 4B
C7010	B C 9A	D7005	A D 13A	D7045	A D 21B	**RESISTOR**		R7021	A D 20B	S7002	A D 2B		
C7011	B C 10A	D7012	A D 16A	D7046	A D 5A	R7001	A D 19B	R7041	A D 16C	S7004	A D 7B		
C7013	B C 21B	D7013	A D 16A	D7047	A D 13C	R7002	A D 19B	R7042	A D 17C	S7005	A D 5B		
C7014	B C 9B	D7014	A D 16A	D7048	A D 9B	R7003	A D 18B	R7043	A D 6A	S7006	A D 4B		

<27>OPERATION/JACK
LPB10286-001C



<06>TERMINAL
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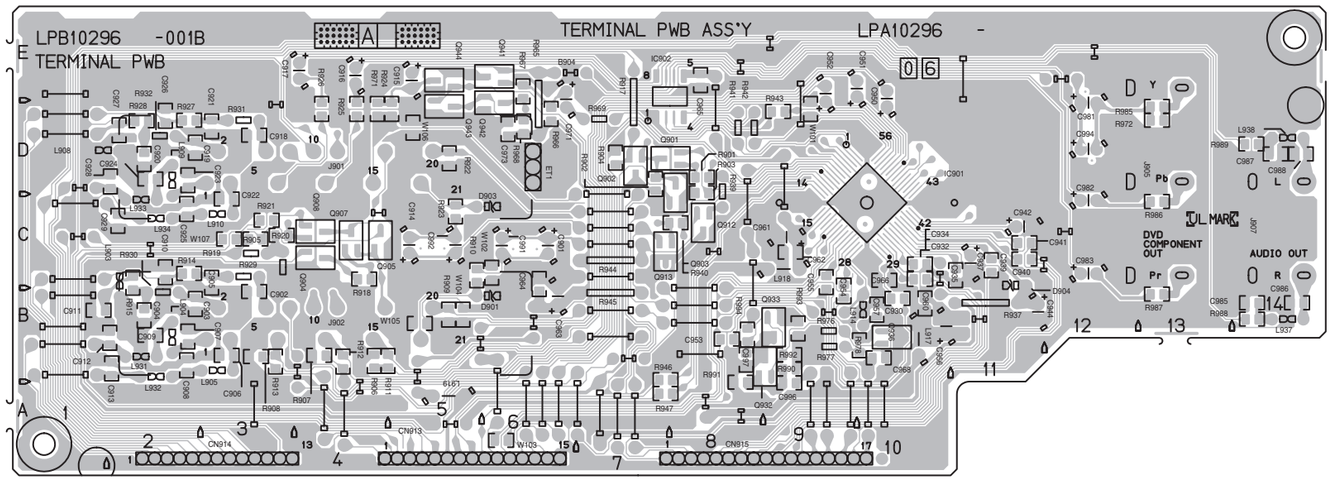

COMPONENT PARTS LOCATION GUIDE <TERMINAL> LPB10296-001B

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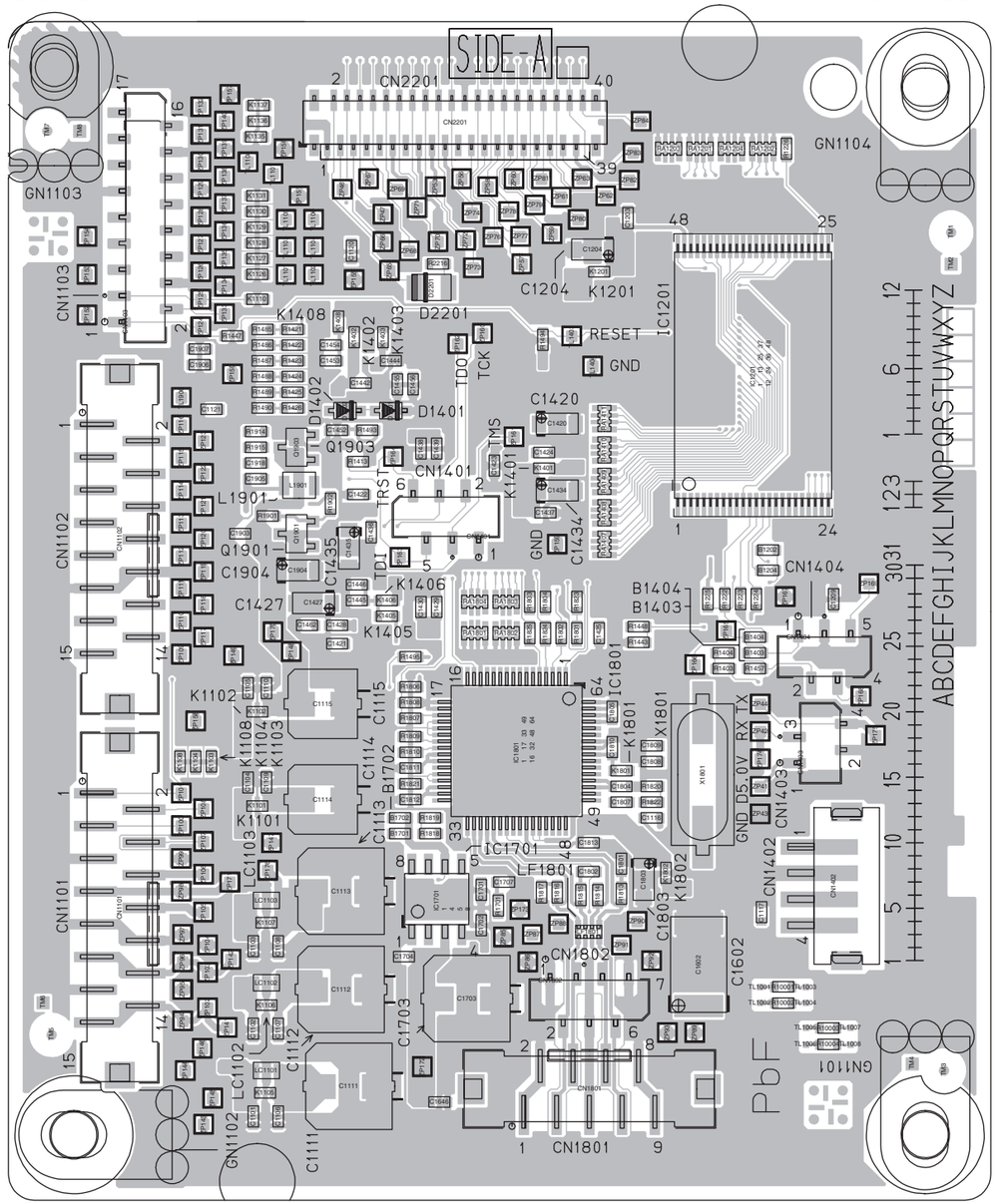
CAPACITOR		C928	B C 2D	C971	A D 6E			Q913	B C 7C	R919	A D 3C	R969	A D 7D
C901	A D 6C	C929	B C 2C	C973	B C 6D	**COIL**		Q932	B C 9B	R920	A D 3C	R971	B C 4D
C902	B C 3B	C930	B C 10B	C981	A D 12D	L903	A D 2B	Q933	B C 9B	R921	B C 3C	R972	B C 13D
C903	B C 2B	C932	B C 10C	C982	A D 12C	L904	A D 2B	Q936	B C 10B	R922	B C 5D	R976	A D 9B
C904	B C 2B	C934	B C 10C	C983	A D 12C	L905	A D 3B	Q941	B C 6E	R923	B C 5C	R977	A D 9B
C905	B C 3C	C935	B C 11C	C985	B C 14B	L908	A D 2D	Q942	B C 6D	R924	B C 5D	R978	B C 10B
C906	B C 3B	C937	A D 11C	C986	B C 14B	L909	A D 2C	Q943	B C 5D	R925	B C 4D	R985	B C 13D
C907	B C 2B	C939	B C 11C	C987	B C 14D	L910	A D 3C	Q944	B C 5E	R926	B C 4C	R986	B C 13C
C908	B C 2B	C940	B C 11C	C988	B C 14D	L914	A D 10B			R927	B C 2D	R987	B C 13B
C909	B C 2B	C941	B C 11C	C991	A D 6C	L917	A D 10B	**RESISTOR**		R928	B C 2D	R988	B C 14B
C910	B C 2C	C942	A D 11C	C992	A D 5C	L918	A D 9C	R901	B C 8D	R929	A D 3C	R989	B C 14D
C911	B C 1B	C944	A D 11B	C994	A D 12D	L919	A D 5A	R902	B C 7D	R930	A D 2B	R990	B C 9B
C912	B C 2B	C950	A D 10D	C996	B C 9A	L931	A D 2B	R903	B C 8D	R931	A D 3D	R991	B C 8A
C913	B C 2B	C951	A D 10E	C997	B C 8B	L932	A D 2B	R904	B C 7D	R932	A D 2D	R992	B C 9B
C914	A D 5C	C952	A D 9D			L933	A D 2C	R905	B C 3C	R937	A D 11B	R993	B C 9B
C915	A D 5E	C953	B C 8B	**CONNECTOR**		L934	A D 2C	R906	B C 4B	R939	A D 8D	R994	B C 8B
C916	A D 4E	C954	B C 9B	CN913	A D 4A	L937	A D 14B	R907	B C 4B	R940	B C 8C		
C917	A D 4E	C955	B C 9C	CN914	A D 2A	L938	A D 14D	R908	B C 3B	R941	A D 8D	**OTHER**	
C918	B C 3D	C956	A D 10B	CN915	A D 7A			R909	B C 5B	R942	A D 8D	J901	A D 4D
C919	B C 2D	C957	B C 10B			**TRANSISTOR**		R910	B C 5C	R943	B C 9D	J902	A D 4B
C920	B C 2D	C960	B C 10B	**DIODE**		Q901	B C 8D	R911	B C 5B	R944	A D 7C	J905	A D 13D
C921	B C 3D	C961	A D 9C	D901	A D 6B	Q902	B C 7D	R912	B C 4B	R945	A D 7B	J907	A D 14C
C922	B C 3C	C962	B C 9C	D903	A D 6C	Q903	B C 8D	R913	B C 3B	R946	B C 7B		
C923	B C 2D	C963	A D 6B	D904	A D 11C	Q904	B C 4C	R914	B C 2C	R947	B C 7A		
C924	B C 2D	C964	B C 6C			Q905	B C 4C	R915	B C 2C	R965	A D 6D		
C925	B C 2C	C965	B C 8E	**IC**		Q907	B C 4C	R916	A D 3C	R966	B C 6D		
C926	B C 2D	C966	B C 10C	IC901	B C 10C	Q908	B C 4C	R917	A D 7D	R967	B C 6E		
C927	B C 2D	C968	B C 10B	IC902	B C 8E	Q912	B C 8C	R918	B C 4C	R968	B C 6D		

■ DIGITAL CIRCUIT BOARD

<50>DIGITAL
LPB10289-001C

-COMPONENT SIDE-



<50>DIGITAL
LPB10289-001C

-FOIL SIDE-

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COMPONENT PARTS LOCATION GUIDE <DIGITAL> LPB10289-001C

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C1119	B C 2E
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C1122	B C 5D
C1123	B C 4F
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C1127	B C 5C
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C1913	B C 5F
C1914	B C 5E
C1915	B C 5F
C1916	B C 5E
C1917	B C 4E
C1918	A C 4D
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CN1103	A C 5E
CN1202	B C 1E
CN1401	A C 3D
CN1402	A C 1B
CN1403	A C 1C
CN1404	A C 1C
CN1801	A C 3A
CN1802	A C 3B
CN2201	A C 3F
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D1402	A C 4E
D2201	A C 3E
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IC1202	B C 1C
IC1203	B C 1C
IC1401	B C 3D
IC1404	B C 5C
IC1601	B C 3B
IC1602	B C 4B
IC1701	A C 3B
IC1801	A C 3C
IC1901	B C 5E
COIL	
L1901	A C 4D
TRANSISTOR	
Q1901	A C 4D
Q1903	A C 4D
RESISTOR	
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R1006	B C 5B
R1007	B C 5B
R1008	B C 5B
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R1431	B C 3E
R1432	B C 2C
R1433	B C 2D
R1434	B C 2C
R1435	B C 2C
R1436	B C 2D
R1437	B C 2C
R1439	B C 2C
R1440	B C 2D
R1443	A C 2C
R1444	B C 5D
R1445	B C 5C
R1446	B C 5C
R1447	A C 4E
R1448	A C 2C
R1449	B C 5C
R1450	B C 2E
R1451	B C 2E
R1452	B C 2E
R1453	B C 2E
R1455	B C 5C
R1456	B C 2D
R1457	A C 2C
R1462	B C 2D
R1465	B C 2D
R1467	B C 2D
R1468	B C 2D
R1469	B C 3E
R1470	B C 2D
R1471	B C 2D
R1472	B C 2D
R1473	B C 4C
R1474	B C 4D
R1475	B C 4D
R1476	B C 4D
R1478	B C 4D
R1480	B C 4D
R1481	B C 4D
R1483	B C 4C
R1485	A C 4E
R1486	A C 4E
R1487	A C 4E
R1488	A C 4E
R1489	A C 4E
R1490	A C 4E
R1491	B C 3E
R1493	A C 4D
R1494	A C 3E
R1495	A C 3C
R1499	B C 4E
R1601	B C 3C
R1602	B C 3C
R1603	B C 4C
R1604	B C 4C
R1605	B C 4A
R1606	B C 3C
R1607	B C 4C
R1608	B C 3C
R1609	B C 4C
R1611	B C 3B
R1612	B C 3A
R1613	B C 4B
R1614	B C 4B
R1618	B C 2A
R1620	B C 2B
R1624	B C 3A
R1626	B C 3B
R1629	B C 3A
R1630	B C 3A
R1631	B C 4A
R1632	B C 4A
R1642	B C 2C
R1701	A C 3B
R1703	B C 5B
R1704	B C 5B
R1801	A C 3C
R1802	A C 3C
R1803	A C 3D
R1804	A C 3D
R1805	A C 3D
R1806	A C 3C
R1807	A C 3C
R1808	A C 3C
R1809	A C 3C
R1810	A C 3C
R1813	A C 2B
R1814	A C 3B
R1815	A C 3B
R1816	A C 3B
R1817	A C 3B
R1818	A C 3B
R1819	A C 3B
R1820	A C 2C
R1821	A C 3C
R1822	A C 2C
R1823	A C 3D
R1824	A C 3C
R1825	A C 3C
R1901	A C 4D
R1902	A C 4D
R1905	B C 4E
R1906	B C 4E
R1907	B C 4E
R1908	B C 5E
R1909	B C 5E
R1910	B C 5E
R1911	B C 5E
R1912	B C 5E
R1913	B C 5E
R1914	A C 4D
R1915	A C 4D
R1917	B C 4E
R2201	B C 4F
R2202	B C 3F
R2203	B C 3F
R2204	B C 2F
R2205	B C 3F
R2206	B C 3F
R2207	B C 3F
R2208	B C 3F
R2209	B C 4F
R2210	B C 4F
R2211	B C 4F
R2216	A C 3E
R10001	A C 2B
R10002	A C 2B
R10003	A C 1A
R10004	A C 1A
OTHER	
K1101	A C 4C
K1102	A C 4C
K1103	A C 4C
K1104	A C 5C
K1105	A C 4A
K1106	A C 4A
K1107	A C 4B
K1108	A C 5C
K1110	A C 4E
K1112	B C 5D
K1113	B C 5D
K1114	B C 5D
K1115	B C 5D
K1116	B C 5D
K1117	B C 5D
K1118	B C 5D
K1119	B C 5D
K1120	B C 5D
K1121	B C 5C
K1122	B C 5C
K1123	B C 5D
K1126	A C 4E
K1127	A C 4E
K1128	A C 4E
K1129	A C 4E
K1130	A C 4F
K1131	A C 4F
K1135	A C 4F
K1136	A C 4F
K1137	A C 4F
K1201	A C 2E
K1401	A C 3D
K1402	A C 4E
K1403	A C 4E
K1404	B C 4E
K1405	A C 4C
K1406	A C 4D
K1408	A C 4E
K1801	A C 2C
K1802	A C 2B
K1901	B C 5D
K1902	B C 5F
K2201	B C 2F
K2202	B C 2F
K2203	B C 2F
K2204	B C 2F
K2205	B C 2F
K2206	B C 2F
K2207	B C 2F
K2208	B C 2F
K2209	B C 3F
K2210	B C 3F
K2211	B C 3F
K2212	B C 3F
K2213	B C 3F
K2214	B C 3F
K2215	B C 3F
K2216	B C 3F
K2217	B C 4F
K2218	B C 4F
K2219	B C 4F
K2220	B C 4F
K2221	B C 4F
LC1101	A C 4A
LC1102	A C 4B
LC1103	A C 4B
LF1801	A C 3B
RA1201	A C 2F
RA1202	A C 2F
RA1203	A C 2F
RA1204	A C 2F
RA1205	B C 2D
RA1407	A C 2D
RA1408	A C 2D
RA1409	A C 2D
RA1410	A C 2D
RA1411	A C 2D
RA1412	B C 2D
RA1609	B C 2C
RA1610	B C 3C
RA1611	B C 3C
RA1612	B C 3C
RA1613	B C 4C
RA1614	B C 4C
RA1615	B C 4C
RA1616	B C 4C
RA1617	B C 3B
RA1618	B C 3B
RA1619	B C 2B
RA1620	B C 2B
RA1621	B C 4B
RA1622	B C 4B
RA1623	B C 3B
RA1624	B C 3B
RA1625	B C 2C
RA1626	B C 2C
RA1627	B C 2C
RA1628	B C 2C
RA1629	B C 3A
RA1630	B C 4A
RA1631	B C 4A
RA1632	B C 3A
RA1633	B C 3A
RA1634	B C 2C
RA1635	B C 3C
RA1801	A C 3C
RA1802	A C 3C
RA1803	A C 3D
RA1804	A C 3D
RA1901	B C 5E
RA1902	B C 5E
RA2208	B C 2F
RA2209	B C 2F
RA2210	B C 3F
RA2211	B C 3F
RA2212	B C 4F
TM1	A C 1E
TM2	A C 1E
TM3	A C 1A
TM4	A C 1A
TM5	A C 5A
TM6	A C 5B
TM7	A C 5F
TM8	A C 5F
X1401	B C 3E
X1801	A C 2C
X1901	B C 4F

