

TOSHIBA

FILE NO. 813-9906
SUPPLEMENT

SERVICE MANUAL



DVD VIDEO PLAYER **SD-9100**

— SUMMARY —

This service manual covers only the different points from the service manual, file no. 810-9807, for model SD-9000 since SD-9100 are basically the same designing as SD-9000.

Please refer to the file no. 810-9807 for other information.

Feb., 2000 (S)

LASER BEAM CAUTION LABEL



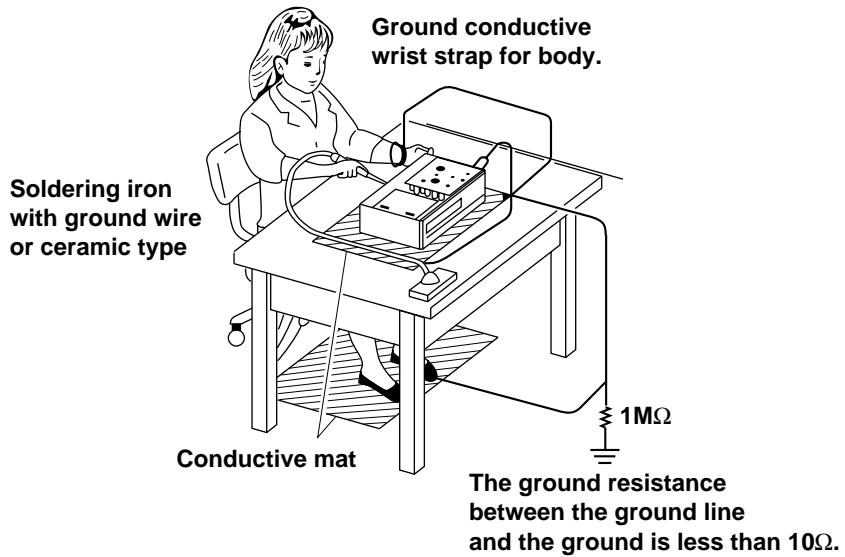
When the power supply is being turned on, you may not remove this laser cautions label. If it removes, radiation of a laser may be received.

PREPARATION OF SERVICING

Pickup Head consists of a laser diode that is very susceptible to external static electricity.

Although it operates properly after replacement, if it was subject to electrostatic discharge during replacement, its life might be shortened. When replacing, use a conductive mat, soldering iron with ground wire, etc. to protect the laser diode from damage by static electricity.

And also, the LSI and IC are same as above.



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General descriptions such as location of mechanical parts and troubleshooting are the same as SD-9000.

Please refer to the service manual for SD-9000 (File No. 810-9807).

SECTION 2

PART REPLACEMENT AND ADJUSTMENT PROCEDURES

Part replacement and adjustment procedures are the same as SD-9000.

Please refer to the service manual for SD-9000 (File No. 810-9807).

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SECTION 3

SERVICING DIAGRAMS

1. CIRCUIT SYMBOLS AND SUPPLEMENTARY EXPLANATION

1-1. Precautions for Part Replacement

- In the schematic diagram, parts marked \triangle (ex. \triangle F801) are critical part to meet the safety regulations, so always use the parts bearing specified part codes (SN) when replacing them.
- Using the parts other than those specified shall violate the regulations, and may cause troubles such as operation failures, fire etc.

1-2. Solid Resistor Indication

Unit	None Ω K $k\Omega$ M $M\Omega$
Tolerance	None $\pm 5\%$ B $\pm 0.1\%$ C $\pm 0.25\%$ D $\pm 0.5\%$ F $\pm 1\%$ G $\pm 2\%$ K $\pm 10\%$ M $\pm 20\%$
Rated Wattage	(1) Chip Parts None 1/16W (2) Other Parts None 1/6W Other than above, described in the Circuit Diagram.
Type	None Carbon film S Solid R Oxide metal film W Metal film W Cement FR Fusible

Eg. 1

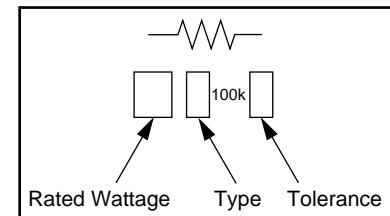


Fig. 3-1-1

1-3. Capacitance Indication

Symbol	$\begin{array}{c} \parallel \\ \diagup \quad \diagdown \\ \parallel \end{array}$ Electrolytic, Special electrolytic $\begin{array}{c} \parallel \\ \diagup \quad \diagdown \\ \parallel \end{array}$ Non polarity electrolytic $\begin{array}{c} \parallel \\ \diagup \quad \diagdown \\ \parallel \end{array}$ Ceramic, plastic $\begin{array}{c} \parallel \\ \diagup \quad \diagdown \\ \parallel \end{array}$ Film $\begin{array}{c} \parallel \\ \diagup \quad \diagdown \\ \parallel \end{array}$ Trimmer
Unit	None F μ μF p pF
Rated voltage	None 50V For other than 50V and electrolytic capacitors, described in the Circuit Diagram.
Tolerance	(1) Ceramic, plastic, and film capacitors of which capacitance are more than 10 pF. None $\pm 5\%$ or more B $\pm 0.1\%$ C $\pm 0.25\%$ D $\pm 0.5\%$ F $\pm 1\%$ G $\pm 2\%$ (2) Ceramic, plastic, and film capacitors of which capacitance are 10 pF or less. None more than $\pm 5\%$ pF B ± 0.1 pF C ± 0.25 pF (3) Electrolytic, Trimmer Tolerance is not described.
Temperature characteristic (Ceramic capacitor)	None SL For others, temperature characteristics are described. (For capacitors of 0.01 μF and no indications are described as F.)
Static electricity capacity (Ceramic capacitor)	Sometimes described with abbreviated letters as shown in Eg. 3.

Eg. 2

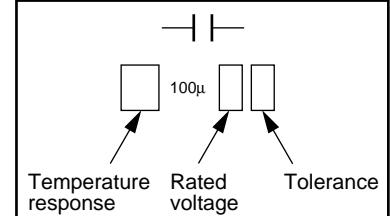


Fig. 3-1-2

Eg. 3

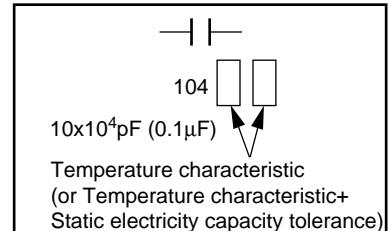


Fig. 3-1-3

1-4. Inductor Indication

Unit	None H μ μH m mH
Tolerance	None ±5% B ±0.1% C ±0.25% D ±0.5% F ±1% G ±2% K ±10% M ±20%

Eg. 4

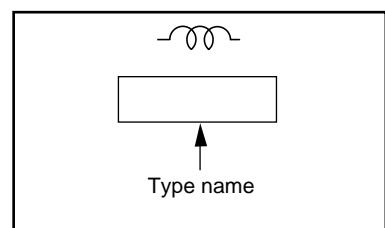


Fig. 3-1-4

1-5. Waveform and Voltage Measurement

- The waveforms for CD/DVD and RF shown in the circuit diagrams are obtained when a test disc is played back.
- All voltage values except the waveforms are expressed in DC and measured by a digital voltmeter.

Eg. 5

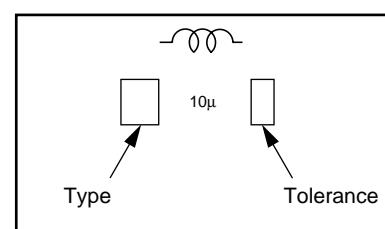


Fig. 3-1-5

1-6. Others

- The parts marked with "NC" or "KETU" in the circuit diagrams are not used for this model.

1-7. When Replaced ROM ICs or Upgraded Firmware

- When replaced the following ROM ICs, it is necessary to write the data into the new ICs.
 - IC615 (firmware)
 - IC613 (Setup default data and other information)
- When the firmware is upgraded, rewriting the new firmware into IC615 may be requested for servicing.
- Connect a computer to the main PC board of the DVD video player with using DATA UPDATE KIT (P/No. 79080074). (Fig. 3-2-6)
- Writing operation
Refer to the instruction attached to the data floppy disc.

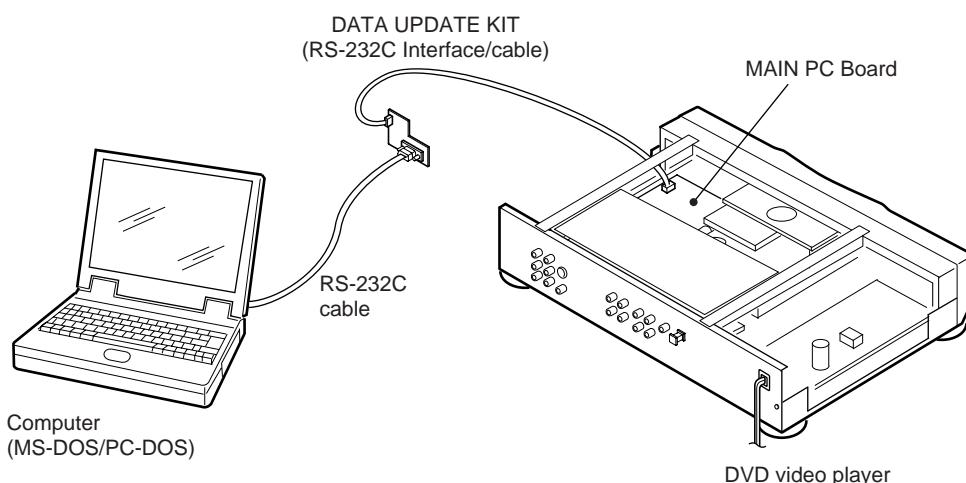


Fig. 3-1-6

Note:

- The firmware and setup data floppy discs are not available as service parts.
For more information, consult TOSHIBA service office in your area.

2. PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

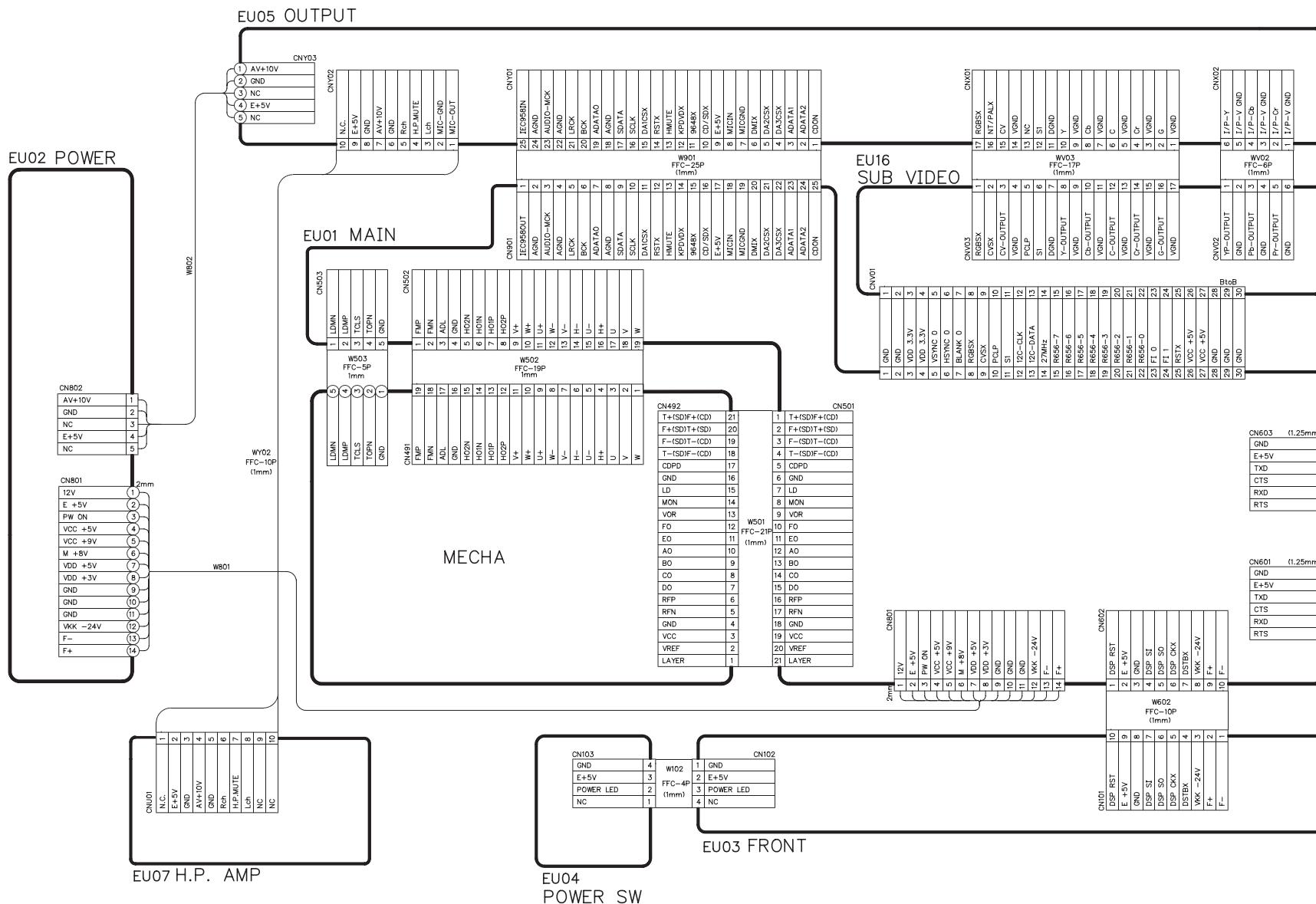


Fig. 3-2-1

3. BLOCK DIAGRAMS

3-1. Overall Block Diagram

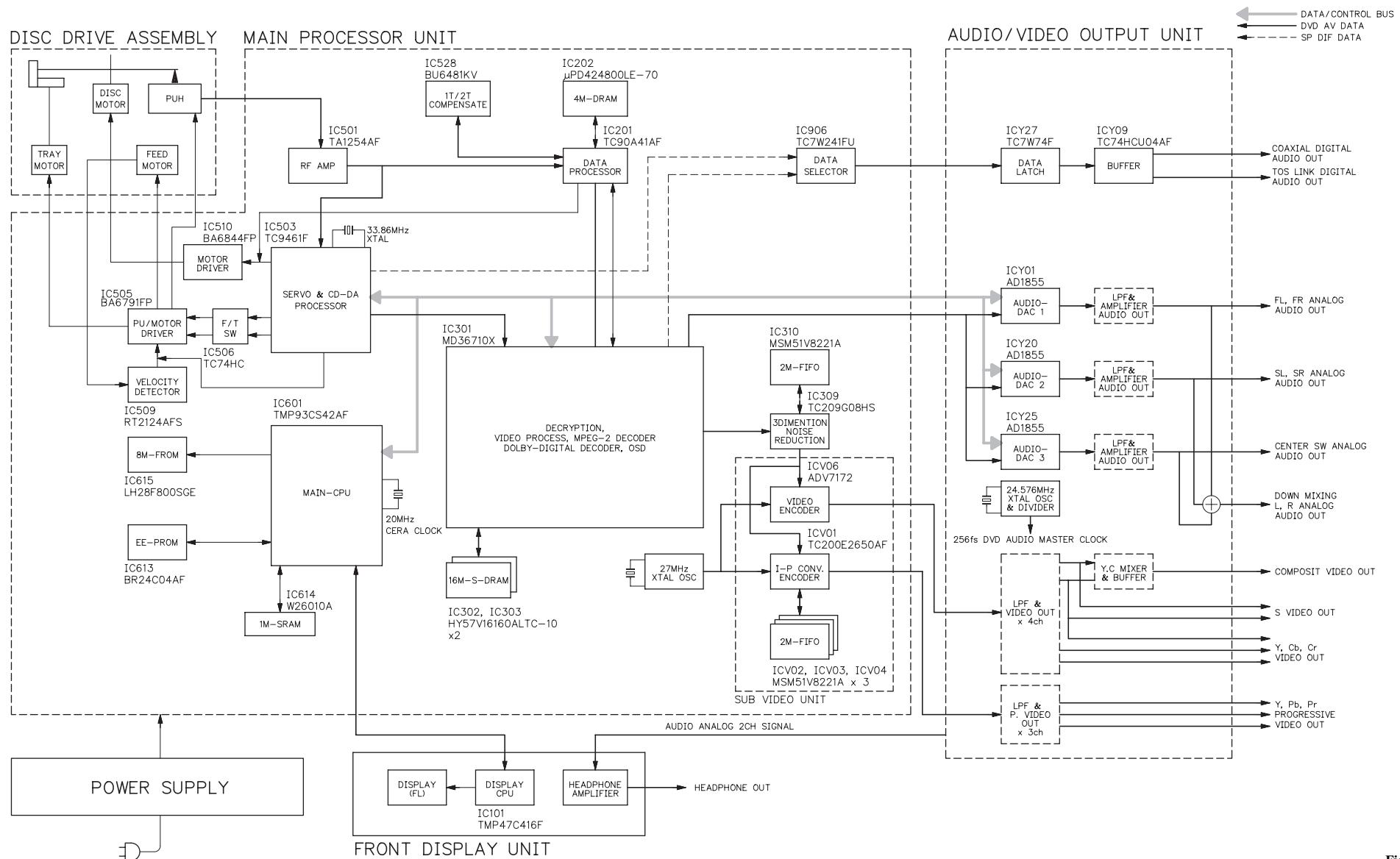
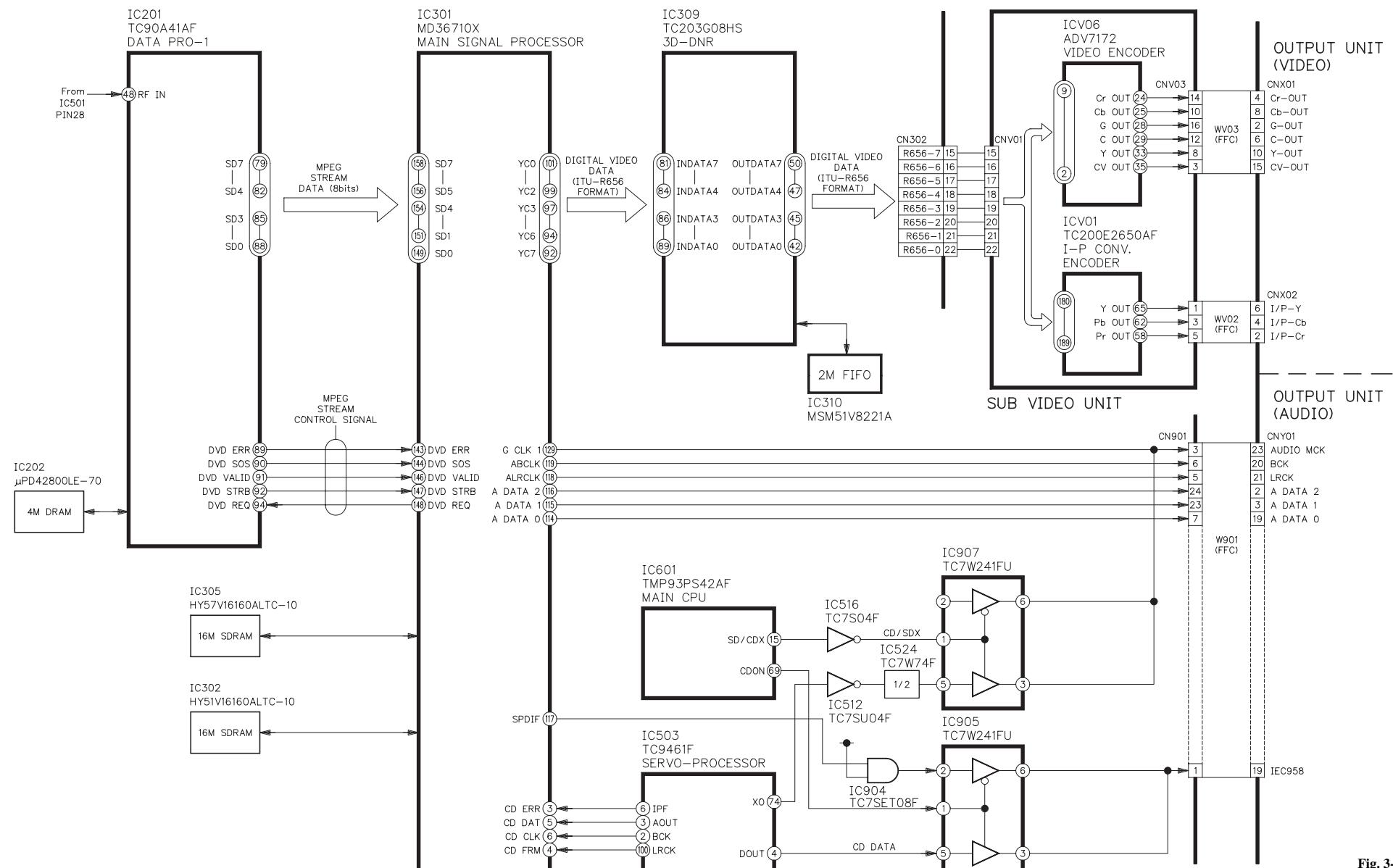