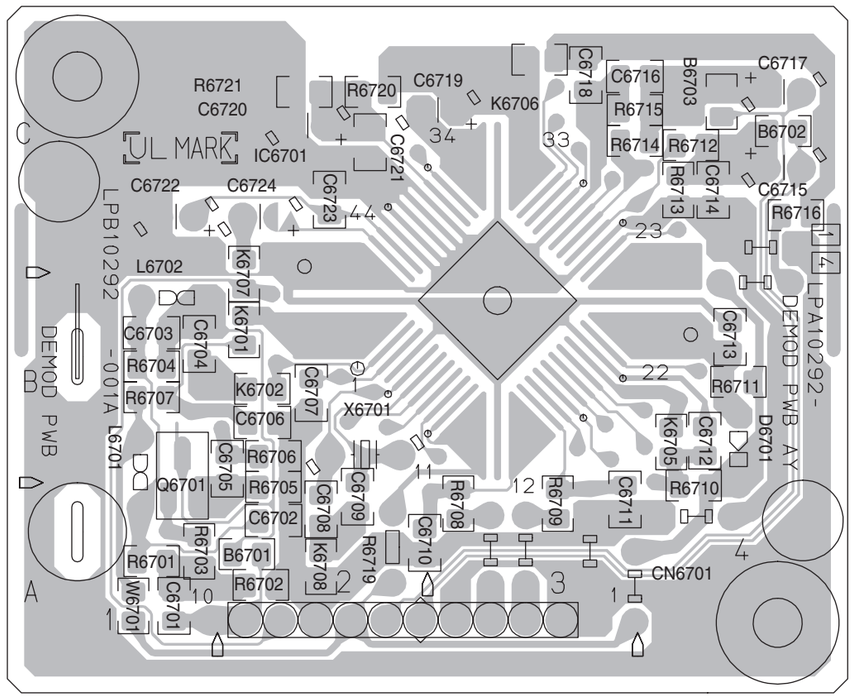
■ CPU PIN FUNCTION

<SYSCON IC3001>

PIN NO.	LABEL	IN/OUT	FUNCTION
1	CTL[+]	IN/OUT	CTL(+) SIGNAL
2	SVss	-	GND
3	CTL[-]	IN/OUT	CTL(-) SIGNAL
4	CTLBIAS	-	CTL BIAS VOLTAGE
5	CTLFB	IN	CTL PULSE FEEDBACK
6	CTLAMPOUT	OUT	CTL PULSE OUTPUT
7	CTLSMTIN	IN	CTL PULSE OUTPUT
8	CFG	IN	CAPSTAN FG PULSE INPUT
9	SVcc	-	SYSTEM POWER
10	Avcc	-	SYSTEM POWER
11	S_DET[H]	IN	NORMAL:H
12	SECAN_DET	IN	SECAN MODE DETECT
13	LSA	IN	MECHANISM MODE DETECT (A)
14	START_SENSOR	IN	START SENSOR
15	END_SENSOR	IN	END SENSOR
16	LSB	IN	MECHANISM MODE DETECT (B)
17	LSC	IN	MECHANISM MODE DETECT(C)
18	RF AGC	IN	CHANGES IN ATS+IC OUTPUT AS CAUSED BY CHANGES IN RECEIVER SENSITIVITY WHEN THE SAME CHANNEL IS RECEIVED MORE ARE INPUT.
19	SCR_ID	IN	SCRAMBLE CONTROL INPUT (SCRAMBLE : H)
20	AFC	IN	TUNING CHECK
21	VIDEO_ENV	IN	AUTO TRACKING DETECT/INPUT THE AVERAG OF PLAYBACK VIDEO SIGNAL
22	A.ENV/ND[L]	IN	AUDIO PB FM ENV.INPUT/NON HiFi MODE:L
23	Avss	-	GND
24	CTL_GAIN	OUT	CONTROL AMP OUT FREQUENCY RESPONSE SWITCHIN
25	A.MUTE_VDR[H]	OUT	AUDIO MUTE CONTROL FOR VDR(MUTE:H)
26	P.MUTE_VDR[H]	OUT	PICTURE MUTE CONTROL FOR VDR(MUTE:H)
27	SECAM_DET_VDR[H]	IN	SECAM MODE DETECT CONTROL FOR VDR
28	CAP.M_F/R	OUT	CAPSTAN MOTOR REVERSE CONTROL (FWD:L/REV:H)
29	RC_IN	IN	REMOTE CONTROL DATA INPUT
30	PROTECT	IN	DETECTION SIGNAL FOR SWITCHING POWERSUPPLY
31	P50_IN	IN	CONTROL SIGNAL FOR TV LINK
32	TEST	-	CONNECTED TO GND
33	P.MUTE_VDR[L]	OUT	PICTURE MUTE CONTROL FOR VDR(MUTE:L)
34	P50_OUT	OUT	CONTROL SIGNAL FOR TV LINK
35	LM_F/R/S[LMC1]	OUT	LOADING MOTOR DRIVE
36	LSD[LMC2]	IN	MECHANISM MODE DETECT (D)
37	RGB[H]	OUT	RGB MODE : H
38	SB_GAIN[PWM]	OUT	VOLTAGE CONTROL SIGNAL FOR VIDEO FREQUENCY RESPONSE
39	STB/TEST	OUT	CLOCK OUTPUT PERMISSION
40	POWER_DET	IN	DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY
41	REC_SAFTY	IN	REC SAFETY SWITCH DETECT (SW ON:L)
42	HDD_P.CTL[H]	-	NOT USED
43	Vss	-	GND
44	DVD_P.CTL[H]	OUT	DVD POWER ON/OFF CONTRPL (POWER ON:H)
45	Vcc	-	SYSTEM POWER
46	KBUS_DATA_IN	IN	SERIAL DATA TRANSFER INPUT FROM DVD CPU
47	KBUS_DATA_OUT	OUT	SERIAL DATA TRANSFER OUTPUT TO DVD CPU
48	KBUS_CLK	OUT	SERIAL DATA TRANSFERMER CLOCK FOR DVD CPU
49	12C_DATA_A/V	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR A/V IC
50	12C_CLK_A/V	OUT	SERIAL DATA TRANSFER CLOCK FOR A/V IC
51	S.DATA_TOSYS	IN	SERIAL DATA TRANSFER OUTPUT FROM THE ON-SCREEN TO THE FDP DRIVER
52	S.DATA_FRSYS	OUT	SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO THE ON-SCREEN
53	S.CLK	OUT	SERIAL DATA TRANSFERMER CLOCKFOR ONSCREEN IC
54	SP_FG	IN	DETECTION SIGNAL FOR SUPPLY REEL ROTATION/TAPE REMAIN
55	TU_FG	IN	DETECTION SIGNAL TAKE-UP REEL ROTATION/TAPE REMAIN
56	KBUS_REQ[IN]	OUT	SERIAL DATA TRANSFER REQUEST TO DVD CPU
57	P.ON_PULSE	OUT	POWER ON/OFF PULSE OUTPUT
58	N.REC_ST[H]	OUT	NORMAL AUDIO SOUND RECORDINGSTART
59	SYNC_DET[H]	IN	DETECTION OF VIDEO SYNC SIGNAL (DETECTED : H)
60	TU_I2C_CLK	OUT	CLOCK OUTPUT TO TUNER
61	TU_I2C_DATA	OUT	DATA OUT PUT TO TUNER
62	FWE	-	FLASH WRITE ENABLE
63	NMI	-	NOT USED
64	X2	-	TIMER CLOCK(32kHz)
65	X1	-	TIMER CLOCK(32kHz)
66	RES	-	RESET TERMINAL(RESET ON:L)
67	OSC1[IN]	IN	MAIN SYSTEM CLOCK(10MHz)
68	Vss	-	GND
69	OSC2[OUT]	IN	MAIN SYSTEM CLOCK(10MHz)
70	Vcc	-	SYSTEM POWER
71	MODE	-	NOT USED
72	AD_IN_MUTE[L]	OUT	MUTE CONTROL SIGNAL TO A/D CONVERTER IC
73	TU_V.MUTE[H]	OUT	TUNER VIDEO SIGNAL MUTE : H
74	A.MUTE_VHS[H]	OUT	AUDIO MUTE CONTROL FOR VHS(MUTE:H)
75	12C_CLK	OUT	SERIAL DATA TRANSFER CLOCK FOR MEMORY IC
76	12C_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC
77	SECAN[H]	IN	SECAN MODE :H
78	SYNC_DET_VDR[H]	IN	DETECTION OF VIDEO SYNC SIGNAL FOR VDR (DETECTED : H)
79	PAL_PB[H]	IN	PAL FM (PB ON:H)
80	I.MUTE[L]	OUT	INTERLACE VIDEO SIGNAL MUTING CONTROL OUTPUT
81	MESECAN_DET	OUT	MESECAM:H
82	Vcc	-	SYSTEM POWER
83	A.MUTE[L]	OUT	AUDIO MUTE CONTROL (MUTE:L)
84	Vss	-	GND
85	SP_SHORT[H]	OUT	MODE SELECT
86	LP_SHORT[H]	OUT	MODE SELECT
87	DEC[L]	OUT	DECODER SELECT
88	H.REC_ST[H]	OUT	HiFi AUDIO SOUND RECORDING START
89	EXP_CLK	OUT	SERIAL DATA TRANSFER CLOCK FOR EXPANDER IC(IC3601)
90	EXP_DATA	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR EXPANDER IC(IC3601)
91	OSD_CS	OUT	ONSCREEN IC CHIP SELECT
92	E5_RESET	OUT	RESET OUTPUT TO IC1401
93	ADC_RST[L]	OUT	STEREO A/D CONVERTER RESET PULSE
94	SW1	OUT	TV RF SYSTEM SELECT-1
95	SW2	OUT	TV RF SYSTEM SELECT-2
96	P.SAVE[L]	OUT	POWER SAVE MODE : L
97	P.CTL[H]	OUT	POWER ON/OFF CONTRPL (POWER ON:H)
98	C.SYNC	IN	COMPOSITE SYNC INPUT
99	A.FF	OUT	AUDIO FF OUTPUT
100	V.FF	OUT	ROTATION DETECTION SIGNAL FOR DRUM MOTOR/TIMING CONTROL SIGNAL FOR REC
101	CAPPWM	OUT	CAPSTAN MOTOR CONTROL
102	DRUMPWM	OUT	DRUM MOTOR CONTROL
103	RAPID_IN	IN	RAPID CONTROL
104	RGB_IN[H]	OUT	RGB SIGNAL INPUT MODE : H
105	P.MUTE_VHS[L]	OUT	PICTURE MUTE CONTROL FOR VHS (MUTE ON:L)
106	SEPA_IN[L]	OUT	Y/C SEPARATE INPUT MODE
107	EE[L]	OUT	EE MODE:L
108	DFG	IN	DRUM FG PULSE INPUT
109	Vcc	-	SYSTEM POWER
110	V.PULSE	OUT	V.PULSE ADDITION TIMING CONTROL
111	Vss	-	GND
112	CTLREF	-	CTL REFERENCE VOLTAGE

■ DEMOD CIRCUIT BOARD

<14>DEMOD
LPB10292-001A

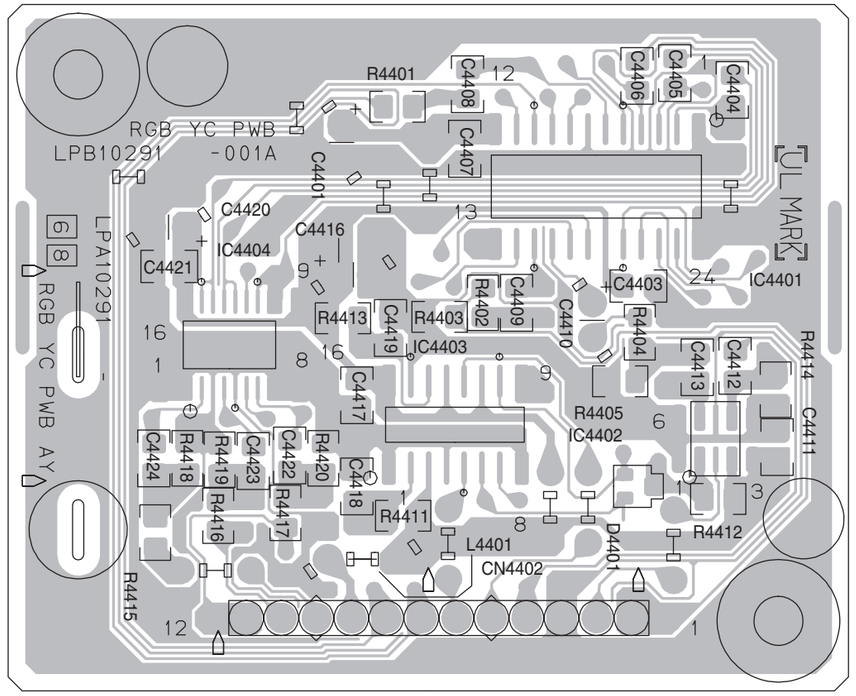


COMPONENT PARTS LOCATION GUIDE <DEMOD> LPB10292-001A

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C6715	A D 4C	D6701	A D 4B	R6703	B C 1A	R6720	B C 2C
C6701	B C 1A	C6716	B C 3C			R6704	B C 1B	R6721	B C 2C
C6702	B C 2A	C6717	A D 4C	**IC**		R6705	B C 2A		
C6703	B C 1B	C6718	B C 3C	IC6701	B C 3B	R6706	B C 2B	**OTHER**	
C6704	B C 1B	C6719	A D 3C			R6707	B C 1B	K6701	B C 2B
C6705	B C 2B	C6720	A D 2C	**COIL**		R6708	B C 3A	K6702	B C 2B
C6706	B C 2B	C6721	B C 2C	L6701	A D 1A	R6709	B C 3A	K6705	B C 4B
C6707	B C 2B	C6722	A D 1C	L6702	A D 1B	R6710	B C 4A	K6706	B C 3D
C6708	B C 2A	C6723	B C 2C			R6711	B C 4B	K6707	B C 2B
C6709	B C 2A	C6724	A D 2C	**TRANSISTOR**		R6712	B C 4C	K6708	B C 2A
C6710	B C 2A			Q6701	B C 1B	R6713	B C 4C	X6701	A D 2B
C6711	B C 3A	**CONNECTOR**				R6714	B C 3C		
C6712	B C 4B	CN6701	A D 3A	**RESISTOR**		R6715	B C 3C		
C6713	B C 4B			R6701	B C 1A	R6716	B C 4C		
C6714	B C 4C	**DIODE**		R6702	B C 2A	R6719	A D 2A		

■ RGB YC CIRCUIT BOARD

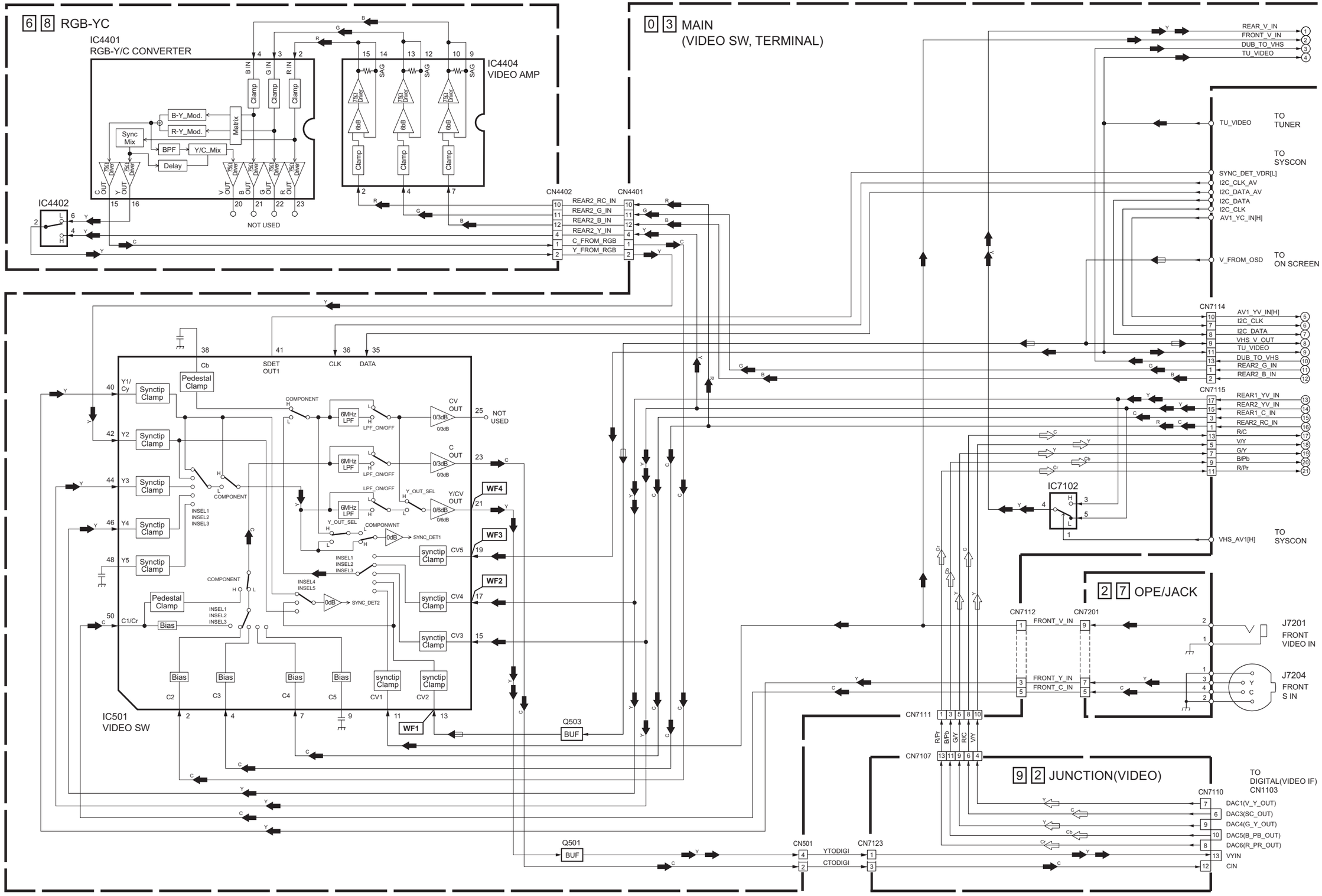
<68>RGB YC
LPB10291-001A



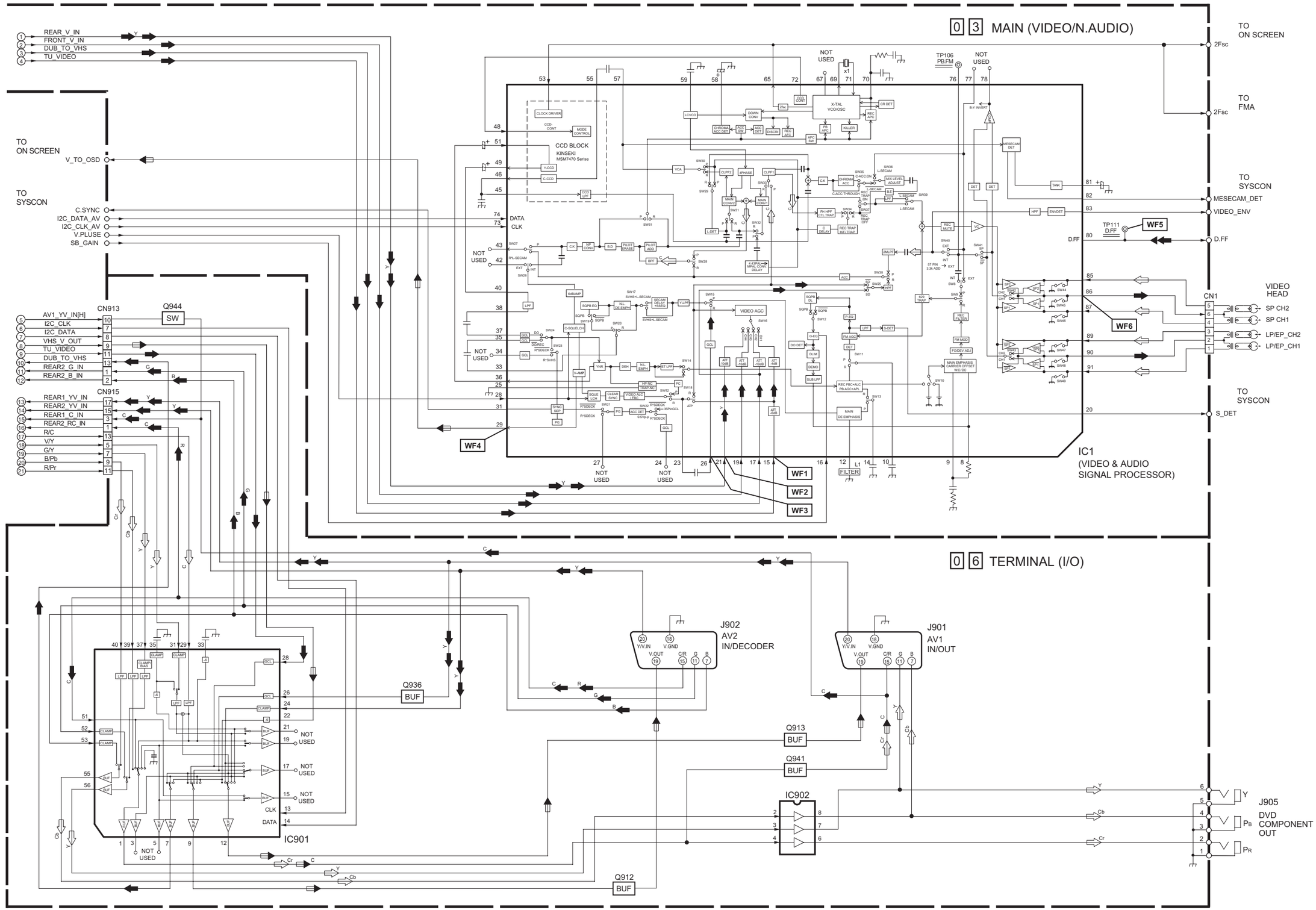
COMPONENT PARTS LOCATION GUIDE <RGB YC> LPB10291-001A

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C4413	B C 4B	CN4402	A D 3A	L4401	A D 2A	R4415	B C 1A
C4401	A D 2C	C4416	A D 2B					R4416	B C 2A
C4403	B C 4B	C4417	B C 2B	**DIODE**		**RESISTOR**		R4417	B C 2A
C4404	B C 4C	C4418	B C 2A	D4401	B C 4A	R4401	B C 2C	R4418	B C 1B
C4405	B C 4C	C4419	B C 2B			R4402	B C 3B	R4419	B C 2B
C4406	B C 3C	C4420	A D 1C	**IC**		R4403	B C 3B	R4420	B C 2B
C4407	B C 3C	C4421	B C 1C	IC4401	B C 3C	R4404	B C 4B		
C4408	B C 3C	C4422	B C 2B	IC4402	B C 4B	R4405	B C 3B		
C4409	B C 3B	C4423	B C 2B	IC4403	B C 3B	R4411	B C 2A		
C4410	A D 3B	C4424	B C 1B	IC4404	B C 2B	R4412	B C 4A		
C4411	B C 4B					R4413	B C 2B		
C4412	B C 4B	**CONNECTOR**		**COIL**		R4414	B C 4B		