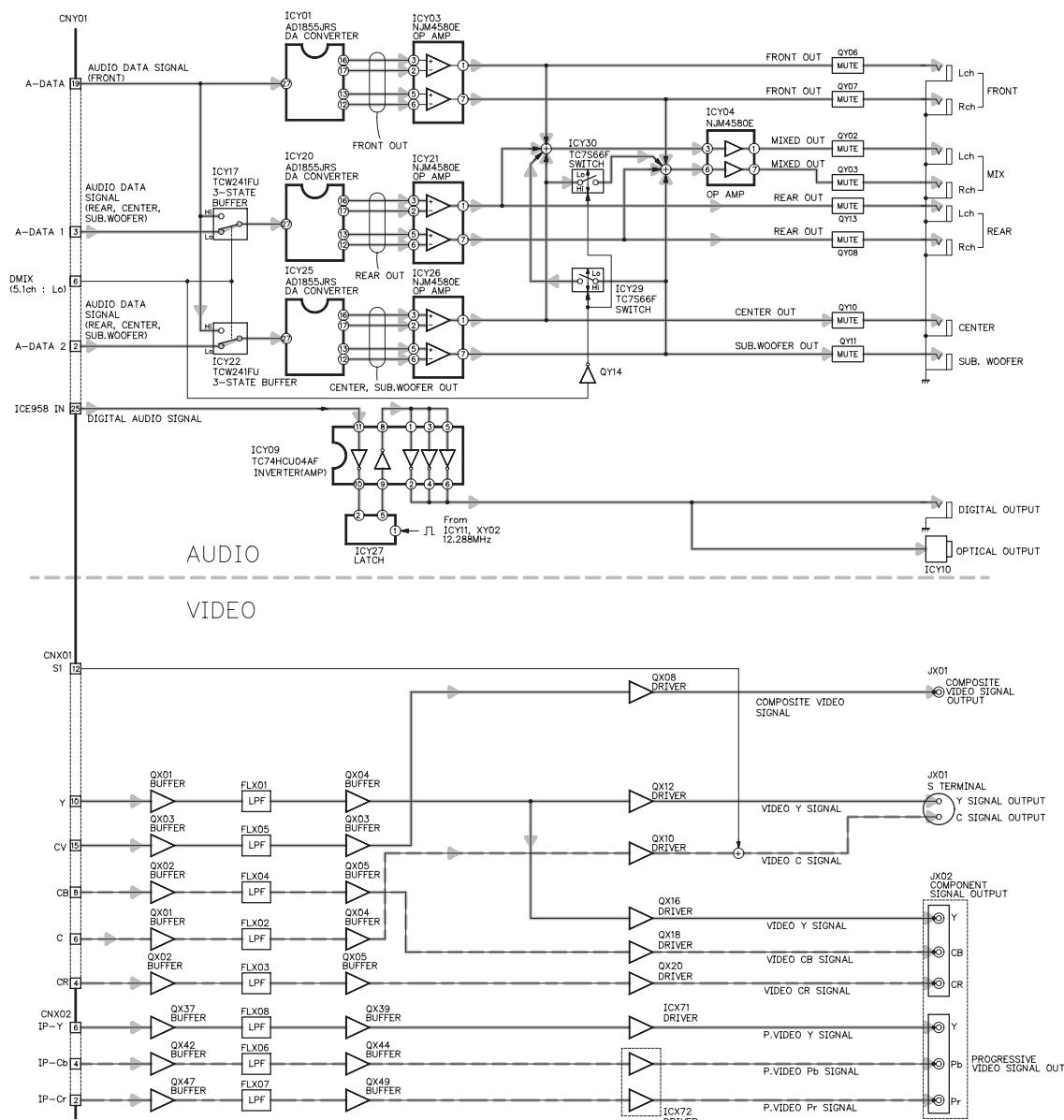
Fig.3-3-1

3-2. Main Block Diagram

3-2-1. Logical System Block Diagram

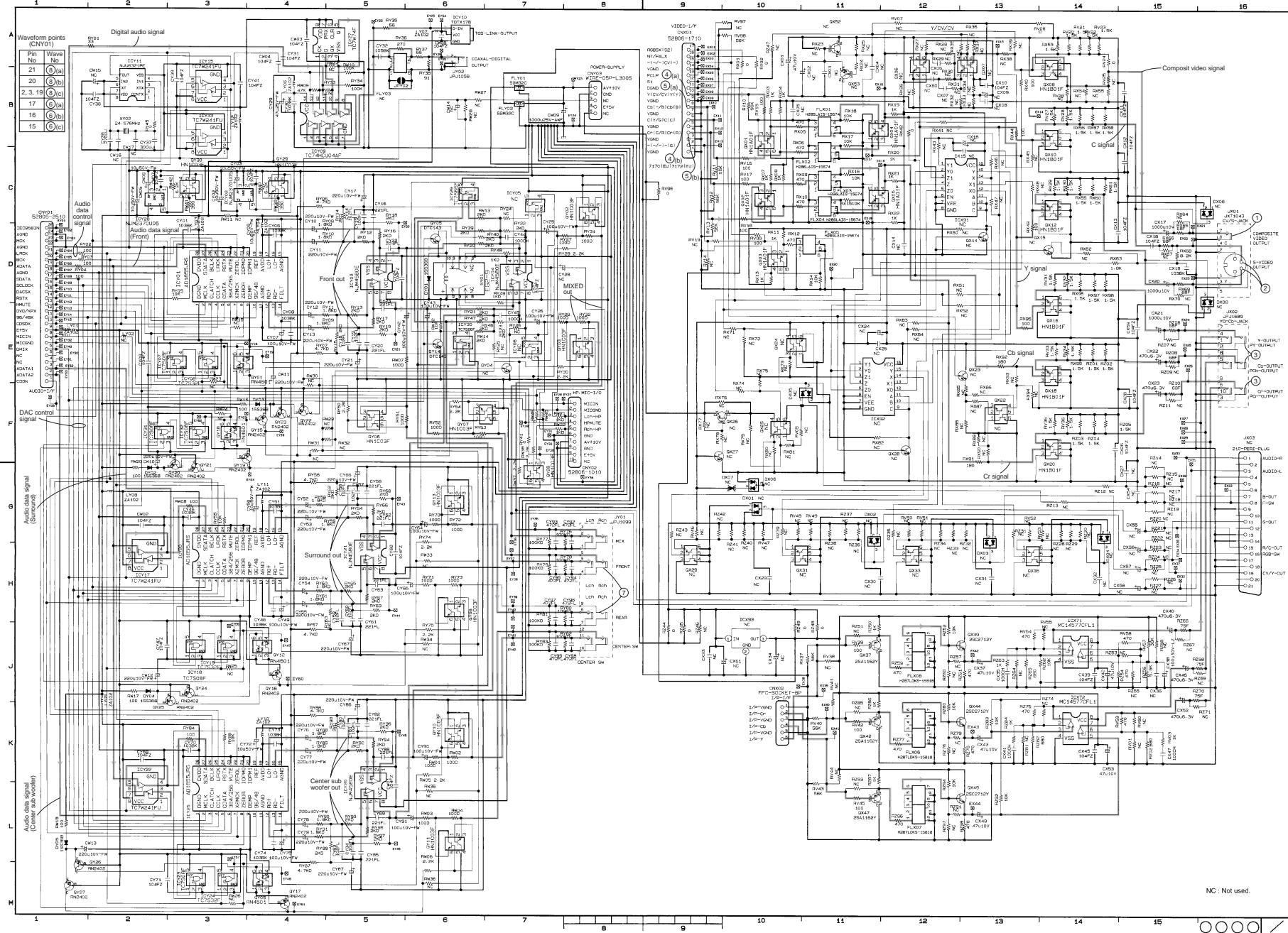


3-3. Output Block Diagram



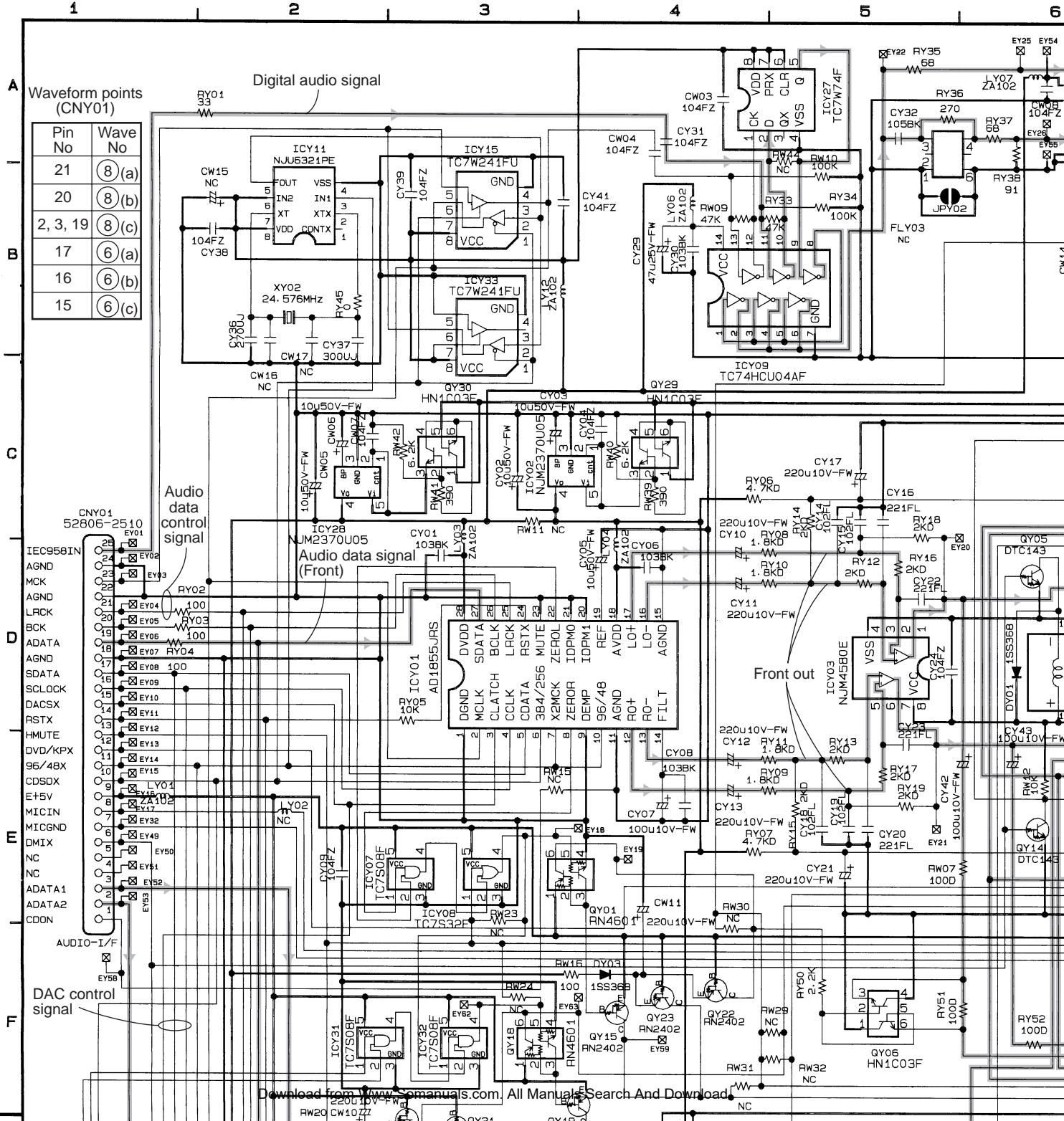
4. CIRCUIT DIAGRAMS

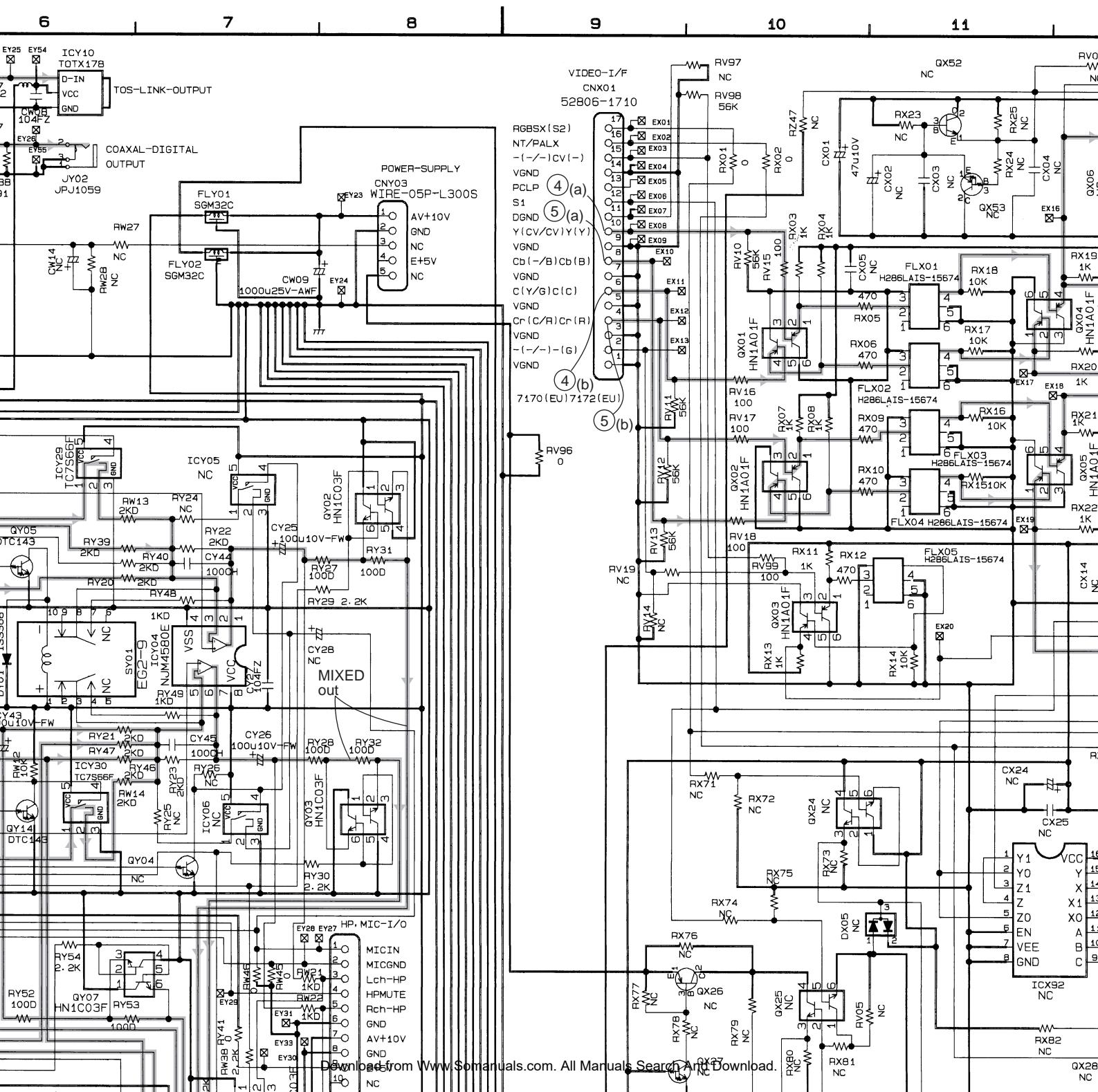
4-1. Output Circuit Diagram

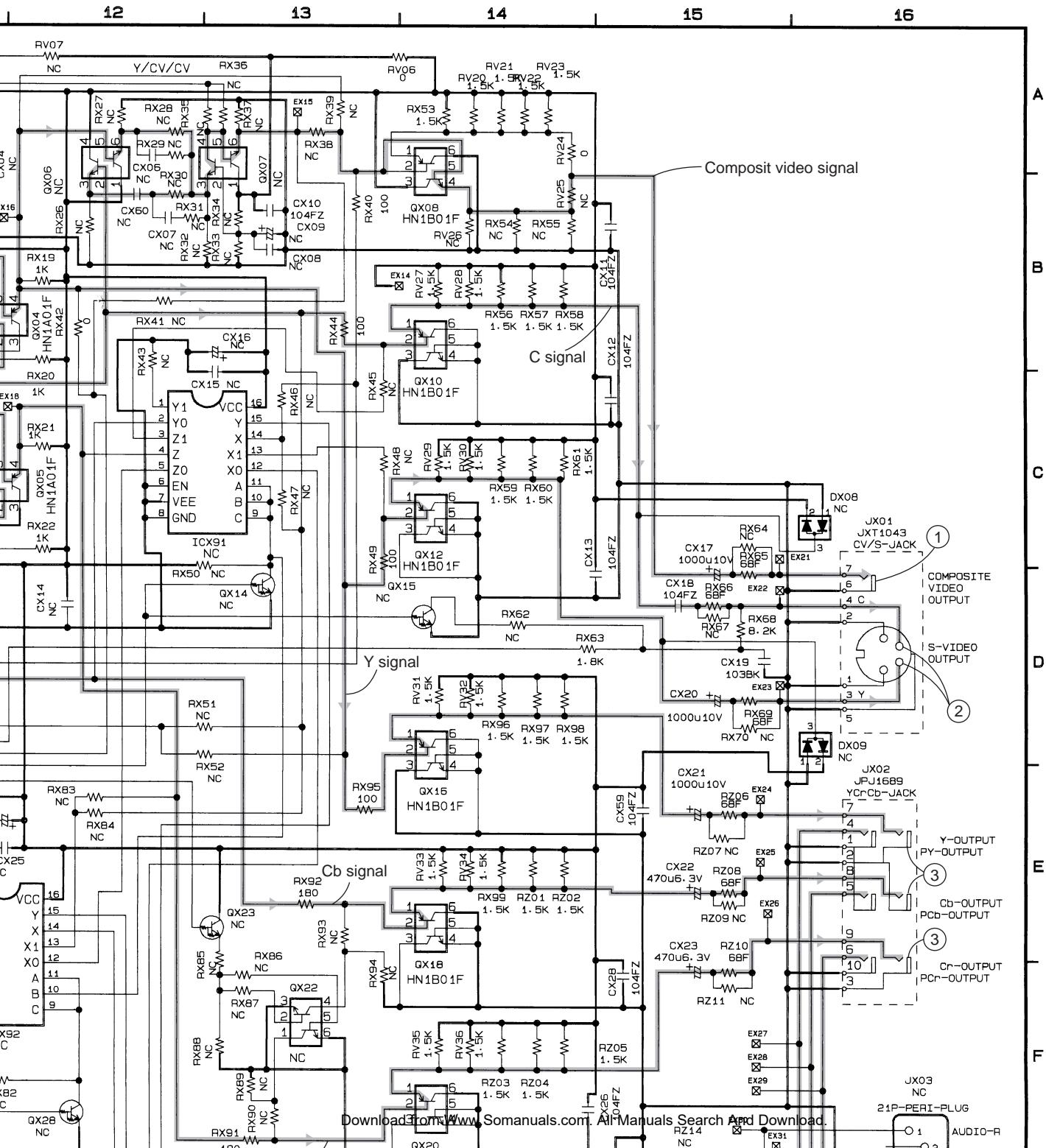


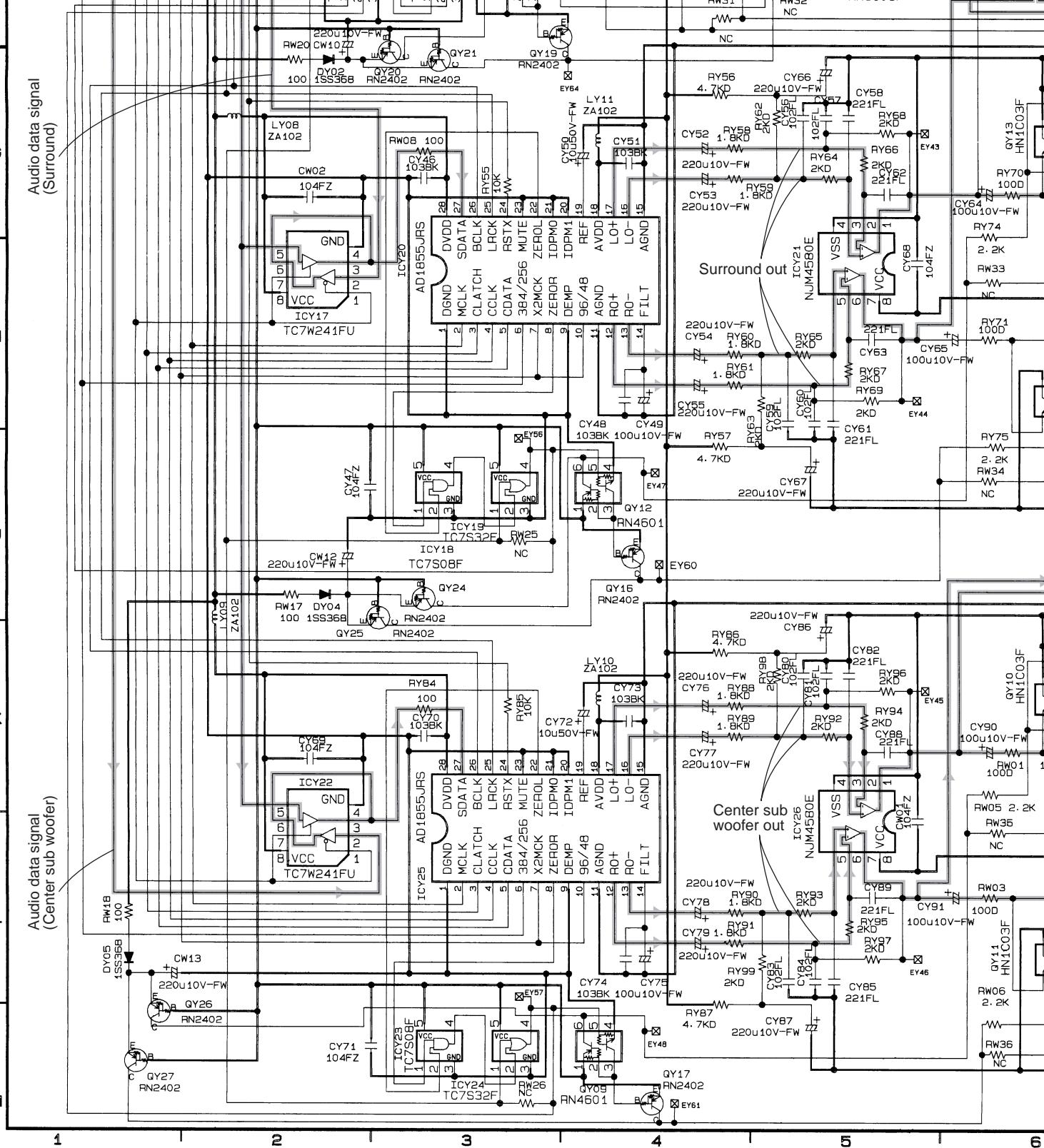
4. CIRCUIT DIAGRAMS

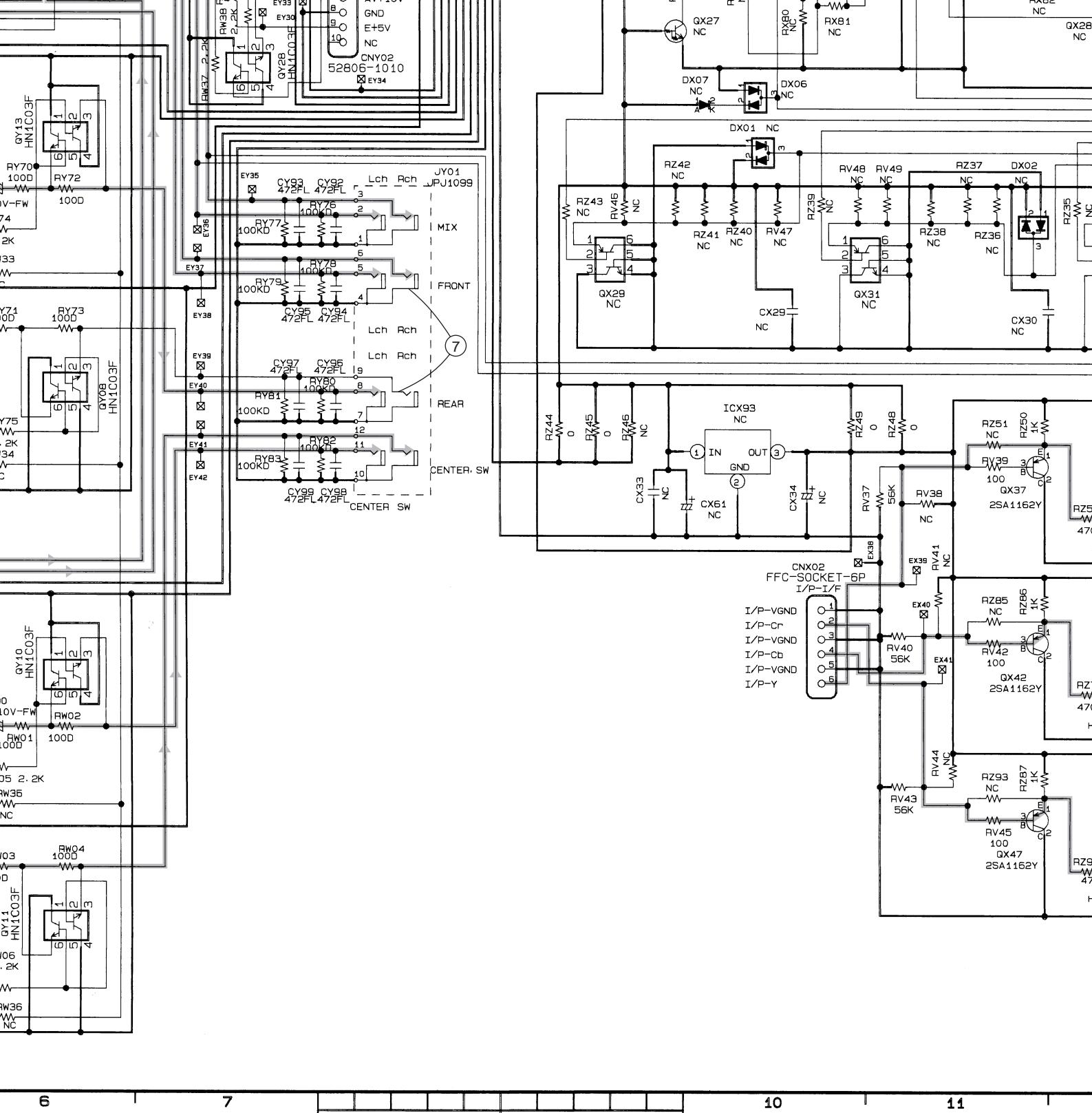
4-1. Output Circuit Diagram

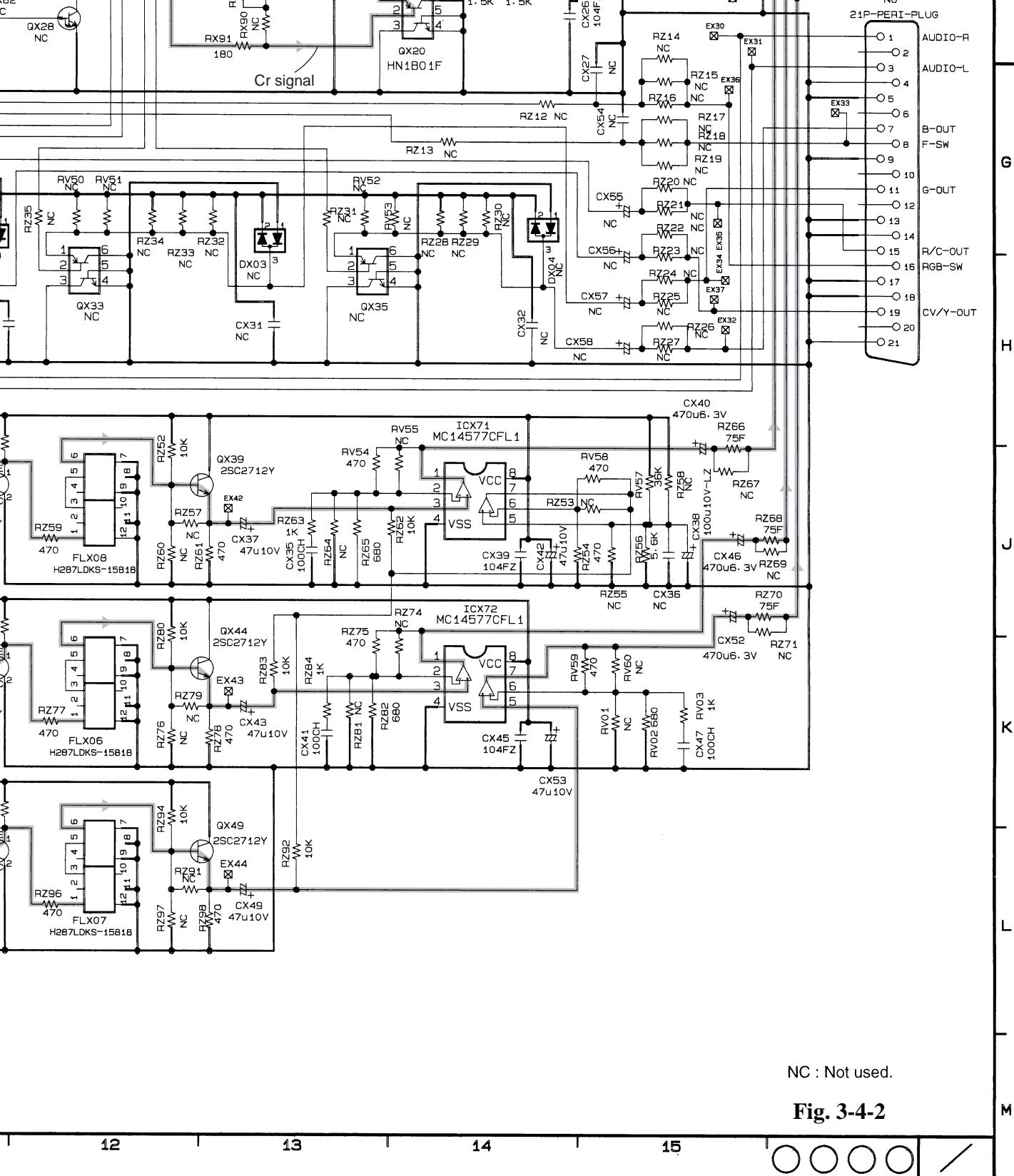












Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion	Part No.	Loca-tion
CNX01 A9	CX06 A12	CX33 J9	CY03 C3	CY30 B4	CY61 H5	CY88 K5	EX02 A9	EX29 F15	EY12 D1	EY39 H7	FLX02 C11	ICY17 H2	LY06 B4	QX27 F10									
CNX02 J10	CX07 B12	CX34 J10	CY04 C4	CY31 A4	CY62 G5	CY89 L5	EX03 A9	EX30 F15	EY13 E1	EY40 H7	FLX03 C11	ICY18 J3	LY07 A6	QX28 F12									
CNY01 C1	CX08 B13	CX35 J13	CY05 D4	CY32 A5	CY63 H5	CY90 K6	EX04 A9	EX31 F15	EY14 E1	EY41 J7	FLX04 C11	ICY19 J3	LY08 G2	QX29 H9									
CNY02 G8	CX09 B13	CX36 J15	CY06 D4	CY36 B2	CY64 G6	CY91 L5	EX05 B9	EX32 H15	EY15 E1	EY42 J7	FLX05 D11	ICY20 H3	LY09 J2	QX31 H11									
CNY03 B8	CX10 B13	CX37 J13	CY07 E4	CY37 B2	CY65 H15	CY92 G8	EX06 B9	EX33 G16	EY16 E1	EY43 G5	FLX06 K12	ICY21 H5	LY10 K4	QX33 H12									
CW01 L5	CX11 B15	CX38 J15	CY08 E4	CY38 B2	CY66 G5	CY93 G7	EX07 B9	EX34 H15	EY17 E1	EY44 H5	FLX07 L12	ICY22 K2	LY11 G4	QX35 H13									
CW02 G2	CX12 B15	CX39 J14	CY09 E2	CY39 B3	CY67 J5	CY94 H8	EX08 B9	EX35 G15	EY18 E4	EY45 K5	FLX08 J12	ICY23 M3	LY12 B3	QX37 J11									
CW03 A4	CX13 C14	CX40 H15	CY10 D4	CY41 B4	CY68 H15	CY95 H7	EX09 B9	EX36 G15	EY19 E4	EY46 L5	FLY01 B7	ICY24 M3	QX01 B10	QX39 J13									
CW04 A4	CX14 D12	CX41 K13	CY11 D4	CY42 E5	CY69 K2	CY96 H8	EX10 B9	EX37 H15	EY20 D6	EY47 J4	FLY02 B7	ICY25 L3	QX02 C10	QX42 K11									
CW05 C2	CX15 C13	CX42 J14	CY12 E4	CY43 D6	CY70 K3	CY97 H7	EX11 B9	EX38 J11	EY21 E5	EY48 M4	FLY03 B5	ICY26 L5	QX03 D10	QX44 K13									
CW06 C2	CX16 B13	CX43 K13	CY13 E4	CY44 D7	CY71 M2	CY98 J8	EX12 B9	EX39 J11	EY22 A5	EY49 E1	ICX71 H14	ICY27 A5	QX04 B12	QX47 L11									
CW07 C2	CX17 C15	CX45 K14	CY14 C5	CY45 E7	CY72 K4	CY99 J7	EX13 B9	EX40 K11	EY23 B8	EY50 E1	ICX72 J14	ICY28 C2	QX05 C12	QX49 L13									
CW08 A6	CX18 D15	CX46 J15	CY15 C5	CY46 G3	CY73 K4	DX01 G10	EX14 B13	EX41 K11	EY24 B8	EY51 E1	ICX91 C13	ICY29 C6	QX06 B12	QX52 A11									
CW09 B7	CX19 D15	CX47 K15	CY16 C5	CY47 J2	CY74 L4	DX02 G11	EX15 A13	EX42 J13	EY25 A6	EY52 E1	ICX92 F11	ICY30 E6	QX07 B13	QX53 B11									
CW10 F2	CX20 D15	CX49 L13	CY17 C5	CY48 H4	CY75 L4	DX03 H13	EX16 B12	EX43 K13	EY26 A6	EY53 E1	ICX93 H10	ICY31 F2	QX08 B14	QY01 E4									
CW11 E4	CX21 E15	CX52 K15	CY18 E5	CY49 H4	CY76 K4	DX04 H14	EX17 C11	EX44 L13	EY27 F8	EY54 A6	ICY01 D3	ICY32 F3	QX10 C14	QY02 C8									
CW12 J2	CX22 E15	CX53 K14	CY19 E5	CY50 G4	CY77 K4	DX05 F10	EX18 C12	EY01 C1	EY28 F7	EY55 A6	ICY02 C3	ICY33 B3	QX12 C14	QY03 E7									
CW13 L2	CX23 E15	CX54 G15	CY20 E5	CY51 G4	CY78 L4	DX06 G10	EX19 C11	EY02 D1	EY29 F7	EY56 J3	JPY02 B5	QX14 D13	QY04 E7										
CW14 B6	CX24 E11	CX55 G15	CY21 E5	CY52 G4	CY79 L4	DX07 G10	EX20 D11	EY03 D1	EY30 F7	EY57 L3	ICY04 D7	JX01 C16	QX15 D13	QY05 C6									
CW15 B2	CX25 E11	CX56 H15	CY22 D5	CY53 G4	CY80 K5	DX08 C16	EX21 C16	EY04 D1	EY31 F7	EY58 F1	ICY05 C7	JX02 E16	QX16 E14	QY06 F5									
CW16 C2	CX26 F15	CX57 H15	CY23 D5	CY54 H4	CY81 K5	DX09 D16	EX22 D15	EY05 D1	EY32 E1	EY59 F4	ICY06 E7	JX03 F16	QX18 F14	QY07 F6									
CW17 C2	CX27 G15	CX58 H15	CY24 D5	CY55 H4	CY82 K5	DY01 D6	EX23 D15	EY06 D1	EY33 F7	EY60 J4	ICY07 E2	JY01 G8	QX20 F14	QY08 H6									
CX01 A10	CX28 F15	CX59 E15	CY25 D7	CY56 G5	CY83 L5	DY02 G2	EX24 E15	EY07 D1	EY34 G8	EY61 M4	ICY08 E3	JY02 B6	QX22 F13	QY09 M4									
CX02 B11	CX29 H10	CX60 B12	CY26 E7	CY57 G5	CY84 L5	DY03 F4	EX25 E15	EY08 D1	EY35 G7	EY62 F3	ICY09 C4	LY01 E1	QX23 E13	QY10 K6									
CX03 B11	CX30 H11	CX61 J10	CY27 D7	CY58 G5	CY85 L5	DY04 J2	EX26 E15	EY09 D1	EY36 G7	EY63 F3	ICY10 A6	LY02 E2	QX24 E10	QY11 L6									
CX04 A12	CX31 H13	CY01 C3	CY28 D7	CY59 H5	CY86 K5	DY05 L1	EX27 F15	EY10 D1	EY37 H7	EY64 G4	ICY11 A2	LY03 C3	QX25 F10	QY12 J4									
CX05 B11	CX32 H14	CY02 C3	CY29 B4	CY60 H5	CY87 M5	EX01 A9	EX28 F15	EY11 D1	EY38 H7	FLX01 B11	ICY15 A3	LY04 D4	QX26 F10	QY13 G6									

Part No.	Loca-tion																						
QY14 E6	RV14 D9	RV41 J11	RW05 K6	RW33 H6	RX15 C11	RX42 B12	RX69 D15	RX96 D14	RY24 C7	RY54 F6	RY82 J8	RZ11 F15	RZ39 G10	RZ67 J15									
QY15 F4	RV15 B10	RV42 K11	RW06 L6	RW34 J6	RX16 C11	RX43 B12	RX70 D15	RX97 D14	RY25 E7	RY55 G3	RY83 J7	RZ12 G14	RZ40 G10	RZ68 J16									
QY16 J4	RV16 C10	RV43 L11	RW07 E5	RW35 L6	RX17 B11	RX44 B13	RX71 E10	RX98 D14	RY26 E7	RY56 G4	RY84 K3	RZ13 G14	RZ41 G10	RZ69 J16									
QY17 M4	RV17 C10	RV44 K11	RW08 G3	RW36 M6	RX18 B11	RX45 C13	RX72 E10	RX99 E14	RY27 D8	RY57 J4	RY85 K3	RZ14 F15	RZ42 G9	RZ70 J15									
QY18 F3	RV18 D10	RV45 L11	RW09 B4	RW37 G7	RX19 B12	RX46 C13	RX73 E10	RY01 A2	RY28 E7	RY58 G4	RY86 K4	RZ15 G15	RZ43 G9	RZ71 K16									
QY19 G3	RV19 D9	RV46 G9	RW10 A5	RW38 F7	RX20 C12	RX47 C13	RX74 E10	RY02 D1	RY29 D8	RY59 G5	RY87 M4	RZ16 G15	RZ44 J9	RZ72 J14									
QY20 G3	RV20 A14	RV47 G10	RW11 C3	RW39 C4	RX21 C12	RX48 C14	RX75 E10	RY03 D1	RY30 E7	RY60 H4	RY88 K4	RZ17 G15	RZ45 J9	RZ73 K13									
QY21 G3	RV21 A14	RV48 G10	RW12 E6	RW40 C4	RX22 C12	RX49 D13	RX76 F10	RY04 D1	RY31 D8	RY61 H4	RY89 K4	RZ18 G15	RZ46 J9	RZ76 K12									