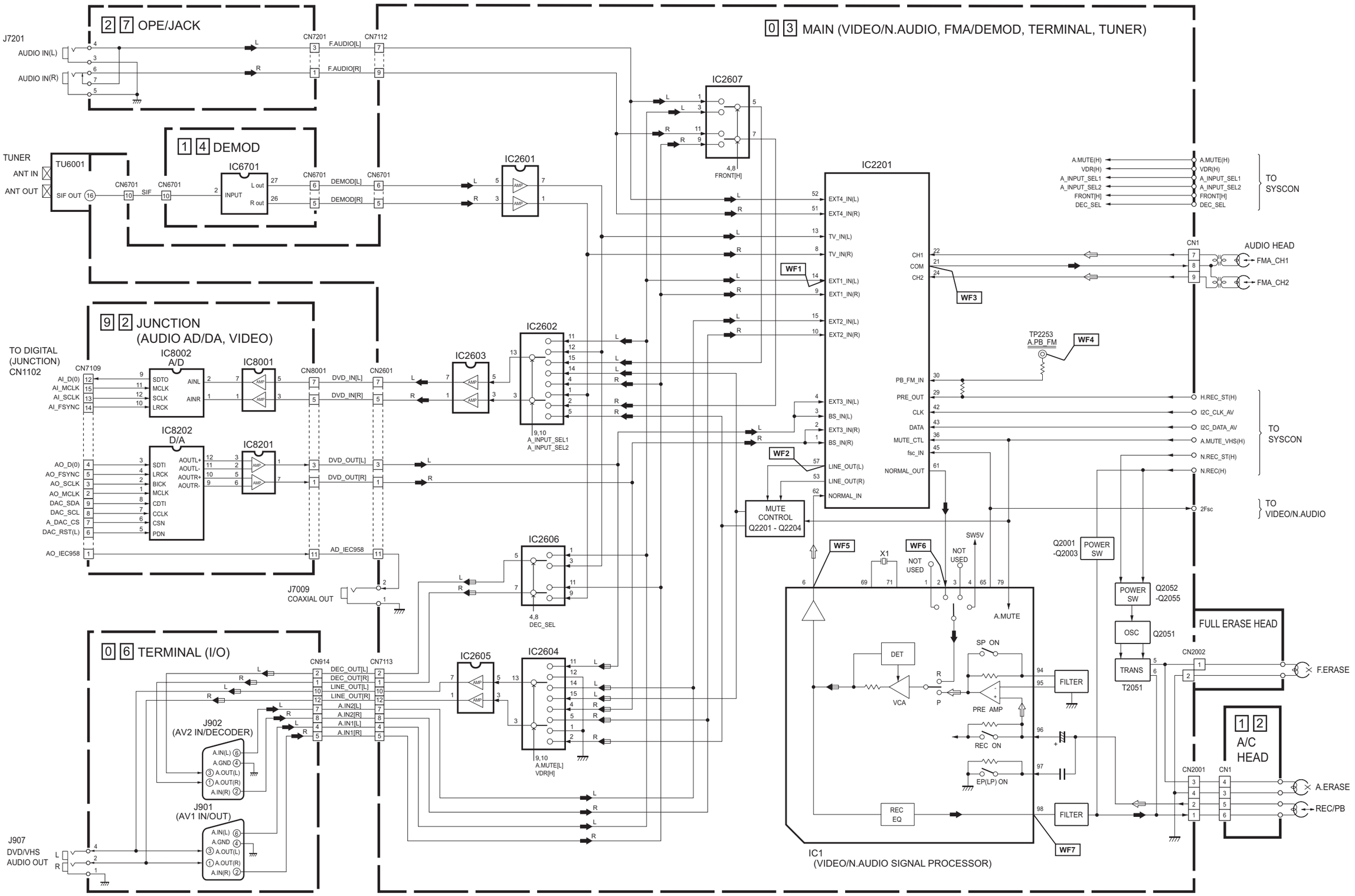
■ VIDEO BLOCK DIAGRAM (1)



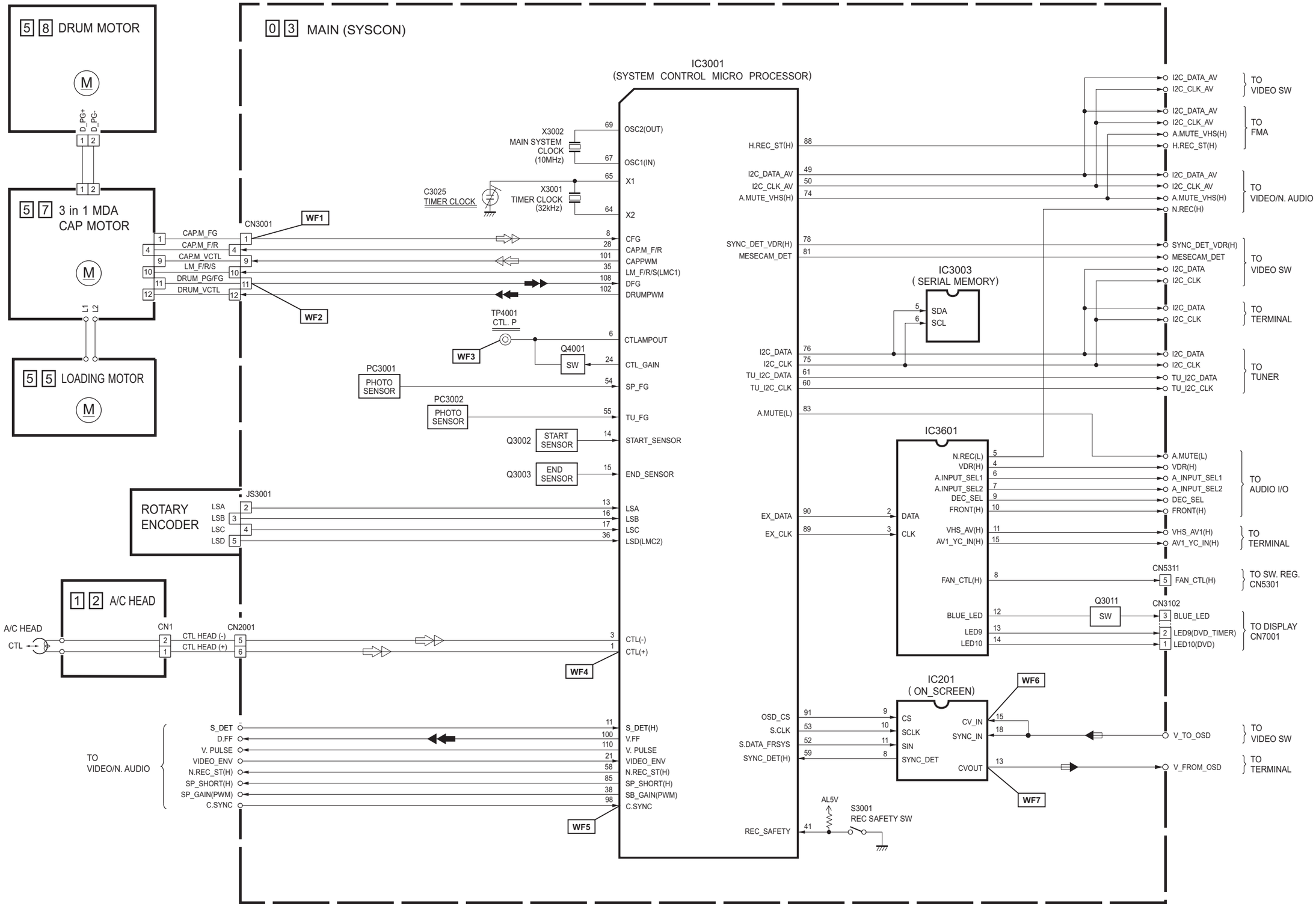
■ VIDEO BLOCK DIAGRAM (2)



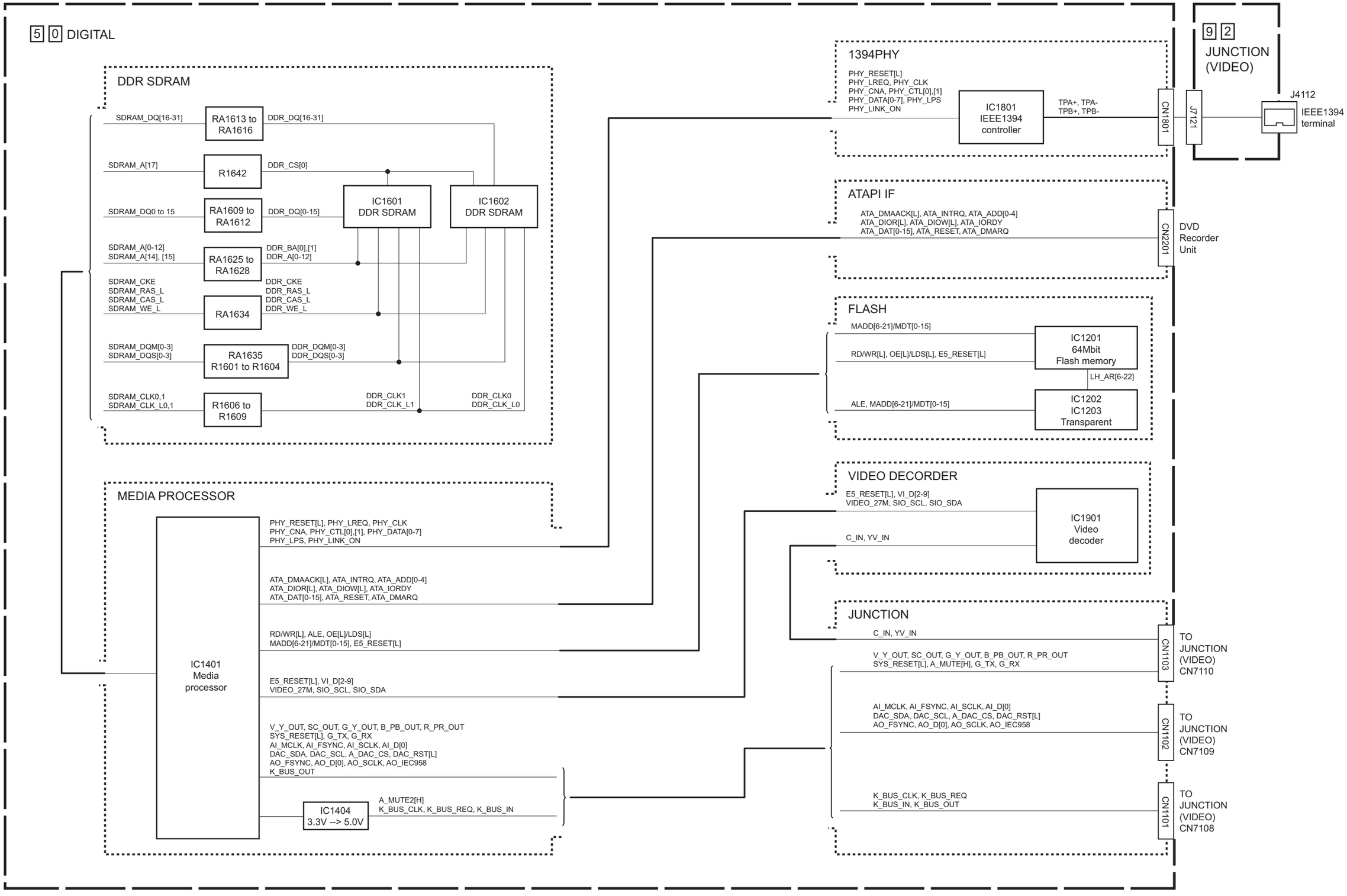
■ AUDIO BLOCK DIAGRAM



■ SYSTEM CONTROL BLOCK DIAGRAM



■ DIGITAL BLOCK DIAGRAM



■ VOLTAGE CHARTS

<SWITCHING REGULATOR>

MODE PIN NO.	REC	PLAY
IC5101		
1	298.3	298.6
2	0	0
3	0	0
4	17.2	17.2
5	2.5	2.5
IC5301		
1	2.4	2.4
2	0	0
3	4.0	4.7
IC5303		
1	4.9	4.9
2	2.6	2.6
3	0	0
4	2.0	2.0
5	2.0	2.0
Q5303		
E	21.9	21.9
C	21.9	21.9
B	0	0
Q5304		
E	0	0
C	0	0
B	4.2	4.1
Q5305		
E	11.2	11.2
C	12.3	12.2
B	12.0	12.0
Q5306		
E	5.0	5.0
C	5.8	5.8
B	5.7	5.7
Q5307		
E	11.4	11.4
C	11.4	11.4
B	10.7	10.7
Q5308		
E	0	0
C	0	0
B	2.8	2.8
CN5301		
1	5.0	5.0
2	11.2	11.2
3	32.5	32.5
4	53.4	53.3
5	2.8	2.8
6	-7.4	-7.3
7	0	0
8	0	0
9	4.9	4.9
10	5.8	5.8
11	4.2	4.2
12	12.2	12.3
13	0	0
14	12.3	12.3
15	0	0
CN5304		
1	12.5	12.5
2	0	0
3	0	0
4	6.1	6.0
5	4.2	4.2
6	1.9	2.0
7	1.9	2.0
8	3.5	3.4
9	4.9	4.9
10	5.8	5.8
11	0	0
12	0	0
13	0	0
14	0	0
15	11.2	11.2
16	-7.4	-7.3
17	-29.3	-29.3
18	-20.3	-20.3
19	-15.8	-15.8

<MAIN>

MODE PIN NO.	REC	PLAY
IC1		
1	0	0
2	0	0
3	0	0
4	5.1	5.0
5	2.0	2.0
6	2.5	2.6
7	2.8	2.8
8	1.8	1.2
9	1.8	1.2
10	2.3	1.6
11	2.6	3.0
12	1.6	0.4
13	0	0
14	2.8	2.2
15	2.8	0
16	0	3.3
17	2.7	2.8
18	1.9	1.9
19	2.8	2.8
20	0	0
21	2.8	2.7
22	5.0	5.0
23	2.3	2.3
24	0.2	0.2
25	0	0
26	3.0	2.8
27	0.2	0.3
28	0	0
29	2.4	2.4
30	2.8	2.9
31	0.3	0.2
32	2.2	2.3
33	2.1	2.1
34	1.8	1.9
35	3.0	3.0
36	2.3	2.3
37	3.0	3.0
38	2.1	2.1
39	1.5	1.3
40	2.1	2.1
41	2.7	2.6
42	2.0	1.9
43	2.1	0
44	0	0
45	3.1	3.1
46	3.1	3.1
47	5.0	5.0
48	0	0
49	3.2	3.2
50	5.0	5.0
51	2.0	2.0
52	5.0	5.0
53	2.5	2.6
54	0	0
55	2.0	1.9
56	0	0
57	2.2	2.2
58	2.3	2.3
59	5.0	5.0
60	5.0	5.0
61	0	0
62	2.3	2.2
63	2.2	2.2
64	2.7	2.6
65	2.3	12.2
66	2.6	2.6
67	0.7	0.5
68	1.2	1.2
69	1.9	1.9
70	2.7	2.1
71	2.2	2.2
72	0	0
73	4.8	4.8
74	4.8	4.8
75	2.8	2.8
76	2.2	2.2
77	2.8	2.8
78	0	0
79	0.5	2.6
80	2.5	2.5
81	4.9	4.8
82	0	0
83	4.1	1.9
84	5.0	5.0
85	2.5	2.3
86	2.4	2.3
87	2.4	2.3
88	0	0
89	0	0
90	0	0
91	0	0
92	5.1	4.8
93	0.2	0
94	2.5	2.5
95	2.5	2.5
96	2.5	0

MODE PIN NO.	REC	PLAY
97	0	0
98	1.5	2.5
99	0	0
100	2.6	2.5
IC201		
1	0	0
2	2.7	2.6
3	5.0	5.0
4	0	0
5	0	0
6	2.5	2.5
7	2.6	2.5
8	5.1	5.0
9	3.1	3.1
10	4.2	4.2
11	1.9	1.8
12	5.0	5.0
13	2.4	2.4
14	0	0
15	2.4	2.3
16	0.3	0.3
17	5.0	4.9
18	2.9	2.9
19	0	0
20	5.1	5.0
21	5.1	5.0
22	3.7	3.6
23	5.1	5.0
24	5.0	5.0
IC501		
1	0	0
2	2.9	2.8
3	5.0	5.0
4	2.9	2.8
5	0	0
6	0	0
7	2.9	2.8
8	2.8	2.9
9	2.9	2.9
10	0	0
11	1.3	1.3
12	5.0	5.0
13	1.8	1.8
14	0	0
15	1.3	0
16	0	0
17	1.8	1.6
18	0	0
19	1.3	2.7
20	5.0	5.0
21	1.2	2.2
22	0	0
23	2.3	2.2
24	5.1	0
25	1.2	0
26	0.7	1.0
27	1.7	0.6
28	2.5	0.2
29	4.7	4.9
30	5.0	5.0
31	0	0
32	0	0
33	1.2	1.2
34	0	0
35	4.8	4.8
36	4.8	4.7
37	5.0	5.0
38	2.9	2.9
39	0	0
40	1.3	1.2
41	5.0	0
42	1.6	1.6
43	5.0	4.9
44	1.3	1.3
45	0	0
46	1.7	1.8
47	5.0	4.9
48	1.3	1.4
49	0	0
50	2.8	2.9
51	0	0
52	0	0
IC2201		
1	2.4	2.4
2	0	0
3	2.3	2.4
4	0	0
5	0	0
6	2.5	2.5
7	2.0	2.0
8	0	0
9	0	0
10	0	0
11	0	0
12	2.0	2.0
13	0	0
14	0	0

MODE PIN NO.	REC	PLAY
15	0	0
16	2.5	2.5
17	0.5	0.6
18	2.5	2.5
19	1.5	2.4
20	2.6	0.7
21	2.5	0
22	2.5	0.7
23	0	0
24	2.6	0.6
25	5.0	5.0
26	2.5	0
27	0	2.2
28	4.2	2.4
29	4.1	1.7
30	3.9	1.7
31	0.9	2.1
32	2.5	2.3
33	2.5	2.5
34	0.5	0.6
35	2.5	2.5
36	0	0
37	1.7	1.6
38	0	0
39	0	0
40	5.0	5.0
41	0	0
42	4.8	4.8
43	4.8	4.8
44	3.2	3.2
45	0	0
46	4.9	4.9
47	2.5	2.5
48	2.5	2.5
49	0.3	0.4
50	0.5	0.5
51	0	0
52	0	0
53	4.5	4.5
54	0	0
55	0	0
56	0	0
57	4.4	4.5
58	11.3	11.3
59	4.6	4.6
60	0	0
61	2.5	2.5
62	2.4	2.4
63	4.4	4.4
64	4.6	4.5
IC2601		
1	0	0
2	0	0
3	0	0
4	-7.4	-7.3
5	0	0
6	0	0
7	0	0
8	11.2	11.3
IC2602		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	-7.4	-7.4
8	0	0
9	5.0	0
10	5.1	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	6.6	6.7
IC2603		
1	0	0
2	0	0
3	0	0
4	-7.4	-7.3
5	0	0
6	0	0
7	0	0
8	11.2	11.3
IC2604		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	-7.4	-7.3
8	0	0
9	4.9	4.9
10	0	0
11	0	0

MODE PIN NO.	REC	PLAY
12	0	0
13	0	0
14	0	0
15	0	0
16	6.6	6.7
IC2605		
1	0	0
2	0	0
3	0	0
4	-7.4	-7.3
5	0	0
6	0	0
7	0	0
8	11.3	11.3
IC2606		
1	7.4	7.5
2	0	0
3	7.3	7.5
4	3.5	3.6
5	6.8	6.8
6	0	0
7	6.7	6.8
8	3.6	3.5
9	7.4	7.5
10	11.2	11.3
11	7.4	7.4
12	0	0
IC2607		
1	7.4	7.4
2	0	0
3	7.4	7.5
4	0	0
5	6.8	6.8
6	0	0
7	6.7	6.8
8	0	0
9	7.3	7.5
10	11.3	11.3
11	7.4	7.4
12	0	0
IC3001		
1	-0.3	2.5
2	0	0
3	-0.3	2.5
4	2.4	2.5
5	0.3	0.4
6	2.5	2.5
7	2.5	2.4
8	2.5	2.5
9	5.0	4.9
10	5.0	5.0
11	0	0
12	0.3	0.3
13	0	0
14	4.7	4.7
15	4.3	2.8
16	5.0	5.0
17	0	0
18	3.9	3.8
19	0	0
20	4.5	4.5
21	3.9	2.0
22	4.1	2.4
23	0	0
24	4.9	4.9
25	0	4.9
26	0	0
27	0	0
28	0	0
29	4.9	4.6
30	4.6	4.6
31	5.0	5.0
32	0	0
33	4.9	5.0
34	0	0
35	2.5	2.5
36	4.9	4.9
37	0	0
38	0	3.3
39	3.1	3.0
40	0	0
41	4.9	4.9
42	5.0	4.9
43	0	0
44	4.9	4.9
45	4.9	5.0
46	0	0
47	0.6	0.6
48	4.2	4.3
49	4.8	4.6
50	4.8	4.7
51	4.8	4.8
52	1.4	1.4
53	4.0	4.1
54	5.0	5.0
55	-	-
56	2.8	-