QY22 F4	RV22 A14	RV49 G11	RW13 C6	RW41 C3	RX23 A11	RX50 D12	RX77 F9	RY05 D3	RY32 E8	RY62 G5	RY90 L4	RZ19 G15	RZ47 A10	RZ77 K12									
QY23 F4	RV23 A14	RV50 G12	RW14 E6	RW42 C3	RX24 A11	RX51 D12	RX78 F9	RY06 C4	RY33 B5	RY63 H5	RY91 L4	RZ20 G15	RZ48 J11	RZ78 K13									
QY24 J3	RV24 A14	RV51 G12	RW15 E3	RW44 A5	RX25 A11	RX52 E13	RX79 F10	RY07 E4	RY34 B5	RY64 G5	RY92 K5	RZ21 G15	RZ49 J10	RZ79 K12									
QY25 K2	RV25 B14	RV52 G13	RW16 F3	RW45 F7	RX26 B12	RX53 A14	RX80 F10	RY08 D5	RY35 A5	RY65 H5	RY93 L5	RZ22 G15	RZ50 J11	RZ80 K12									
QY26 L2	RV26 B14	RV53 G14	RW17 J2	RW46 F7	RX27 A12	RX54 B14	RX81 F10	RY09 E5	RY36 A5	RY66 G5	RY94 K5	RZ23 H15	RZ51 J11	RZ81 K13									
QY27 M1	RV27 B14	RV54 J13	RW18 L1	RW01 A10	RX28 A12	RX55 B14	RX82 F11	RY10 D5	RY37 A6	RY67 H5	RY95 L5	RZ24 H15	RZ52 J12	RZ82 K13									
QY28 G7	RV28 B14	RV55 H14	RW20 F2	RW02 A10	RX29 A12	RX56 B14	RX83 E12	RY11 E5	RY38 B6	RY68 G5	RY96 K5	RZ25 H15	RZ53 J14	RZ83 K13									
QY29 C4	RV29 C14	RV57 J15	RW21 F7	RW03 B10	RX30 B12	RX57 B14	RX84 E12	RY12 D5	RY39 D6	RY69 H5	RY97 L5	RZ26 H15	RZ54 J15	RZ84 K13									
QY30 C3	RV30 C14	RV58 J15	RW22 F7	RW04 B10	RX31 B12	RX58 B14	RX85 E13	RY13 E5	RY40 D7	RY70 G6	RY98 K5	RZ27 H15	RZ55 J15	RZ85 K11									
RV01 K15	RV31 D14	RV59 K15	RW23 E3	RW05 B10	RX32 B12	RX59 C14	RX86 E13	RY14 C5	RY41 F7	RY71 H6	RY99 L4	RZ28 G14	RZ56 J15	RZ86 K11									
RV02 K15	RV32 D14	RV60 K15	RW24 F3	RW06 B10	RX33 B13	RX60 C14	RX87 F13	RY15 E5	RY45 B2	RY72 G6	RZ01 E14	RZ29 G14	RZ57 J12	RZ87 K11									
RV03 K15	RV33 E14	RV96 C9	RW25 J3	RW07 C10	RX34 B13	RX61 C14	RX88 F13	RY16 D5	RY46 E7	RY73 H6	RZ02 E14	RZ30 G14	RZ58 J15	RZ88 L12									
RV05 F10	RV34 E14	RV97 A10	RW26 M3	RW08 C10	RX35 A12	RX62 D14	RX89 F13	RY17 E5	RY47 E6	RY74 G6	RZ03 F14	RZ31 G13	RZ59 J12	RZ92 L13									
RV06 A14	RV35 F14	RV98 A10	RW27 B6	RW09 C10	RX36 A13	RX63 D14	RX90 F13	RY18 C5	RY48 D7	RY75 J6	RZ04 F14	RZ32 G13	RZ60 J12	RZ93 K11									
RV07 A12	RV36 F14	RV99 D10	RW28 B6	RW10 C10	RX37 A13	RX64 C15	RX91 F13	RY19 E5	RY49 D7	RY76 G8	RZ05 F15	RZ33 H12	RZ61 J13	RZ94 K12									
RV10 B10	RV37 J11	RW01 K6	RW29 F5	RX11 D10	RX38 A13	RX65 C15	RX92 E13	RY20 D6	RY50 F5	RY77 G7	RZ06 E15	RZ34 G12	RZ62 J14	RZ96 L12									
RV11 C9	RV38 J11	RW02 K6	RW30 E4	RX12 D10	RX39 A13	RX66 D15	RX93 E13	RY21 E6	RY51 F5	RY78 H8	RZ07 E15	RZ35 G12	RZ63 J13	RZ97 L12									
RV12 C9	RV39 J11	RW03 L6	RW31 F4	RX13 D10	RX40 B13	RX67 D15	RX94 F13	RY22 D7	RY52 F6	RY79 H7	RZ08 E15	RZ36 G11	RZ64 J13	RZ98 L13									
RV13 D9	RV40 K11	RW04 L6	RW32 F5	RX14 D11	RX41 B12	RX68 D15	RX95 E13	RY23 E7	RY53 F6	RY80 H8	RZ09 E15	RZ37 G11	RZ65 J13	SY01 D6									
										RY81 H7	RZ10 E15	RZ38 G11	RZ66 H15	XY02 B2									