MODE PIN NO.	REC	PLAY
57	0	0
58	4.9	0
59	5.0	5.0
60	4.9	4.9
61	5.0	5.0
62	0	0
63	0	-0.1
64	1.3	1.3
65	0.4	0.6
66	5.0	5.0
67	2.4	2.4
68	0	0
69	2.4	2.4
70	4.9	5.0
71	5.0	5.0
72	4.9	5.0
73	4.9	0
74	0	0
75	3.8	4.3
76	3.6	4.4
77	0	0
78	5.0	0
79	4.9	4.9
80	4.9	5.0
81	0	0
82	5.0	5.0
83	5.0	5.0
84	0	0
85	0	0
86	4.7	4.7
87	5.0	5.0
88	4.7	0
89	0	0
90	0	0
91	3.0	2.9
92	0	0
93	4.9	5.0
94	0	0
95	5.0	5.0
96	4.9	4.7
97	4.8	4.9
98	0.3	0.3
99	0	2.7
100	2.4	2.8
101	2.6	2.6
102	2.8	2.8
103	5.1	4.9
104	0	0
105	4.9	5.0
106	0	0
107	0	5.0
108	1.3	1.2
109	5.0	5.0
110	0	0
111	0	0
112	2.5	2.5
IC3002		
1	5.0	5.0
2	5.0	5.0
3	0	0
4	0	0
IC3003		
1	0	0
2	0	0
3	0	0
4	0	0
5	3.8	4.2
6	3.9	4.4
7	0	0
8	5.0	5.0
IC3601		
1	0	0
2	0	0
3	0	0
4	0	0
5	4.8	0
6	5.0	0
7	5.0	0
8	2.8	2.8
9	3.5	3.5
10	0	0
11	4.9	0
12	3.4	3.6
13	0	0
14	4.9	5.0
15	0	0
16	4.9	5.0
IC4201		
1	0	0
2	2.4	2.3
3	2.5	2.4
4	0	0
5	0	0
6	4.1	4.4
7	4.0	4.4
8	5.0	0
9	4.6	4.6

MODE PIN NO.	REC	PLAY
10	0	0
11	2.8	2.7
12	2.8	2.6
13	1.2	1.0
14	0	0.2
15	5.0	5.0
16	2.8	3.7
17	2.5	2.5
18	4.6	4.6
19	5.1	5.0
20	0	0
21	0	0
22	3.6	3.6
23	5.0	5.0
24	5.0	5.0
IC4202		
1	0	0
2	0	3.6
3	5.0	4.9
4	1.5	1.5
5	0	0
6	1.6	2.7
IC7101		
1	0.7	0.3
2	0.5	0.6
3	0	0
4	0	0
5	0	0
6	0	0
7	-4.1	-4.0
8	0	0
9	5.0	0
10	0	0
11	0	0
12	0.5	0.6
13	0.2	0.6
14	0.5	0.3
15	0.5	0.6
16	5.0	5.0
IC7501		
1	3.3	1.5
2	1.6	1.6
3	1.6	0
4	0	0
5	0	0
6	0	0
7	0	0
8	1.6	1.6
9	1.6	0
10	3.3	3.3
11	1.6	1.6
12	1.6	1.6
13	3.3	3.3
14	3.3	3.3
Q7		
E	2.3	2.3
C	2.4	2.3
B	0	0
Q8		
E	2.4	2.3
C	2.4	2.3
B	0	0
Q9		
E	0	0
C	0	0
B	0.6	0.7
Q10		
E	0	0
C	0	0
B	0.7	0.7
Q16		
E	3.0	3.1
C	0	0
B	2.3	2.5
Q202		
E	1.8	1.6
C	5.1	0
B	0.7	2.3
Q501		
E	1.4	2.0
C	0	0
B	0.7	1.4
Q503		
E	2.4	2.4
C	0	0
B	1.8	1.7
Q2001		
E	-7.3	0
C	0	0
B	-15.0	0.7
Q2002		
E	-7.4	0
C	0	0
B	-14.8	0.6
Q2003		
E	5.0	5.0
C	-14.9	5.0

MODE PIN NO.	REC	PLAY
B	4.8	0
Q2051		
E	0	0
C	8.0	0
B	0.4	0
Q2052		
E	11.3	11.3
C	11.1	0.2
B	10.5	11.2
Q2053		
E	0	0
C	0	11.2
B	5.0	0
Q2054		
E	11.1	0.3
C	10.8	0.1
B	10.3	0.4
Q2055		
E	0	0
C	0	0.4
B	4.8	0
Q2201		
E	5.7	5.7
C	0	-0.1
B	5.7	5.7
Q2202		
E	0	0
C	5.7	5.7
B	0	0
Q2203		
E	0	0
C	0	0
B	0	-0.3
Q2204		
E	0	0
C	0	0
B	0	-0.5
Q2255		
E	0	0
C	0	0
B	4.7	4.7
Q2601		
E	0	0
C	0	0
B	0	0
Q2602		
E	0	0
C	0	0
B	0	-0.3
Q2603		
E	5.2	5.3
C	-0.2	-0.2
B	5.0	5.0
Q2604		
E	0	0
C	0	0
B	0	-0.3
Q2605		
E	0	0
C	0	0
B	0	-0.2
Q2606		
E	5.2	5.3
C	-0.2	-0.2
B	5.0	5.0
Q3002		
E	0	0
C	4.6	4.7
B	-	-
Q3003		
E	0	0
C	4.2	3.5
B	-	-
Q3004		
E	0	0
C	0	0
B	0.7	0.7
Q3005		
E	5.0	5.0
C	5.7	5.7
B	5.6	5.6
Q3007		
E	0	0
C	4.7	4.7
B	0	0
Q3011		
E	0	0
C	0.2	0.2
B	3.6	3.6
Q3901		
E	0	0
C	5.0	5.0
B	0	0
Q4001		
E	0	0
C	0	0
B	4.9	4.9

MODE PIN NO.	REC	PLAY
Q4201		
E	2.1	2.1
C	5.0	5.0
B	2.5	2.4
Q6001		
E	5.1	5.1
C	5.7	5.8
B	5.7	5.8
Q6030		
E	0.7	2.9
C	0	0
B	0	2.3
Q6031		
E	0	0
C	0	2.3
B	4.9	0
CN1		
1	0	0
2	0	0
3	0	0
4	2.4	2.3
5	2.4	2.3
6	2.4	2.3
7	2.5	0
8	2.5	0
9	2.5	0
CN501		
1	0	0
2	2.3	2.2
3	0	0
4	1.4	2.0
CN2001		
1	0	0
2	0	0
3	0	0
4	0	0
5	2.1	2.3
6	2.4	2.5
CN2002		
1	0	0
2	0	0
CN2601		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	3.3	3.3
11	1.6	1.6
CN3001		
1	2.5	2.5
2	12.3	12.3
3	2.0	5.0
4	0	0
5	12.2	12.2
6	0	0
7	0	0
8	12.2	12.3
9	2.6	2.6
10	2.5	2.5
11	1.3	1.3
12	2.5	2.5
CN3102		
1	5.0	5.0
2	0	0
3	0	0
4	0	0
5	0	0
6	5.0	4.9
7	4.9	4.9
8	4.1	4.1
9	4.8	4.8
10	1.5	1.2
11	2.9	3.0
12	-20.3	-20.2
13	-29.3	-29.3
14	-16.0	-15.9
15	0	0
CN3103		
1	5.0	5.0
2	5.0	5.0
3	0	0
4	4.2	4.1
5	2.7	2.6
6	0.5	0.4
7	0	0
8	0	0
9	4.1	4.2
10	0	-0.2
11	0	0
12	0	4.9
13	4.8	4.8
14	4.5	4.5

MODE PIN NO.	REC	PLAY
15	-16.0	-15.8
16	-20.3	-20.2
17	-29.3	-29.2
18	0	-0.2
19	0	-0.1
CN3901		
1	0	0
2	4.9	5.0
3	0	0
4	5.0	5.0
5	0.4	0.3
6	0	0
CN4401		
1	0	0
2	1.4	1.4
3	0.2	0
4	0	0
5	4.7	4.6
6	0	0
7	4.6	4.6
8	2.0	2.0
9	5.1	5.0
10	0	0
11	0	0
12	0	0
CN5311		
1	5.1	5.0
2	11.3	11.3
3	32.6	32.5
4	53.4	53.2
5	2.8	2.8
6	-7.4	-7.4
7	0	0
8	0	0
9	4.9	4.9
10	5.7	5.8
11	4.1	4.2
12	12.2	12.3
13	0	0
14	12.2	12.2
15	0	0
CN6701		
1	0	0
2	3.8	4.5
3	3.8	4.4
4	0	0
5	0	0
6	0	0
7	5.0	5.0
8	0	0
9	0	0
10	2.0	2.1
CN7111		
1	0.5	0.6
2	0	0
3	0.4	0.5
4	0	0
5	0.5	0.6
6	0	0
7	0	0
8	0.6	0.6
9	0	0
10	0.5	0.5
11	0	0
CN7112		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
CN7113		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
CN7114		
1	0	0
2	0	0
3	5.0	5.0
4	0	0
5	4.8	4.8
6	11.3	11.3
7	4.1	4.3
8	3.7	4.3

MODE PIN NO.	REC	PLAY
9	1.8	1.7
10	0	0
11	0.7	3.0
12	0	0
13	2.3	2.3
14	0	0
15	0	0
CN7115		
1	0	0
2	0	0
3	6.1	6.3
4	0	0
5	0.5	0.6
6	0	0
7	0.6	0.6
8	0	0
9	0.5	0.6
10	0	0.2
11	0.5	0.6
12	0	0
13	0.4	0.7
14	5.1	5.0
15	0	0
16	0	0
17	0.2	0
JS3001		
1	0	0
2	0	0
3	5.0	5.0
4	0	0
5	5.0	5.0
TU6001		
1	5.1	5.1
2	0	0
3	0	0
4	5.0	5.0
5	0	0
6	0	0
7	0	0
8	4.0	3.9
9	0	0
10	5.0	5.0
11	0	0
12	5.0	5.0
13	5.0	5.0
14	4.5	4.5
15	2.4	2.4
16	2.0	2.1
17	32.6	32.5
18	0	0
19	0.8	2.3

<DEMOD>

MODE PIN NO.	REC	PLAY
IC6701		
1	4.2	4.2
2	0	1.5
3	1.5	1.4
4	0	0
5	2.0	1.9
6	0	0
7	0	0
8	0	0
9	0	0
10	3.6	3.6
11	0	0
12	4.1	3.6
13	3.9	3.9
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0.2
19	5.0	5.0
20	0	0
21	0	0
22	4.3	4.3
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	2.3	2.3
31	2.3	2.3
32	0	0
33	4.7	4.6
34	3.7	3.8
35	0	0
36	2.3	2.3
37	0	0
38	0	0
39	0	0
40	0	0
41	0	0
42	2.5	2.5
43	2.3	2.3
44	0	0
CN6701		
1	0	0
2	3.8	4.5
3	3.8	4.4
4	0	0
5	0	0
6	0	0
7	5.0	5.0
8	0	0
9	0	0
10	2.0	2.1

<TERMINAL>

MODE PIN NO.	REC	PLAY
IC901		
1	2.4	2.5
2	0	0
3	2.3	2.3
4	0	0
5	2.4	2.4
6	1.0	0.8
7	2.3	2.4
8	0	0
9	2.4	2.1
10	4.0	0
11	0	0
12	1.8	1.8
13	3.8	4.1
14	4.1	3.8
15	2.3	2.3
16	0	5.0
17	2.3	2.2
18	0	2.2
19	2.4	2.4
20	0	0
21	2.3	2.3
22	1.7	1.8
23	4.2	4.2
24	1.7	1.7
25	0.7	0
26	2.2	2.2
27	0	0
28	1.8	1.7
29	5.0	5.0
30	5.0	5.0
31	2.1	2.1
32	0	0
33	2.2	2.3
34	0	0
35	1.6	2.8
36	2.8	2.7
37	2.2	2.1
38	8.9	8.9
39	2.1	2.2
40	4.0	2.2
41	4.3	4.4
42	4.4	4.4
43	4.4	4.4
44	0	0
45	4.4	4.5
46	4.4	4.4
47	0	0
48	4.4	4.4
49	4.4	4.4
50	0	0
51	2.2	2.2
52	1.9	1.8
53	1.9	1.8
54	0	0
55	1.5	1.5
56	1.5	1.5
IC902		
1	0	0
2	1.6	1.6
3	1.5	1.5
4	2.4	2.4
5	5.0	4.9
6	2.3	2.4
7	1.5	1.5
8	1.5	1.5
Q901		
E	0.2	0
C	0	11.1
B	0.8	0
Q902		
E	0	10.7
C	11.2	11.2
B	0	11.1
Q903		
E	0	0
C	0.2	11.2
B	0	0
Q904		
E	0	0
C	0	0
B	0	0
Q905		
E	0	0
C	5.0	4.9
B	0	0
Q907		
E	0	0
C	0	0
B	0	0
Q908		
E	3.8	3.8
C	0	0
B	4.0	4.1
Q912		
E	3.0	3.0
C	0	0

MODE PIN NO.	REC	PLAY
B	2.4	2.3
Q913		
E	2.4	2.4
C	0	0
B	1.8	1.8
Q932		
E	2.4	2.4
C	0	0
B	3.1	3.1
Q933		
E	2.4	2.4
C	0	0
B	1.7	1.7
Q936		
E	3.2	3.2
C	0	0
B	2.5	2.5
Q941		
E	6.4	6.4
C	0	0
B	5.7	5.8
Q942		
E	0	0
C	0	0
B	8.4	8.4
Q943		
E	0	0
C	8.3	8.4
B	0	0
Q944		
E	0	0
C	6.4	6.4
B	0	0
CN913		
1	0	0
2	0	0
3	5.0	5.0
4	0	0
5	4.8	4.8
6	11.3	11.3
7	4.1	4.3
8	3.7	4.3
9	1.8	1.7
10	0	0
11	0.7	3.0
12	0	0
13	2.3	2.3
14	0	0
15	0	0
CN914		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
CN915		
1	0	0
2	0	0
3	6.1	6.3
4	0	0
5	0.5	0.6
6	0	0
7	0.6	0.6
8	0	0
9	0.5	0.6
10	0	0.2
11	0.5	0.6
12	0	0
13	0.4	0.7
14	5.1	5.0
15	0	0
16	0	0
17	0.2	0

<OPERATION//JACK>

MODE PIN NO.	REC	PLAY
CN7201		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
CN7202		
1	1.9	1.8
2	0	0
3	0	0

<SWITCH/DISPLAY>

MODE PIN NO.	REC	PLAY
IC7001		
1	0	0
2	5.0	5.0
3	5.0	5.0
4	5.0	5.0
5	2.8	2.8
6	4.8	4.8
7	1.5	1.5
8	4.1	4.1
9	3.0	2.9
10	0	0
11	0	0
12	0	0
13	5.0	5.0
14	-23.9	-23.8
15	-28.5	-26.0
16	-19.1	-14.5
17	-28.6	-28.6
18	-28.6	-28.6
19	-26.2	-26.2
20	-16.8	-19.1
21	-14.4	-19.2
22	-21.5	-21.6
23	-23.8	-19.1
24	-11.9	-16.7
25	-19.1	-21.4
26	-28.6	-28.5
27	-26.3	-26.2
28	-28.6	-28.5
29	-16.8	-19.1
30	-29.3	-29.2
31	-26.6	-26.6
32	-26.6	-26.5
33	-26.6	-26.5
34	-26.6	-26.5
35	-26.6	-26.5
36	-26.5	-26.5
37	-26.6	-26.5
38	-26.6	-26.5
39	-26.6	-26.5
40	-26.6	-26.5
41	-26.6	-26.5
42	-26.6	-26.5
43	5.0	5.0
44	0	0
IC7002		
1	4.9	4.9
2	5.0	5.0
3	0	0
CN7001		
1	5.0	5.0
2	0	0
3	0.2	0.2
4	0	0
5	0	0
6	5.0	5.0
7	4.9	4.9
8	4.2	4.1
9	4.8	4.8
10	1.5	1.3
11	3.0	3.0
12	-20.3	-20.2
13	-29.3	-29.3
14	-16.0	-15.9
15	0	0
FW7001		
1	1.9	1.8
2	0	0
3	0	0

<RGB YC>

MODE PIN NO.	REC	PLAY
IC4401		
1	0	0
2	2.2	2.3
3	0	2.2
4	2.2	2.2
5	0	0
6	2.0	2.0
7	0	0
8	4.3	4.3
9	0	0
10	4.6	4.6
11	4.0	4.1
12	5.0	5.0
13	0	0
14	0	0
15	2.4	2.3
16	1.6	1.6
17	1.5	1.5
18	0	0
19	5.0	5.0
20	1.5	1.5
21	1.8	1.8
22	1.7	1.8
23	1.8	1.8
24	0	0
IC4402		
1	0.5	0.5
2	1.3	1.4
3	5.0	4.9
4	1.9	2.0
5	0	0
6	2.1	2.2
IC4403		
1	0	0
2	4.7	4.8
3	5.0	5.0
4	0	0
5	0	0
6	0.2	0.2
7	4.7	4.7
8	0	0
9	0.6	0.6
10	4.4	4.4
11	5.0	5.0
12	4.6	4.6
13	5.0	5.0
14	1.9	1.9
15	0	0
16	5.0	5.0
IC4404		
1	0	0
2	2.0	1.9
3	0	0
4	1.9	1.9
5	0	0
6	0	0
7	1.9	1.9
8	0	0
9	1.0	1.0
10	1.0	1.0
11	0	0
12	1.0	1.0
13	0.9	1.0
14	1.0	1.0
15	1.0	1.0
16	5.0	5.0
CN4402		
1	0	0
2	1.4	1.4
3	0.2	0
4	0	0
5	4.7	4.6
6	0	0
7	4.6	4.6
8	2.0	2.0
9	5.1	5.0
10	0	0
11	0	0
12	0	0

■ VOLTAGE CHARTS

<JUNCTION>

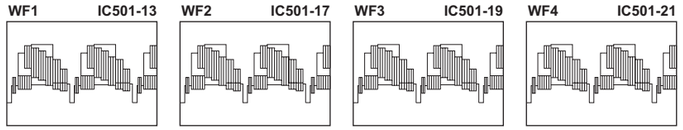
MODE PIN NO.	REC	PLAY
IC5501		
1	4.9	4.9
2	4.0	4.0
3	3.3	3.3
4	1.2	1.2
5	0	0
6	0	0
7	0	0
8	0	0
IC5504		
1	2.6	2.6
2	0	0
3	0	0
4	1.3	1.2
5	4.9	4.9
6	0	0
7	0	0
8	3.4	3.4
IC5506		
1	5.0	5.0
2	0	0
3	0	0
4	3.4	3.4
5	4.9	4.8
6	0	0
7	0	0
8	6.0	6.1
IC8001		
1	0	0
2	0	0
3	0	0
4	-7.4	-7.4
5	0	0
6	0	0
7	0	0
8	9.4	9.5
IC8002		
1	2.5	2.5
2	2.5	2.5
3	0	0
4	2.4	2.4
5	0	0
6	5.0	5.0
7	3.2	3.3
8	0	0
9	0.9	1.1
10	1.7	1.5
11	1.6	1.7
12	1.6	1.7
13	3.0	3.1
14	3.3	3.3
15	0	0
16	0	0
IC8201		
1	0	0
2	1.3	1.2
3	1.3	1.2
4	-7.4	-7.4
5	1.3	1.0
6	1.3	1.2
7	0	-0.4
8	9.5	9.5
IC8202		
1	1.7	1.7
2	1.6	1.7
3	1.5	1.6
4	1.6	1.5
5	3.3	3.3
6	3.3	3.3
7	2.7	2.7
8	0.1	0
9	2.7	2.6
10	2.3	2.3
11	2.5	2.5
12	2.1	2.3
13	0	0
14	5.0	4.9
15	0	0
16	0	0
Q5501		
E	-7.4	-7.3
C	-7.3	-7.3
B	-6.7	-6.7
Q5502		
E	5.8	5.8
C	5.8	5.8
B	0	0
Q5503		
E	-15.8	-15.8
C	-15.8	-15.8
B	-15.0	-15.0
Q5504		
E	0	0
C	0	0
B	4.2	4.2
Q5505		
E	5.8	5.8

MODE PIN NO.	REC	PLAY
C	5.7	5.7
B	0.4	0.5
Q5506		
E	0	0
C	0	0
B	4.5	4.5
Q5507		
E	5.2	5.2
C	5.8	5.8
B	5.8	5.8
Q5508		
E	12.5	12.5
C	12.5	12.5
B	11.8	11.7
Q5509		
E	0	0
C	0	0
B	4.9	4.9
Q7151		
E	0	0
C	3.3	3.3
B	0	0
Q8001		
E	0	0
C	0	0
B	0	-1.5
Q8002		
E	0	0
C	0	0
B	0	-1.6
Q8003		
E	0	0
C	5.3	5.3
B	0	0
Q8004		
E	0	0
C	5.3	5.3
B	0	0
Q8005		
E	5.3	5.3
C	0	-1.4
B	5.3	5.3
CN5501		
1	12.5	12.5
2	0	0
3	0	0
4	6.1	6.1
5	4.2	4.2
6	1.9	1.9
7	1.9	1.9
8	3.4	3.4
9	4.9	4.9
10	5.8	5.8
11	0	0
12	0	0
13	0	0
14	0	0
15	11.2	11.3
16	-7.4	-7.3
17	-29.3	-29.2
18	-20.3	-20.2
19	-15.8	-15.8
CN5503		
1	12.5	12.5
2	0	0
3	0	0
4	5.0	5.0
CN7102		
1	5.0	5.0
2	5.0	5.0
3	0	0
4	4.2	4.2
5	2.2	2.6
6	0.8	0.5
7	0.2	0.1
8	0	0
9	1.4	4.2
10	0	0
11	0	0
12	0	0
13	4.8	4.8
14	4.5	4.5
15	-15.9	-15.9
16	-20.2	-20.2
17	-29.3	-29.3
18	0	0
19	0	0
CN7105		
1	2.2	2.2
2	0	0
3	3.0	3.3
4	3.3	3.3
CN7107		
3	0	0
4	0.5	0.5
5	0	0
6	0.7	0.7

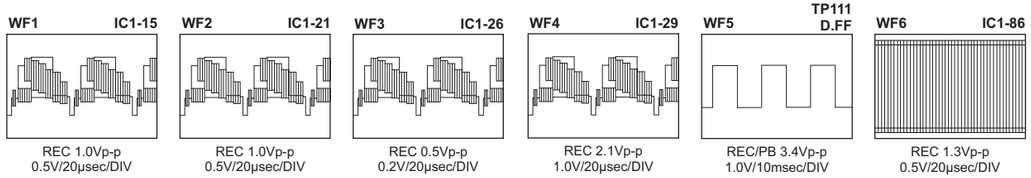
MODE PIN NO.	REC	PLAY
7	0	0
8	0	0
9	0.5	0.5
10	0	0
11	0.3	0.3
12	0	0
13	0.5	0.5
CN7108		
1	0.6	0.6
2	0	0.2
3	2.7	2.2
4	4.3	4.1
5	0	0
6	5.1	5.2
7	5.1	5.0
8	3.3	3.3
9	0	0
10	0	0
11	2.6	2.6
12	2.6	2.6
13	0	0
14	1.8	1.8
15	1.8	1.8
CN7109		
1	1.6	1.6
2	1.7	1.7
3	1.6	1.6
4	1.5	1.6
5	1.6	1.5
6	3.3	3.2
7	3.2	3.3
8	2.7	2.3
9	0	0.2
10	0	0
11	0	0
12	0.9	1.1
13	1.6	1.6
14	1.6	1.6
15	1.6	1.6
CN7110		
1	3.2	3.3
2	4.2	4.2
3	0	0
4	0	0
5	0.6	0.5
6	0.6	0.6
7	0.3	0.5
8	0.5	0.4
9	0.5	0.4
10	0.4	0.5
11	0	0
12	2.2	2.2
13	1.4	1.4
14	0	0
15	3.3	3.3
16	0	0
17	2.2	2.2
CN7121		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	3.3	3.2
7	3.3	3.3
8	0	0
9	0	0
CN7123		
1	1.4	1.4
2	0	0
3	2.2	2.3
4	0	0
CN8001		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	3.3	3.3
11	1.6	1.6

■ WAVEFORMS

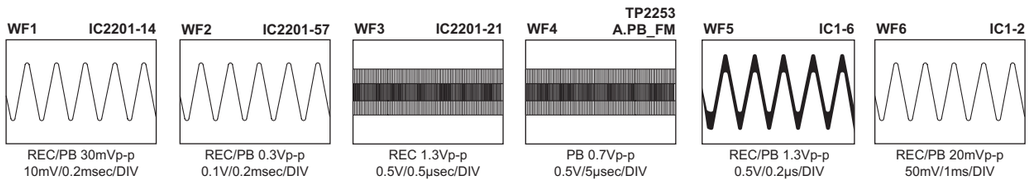
VIDEO BLOCK DIAGRAM (1)

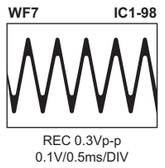


VIDEO BLOCK DIAGRAM (2)

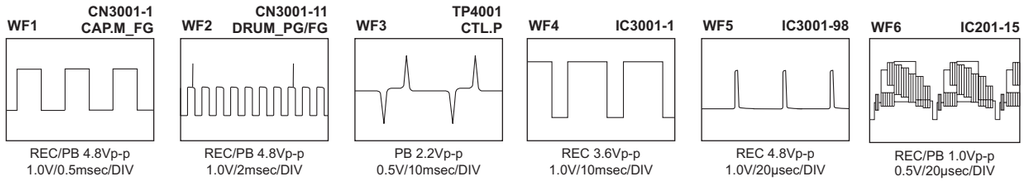


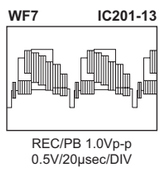
AUDIO BLOCK DIAGRAM





SYSTEM CONTROL BLOCK DIAGRAM





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(No.YD075)

Printed in Japan
VPT

PARTS LIST

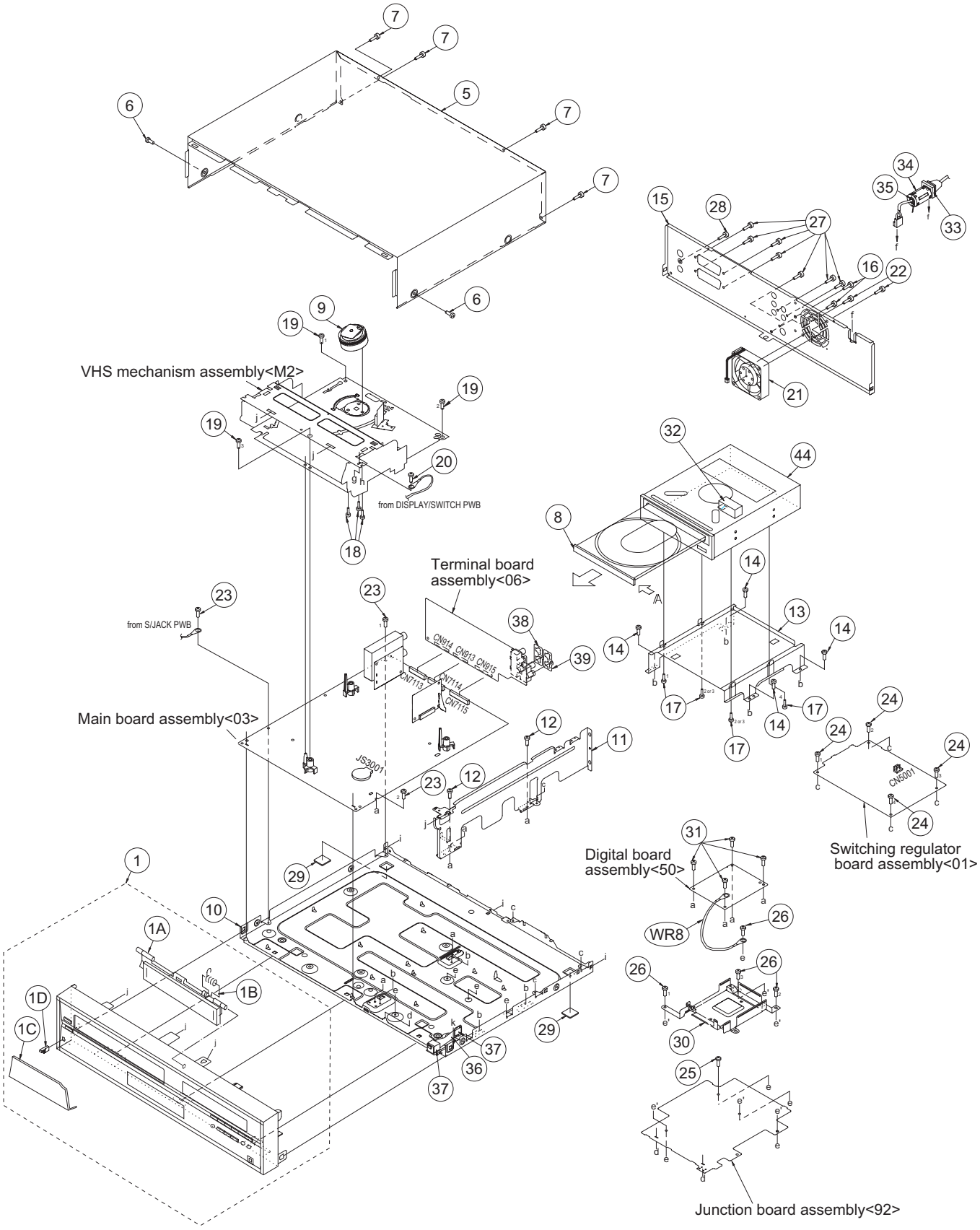
[DR-MV5BEK,DR-MV5SEK]

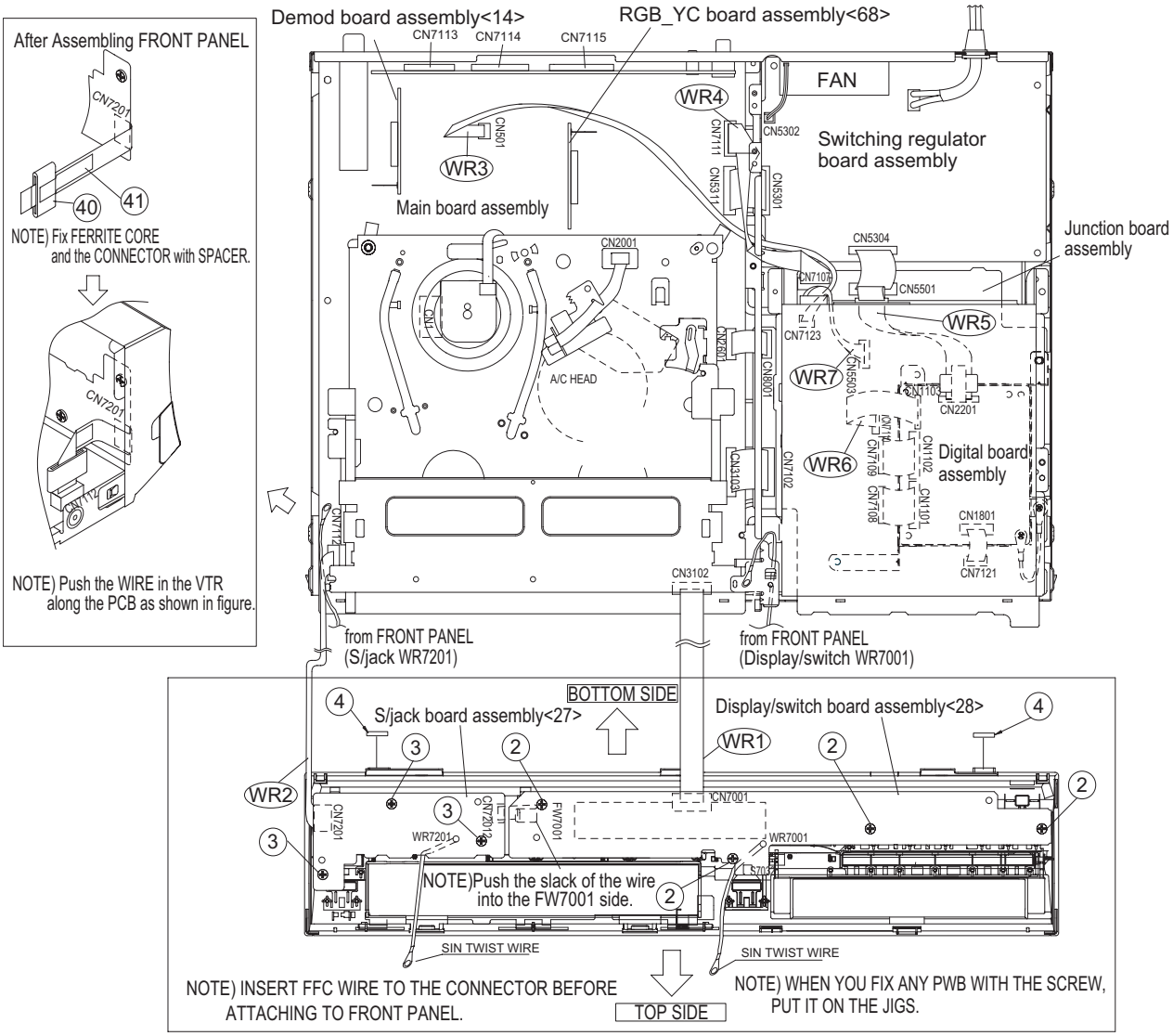
* SAFETY PRECAUTION
  Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.
* BEWARE OF BOGUS PARTS
  Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.
* (x_) in a description column shows the number of the used part.

- Contents -

Exploded view of general assembly and parts list

Block No. M1MM




After Assembling FRONT PANEL
CN7201
40
41
NOTE) Fix FERRITE CORE and the CONNECTOR with SPACER.
CN7201
NOTE) Push the WIRE in the VTR along the PCB as shown in figure.
Demod board assembly<14>
RGB_YC board assembly<68>
CN7113
CN7114
CN7115
FAN
WR4
CN5302
Switching regulator board assembly
CN501
WR3
CN7111
CN5311
CN5301
Main board assembly
Junction board assembly
CN2001
CN5304
CN7103
CN5501
WR5
CN7123
CN2601
CN8001
WR7
CN5503
A/C HEAD
CN1102
CN2201
CN7101
CN7109
CN1102
Digital board assembly
WR6
CN7102
CN3103
CN7108
CN1101
CN1801
CN7121
CN3102
from FRONT PANEL (S/jack WR7201)
from FRONT PANEL (Display/switch WR7001)
BOTTOM SIDE
S/jack board assembly<27>
Display/switch board assembly<28>
WR1
WR2
CN7001
CN7201
CN7202
FW7001
WR7201
WR7001
S7001
NOTE)Push the slack of the wire into the FW7001 side.
SIN TWIST WIRE
SIN TWIST WIRE
NOTE) INSERT FFC WIRE TO THE CONNECTOR BEFORE ATTACHING TO FRONT PANEL.
TOP SIDE
NOTE) WHEN YOU FIX ANY PWB WITH THE SCREW, PUT IT ON THE JIGS.
DRIVE UNIT REAR SIDE
NOTE) Push both ends of connector when it is inserted to DRIVE UNIT/HDD. Or, insert the connector everly pushing the lead of part
When connector is removed, add power right and left evenly.
45
Lock
NOTE) Lock the connector after inserting FCC WIRE.
FFC WIRE
5mm
42
43
Digital board assembly
CN2201
NOTE) FERRITE CORE is fixed from the CONNECTOR at a distance of 5mm. Fix FERRITE CORE and the CONNECTOR with SPACER.
NOTE) FJ CONN should be insert as follows.
NG
OK
CN
CN
Junction board assembly CN7108 ~ Digital board assembly CN1101
Junction board assembly CN7109 ~ Digital board assembly CN1102
Junction board assembly CN7121 ~ Digital board assembly CN1801
NOTE) Replace the attached FITING.
<HOW TO REMOVE>
FITTING(DVD) ASS'Y
TRAY
2.Take it out up by doing the slide.
1.It pulls out toward front side.
DRAWING FROM DIRECTION A