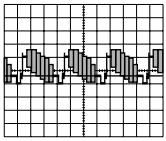
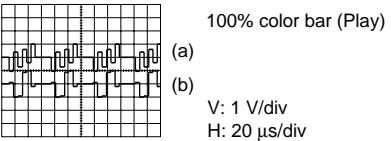
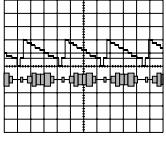
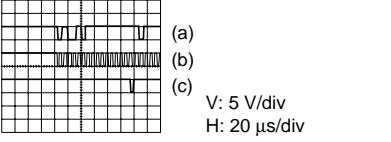
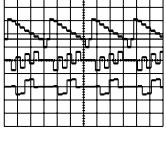
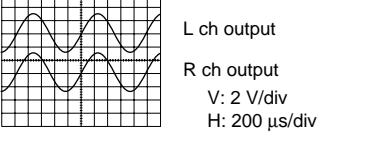
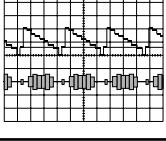
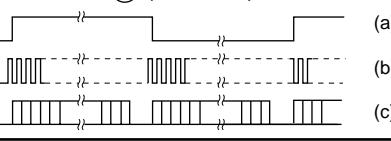
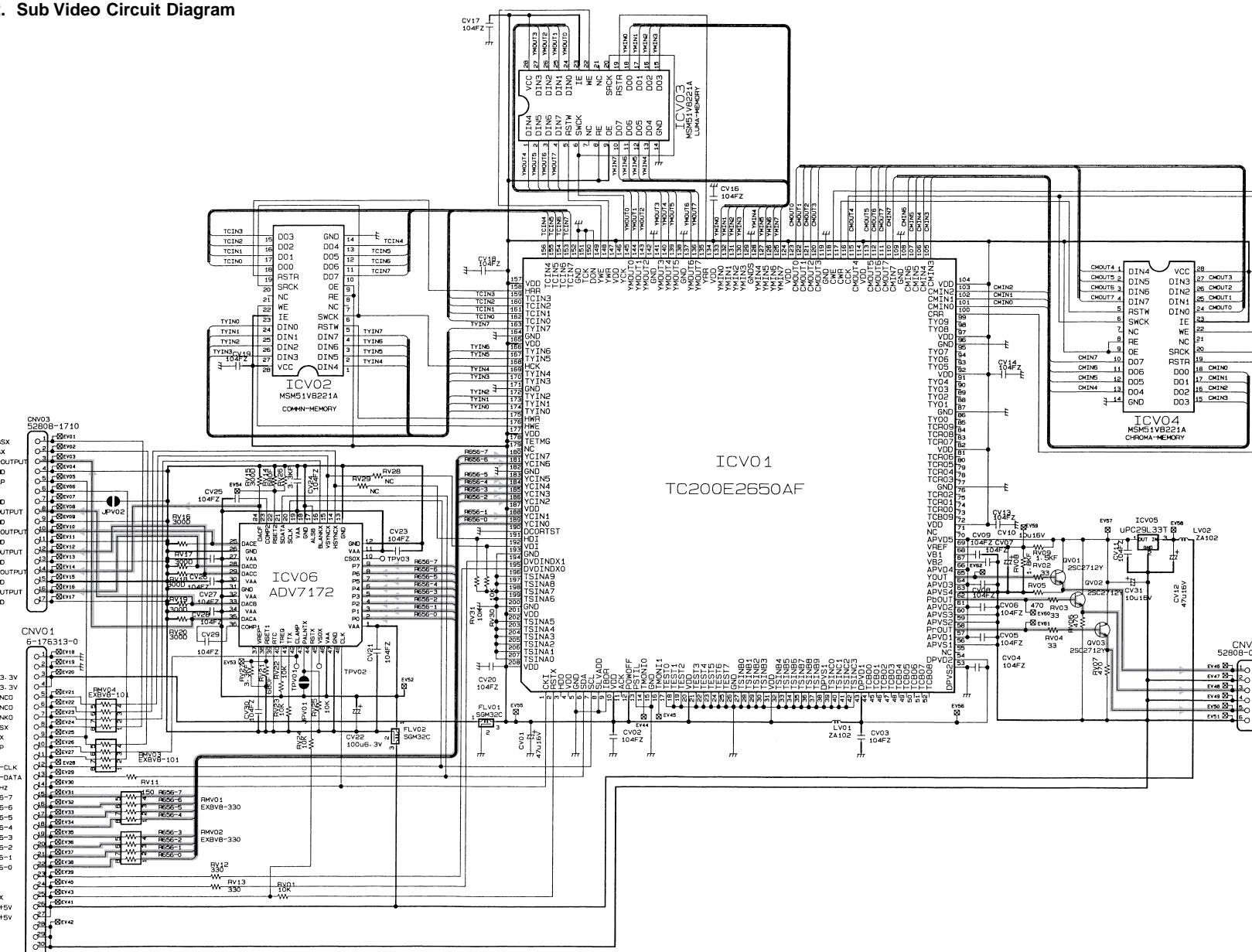
<p>① JX01 Composite video output C-16</p>  <p>CVBS output 75Ω terminated 100% color bar V: 500 mV/div H: 20 μs/div</p>	<p>⑤ CNX01 (a) Pin ⑧ (Cb) (b) Pin ④ (Cr) B-9 C-9</p>  <p>100% color bar (Play) (a) (b) V: 1 V/div H: 20 μs/div</p>
<p>② JX01 S-video output D-16</p>  <p>S-Y/C Y C 75Ω terminated 100% color bar V: 500 mV/div H: 20 μs/div</p>	<p>⑥ CNY01 (a) Pin ⑯ (S DATA) (b) Pin ⑮ (S CLOCK) (c) Pin ⑮ (DA2CSX) D-1 D-1 D-1</p>  <p>(a) (b) (c) V: 5 V/div H: 20 μs/div</p>
<p>③ JX02 Y/Cb/Cr output E-16</p>  <p>Component output Y Cb Cr 75Ω terminated 100% color bar (Play) V: 500 mV/div H: 20 μs/div</p>	<p>⑦ JY01 L ch output / R ch output H-8</p>  <p>L ch output R ch output V: 2 V/div H: 200 μs/div</p>
<p>④ CNX01 (a) Pin ⑩ (Y) (b) Pin ⑥ (C) B-9 C-9</p>  <p>100% color bar (Play) (a) (b) V: 1 V/div H: 20 μs/div</p>	<p>⑧ CNY01 (a) Pin ㉑ (LRCK) (b) Pin ㉐ (BCK) (c) Pin ⑯ (ADATA) D-1 D-1 D-1 ② (ADATA2) ③ (ADATA1) } 5.1ch E-1 E-1</p>  <p>(a) (b) (c)</p>

Fig. 3-4-2

ICY01 DA CONVERTER	ICY07 AND GATE	ICY17 3-STATE BUFFER	ICY21 OP AMP	ICY25 DA CONVERTER	ICY28 REGULATOR	ICYX1 OP AMP
1 0	1 0	1 4.7	1 4.9	1 0	1 6.4	1 6.4
2 2.5	2 0	2 0	2 4.9	2 2.5	2 3.8	2 3.8
3 4.9	3 0	3 1.3	3 4.9	3 1.2	3 3.8	3 3.8
4 3.2	4 0	4 0	4 0	4 3.2	4 4.9	4 4.9
5 3.5	5 4.9	5 1.3	5 4.9	5 3.5	5 6.5	5 6.5
6 0		6 1.3	6 4.9	6 0		
7 0		7 4.7	7 4.9	7 0		
8 0		8 4.9	8 9.2	8 0		
9 0				9 0		
10 0				10 0		
11 0				11 0		
12 2.3				12 2.3		
13 2.4				13 2.4		
14 2.4				14 2.4		
15 0				15 0		
16 2.4				16 2.4		
17 2.3				17 2.3		
18 4.9				18 4.9		
19 3.3				19 3.3		
20 0				20 0		
21 0				21 0		
22 0				22 0		
23 0				23 0		
24 4.9				24 4.9		
25 2.4				25 2.4		
26 2.4				26 2.4		
27 1.3				27 1.3		
28 4.9				28 4.9		
ICY02 REGULATOR				ICY24 OR GATE		
1 6.5				1 0		
2 0	D-IN 2.5			2 2.5		
3 1.2	VCC 4.9			3 4.9		
4 4.9	GND 0			4 3.2		
5 6.5				5 3.5		
ICY03 OP AMP				6 0		
1 4.9	1 4.9			7 0		
2 4.9	2 0			8 0		
3 4.9	3 0			9 0		
4 4.9	4 0			10 0		
5 4.9	5 0			11 0		
6 4.9	6 4.9			12 2.3		
7 4.9	7 2.5			13 2.4		
8 9.2	8 4.9			14 2.4		
ICY04 OP AMP				15 0		
1 4.9	1 0			16 2.4		
2 4.9	2 0			17 2.3		
3 4.9	3 0			18 4.9		
4 0	4 0			19 3.3		
5 4.9	5 0			20 0		
6 4.9	6 2.5			21 0		
7 4.9	7 4.9			22 0		
8 9.2	8 4.9			23 0		
ICY15 3-STATE BUFFER				24 4.9		
1 4.9	1 0			25 2.4		
2 4.9	2 0			26 2.4		
3 4.9	3 0			27 1.3		
4 0	4 0			28 4.9		
5 4.9	5 0					
6 4.9	6 2.5					
7 4.9	7 4.9					
8 9.2	8 4.9					

ICY17 3-STATE BUFFER	ICY21 OP AMP	ICY25 DA CONVERTER	ICY28 REGULATOR	ICYX1 OP AMP
1 0	1 4.7	1 0	1 6.4	1 6.4
2 2.5	2 0	2 4.9	2 3.8	2 3.8
3 4.9	3 0	3 1.3	3 4.9	3 3.8
4 3.2	4 0	4 0	4 4.9	4 4.9
5 3.5	5 4.9	5 1.3	5 3.5	5 6.5
6 0	6 1.3	6 4.9	6 0	6 0
7 0	7 4.7	7 4.9	7 0	7 3.8
8 0	8 4.9	8 9.2	8 0	8 9.3
9 0			9 0	
10 0			10 0	
11 0			11 0	
12 2.3			12 2.3	
13 2.4			13 2.4	
14 2.4			14 2.4	
15 0			15 0	
16 2.4			16 2.4	
17 2.3			17 2.3	
18 4.9			18 4.9	
19 3.3			19 3.3	
20 0			20 0	
21 0			21 0	
22 0			22 0	
23 0			23 0	
24 4.9			24 4.9	
25 2.4			25 2.4	
26 2.4			26 2.4	
27 1.3			27 1.3	
28 4.9			28 4.9	
ICY22 3-STATE BUFFER				ICY26 OP AMP
1 0	1 4.7			1 0
2 0	2 0			2 0
3 0	3 1.3			3 0
4 0	4 0			4 0
5 4.9	5 4.9			5 4.9
6 0				
7 0				
8 0				
9 0				
10 0				
11 0				
12 2.3				
13 2.4				
14 2.4				
15 0				
16 2.4				
17 2.3				
18 4.9				
19 3.3				
20 0				
21 0				
22 0				
23 0				
24 4.9				
25 2.4				
26 2.4				
27 1.3				
28 4.9				
ICY27 D-FLIP-FLOP				ICY32 OR GATE
1 2.6	1 0			1 0
2 2.5	2 0			2 0
3 2.5	3 0			3 0
4 0	4 0			4 0
5 0	5 0			5 0
6 2.5	6 2.5			6 0
7 4.9	7 4.9			7 4.9
8 4.9	8 4.9			8 9.2
9 0				
10 0				
11 0				
12 2.3				
13 2.4				
14 2.4				
15 0				
16 2.4				
17 2.3				
18 4.9				
19 3.3				
20 0				
21 0				
22 0				
23 0				
24 4.9				
25 2.4				
26 2.4				
27 1.3				
28 4.9				
ICY33 3-STATE BUFFER				QY07 SWITCH
1 0	1 0			1 0
2 0	2 0			2 0
3 0	3 0			3 0
4 0	4 0			4 0
5 0	5 0			5 0
6 0	6 0			6 0
7 0	7 4.9			
8 0	8 9.2			
9 0				
10 0				
11 0				
12 2.3				
13 2.4				
14 2.4				
15 0				
16 2.4				
17 2.3				
18 4.9				
19 3.3				
20 0				
21 0				
22 0				
23 0				
24 4.9				
25 2.4				
26 2.4				
27 1.3				
28 4.9				
ICY21 OP AMP				QY12 SWITCH
1 0	1 0			1 0
2 0	2 0			2 0
3 0	3 0			3 0
4 0	4 0			4 0
5 0	5 0			5 0
6 0	6 0			6 0
7 0				
8 0				
9 0				
10 0				
11 0				
12 2.3				
13 2.4				
14 2.4				
15 0				
16 2.4				
17 2.3				
18 4.9				
19 3.3				
20 0				
21 0				
22 0				
23 0				
24 4.9				
25 2.4				
26 2.4				
27 1.3				
28 4.9				
ICY25 DA CONVERTER				QY13 SWITCH
1 0	1 6.4			1 0
2 0	2 2.5			2 0
3 0	3 4.9			3 0
4 0	4 0			4 0
5 0	5 0			5 0
6 0	6 0			6 0
7 0				
8 0				
9 0				
10 0				
11 0				
12 2.3				
13 2.4				
14 2.4				
15 0				
16 2.4				
17 2.3				
18 4.9				
19 3.3				
20 0				
21 0				
22 0				
23 0				
24 4.9				
25 2.4				
26 2.4				
27 1.3				
28 4.9				
ICY28 REGULATOR				QY14 SWITCH
1 0	1 6.4			1 0
2 0	2 3.8			2 0
3 0	3 3.8			3 0
4 0	4 0			4 0
5 0	5 0			5 0
6 0	6 0			6 0
7 0				
8 0				
9 0				
10 0				
11 0				
12 2.3				
13 2.4				
14 2.4				
15 0				
16 2.4				
17 2.3				
18 4.9				
19 3.3				
20 0				
21 0				
22 0				
23 0				
24 4.9				
25 2.4				
26 2.4				
27 1.3				
28 4.9				
ICYX1 OP AMP				QY15 SWITCH
1 0	1 6.4			1 0
2 0	2 4.9			2 0
3 0	3 4.9			3 0
4 0	4 0			4 0
5 0	5 0			5 0
6 0	6 0			6 0
7 0				
8 0				
9 0				
10 0				
11 0				
12 2.3				
13 2.4				
14 2.4				
15 0				
16 2.4				
17 2.3				
18 4.9				
19 3.3				
20 0				
21 0				
22 0</td				

A**4-2. Sub Video Circuit Diagram**

NC: Not used.

Part No.	Loca-	Part No.	Loca-
CNV01	E1	EV41	G1
CNV02	E9	EV42	G1
CNV03	D1	EV43	G1
CV01	F4	EV45	F5
CV02	F5	EV46	F9
CV03	F6	EV47	F9
CV04	E7	EV48	F9
CV05	E7	EV49	F9
CV06	E7	EV50	F9
CV07	E7	EV51	F9
CV08	E7	EV52	F3
CV09	E7	EV53	E2
CV10	E7	EV54	D2
CV11	E8	EV55	F4
CV12	E9	EV56	F7
CV13	E7	EV57	D8
CV14	C7	EV58	D8
CV15	C9	EV59	E7
CV16	B6	EV60	E8
CV17	A4	EV61	E8
CV18	C4	EV62	E7
CV19	C2	FLV01	F4
CV20	F4	FLV02	F3
CV21	E3	ICV01	D6
CV22	F3	ICV02	C3
CV23	E3	ICV03	A5
CV24	D3	ICV04	D8
CV25	D2	ICV05	D8
CV26	E2	ICV06	E3
CV27	E2	ICV07	F3
CV28	E2	JPV01	D1
CV29	E2	JPV02	D1
CV30	E1	LV01	E6
CV31	E9	LV02	E9
EV01	D1	QV01	E8
EV02	D1	QV02	E8
EV03	D1	QV03	E8
EV04	D1	RMV01	F1
EV05	D1	RMV02	G2
EV06	D1	RMV03	F1
EV07	D1	RMV04	F1
EV08	D1	RV01	G3
EV09	D1	RV02	E8
EV10	D1	RV03	E8
EV11	E1	RV04	E8
EV12	E1	RV05	E8
EV13	E1	RV06	E8
EV14	E1	RV07	E8
EV15	E1	RV08	E7
EV16	E1	RV09	E8
EV17	E1	RV11	E1
EV18	E1	RV12	G2
EV19	E1	RV13	G2
EV20	E1	RV14	D2
EV21	F1	RV15	D2
EV22	F1	RV16	E2
EV23	F1	RV17	E2
EV24	F1	RV18	E2
EV25	F1	RV19	E2
EV26	F1	RV20	E2
EV27	F1	RV21	F1
EV28	F1	RV22	E3
EV29	F1	RV23	F3
EV30	F1	RV24	F3
EV31	F1	RV25	F3
EV32	F1	RV26	D3
EV33	G1	RV27	D3
EV34	G1	RV28	D3
EV35	G1	RV29	D3
EV36	G1	RV30	E4
EV37	G1	RV31	E4
EV38	G1	TPV01	F3
EV39	G1	TPV02	F3
EV40	G1	TPV03	E3

SECTION 4

PARTS LIST

SAFETY PRECAUTION

The parts identified by !(mark are critical for safety. Replace only with part number specified.

The mounting position of replacement is to be identical with originals.

The substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire or other hazards.

NOTICE

The part number must be used when ordering parts in order to assist in processing, be sure to include the model number and description.

ABBREVIATIONS

1. Integrated Circuit (IC)

2. Capacitor (Cap)

- Capacitance Tolerance (for Nominal Capacitance more than 10pF)

Table 4-2-1

Symbol	B	C	D	F	G	J	K	M	N
Tolerance %	± 0.1	± 0.25	± 0.5	± 1	± 2	± 5	± 10	± 20	± 30
Symbol	P	Q	T	U	V	W	X	Y	Z
Tolerance %	+ 100 0	+ 30 - 10	+ 50 - 10	+ 75 - 10	+ 20 - 10	+ 100 - 10	+ 40 - 20	+ 150 - 10	+ 80 - 20

Ex. 10MF J = 10 μ F \pm 5%

- Capacitance Tolerance (for Nominal Capacitance 10pF or less)