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

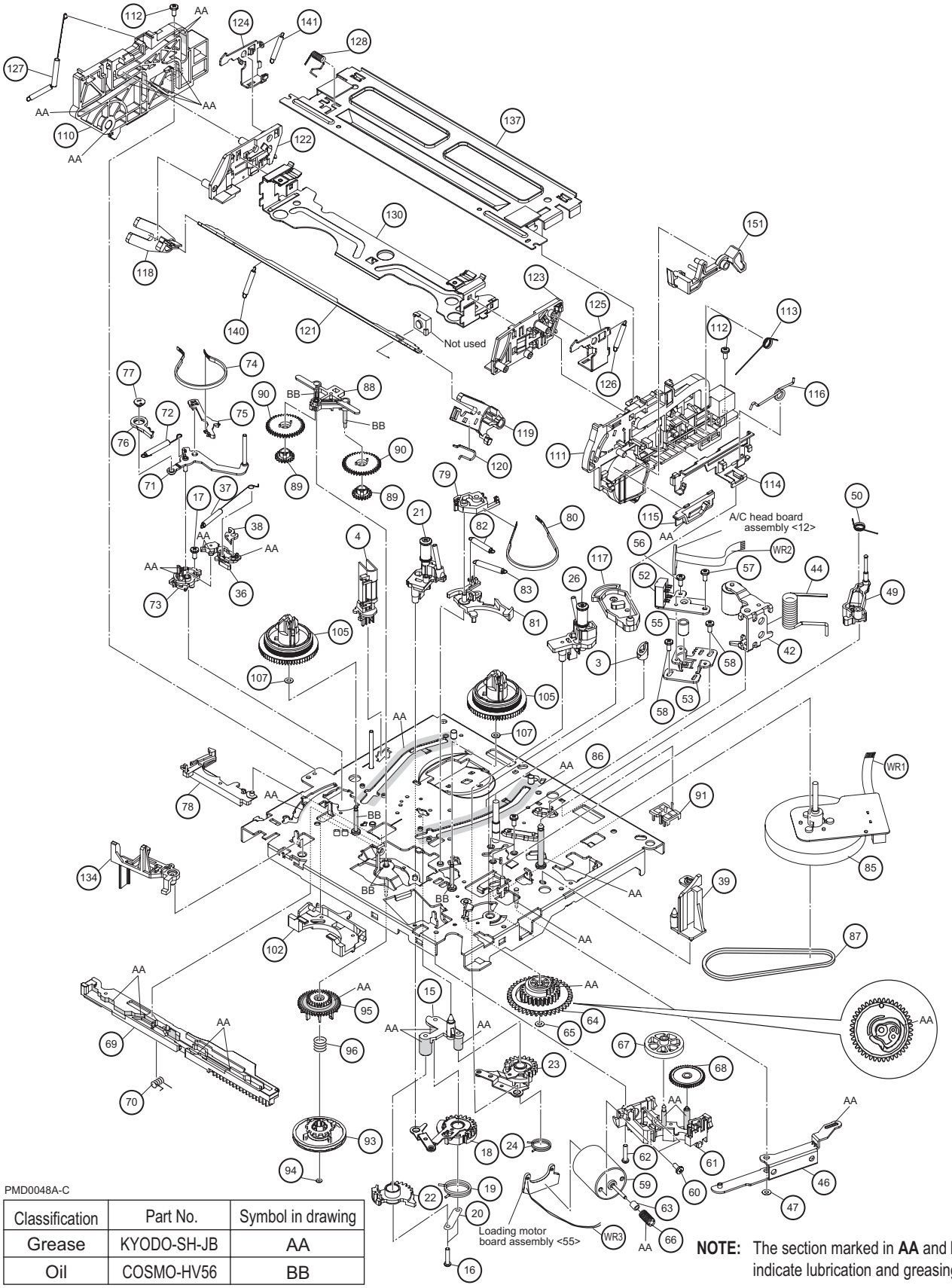
General assembly

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

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 1	LP10586-007C	FRONT PANEL ASSY		A
⚠ 1	LP10586-004C	FRONT PANEL ASSY		B
1A	LP21383-003A	DOOR(VCR)		A
1A	LP21383-002B	DOOR(VCR)		B
1B	PQ46448	TORSION SPRING		
1C	LP21385-007C	DOOR(JACK)		A
1C	LP21385-004C	DOOR(JACK)		B
1D	QZW0020-001	LATCH		
2	QYTDSF2608ZA	TAP SCREW	M2.6 x 8mm DISPLAY/SWITCH(x4)	
3	QYTDSF2608ZA	TAP SCREW	M2.6 x 8mm S/JACK(x3)	
4	LP31348-001A	FOOT	(x2)	
⚠ 5	LP10460-014A	TOP COVER		A
⚠ 5	LP10460-016A	TOP COVER		B
6	QYSBSG3006MA	TAP SCREW	M3 x 6mm TOP SIDE(x2)	A
6	QYSBSG3006NA	TAP SCREW	M3 x 6mm TOP SIDE(x2)	B
7	QYSBSG3006MA	TAP SCREW	M3 x 6mm TOP REAR(x4)	A
7	QYSBSG3006NA	TAP SCREW	M3 x 6mm TOP REAR(x4)	B
8	LP21348-001B	FITTING(DVD)		
9	PDV2625A	DRUM FINAL ASSY		
⚠ 10	LP10525-003A	BOTTOM CHASSIS		
11	LP21222-001B	BRACKET(CENTER)		
12	LP31391-001A	SPECIAL SCREW	BRACKET(CENTER)(x2)	
13	LP21299-001D	LOADER BRACKET		
14	LP31391-001A	SPECIAL SCREW	LOADER BRACKET(x4)	
⚠ 15	LP21134-023A	REAR COVER		
16	QYSBSG3006NA	TAP SCREW	M3 x 6mm REAR COVER(x2)	
17	QYTDST3006ZA	TAP SCREW	M3 x 6mm DRIVE UNIT(x4)	
18	QYSPSPD3008ZA	SCREW	M3 x 8mm DRUM(x3)	
19	LP31391-002A	SPECIAL SCREW	MECHANISM(x3)	
20	LP31391-001A	SPECIAL SCREW	HOUSING	
21	QAR0349-001	COOLING FAN		
22	QYTDSF3008MA	TAP SCREW	M3 x 8mm FAN(x2)	
23	LP31391-001A	SPECIAL SCREW	MAIN(x3)	
24	LP31391-001A	SPECIAL SCREW	SWITCHING REGULATOR(x4)	
25	LP31391-001A	SPECIAL SCREW	JUNCTION	
26	QYTDST3006ZA	TAP SCREW	M3 x 6mm SHIELD COVER(BOTTOM)(x4)	
27	QYTDSF3008MA	TAP SCREW	M3 x 8mm JACK COVER(x7)	
28	QYSBST3004MA	TAP SCREW	M3 x 4mm TUNER	
29	LP31348-001A	FOOT	(x2)	
30	LP21393-001A	SHIELD COVER(DIGITAL-BOTTOM)		
31	QYTDST3006ZA	TAP SCREW	M3 x 6mm DIGITAL(x4)	
32	LP41265-001A	GASKET		
⚠ 33	QMP51K0-170-K	POWER CORD	1.7m BLACK	
34	QQR0917-001	CORE FILTER		
35	QZW0004-001	WIRE CLAMP		
36	LP41264-001A	C.F TAPE		
37	LP30002-0A9A	SPACER	(x2)	
38	LP31345-001A	EARTH PLATE		
39	LP31345-001A	EARTH PLATE		
40	QQR1439-003	FERRITE CORE		
41	LP30002-0A9A	SPACER		
42	QQR1439-003	FERRITE CORE		
43	LP30002-0A9A	SPACER		
⚠ 44	QAL0704-001	DRIVE UNIT		
45	QGZ0021A1-40	CONNECTOR	(1-40)	
WR1	QUQ112-1510CG-E	FFC WIRE	DISPLAY/SWITCH CN7001-MAIN CN3102	
WR2	QUQ112-0908CG-E	FFC WIRE	S/JACK CN7201-MAIN CN3104	
WR3	QUQ212-0430CG-E	FFC WIRE	JUNCTION CN7123-MAIN CN501	
WR4	QUQ112-1116CG-E	FFC WIRE	JUNCTION CN7107-MAIN CN7111	
WR5	QUQ105-4016AF-E	FFC WIRE	DRIVE UNIT-DIGITAL CN2201	
WR6	QUQ210-1712CJ-E	FFC WIRE	DIGITAL CN1103-JUNCTION CN7110	
WR7	QJJ032-041504-E	SIN CR C-C WIRE	JUNCTION CN5503-DRIVE UNIT	
WR8	QUB220-06XLXL-E	SIN TWIST WIRE	DIGITAL-JUNCTION	

VHS mechanism assembly and parts list

Block No. M2MM



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	COSMO-HV56	BB

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

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

VHS mechanism

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

⚠ Symbol No.	Part No.	Part Name	Description	Local
3	LP40097-002E	GUIDE POLE CAP		
4	NAH0004-001	FULL ERASE HEAD		
15	LP30958-001B	LOADING GEAR BASE		
16	QYTPST2620ZA	TAP SCREW	M2.6 x 20mm(x2)	
17	QYTDST2606ZA	TAP SCREW	M2.6 x 6mm	
18	LP40798-002A	LOADING GEAR(SUPPLY) ASSY		
19	LP40837-001A	TORSION SPRING(SUPPLY)		
20	LP40903-004A	FIXING PLATE		
21	LP40806-001D	POLE BASE ASSY(SUPPLY)		
22	LP30959-001B	LOADING GEAR		
23	LP40802-002A	LOADING GEAR(TAKE UP) ASSY		
24	LP40838-001A	TORSION SPRING(TAKE UP)		
26	LP40808-001E	POLE BASE ASSY(TAKE UP)		
36	LP21055-001G	TAKE UP LEVER		
37	LP40943-001A	TENSION SPRING		
38	LP40859-001D	T-UP HEAD		
39	LP30961-001C	LID GUIDE		
42	LP40810-003A	PINCH ROLLER ARM ASSY		
44	LP40840-001E	TORSION SPRING		
46	LP30963-002A	PRESS LEVER		
47	PQM30017-24	SLIT WASHER		
49	LP40813-001D	GUIDE ARM ASSY		
50	LP40841-001A	TORSION SPRING		
52	NAH0005-001	AC HEAD		
53	LP30965-003A	HEAD BASE		
55	LP40842-001D	COMPRESSION SPRING		
56	QYTDST2006MA	TAP SCREW	M2 x 6mm	
57	LP41036-002A	A/C ADJ.SCREW	(x2)	
58	QYTDST2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
59	QAR0289-001	LOADING MOTOR		
60	QYTPSP3003ZA	SCREW	M3 x 3mm(x2)	
61	LP21056-002J	MOTOR BRACKET		
62	QYTPST2620ZA	TAP SCREW	M2.6 x 20mm	
63	LP40814-001B	WORM BEARING		
64	LP21044-001E	CONTROL CAM		
65	PQM30017-24	SLIT WASHER		
66	LP40815-001A	WORM GEAR		
67	LP40816-001B	HELICAL GEAR		
68	LP40817-001A	CONNECT GEAR		
69	LP10400-001N	CONTROL PLATE		
70	LP40843-001A	TORSION SPRING		
71	LP40818-002A	TENSION ARM ASSY		
72	LP40844-001F	TENSION SPRING		
73	LP21045-001E	TENSION ARM BASE		
74	LP40821-001A	TENSION BAND ASSY		
75	LP30967-001B	BAND HOLDER-1		
76	LP30968-001C	BAND HOLDER-2		
77	LP40822-002B	ADJUST PIN		
78	LP31000-005E	TENSION ARM LEVER		
79	LP21046-001C	MAIN BRAKE(TAKE UP)		
80	LP40824-001A	BAND BRAKE ASSY		
81	LP30969-002B	BRAKE LEVER		
82	LP30003-033C	TENSION SPRING		
83	LP30003-035C	TENSION SPRING		
⚠ 85	QAR0267-003	CAPSTAN MOTOR		
86	QYTPSG2606ZA	TAP SCREW	M2.6 x 6mm(x3)	
87	LP30005-010A	BELT	CAPSTAN MOTOR	
88	LP30970-001B	IDLER ARM		
89	LP40828-004A	IDLER GEAR 1	(x2)	
90	LP40829-003A	IDLER GEAR 2	(x2)	
91	LP31014-002A	WIRE HOLDER		
93	LP40934-001B	CLUTCH UNIT		
94	PQM30017-47	SLIT WASHER		
95	LP30973-001A	DIRECT GEAR		
96	LP40939-001A	COMPRESSION SPRING		
102	LP30974-001C	CHANGE LEVER		
105	LP21049-001A	REEL DISK	(x2)	
107	LP30017-004A	SPACER	REEL DISK(x2)	
110	LP10401-001L	SIDE FRAME(L)		
111	LP10402-001M	SIDE FRAME(R)		
112	QYTDST2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
113	LP40917-001D	TORSION SPRING		
114	LP30976-002B	SIDE PLATE		
115	LP30977-002E	LIMIT PLATE		
116	LP40846-001C	LIMIT SPRING		
117	LP31100-002A	DRIVE LEVER		
118	LP30978-001B	DRIVE ARM(L)		
119	LP30979-001S	DRIVE ARM(R)		
120	LP40847-001B	TORSION SPRING		

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
121	LP30980-002A	CONNECT PLATE		
122	LP10403-001C	SIDE HOLDER(L)		
123	LP10404-001F	SIDE HOLDER(R)		
124	LP30983-002A	LOCK LEVER(L)		
125	LP30984-002A	LOCK LEVER(R)		
126	LP40924-001D	TENSION SPRING		
127	LP40972-001A	EARTH SPRING(1)		
128	LP40857-001B	EARTH SPRING(2)		
130	LP30981-003B	CASSETTE HOLDER ASSY		
134	LP21051-002C	REC SAFETY LEVER		
137	LP21052-002A	TOP FRAME		
140	LP41153-001A	EARTH SPRING(3)		
141	LP40924-001D	TENSION SPRING		
151	LP30985-002M	DOOR OPENER		
WR1	WJT0117-001A-E	E-CARD WIRE	DRUM	
WR2	WJT0067-001B-E	E-CARD WIRE	A/C HEAD CN2001	
WR3	WJW0023-001A-E	E-TWISTED ASSY		

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

Electrical parts list

Switching regulator board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10286-04B1	SWITCHING REGULATOR BOARD ASSY		
IC5101	STR-G6653-F9	IC		
IC5301	UTCTL431-T	IC		
IC5301 or	MM1431AT-T	IC		
IC5301 or	TL431/A/-T	IC		
IC5303	RT9172N-20PT5	IC		
Q5303	UN2111-X	TRANSISTOR		
Q5303 or	DTA114EKA-X	DIGI TRANSISTOR		
Q5303 or	RT1P141C-X	DIGI TRANSISTOR		
Q5304	UN2211-X	TRANSISTOR		
Q5304 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5304 or	RT1N141C-X	DIGI TRANSISTOR		
Q5305	2SD2144S/UV/-T	TRANSISTOR		
Q5305 or	2SC3576-JVC-T	TRANSISTOR		
Q5306	2SC5739/QP/	TRANSISTOR		
Q5307	2SA1585S/QR/-T	TRANSISTOR		
Q5308	UN2211-X	TRANSISTOR		
Q5308 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5308 or	RT1N141C-X	DIGI TRANSISTOR		
D5001	D3SBA60	DIODE		
D5001 or	D3SBA60	DIODE		
D5101	SARS01-T2	SI DIODE		
D5103	10ERB20-T2	FR DIODE		
D5103 or	AU01Z-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		
D5202 or	AU01Z-T2	FR DIODE		
D5205	RK34-LFB2	SB IODE		
D5206	RK34-LFB2	SB IODE		
D5208	AW04-T2	SB DIODE		
D5208 or	AW04-T2	SB DIODE		
D5209	RK34-LFB2	SB IODE		
D5210	1SR156-400-X	SI DIODE		
D5211	AU01Z-T2	FR DIODE		
D5211 or	10ERB20-T2	FR DIODE		
D5213	AU01Z-T2	FR DIODE		
D5213 or	10ERB20-T2	FR DIODE		
D5213 or	AU01Z-T2	FR DIODE		
D5215	D1FS4A-X	SB DIODE		
D5217	RK34-LFB2	SB IODE		
D5219	AU01Z-T2	FR DIODE		
D5219 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 IODE		
D5307	RK34-LFB2	SB IODE		
D5308	RK34-LFB2	SB IODE		
D5309	AW04-T2	SB DIODE		
⚠ PC5101	PS2581AL1/QW/	PHOTO COUPLER		
⚠ C5001	QFZ9073-683	MM CAPACITOR	0.068uF AC250V M	
⚠ C5002	QFZ9073-223	MM CAPACITOR	0.022uF AC250V M	
C5003	QEZ0374-107	E CAPACITOR	100uF 400V M	
⚠ C5004	QCZ9079-222	C CAPACITOR	2200pF AC250V M	
⚠ C5005	QCZ9079-101	C CAPACITOR	100pF AC250V K	
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	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C5202	QETN2AM-475Z	E CAPACITOR	4.7uF 100V M	
C5203	QEMT1CM-687	E CAPACITOR	680uF 16V M	
C5204	QEMT1CM-687	E CAPACITOR	680uF 16V M	
C5205	QEMT1AM-158	E CAPACITOR	1500uF 10V M	
C5206	QEZ0700-158	E CAPACITOR	1500uF 10V K	
C5207	QEMT1AM-687	E CAPACITOR	680uF 10V M	
C5208	QEZ0700-278	E CAPACITOR	2700uF 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	
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	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5308	QETN1CM-107Z	E CAPACITOR	100uF 16V 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	
C5317	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5318	QETN1CM-107Z	E CAPACITOR	100uF 16V 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-R27X	MF RESISTOR	0.27Ω 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-820Y	C RESISTOR	82Ω 1/2W J	
R5316	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5317	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5325	QRE141J-180Y	C RESISTOR	18Ω 1/4W J	
⚠ R5326	QRZ9051-470X	FUSI RESISTOR	47Ω 1/4W J	
L5201	QQL26AK-330Z	COIL	33uH K	
L5202	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	
L5301	QQR0678-001Z	FERRITE BEADS		
L5302	QQR0678-001Z	FERRITE BEADS		
⚠ T5001	QQS0346-001	SW TRANSF		
B5302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
⚠ CN5001	QGA7901C3-02	CONNECTOR	W-B (1-2)	
CN5301	QGB1231L1-15	CONNECTOR	B-B (1-15)	
CN5302	QGA2001C1-02	CONNECTOR	W-B (1-2)	
CN5304	QGB1231L1-19	CONNECTOR	B-B (1-19)	
⚠ CP5301	QMFZ053-1R5Z-J1	FUSE	1.5A	
⚠ F5001	QMF5AE2-2R0-J1	FUSE	2A AC250V	
FC5001	QNG0020-001Z	FUSE CLIP		
FC5002	QNG0020-001Z	FUSE CLIP		
HS1	QZW0155-001	HEAT SINK	IC5101	
⚠ LF5002	QQR1031-001	LINE FILTER		
OT1	QYTDST3008ZA	TAP SCREW	M3 x 8mm IC5101	
W51	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

Main board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10293-02D	MAIN BOARD ASSY		
IC1	JCP8060-MSA	IC		
IC201	LC74788N-9612-E	IC		
IC501	BH7623KS2	IC		
⚠ IC2201	AN3651FBP	IC		
IC2601	RC4558D-X	IC		
IC2601 or	BA15218F-XE	IC		
IC2602	CD4052BM-X	IC		
IC2602 or	BU4052BCF-X	IC		
IC2603	RC4558D-X	IC		
IC2603 or	BA15218F-XE	IC		
IC2604	CD4052BM-X	IC		
IC2604 or	BU4052BCF-X	IC		
IC2605	RC4558D-X	IC		
IC2605 or	BA15218F-XE	IC		
IC2606	LA7151-E	IC		
IC2607	LA7151-E	IC		
IC3001	HD6432194SAE05F	IC(MCU)		MASK
IC3002	S-80827CNNB-G-W	IC		
IC3002 or	IC-PST3427U-X	IC		
IC3003	LPN1001-001C-32	IC(EEPROM)	*(REFER TO BELOW)	
IC3601	BU2090FS-X	IC		
IC4201	LC74793-E	IC		
IC4202	MM1504XN-X	IC		
IC7101	CD74HC4053PW-X	IC		
IC7501	SN74LV08APW-X	IC		
Q7	2SC2412K/QRS/-X	TRANSISTOR		
Q7 or	2SD601A/QRS/-X	TRANSISTOR		
Q7 or	2SC3928A/QRS/-X	TRANSISTOR		
Q8	2SC2412K/QRS/-X	TRANSISTOR		
Q8 or	2SD601A/QRS/-X	TRANSISTOR		
Q8 or	2SC3928A/QRS/-X	TRANSISTOR		
Q9	2SC2412K/QRS/-X	TRANSISTOR		
Q9 or	2SD601A/QRS/-X	TRANSISTOR		
Q9 or	2SC3928A/QRS/-X	TRANSISTOR		
Q10	2SC2412K/QRS/-X	TRANSISTOR		
Q10 or	2SD601A/QRS/-X	TRANSISTOR		
Q10 or	2SC3928A/QRS/-X	TRANSISTOR		
Q16	2SA1037AK/QR/-X	TRANSISTOR		
Q16 or	2SB709A/QR/-X	TRANSISTOR		
Q16 or	2SA1530A/QR/-X	TRANSISTOR		
Q202	2SC2412K/QRS/-X	TRANSISTOR		
Q202 or	2SD601A/QRS/-X	TRANSISTOR		
Q202 or	2SC3928A/QRS/-X	TRANSISTOR		
Q203	2SA1037AK/QR/-X	TRANSISTOR		
Q203 or	2SB709A/QR/-X	TRANSISTOR		
Q203 or	2SA1530A/QR/-X	TRANSISTOR		
Q501	2SA1037AK/QR/-X	TRANSISTOR		
Q503	2SA1037AK/QR/-X	TRANSISTOR		
Q2001	2SC2412K/QRS/-X	TRANSISTOR		
Q2001 or	2SD601A/QRS/-X	TRANSISTOR		
Q2001 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2002	2SC2412K/QRS/-X	TRANSISTOR		
Q2002 or	2SD601A/QRS/-X	TRANSISTOR		
Q2002 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2003	DTA144WKA-X	TRANSISTOR		
Q2003 or	UN211E-X	DIGI TRANSISTOR		
Q2003 or	RT1P44HC-X	DIGI TRANSISTOR		
Q2051	2SC2412K/QRS/-X	TRANSISTOR		
Q2051 or	2SD601A/QRS/-X	TRANSISTOR		
Q2051 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2052	2SA1037AK/QR/-X	TRANSISTOR		
Q2052 or	2SB709A/QR/-X	TRANSISTOR		
Q2052 or	2SA1530A/QR/-X	TRANSISTOR		
Q2053	DTC144WKA-X	DIGI TRANSISTOR		
Q2053 or	UN221E-X	TRANSTSTOR		
Q2053 or	RT1N44HC-X	DIGI TRANSISTOR		
Q2054	2SA1037AK/QR/-X	TRANSISTOR		
Q2054 or	2SB709A/QR/-X	TRANSISTOR		
Q2054 or	2SA1530A/QR/-X	TRANSISTOR		
Q2055	DTC144WKA-X	DIGI TRANSISTOR		
Q2055 or	UN221E-X	TRANSTSTOR		
Q2055 or	RT1N44HC-X	DIGI TRANSISTOR		
Q2201	DTA144WKA-X	TRANSISTOR		
Q2201 or	UN211E-X	DIGI TRANSISTOR		
Q2201 or	RT1P44HC-X	DIGI TRANSISTOR		
Q2202	DTC144WKA-X	DIGI TRANSISTOR		
Q2202 or	UN221E-X	TRANSTSTOR		
Q2202 or	RT1N44HC-X	DIGI TRANSISTOR		
Q2203	2SC2412K/QRS/-X	TRANSISTOR		
Q2203 or	2SD601A/QRS/-X	TRANSISTOR		
Q2203 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2204	2SC2412K/QRS/-X	TRANSISTOR		
Q2204 or	2SD601A/QRS/-X	TRANSISTOR		
Q2204 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2255	DTC114EKA-X	DIGI TRANSISTOR		
Q2255 or	UN2211-X	TRANSISTOR		
Q2255 or	RT1N141C-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	DTA144WKA-X	TRANSISTOR		
Q2603 or	UN211E-X	DIGI TRANSISTOR		
Q2603 or	RT1P44HC-X	DIGI TRANSISTOR		
Q2604	2SC2412K/QRS/-X	TRANSISTOR		
Q2604 or	2SD601A/QRS/-X	TRANSISTOR		
Q2604 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2605	2SC2412K/QRS/-X	TRANSISTOR		
Q2605 or	2SD601A/QRS/-X	TRANSISTOR		
Q2605 or	2SC3928A/QRS/-X	TRANSISTOR		
Q2606	DTA144WKA-X	TRANSISTOR		
Q2606 or	UN211E-X	DIGI TRANSISTOR		
Q2606 or	RT1P44HC-X	DIGI TRANSISTOR		
Q3002	PTZ-NV16A	IC(PHOTO SENSOR)		
Q3003	PTZ-NV16A	IC(PHOTO SENSOR)		
Q3004	2SD601A/QRS/-X	TRANSISTOR		
Q3004 or	2SC2412K/QRS/-X	TRANSISTOR		
Q3004 or	2SC3928A/QRS/-X	TRANSISTOR		
Q3005	2SD601A/QRS/-X	TRANSISTOR		
Q3005 or	2SC2412K/QRS/-X	TRANSISTOR		
Q3005 or	2SC3928A/QRS/-X	TRANSISTOR		
Q3007	UN221E-X	TRANSTSTOR		
Q3007 or	DTC144WKA-X	DIGI TRANSISTOR		
Q3007 or	RT1N44HC-X	DIGI TRANSISTOR		
Q3011	UN221L-X	DIGI TRANSISTOR		
Q3011 or	DTC143EKA-X	DIGI TRANSISTOR		
Q3011 or	RT1N431C-X	DIGI TRANSISTOR		
Q3901	UN221E-X	TRANSTSTOR		
Q3901 or	DTC144WKA-X	DIGI TRANSISTOR		
Q3901 or	RT1N44HC-X	DIGI TRANSISTOR		
Q4001	UN2211-X	TRANSISTOR		
Q4001 or	DTC114EKA-X	DIGI TRANSISTOR		
Q4001 or	RT1N141C-X	DIGI TRANSISTOR		
Q4201	2SC2412K/QRS/-X	TRANSISTOR		
Q4201 or	2SD601A/QRS/-X	TRANSISTOR		
Q4201 or	2SC3928A/QRS/-X	TRANSISTOR		
Q6001	2SD2144S/UV/-T	TRANSISTOR		
Q6030	2SA1037AK/QR/-X	TRANSISTOR		
Q6030 or	2SA1530A/QR/-X	TRANSISTOR		
Q6031	DTC114EKA-X	DIGI TRANSISTOR		
Q6031 or	RT1N141C-X	DIGI TRANSISTOR		
D202	1SS133-T2	SI DIODE		
D203	1SS133-T2	SI DIODE		
D2001	1SS133-T2	SI DIODE		
D2001 or	1SS270A-T2	SI DIODE		
D2251	1SS133-T2	SI DIODE		
D2251 or	1SS270A-T2	SI DIODE		
D2601	1SS133-T2	SI DIODE		
D2601 or	1SS270A-T2	SI DIODE		
D2602	1SS133-T2	SI DIODE		
D2602 or	1SS270A-T2	SI DIODE		
D3001	LNB2301L01VI	LED		
D3002	1SS133-T2	SI DIODE		
D3002 or	1SS270A-T2	SI DIODE		
D3003	MTZJ39C-T2	Z DIODE		
D3003 or	MTZJ39C-T2	Z DIODE		

*The VCR goes to jig RCU mode after replacing the EEPROM and the VCR does not accept some RCU command.
Therefore please set the VCR to the user RCU mode after replacing the EEPROM.
The method of setting the VCR to the user RCU mode is written on the service manual.

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
D3004	11ES2-T2	SI DIODE		
D3004 or	1A3G-T2	SI DIODE		
D3005	11ES2-T2	SI DIODE		
D3005 or	1A3G-T2	SI DIODE		
D3008	1SS133-T2	SI DIODE		
D3008 or	1SS270A-T2	SI DIODE		
D4001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D4002	1SS355-X	SI DIODE		
D4002 or	MA111-X	SI DIODE		
D6002	HZ30-2L-T2	Z DIODE		
PC3001	RPI-304J	IC(PHOTO SENSOR)		
PC3002	RPI-304J	IC(PHOTO SENSOR)		
C1	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C2	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C5	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C9	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C10	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C11	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C12	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C13	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C14	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C15	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C17	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C19	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C20	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C22	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C24	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C25	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C26	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C27	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C30	QCBB1HK-331Y	C CAPACITOR	330pF 50V K	
C31	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C32	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C33	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C34	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C35	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C36	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C37	NDC31HJ-4R0X	C CAPACITOR	4pF 50V J	
C38	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C39	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C40	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C41	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C43	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C44	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C45	NCB31EK-472X	C CAPACITOR	4700pF 25V K	
C46	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C47	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C48	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C49	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C56	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C57	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C58	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C59	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C60	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C61	QEKC0JM-476Z	E CAPACITOR	47uF 6.3V M	
C62	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C63	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C64	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C71	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C85	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C201	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C203	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C204	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C205	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C206	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C207	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C208	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C209	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C213	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C501	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C503	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C505	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C507	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C511	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C513	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C514	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C516	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C517	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C519	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C521	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C523	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C524	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C525	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C526	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C528	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C530	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C532	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C534	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C535	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C536	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C542	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C543	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C544	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C547	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2001	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2002	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2003	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C2005	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2006	NCB31EK-682X	C CAPACITOR	6800pF 25V K	
C2007	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C2008	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2009	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2010	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C2011	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2012	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2013	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2051	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2052	QFV61HJ-823Z	MF CAPACITOR	0.082uF 50V J	
C2053	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2054	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C2055	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2201	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2202	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2203	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2204	QEKJ0JM-336Z	E CAPACITOR	33uF 6.3V M	
C2205	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2206	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2207	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C2208	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C2209	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2210	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2211	QEKJ0JM-336Z	E CAPACITOR	33uF 6.3V M	
C2212	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C2214	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2215	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2216	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C2220	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2221	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C2222	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2223	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C2224	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C2227	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2251	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2252	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2253	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2254	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C2255	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2256	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2257	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C2258	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C2259	QEKJ1HM-334Z	E CAPACITOR	0.33uF 50V M	
C2261	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2262	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2601	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2603	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2604	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2605	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2606	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2607	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2608	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2609	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C2610	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2611	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2612	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C2613	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2614	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2615	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2616	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2617	QEKC1HM-105Z	E CAPACITOR	1uF 50V M	
C2618	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2651	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C2653	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C3004	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3010	QEZ0244-229	EDL CAPACITOR	0.022F 5.5V Z	
C3012	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3024	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C3025	QAT3725-300Z	TRIM CAPACITOR	30pF TIMER CLOCK	
C3027	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C3030	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C3031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3034	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3035	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3036	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C3037	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C3042	QETJ0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3050	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3071	QEKJ1HM-336Z	E CAPACITOR	33uF 50V M	
C3602	QCBB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C4002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4004	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C4005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C4006	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C4008	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C4010	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C4011	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C4012	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4014	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C4015	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4018	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4031	QEKJ1CM-336Z	E CAPACITOR	33uF 16V M	
C4201	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C4202	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4203	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4204	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4205	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C4206	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C4207	NCB31CK-563X	C CAPACITOR	0.056uF 16V K	
C4208	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C4209	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C4210	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C4216	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4217	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4218	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C6001	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C6002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6037	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C7501	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C7502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7503	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C7504	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C7505	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C7509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R1	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R2	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R11	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R12	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R21	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R22	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R36	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R37	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R38	NRSA63J-685X	MG RESISTOR	6.8MΩ 1/16W J	
R41	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R42	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R43	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R203	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R204	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R205	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R206	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R208	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R209	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R210	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R212	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R213	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R505	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R506	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R510	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R514	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R520	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R522	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R528	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R529	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R530	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R531	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R532	QRE141J-394Y	C RESISTOR	390kΩ 1/4W J	
R2003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2005	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2007	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2010	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2013	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2014	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R2015	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R2016	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2017	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2018	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2019	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2021	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2022	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2023	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2053	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2054	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2055	NRSA63J-3R3X	MG RESISTOR	3.3Ω 1/16W J	
R2056	QRE141J-820Y	C RESISTOR	82Ω 1/4W J	
R2057	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2058	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2059	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2060	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2202	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2203	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2204	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2208	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2209	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R2210	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2211	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2212	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2213	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2214	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R2215	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2218	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2219	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R2220	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2222	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R2223	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R2224	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R2225	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2226	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2227	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R2228	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2229	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R2230	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2231	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2232	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2233	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2234	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2240	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2241	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2242	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2243	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2244	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2251	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2252	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R2253	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2255	NRSA63J-273X	MG RESISTOR	27kΩ 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-273X	MG RESISTOR	27kΩ 1/16W J	
R2606	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2607	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2608	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2609	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2610	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2611	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2612	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2613	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2615	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2618	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2619	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2620	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2621	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R2622	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R2631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2632	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2633	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2634	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2635	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2636	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2637	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2652	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2654	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2655	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2656	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2657	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2659	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2661	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2662	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2663	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2666	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3013	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3016	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3017	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3019	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R3021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3022	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3025	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3026	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3027	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3029	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3030	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3031	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3032	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3034	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3036	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3037	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3038	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3039	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3041	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3046	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3047	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3048	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3049	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3050	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3051	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3052	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3053	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3054	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3056	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3057	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3059	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3060	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3061	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3062	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3063	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3066	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3069	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3071	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3075	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3076	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3078	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3079	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3080	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3081	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3083	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3085	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3086	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3087	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3089	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3090	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3091	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3092	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3093	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3094	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3095	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3096	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3097	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3103	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3104	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3106	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3205	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R3206	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3207	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3208	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R3209	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3210	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R3211	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3212	QRE141J-474Y	C RESISTOR	470kΩ 1/4W J	
R3213	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3215	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3216	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3217	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3218	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3219	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3220	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3223	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3224	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3229	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3231	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3235	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3236	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3241	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3250	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3253	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3258	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3259	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3260	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3261	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3262	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3263	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3264	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3601	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3607	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3608	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3610	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3611	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3612	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4001	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4003	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R4004	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R4005	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4009	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4010	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4012	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4013	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4015	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4017	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4127	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4128	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4203	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4206	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4209	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4210	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R4211	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4215	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4216	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6001	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R6002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6022	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6030	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6032	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R6033	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R6080	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7102	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R7501	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R7502	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R7503	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R7504	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R7505	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R7506	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R7507	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
L3	QQL29BJ-100Z	P COIL	10uH J	
L5	QQL29BJ-100Z	P COIL	10uH J	
L6	QQL29BJ-100Z	P COIL	10uH J	
L7	QQR0967-001	CHOKE COIL		
L10	QQL29BJ-100Z	P COIL	10uH J	
L201	QQL29BJ-100Z	P COIL	10uH J	
L202	QQL071J-220Y	COIL	22uH J	
L203	QQL071J-220Y	COIL	22uH J	
L501	QQL29BJ-100Z	P COIL	10uH J	
L502	QQL29BJ-100Z	P COIL	10uH J	
L2251	QQL29BJ-100Z	P COIL	10uH J	
L2252	QQL29BJ-151Z	P COIL	150uH J	
⚠ L3001	QQL231J-R22Y	COIL	0.22uH J	
L4201	QQL29BJ-100Z	P COIL	10uH J	
L6002	QQL29BK-1R0Z	P COIL	1uH K	
L6003	QQL29BK-1R0Z	P COIL	1uH K	
L6005	QQL231J-5R6Y	COIL	5.6uH J	
L6701	QQL29BJ-3R3Z	P COIL	3.3uH J	
L7501	QQL29BK-1R0Z	P COIL	1uH K	
T2051	QQR0002-001	BIAS COIL		
B1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B505	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
B507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7124	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN1	QGF1201C2-09	CONNECTOR	FFC/FPC (1-9)	
CN501	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN2001	QGF1207C1-06	CONNECTOR	FFC/FPC (1-6)	
CN2002	QGB2532J1-02	CONNECTOR	B-B (1-2)	
CN2601	QGB1231L1-11	CONNECTOR	B-B (1-11)	
CN3001	QGB2032M4-12	CONNECTOR	B-B (1-12)	
CN3102	QGF1207C1-15	CONNECTOR	FFC/FPC (1-15)	
CN3103	QGB1231L1-19	CONNECTOR	B-B (1-19)	
CN3901	QGF1207C1-06	CONNECTOR	FFC/FPC (1-6)	
CN5311	QGB1231M1-15	CONNECTOR	B-B (1-15)	
CN7111	QGF1207C1-11	CONNECTOR	FFC/FPC (1-11)	
CN7112	QGF1207C1-09	CONNECTOR	FFC/FPC (1-9)	
CN7113	QGB2024K1-13S	CONNECTOR	B-B (1-13)	
CN7114	QGB2024K1-15S	CONNECTOR	B-B (1-15)	
CN7115	QGB2024K1-17S	CONNECTOR	B-B (1-17)	
⚠ CP3002	QMFZ050-1R25X-E	FUSE	1.25A 125V	
⚠ CP4002	QMFZ050-1R25X-E	FUSE	1.25A 125V	
J7009	QNN0096-001	PIN JACK	DVD DIGITAL AUDIO OUT (COAXIAL)	
JS3001	NSW0238-001	ROTARY ENCODER		
K2001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2252	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7501	NQR0147-004X	FERRITE BEADS		
K7503	NQR0147-004X	FERRITE BEADS		
OT1	LP31158-001A	BOSS(MECHA) 1		
OT2	LP31185-001A	BOSS(MECHA) 2	(x2)	
OT3	LP40229-002A	PLATE		
S3001	QSW0602-004	PUSH SWITCH	REC SAFETY	
SD1	LP31179-001A	SHILD PLATE(PRE/REC)		
TU6001	QAU0401-001	TUNER		
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W5	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	
W14	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W15	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W16	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W17	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W18	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W19	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W20	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W21	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W22	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W23	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W24	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W25	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W26	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W27	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W28	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W30	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W33	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W34	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	

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
W37	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W38	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W39	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W41	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W42	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W44	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W45	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W46	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W47	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W48	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W49	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W50	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W51	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W52	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W53	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W54	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W55	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W56	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W57	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W58	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
X1	QAX0740-001	CRYSTAL	4.433619MHz	
X3001	QAX0444-001	CRYSTAL	32.768kHz	
X3002	QAX0527-001	CRYSTAL	10.000000MHz	
X4201	QAX0849-001	CRYSTAL	4.433619MHz	

Terminal board

Block No. [0][6]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10296-01B	TERMINAL BOARD ASSY		
IC901	HA118226F	IC		
IC902	BA7623F-X	IC		
Q901	2SC2412K/QRS/-X	TRANSISTOR		
Q901 or	2SD601A/QRS/-X	TRANSISTOR		
Q901 or	2SC3928A/QRS/-X	TRANSISTOR		
Q902	2SC2412K/QRS/-X	TRANSISTOR		
Q902 or	2SD601A/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		
Q905	DTC144WKA-X	DIGI TRANSISTOR		
Q905 or	UN221E-X	TRANSTSTOR		
Q905 or	RT1N44HC-X	DIGI TRANSISTOR		
Q907	2SA1037AK/QR/-X	TRANSISTOR		
Q907 or	2SB709A/QR/-X	TRANSISTOR		
Q907 or	2SA1530A/QR/-X	TRANSISTOR		
Q908	2SA1037AK/QR/-X	TRANSISTOR		
Q908 or	2SB709A/QR/-X	TRANSISTOR		
Q908 or	2SA1530A/QR/-X	TRANSISTOR		
Q912	2SA1037AK/QR/-X	TRANSISTOR		
Q913	2SA1037AK/QR/-X	TRANSISTOR		
Q932	2SA1037AK/QR/-X	TRANSISTOR		
Q932 or	2SB709A/QR/-X	TRANSISTOR		
Q932 or	2SA1530A/QR/-X	TRANSISTOR		
Q933	2SA1037AK/QR/-X	TRANSISTOR		
Q933 or	2SB709A/QR/-X	TRANSISTOR		
Q933 or	2SA1530A/QR/-X	TRANSISTOR		
Q936	2SA1037AK/QR/-X	TRANSISTOR		
Q936 or	2SB709A/QR/-X	TRANSISTOR		
Q936 or	2SA1530A/QR/-X	TRANSISTOR		
Q941	2SA1037AK/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		
D904	MTZJ9.1B-T2	Z DIODE		
C901	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C902	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C903	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C904	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C905	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C906	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C907	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C908	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C909	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C914	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C915	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C916	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C917	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C918	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C919	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C920	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C921	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C922	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C923	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C924	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C925	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C930	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C932	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C934	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C935	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C937	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C939	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C940	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C941	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C942	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C944	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C950	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C951	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C952	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C953	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C954	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C955	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C956	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C960	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C961	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C962	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C963	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C964	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C965	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C968	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C971	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C973	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C981	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C982	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C983	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C986	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C988	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C991	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C992	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C994	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C996	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C997	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
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	
R905	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R906	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R907	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R908	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R909	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R910	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R911	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R912	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R913	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R914	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R915	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R916	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R917	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R918	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R919	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R920	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
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	
R929	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R930	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R931	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R932	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R937	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R939	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R940	NRSA63J-101X	MG RESISTOR	100Ω 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	
R946	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R947	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	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R976	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R977	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R978	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	
R988	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R989	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
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	
L903	QQL071J-1R0Y	COIL	1uH J	
L904	QQL071J-4R7Y	COIL	4.7uH J	
L905	QQL071J-4R7Y	COIL	4.7uH J	
L908	QQL231J-R22Y	COIL	0.22uH J	
L909	QQL071J-4R7Y	COIL	4.7uH J	
L910	QQL071J-4R7Y	COIL	4.7uH J	
L917	QQL29BJ-100Z	P COIL	10uH J	
L918	QQL29BJ-100Z	P COIL	10uH J	
L919	QQL29BJ-100Z	P COIL	10uH J	
L931	QQL071J-100Y	COIL	10uH J	
L932	QQL071J-100Y	COIL	10uH J	
L933	QQL071J-100Y	COIL	10uH J	
L934	QQL071J-100Y	COIL	10uH J	
CN913	QGB2024J1-15S	CONNECTOR	B-B (1-15)	
CN914	QGB2024J1-13S	CONNECTOR	B-B (1-13)	
CN915	QGB2024J1-17S	CONNECTOR	B-B (1-17)	
ET1	QNZ0431-001Z	EARTH TERMINAL		
J901	QNZ0627-001	21P CONNECTOR	L-1 IN/OUT	
J902	QNZ0627-001	21P CONNECTOR	L-2 IN/DECODER	
J905	QNN0599-002	PIN JACK	DVD COMPONENT VIDEO OUT	
J907	QNN0295-002	PIN JACK	AUDIO OUTPUT (LEFT/ RIGHT)	
W101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W105	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W107	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

A/C head board

Block No. [1][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10158-01A1	A/C HEAD BOARD ASSY		

Demod board

Block No. [1][4]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10292-03A	DEMOD BOARD ASSY		
IC6701	MSP3417GQGB8V3X	IC		
D6701	1SS133-T2	SI DIODE		
D6701 or	1SS270A-T2	SI DIODE		
C6704	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C6707	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C6708	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C6709	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	
C6713	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C6714	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6715	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6716	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6717	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6719	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6720	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6721	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6723	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R6707	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R6708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6709	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6710	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6711	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6713	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R6714	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6715	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R6716	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R6719	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R6720	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6721	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
B6701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
BK1	LP40425-001A	BRACKET(PWB)		
CN6701	QGG2502K1-10	CONNECTOR	(1-10)	
K6701	NQR0129-003X	FERRITE BEADS		
K6702	NQR0129-003X	FERRITE BEADS		
K6705	NQR0129-003X	FERRITE BEADS		
K6706	NQR0129-003X	FERRITE BEADS		
K6708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W6701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
X6701	QAX0773-001Z	CRYSTAL	18.432000MHz	

S/jack board

Block No. [2][7]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10286-04B5	S/JACK BOARD ASSY		
D7202	1SS133-T2	SI DIODE		
D7203	1SS133-T2	SI DIODE		
D7204	MTZJ6.8A-T2	Z DIODE		
C7202	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C7203	NDC31HJ-471X	C CAPACITOR	470pF 50V J	

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
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	
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	
L7202	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
L7203	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
CN7201	QGF1209F1-09	CONNECTOR	FFC/FPC (1-9)	
CN7202	QGD2503C1-03	CONNECTOR	(1-3)	
J7201	QNN0591-001	PIN JACK	FRONT VIDEO/AUDIO ((MONO) L/R)	
J7204	QND0084-001	S JACK	FRONT S-VIDEO	
S7216	QSW0381-001Z	TACT SWITCH	VHS_EJECT	
S7218	QSW0381-001Z	TACT SWITCH	STANDBY/ON	
W71	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W72	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W74	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W75	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
WR7201	QUB220-14A4XL-E	SIN TWIST WIRE		

Display/switch board

Block No. [2][8]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10286-04B4	DISPLAY/SWITCH BOARD ASSY		
IC7001	PT6315	IC		
IC7002	GP1UM281XKVF	IR DETECT UNIT		
IC7002 or	PNA4652M00XB	IR DETECT UNIT		
D7001	1SS133-T2	SI DIODE		
D7001 or	1SS270A-T2	SI DIODE		
D7002	1SS133-T2	SI DIODE		
D7002 or	1SS270A-T2	SI DIODE		
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		
D7041	SLR-325MC-T	LED		VHS
D7041 or	SLR-343MC-T	LED		
D7043	SLR-325MC-T	LED		VHS->DVD
D7043 or	SLR-343MC-T	LED		
D7045	SDPB50A0/DEGH/	LED		ILLUM
D7045 or	SLA-580BC3T3F	LED		
D7046	SLR-325MC-T	LED		DVD->VHS
D7046 or	SLR-343MC-T	LED		
D7047	SLR-325MC-T	LED		DVD
D7047 or	SLR-343MC-T	LED		
D7048	SDPB50A0/DEGH/	LED		ILLUM
D7048 or	SLA-580BC3T3F	LED		
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	QEKC0JM-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	
C7013	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C7014	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
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	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7041	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7043	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7045	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7046	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7047	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R7048	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7053	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
R7054	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
CN7001	QGF1209F2-15	CONNECTOR	FFC/FPC (1-15)	
DI7001	QLF0143-001	FL TUBE		
FW7001	QUM023-07A4BF-E	PARA RIBON WIRE		
HD1	PQ34949-1-1	FL HOLDER(L)		
HD2	PQ34950-1-1	FDP HOLDER(R)		
S7002	QSW0381-001Z	TACT SWITCH		PR+
S7004	QSW0381-001Z	TACT SWITCH		VHS-DVD
S7005	QSW0381-001Z	TACT SWITCH		DUBBING
S7006	QSW0381-001Z	TACT SWITCH		DVD-VHS
S7012	QSW0381-001Z	TACT SWITCH		VHS/DVD
S7013	QSW0381-001Z	TACT SWITCH		FF
S7014	QSW0381-001Z	TACT SWITCH		PAUSE
S7015	QSW0381-001Z	TACT SWITCH		STOP
S7022	QSW0381-001Z	TACT SWITCH		PR-
S7032	QSW0381-001Z	TACT SWITCH		OPEN/CLOSE
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	
WR7001	QUB230-12HPXL-E	SIN TWIST WIRE		

Digital board

Block No. [5][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10289-09C	DIGITAL BOARD ASSY		
IC1201	LPN1002-003A	IC(FLASH)		(SERVICE)
IC1202	SN74LVC373APW-X	IC(DIGITAL)		
IC1203	SN74LVC373APW-X	IC(DIGITAL)		
IC1401	DMN8602-B0	IC(DIGITAL)		
IC1404	SN74HCT08APW-X	IC		
IC1601	NT5DS16M16CS-6K	IC		
IC1601 or	HY5DU561622DT-J	IC		
IC1601 or	K4H561638F-UCB3	IC		
IC1602	NT5DS16M16CS-6K	IC		
IC1602 or	HY5DU561622DT-J	IC		
IC1602 or	K4H561638F-UCB3	IC		
IC1701	BD3533F-X	IC		
IC1801	TSB41AB1PAP	IC		
IC1901	L2150-W	IC		
Q1901	2SA1530A/QR/-X	TRANSISTOR		
Q1901 or	2SB709A/QR/-X	TRANSISTOR		
Q1901 or	2SA1037AK/QR/-X	TRANSISTOR		
Q1903	2SC3928A/QRS/-X	TRANSISTOR		
Q1903 or	2SD601A/QRS/-X	TRANSISTOR		
Q1903 or	2SC2412K/QRS/-X	TRANSISTOR		
D1401	MA111-X	SI DIODE		

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
D1401	or 1SS355-X	SI DIODE		
D1402	MA111-X	SI DIODE		
D1402	or 1SS355-X	SI DIODE		
C1101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1105	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1108	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1110	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1111	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1112	NEX60GM-337X	E CAPACITOR	330uF 4V M	
C1113	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
C1116	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1117	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1118	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1119	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1120	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1121	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1122	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1123	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1124	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1125	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1126	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1127	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1204	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1206	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1207	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1209	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1210	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1419	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
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	
C1434	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
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	
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	
C1447	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1448	NCB31EK-103X	C CAPACITOR	0.01uF 25V 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	
C1459	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1460	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1461	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1462	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
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	

⚠ Symbol No.	Part No.	Part Name	Description	Local
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	
C1642	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1646	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	
C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1702	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1705	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1706	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	
C1801	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1802	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C1803	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1804	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1805	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1808	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	
C1809	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	
C1810	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1812	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1813	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1901	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1902	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1903	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1904	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C1905	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C1906	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1907	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1908	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1909	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1910	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1911	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1912	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1913	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1914	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1915	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1916	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1918	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
R1216	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1222	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1223	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1224	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1226	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1229	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1231	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1401	NRSA63F-1181X	MG RESISTOR	1.18kΩ 1/16W F	
R1403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1408	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1409	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1410	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1412	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1413	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1415	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1430	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1431	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1432	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1433	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1434	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1435	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1436	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1439	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1440	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1443	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1445	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1446	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1447	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1448	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1449	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1456	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1462	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1465	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1467	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1469	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1470	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1472	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1473	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1474	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1475	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1476	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1480	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R1481	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1483	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1485	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1486	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1487	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1488	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1489	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1490	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1491	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1494	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1495	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1499	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R1601	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1602	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1603	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1604	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1606	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1607	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1608	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1609	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1611	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1612	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1613	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1614	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1618	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1620	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1626	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1629	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1630	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1631	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1632	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1642	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1801	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1802	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1803	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1810	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R1813	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1814	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1815	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1816	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1817	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R1818	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D	
R1819	NRSA63D-751X	MG RESISTOR	750Ω 1/16W D	
R1820	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1821	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1824	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1825	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1901	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R1902	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1905	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1906	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1907	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1908	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1909	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1910	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1913	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1914	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1915	NRSA63J-471X	MG RESISTOR	470Ω 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	
RA1609	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1610	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1611	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1612	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1613	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1614	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1615	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1616	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1617	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1618	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1619	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1620	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1621	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1622	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1623	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1624	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1625	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1626	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1627	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1628	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1629	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1630	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1631	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1632	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1633	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1634	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1635	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA1801	NRZ0087-103W	NET RESISTOR	10kΩ 1/16W J	
RA1802	NRZ0087-103W	NET RESISTOR	10kΩ 1/16W J	
RA1803	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1804	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1901	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA1902	NRZ0087-101W	NET RESISTOR	100Ω 1/15W J	
RA2208	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2209	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2210	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2211	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
RA2212	NRZ0087-330W	NET RESISTOR	33Ω 1/16W J	
L1901	NQL085J-1R8X	COIL	1.8uH J	
B1204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B1402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B1702	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN1101	QGB1231L2-15W	CONNECTOR	B-B (1-15)	
CN1102	QGB1231L2-15W	CONNECTOR	B-B (1-15)	
CN1103	QGF1016C2-17W	CONNECTOR	FFC/FPC (1-17)	
CN1403	QGF1016C2-04W	CONNECTOR	FFC/FPC (1-4)	
CN1801	QGB1231L2-09W	CONNECTOR	B-B (1-9)	
CN2201	QGF0539C1-40W	CONNECTOR	FFC/FPC (1-40)	
GN1101	QNZ0136-001Z	EARTH PLATE		
GN1102	QNZ0136-001Z	EARTH PLATE		
GN1103	QNZ0136-001Z	EARTH PLATE		
GN1104	QNZ0136-001Z	EARTH PLATE		
K1101	NQR0022-002X	FERRITE BEADS		
K1102	NQR0022-002X	FERRITE BEADS		
K1103	NQR0022-002X	FERRITE BEADS		
K1104	NQR0022-002X	FERRITE BEADS		
K1108	NQR0022-002X	FERRITE BEADS		
K1110	NQR0022-002X	FERRITE BEADS		
K1112	NQR0022-005X	FERRITE BEADS		
K1113	NQR0022-005X	FERRITE BEADS		
K1114	NQR0022-005X	FERRITE BEADS		
K1115	NQR0022-005X	FERRITE BEADS		

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
K1116	NQR0022-005X	FERRITE BEADS		
K1117	NQR0022-005X	FERRITE BEADS		
K1118	NQR0022-005X	FERRITE BEADS		
K1119	NQR0022-005X	FERRITE BEADS		
K1120	NQR0022-005X	FERRITE BEADS		
K1121	NQR0022-005X	FERRITE BEADS		
K1122	NQR0022-005X	FERRITE BEADS		
K1123	NQR0022-005X	FERRITE BEADS		
K1126	NQR0022-002X	FERRITE BEADS		
K1127	NQR0022-002X	FERRITE BEADS		
K1128	NQR0022-002X	FERRITE BEADS		
K1129	NQR0022-002X	FERRITE BEADS		
K1130	NQR0022-002X	FERRITE BEADS		
K1131	NQR0022-002X	FERRITE BEADS		
K1135	NQR0022-002X	FERRITE BEADS		
K1137	NQR0022-002X	FERRITE BEADS		
K1201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1401	NQR0022-002X	FERRITE BEADS		
K1402	NQR0022-002X	FERRITE BEADS		
K1403	NQR0022-002X	FERRITE BEADS		
K1404	NQR0022-002X	FERRITE BEADS		
K1406	NQR0022-002X	FERRITE BEADS		
K1408	NQR0022-002X	FERRITE BEADS		
K1801	NQR0022-002X	FERRITE BEADS		
K1802	NQR0022-002X	FERRITE BEADS		
K1901	NQR0022-002X	FERRITE BEADS		
K1902	NQR0022-002X	FERRITE BEADS		
K2201	NQR0022-002X	FERRITE BEADS		
K2202	NQR0022-002X	FERRITE BEADS		
K2203	NQR0022-002X	FERRITE BEADS		
K2204	NQR0022-002X	FERRITE BEADS		
K2205	NQR0022-002X	FERRITE BEADS		
K2206	NQR0022-002X	FERRITE BEADS		
K2207	NQR0022-002X	FERRITE BEADS		
K2208	NQR0022-002X	FERRITE BEADS		
K2209	NQR0022-002X	FERRITE BEADS		
K2210	NQR0022-002X	FERRITE BEADS		
K2211	NQR0022-002X	FERRITE BEADS		
K2212	NQR0022-002X	FERRITE BEADS		
K2213	NQR0022-002X	FERRITE BEADS		
K2214	NQR0022-002X	FERRITE BEADS		
K2215	NQR0022-002X	FERRITE BEADS		
K2216	NQR0022-002X	FERRITE BEADS		
K2217	NQR0022-002X	FERRITE BEADS		
K2218	NQR0022-002X	FERRITE BEADS		
K2219	NQR0022-002X	FERRITE BEADS		
K2220	NQR0022-002X	FERRITE BEADS		
K2221	NQR0022-002X	FERRITE BEADS		
LC1101	NQR0512-008X	EMI FILTER		
LC1102	NQR0512-008X	EMI FILTER		
LC1103	NQR0512-008X	EMI FILTER		
LF1801	NQR0568-005X	CHOKE COIL		
X1401	NAX0768-001X	CRYSTAL	13.5MHz	
X1801	NAX0773-001X	CRYSTAL	24.576MHz	
X1901	NAX0733-001X	CRYSTAL	14.31818MHz	

Loading motor board

Block No. [5][5]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10158-01A2	LOADING MOTOR BOARD ASSY		

RGB_YC board

Block No. [6][8]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10291-01A	RGB_YC BOARD ASSY		
IC4401	BH7236AF-X	IC		
IC4402	MM1503XN-X	IC		
IC4403	74HC4538D-X	IC		
IC4404	BA7666FS-X	IC		
D4401	RB717F-X	SB DIODE		
C4401	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C4403	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4404	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4405	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4406	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4407	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4408	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C4409	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4410	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C4411	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4412	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4413	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4417	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4418	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C4419	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C4420	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C4421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4422	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4423	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4424	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
R4401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4402	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R4403	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4404	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4405	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4411	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R4412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4413	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R4414	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J	
R4415	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R4416	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R4417	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R4418	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4419	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4420	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
BK1	LP40425-001A	BRACKET(PWB)		
CN4402	QGG2502K1-12	CONNECTOR	(1-12)	

Junction board

Block No. [9][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10286-04B2	JUNCTION BOARD ASSY		
IC5501	RT9167A-33PS-X	IC		
IC5504	MM1662GH-X	IC		
IC5506	MM1665AH-X	IC		
IC8001	RC4558D-X	IC		
IC8001 or	BA15218F-XE	IC		
IC8002	AK5357VT-X	IC		
IC8002 or	AK5357ET-X	IC		
IC8201	RC4558D-X	IC		
IC8201 or	BA15218F-XE	IC		
IC8202	AK4385ET-X	IC		
Q5501	2SD601A/QRS/-X	TRANSISTOR		
Q5501 or	2SC2412K/QRS/-X	TRANSISTOR		
Q5501 or	2SC3928A/QRS/-X	TRANSISTOR		

MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
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	UN2211-X	TRANSISTOR		
Q5509 or	DTC114EKA-X	DIGI TRANSISTOR		
Q5509 or	RT1N141C-X	DIGI TRANSISTOR		
Q7151	UN2211-X	TRANSISTOR		
Q7151 or	DTC114EKA-X	DIGI TRANSISTOR		
Q7151 or	RT1N141C-X	DIGI TRANSISTOR		
Q8001	2SC2412K/QRS/-X	TRANSISTOR		
Q8001 or	2SC3928A/QRS/-X	TRANSISTOR		
Q8001 or	2SD601A/QRS/-X	TRANSISTOR		
Q8002	2SC2412K/QRS/-X	TRANSISTOR		
Q8002 or	2SC3928A/QRS/-X	TRANSISTOR		
Q8002 or	2SD601A/QRS/-X	TRANSISTOR		
Q8003	UN221E-X	TRANSTSTOR		
Q8003 or	DTC144WKA-X	DIGI TRANSISTOR		
Q8003 or	RT1N44HC-X	DIGI TRANSISTOR		
Q8004	UN221E-X	TRANSTSTOR		
Q8004 or	DTC144WKA-X	DIGI TRANSISTOR		
Q8004 or	RT1N44HC-X	DIGI TRANSISTOR		
Q8005	UN211E-X	DIGI TRANSISTOR		
Q8005 or	DTA144WKA-X	TRANSISTOR		
Q8005 or	RT1P44HC-X	DIGI TRANSISTOR		
D5501	MTZJ7.5C-T2	Z DIODE		
D5502	1SS133-T2	SI DIODE		
D5502 or	1SS270A-T2	SI DIODE		
D5503	MTZJ27C-T2	Z DIODE		
D5504	MTZJ5.6C-T2	Z DIODE		
D5505	10EDB20-T2	SI DIODE		
D5506	10EDB20-T2	SI DIODE		
D5507	AW04-T2	SB DIODE		
D8201	1SS133-T2	SI DIODE		
D8201 or	1SS270A-T2	SI DIODE		
C5501	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C5502	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C5503	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5510	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C5511	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C5512	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5516	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5517	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C5518	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5519	NCB31HK-471X	C CAPACITOR	470pF 50V K	
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	QEKC1EM-106Z	E CAPACITOR	10uF 25V M	
C8010	QEKC1EM-106Z	E CAPACITOR	10uF 25V M	
C8011	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8012	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8013	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8014	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8015	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8016	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8051	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8052	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C8053	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8054	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8055	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C8056	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C8057	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
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	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
R5501	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	
R5502	QRE121J-391Y	C RESISTOR	390Ω 1/2W J	
R5503	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R5504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5505	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J	
R5506	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R5507	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5508	QRE141J-821Y	C RESISTOR	820Ω 1/4W J	
R5509	QRE141J-821Y	C RESISTOR	820Ω 1/4W J	
R7146	NRSA63J-0R0X	MG RESISTOR	0Ω 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	QRE141J-103Y	C RESISTOR	10kΩ 1/4W 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	
R8014	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8015	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8016	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8017	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8018	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R8019	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R8051	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R8052	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8201	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8202	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R8203	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R8204	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8205	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8206	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R8207	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R8208	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8209	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8210	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
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	
R8236	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
L8001	QQL29BJ-220Z	P COIL	22uH J	
L8002	QQL29BJ-220Z	P COIL	22uH J	
CN5501	QGB1231M1-19	CONNECTOR	B-B (1-19)	

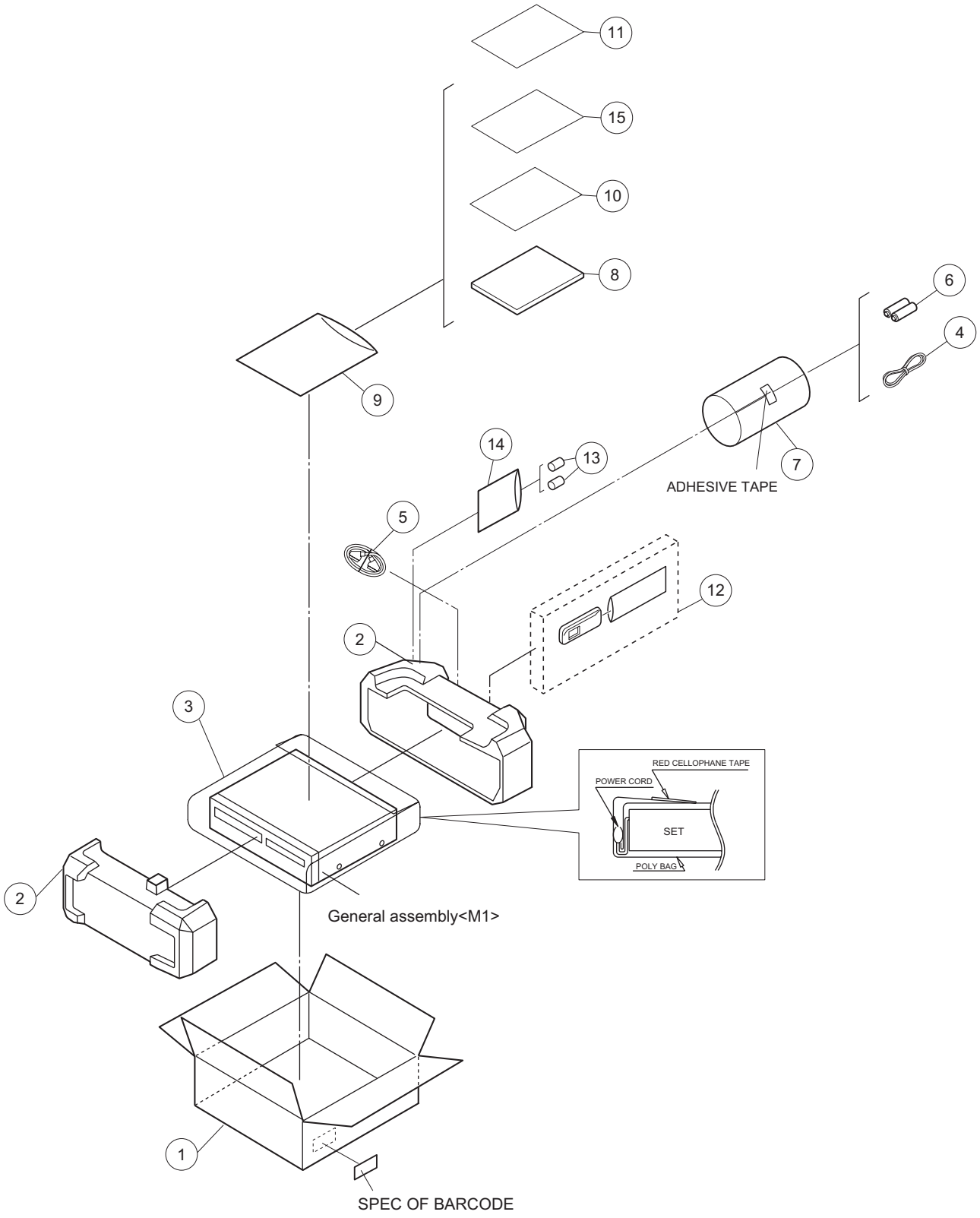
MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN5503	QGA2501C1-04	CONNECTOR	W-B (1-4)	
CN7102	QGB1231M1-19	CONNECTOR	B-B (1-19)	
CN7105	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN7107	QGF1207C1-11	CONNECTOR	FFC/FPC (1-11)	
CN7108	QGB1231M1-15	CONNECTOR	B-B (1-15)	
CN7109	QGB1231M1-15	CONNECTOR	B-B (1-15)	
CN7110	QGF1016C3-17	CONNECTOR	FFC/FPC (1-17)	
CN7121	QGB1231M1-09	CONNECTOR	B-B (1-9)	
CN7123	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN8001	QGB1231M1-11	CONNECTOR	B-B (1-11)	
J4112	QNZ0675-001	D CONNECTOR	FRONT DV IN	
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	
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	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K7102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
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	
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4	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	
W12	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W13	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W14	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

Packing materials and accessories parts list

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

Block No. M3MM



MODEL	MARK
DR-MV5BEK	A
DR-MV5SEK	B

Packing and accessories

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

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LP31540-004A	PACKING CASE		A
1	LP31540-002A	PACKING CASE		B
2	LP31542-001A	CUSHION ASSY		
3	PQM30021-105	POLY BAG		
4	QAM0503-002	RF CABLE		
5	QAM0502-002	PERI CABLE		
6	----------	BATTERY	R6 TYPE(x2)	
7	QPC02202230P	POLY BAG	22cm x 22cm	
⚠ 8	LPT1037-001B	INST.BOOK	(ENGLISH)	
9	QPC02503530P	POLY BAG	25cm x 35cm	
10	LYT0194-001B	Q.CARD		
11	----------	WARRANTY CARD	BT-54027-1	
12	RM-SDR045E	REMOCON		
13	QQR0675-001	CORE FILTER	(x2)	
14	QPA01001607	POLY BAG	10cm x 16cm	
15	LPT1096-001A	SHEET(CORE)		