Table 4-2-2

Symbol	B	C	D	F	G
Tolerance pF	± 0.1	± 0.25	± 0.5	± 1	± 2

Ex. 10pF G = 10pF \pm 2pF

3. Resistor (Res)

- Resistance tolerance

Table 4-3-1

Symbol	B	C	D	F	G	J	K	M
Tolerance %	± 0.1	± 0.25	± 0.5	± 1	± 2	± 5	± 10	± 20

Ex. 470 ohm J = 470 ohm \pm 5%

4. EXPLODED VIEWS

4-1. Packing Assembly

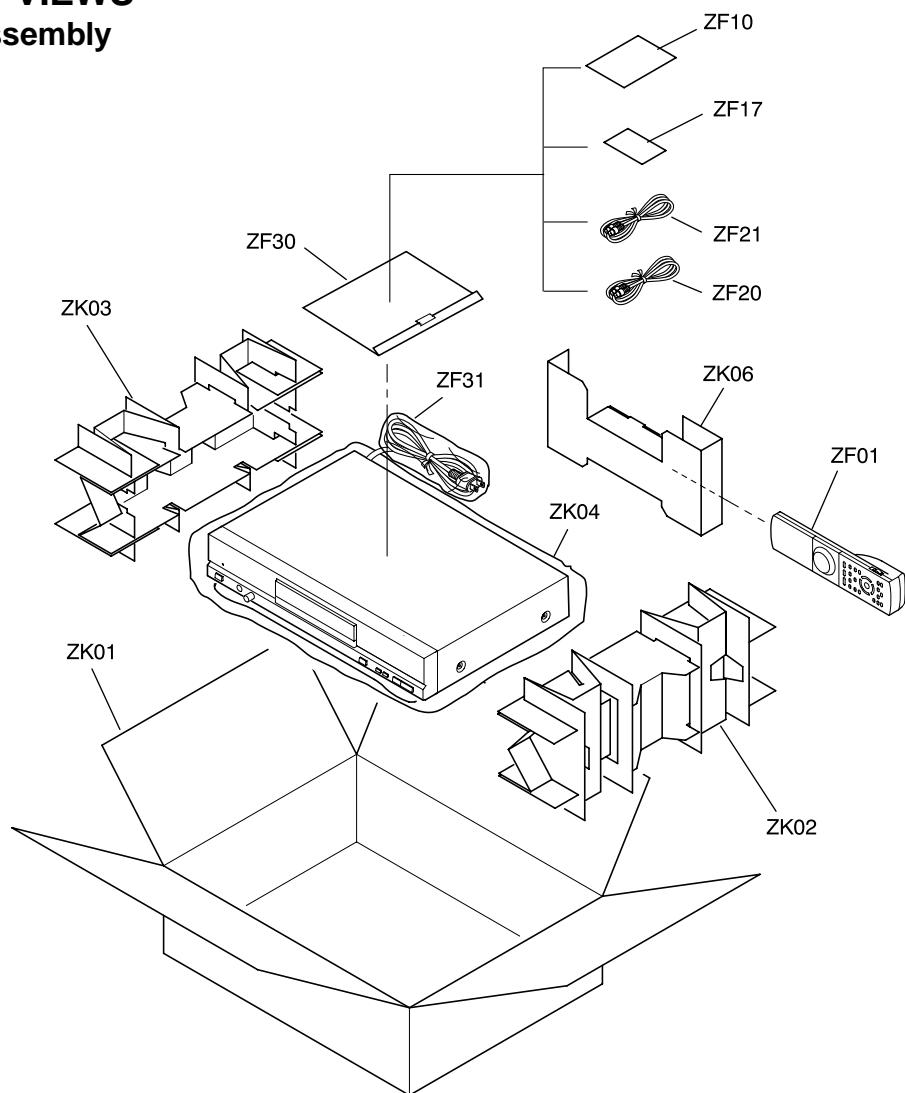


Fig. 4-4-1

4-2. Remote Control Unit

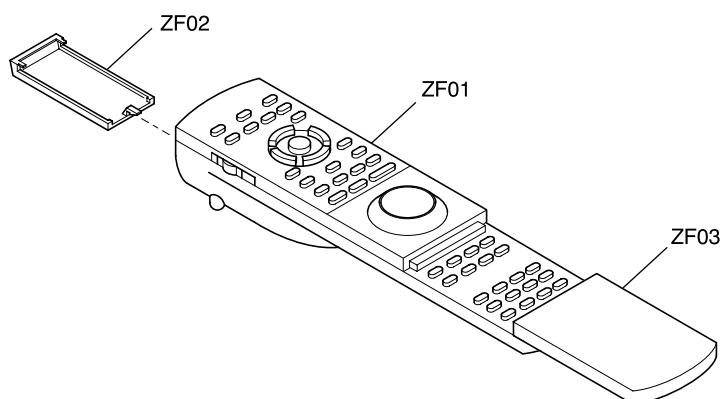


Fig. 4-4-2

4-3. Chassis Assembly

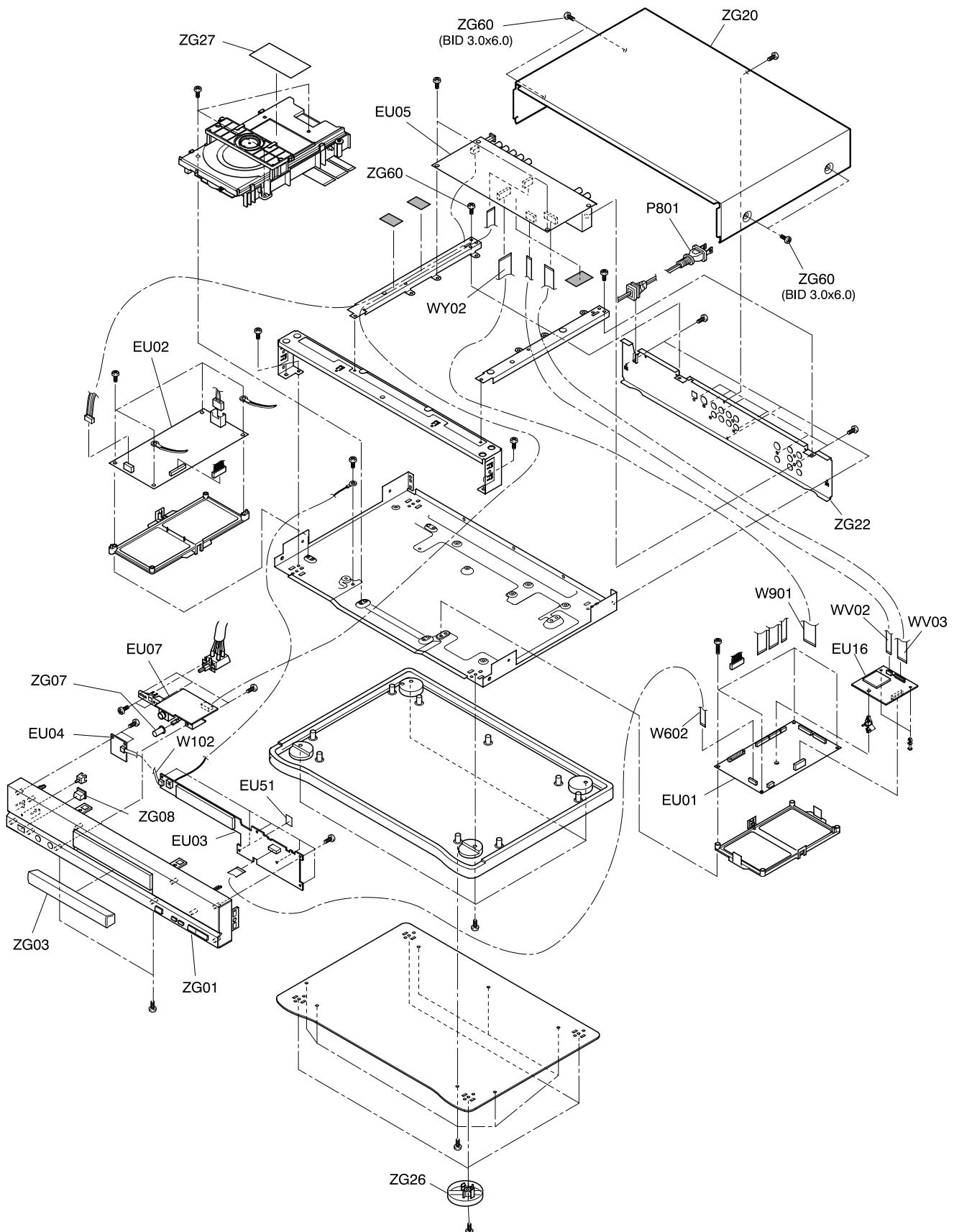


Fig. 4-4-3

4-4. Mechanism Assembly

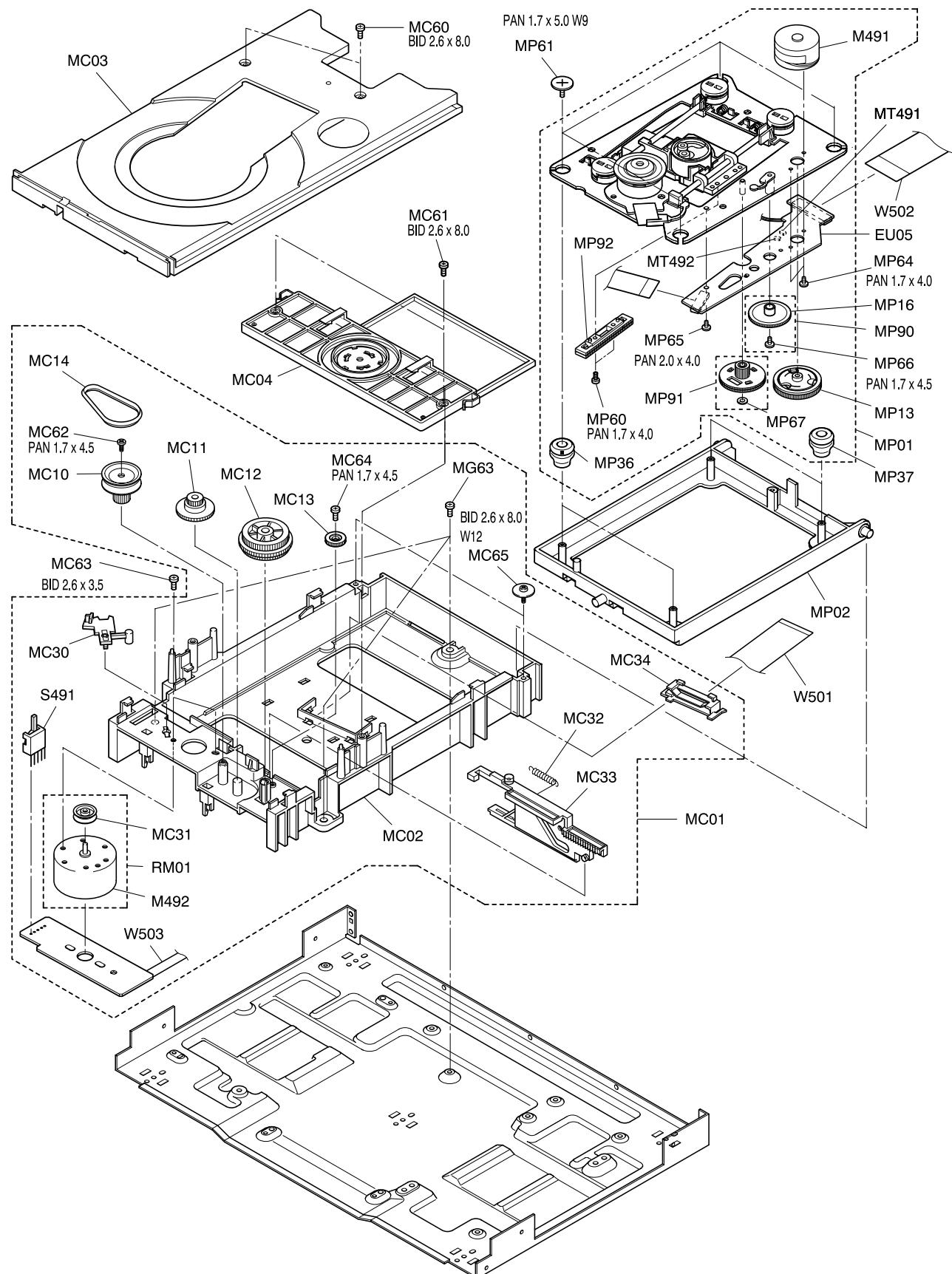


Fig. 4-4-4

LOCATION NUMBER	PART NUMBER	DESCRIPTION
- MECHANICAL PARTS -		
M491	79070015	Motor,Feed RF-300PA
MC01	79070158	Chassis Assy,Mechanism
MC03	79070022	Tray
MC04	79070139	Clamper Assy
MC14	79070024	Belt,Loading
MC63	79070028	Screw 2.6x3.5mm
MC65	79070064	Screw 2.6x8W12mm
MP01	79070339	Mechanism Assy Pick Up
MP02	79070023	Chassis,Sub
MP13	79070011	Gear Assy Feed Motor
MP36	79070016	Dumper,Rubber Front
MP37	79070082	Dumper,Rubber Rear
MP61	79070019	Screw 1.7x0.5W9mm
MP64	79070020	Screw 1.7x4.0mm
MP66	79070018	Screw 1.7x4.5mm
MP67	79070017	Washer W-5-1.65
MP90	79070012	Gear A Kit
MP91	79070013	Gear B Kit
MP92	79070014	Gear,Rack
MT491	79040001	Hole Element HW-101A-E
MT492	79040001	Hole Element HW-101A-E
RM01	79070025	Motor Assy,Loading
S491	79070026	Switch SW-SSCF
W102	79080145	Cable,Flexible FFC,4P,L120
W501	79080020	Cable,Flexible FFC,21P,L292
W502	79080021	Cable,Flexible FFC,19P,L185
W503	79080059	Cable,Flexible FFC,5P,L288
W602	79080142	Cable,Flexible FFC-10P-L150
W901	79080178	Cable,Flexible FFC-25P-L180
WV02	79080182	Cable,Flexible FFC,6P,L120
WV03	79080177	Cable,Flexible FFC-17P-L120
WY02	79080183	Cable,Flexible FFC,10P,L440
ZF01	79078001	Remote Control Unit,SE-R0002
ZF02	79078002	Cover,Battery
ZF03	79078003	Cover,Remote Control Unit
! ZF10	79077028	Owners Manual English/SPANISH
ZF17	79070272	Warranty Card USA
ZF20	79070037	Cable,AV
ZF21	79070049	Cable,S
ZF30	79070042	Bag,Polyethylene
ZF31	79080026	Bag,Polyethylene (Power Cord)
ZG01	79071060	Front Panel
ZG03	79071033	Panel,Tray
ZG07	79071034	Knob,HP VR
ZG08	79071035	Button,Power
ZG20	79073014	Cover,Tcp
! ZG21	79070371	Label,Rating USA
ZG26	79073033	Foot Assy,Front
! ZG27	79070162	Label,PU Caution
ZG33	79079011	Base Main PCB
ZG60	79070165	Screw 3.0x6.0mm
ZK01	79075034	Case
ZK02	79075024	Packing,R
ZK03	79075023	Packing,L
ZK04	79070033	Bag,Polyethylene
ZK06	79075025	Separator
ZZ01	79070274	Test Disc DVDZ-9044
	79080074	Kit,Data Update

LOCATION NUMBER	PART NUMBER	DESCRIPTION	LOCATION NUMBER	PART NUMBER	DESCRIPTION	
- ELECTRICAL PARTS -						
EU02	79085011	PC Board Assy Power	C841	79020064	Cap,Electrolytic 39MF M 50V	
		- INTEGRATED CIRCUITS -	C842	79020007	Cap,Electrolytic 22MF M 50V	
! Q803	79040100	IC STR-F6535	- RESISTORS -			
Q821	79040104	IC UPC1093J	R803	79030045	Res,Oxide Metal 56kohm J 2W	
Q830	79040105	IC BA10324A	! R804	79030025	Res,Oxide Metal 82kohm J 2W	
- TRANSISTORS -						
! Q802	79050026	Photo Coupler PC123FY2	R805	79030039	Res,Carbon 4.7kohm J 1/6W	
! Q804	79050026	Photo Coupler PC123FY2	R806	79030026	Res,Oxide Metal 330kohm J 1W	
Q822	79050007	Transistor 2SC3852	R807	79030032	Res,Carbon 680ohm J 1/6W	
Q823	79050007	Transistor 2SC3852	! R808	79030011	Res,Oxide Metal 0.47ohm J 1W	
Q824	79050034	Transistor 2SA1757F	R809	79030033	Res,Carbon 3.3kohm J 1/6W	
Q825	79050005	Transistor 2SC2236-Y	! R810	79030028	Res,Oxide Metal 22ohm J 1/2W	
Q827	79050004	Transistor 2SC2458-Y	R811	79030034	Res,Carbon 2.4kohm J 1/6W	
Q828	79050004	Transistor 2SC2458-Y	R812	79030035	Res,Carbon 2.7kohm J 1/6W	
Q829	79050008	Transistor RN1201	R824	79030046	Res,Oxide Metal 62ohm J 1/2W	
- DIODES -			R825	79030036	Res,Carbon 330ohm J 1/6W	
! D802	79060016	Diode ERA15-06	R826	79030037	Res,Carbon 7.5kohm G 1/4W	
! D803	79060016	Diode ERA15-06	R827	79030038	Res,Carbon 1kohm G 1/4W	
! D804	79060016	Diode ERA15-06	R828	79030039	Res,Carbon 4.7kohm J 1/6W	
! D805	79060016	Diode ERA15-06	R829	79030004	Res,Carbon 1kohm J 1/6W	
! D806	79060009	Diode RU-1P	R830	79030029	Res,Carbon 100kohm G 1/4W	
D807	79060013	Diode AG01	R832	79030004	Res,Carbon 1kohm J 1/6W	
D808	79060015	Diode ISS133	R833	79030047	Res,Oxide Metal 910ohm J 1/2W	
D809	79060029	Diode,Zener 6.8V	R834	79030041	Res,Carbon 2kohm G 1/4W	
D810	79060013	Diode AG01	R835	79030041	Res,Carbon 2kohm G 1/4W	
D811	79060013	Diode AG01	R836	79030041	Res,Carbon 2kohm G 1/4W	
D812	79060015	Diode ISS133	R837	79030041	Res,Carbon 2kohm G 1/4W	
D821	79060008	Diode RU2YX	R838	79030042	Res,Carbon 680ohm G 1/4W	
D822	79060017	Diode RU4Z	R839	79030041	Res,Carbon 2kohm G 1/4W	
D823	79060032	Diode RK49LF-L1	R840	79030002	Res,Carbon 10kohm J 1/6W	
D824	79060013	Diode AG01	R841	79030043	Res,Carbon 180ohm J 1/6W	
D825	79060013	Diode AG01	R842	79030042	Res,Carbon 680ohm G 1/4W	
D829	79060015	Diode ISS133	R843	79030030	Positive Thermister PTH8L510-T	
D831	79060015	Diode ISS133	R845	79030044	Res,Carbon 2.7kohm G 1/4W	
D832	79060015	Diode ISS133	R846	79030039	Res,Carbon 4.7kohm J 1/6W	
D833	79060015	Diode ISS133	R847	79030035	Res,Carbon 2.7kohm J 1/6W	
D835	79060012	Diode ERA15-02	R848	79030004	Res,Carbon 1kohm J 1/6W	
D836	79060007	Diode,Zener UZ3.0BSB	R849	79030043	Res,Carbon 180ohm J 1/6W	
D837	79060004	Diode,Zener UZ5.1BSB	R850	79030009	Res,Oxide Metal 220ohm J 1/2W	
D838	79060004	Diode,Zener UZ5.1BSB	- MISCELLANEOUS -			
D839	79060004	Diode,Zener UZ5.1BSB	! F801	79087001	Fuse 1.6A,250V	
D840	79060006	Diode,Zener UZ5.6BSB	! F822	79070061	Protector 125V,3.0A	
D841	79060013	Diode AG01	! F823	79070061	Protector 125V,3.0A	
D842	79060013	Diode AG01	! P801	79088005	Power Cord	
D843	79060027	Diode,Zener UZ12BSB	! RF823	79030017	Res,Fusible 560ohm J 1/2W	
- COILS -			! T801	79080006	Line Filter 253YOR7	
! L801	79070051	Coil,Choke ZBF253D-02	! T802	79010013	Power Transformer SRW3020ED-204	
! L802	79070051	Coil,Choke ZBF253D-02	EU04	79081011	PC Board Assy Power Switch	
! L821	79010001	Coil 20fH	EU03	79081010	PC Board Assy Front	
- CAPACITORS -			IC101	79040132	IC TMP47C416F-RE12	
! C801	79020027	Cap,Ceramic 0.22MF	A101	79080148	Display,FL 7-ST-33GK	
! C802	79020028	Cap,Ceramic 470pF	MT101	79080140	Module,RMT GP1U261X	
! C803	79020028	Cap,Ceramic 470pF	S101	79080141	Switch Push	
! C804	79020013	Cap,Ceramic 0.01MF	S102	79080141	Switch Push	
! C805	79020042	Cap,Electrolytic 100MF	S103	79080141	Switch Push	
! C806	79020016	Cap,Film 0.033MF	S104	79080141	Switch Push	
! C808	79020015	Cap,Ceramic 150pF	S105	79080141	Switch Push	
C809	79020067	Cap,Electrolytic 27MF	X101	79070006	Oscillator,Ceramic 8MHz	
C810	79020078	Cap,Ceramic 470pF	EU07	79081012	PC Board Assy HP AMP	
! C811	79020029	Cap,Ceramic 220pF	- INTEGRATED CIRCUITS -			
C812	79020068	Cap,Ceramic 390pF	ICU01	79040044	IC NJM4580E	
C813	79020079	Cap,Ceramic 2200pF	- TRANSISTORS -			
C814	79020069	Cap,Film 0.1MF	QU01	79050029	Transistor,Chip IMD3A	
C821	79020020	Cap,Electrolytic 820MF	QU03	79050038	Transistor,Chip 2SD2114K	
C823	79020019	Cap,Electrolytic 1200MF	QU31	79050001	Transistor,Chip RN2402	
C825	79020082	Cap,Electrolytic 1500MF	QU32	79050001	Transistor,Chip RN2402	
C826	79020002	Cap,Electrolytic 22MF	QU33	79050001	Transistor,Chip RN2402	
C828	79020077	Cap,Electrolytic 220MF	QU34	79050038	Transistor,Chip 2SD2114K	
C829	79020022	Cap,Electrolytic 220MF	QU35	79050038	Transistor,Chip 2SD2114K	
C830	79020001	Cap,Electrolytic 22MF	- CAPACITORS -			
C831	79020043	Cap,Electrolytic 470MF	CU01	79020093	Cap,Electrolytic 220MF M 10V	
C832	79020035	Cap,Electrolytic 100MF	CU02	79020094	Cap,Electrolytic 0.0001MF M 6.3V	
C833	79020043	Cap,Electrolytic 470MF	CU03	79020094	Cap,Electrolytic 0.0001MF M 6.3V	
C834	79020043	Cap,Electrolytic 470MF	CU04	79020093	Cap,Electrolytic 220MF M 10V	
C835	79020007	Cap,Electrolytic 22MF	CU07	79020092	Cap,Electrolytic 10MF M 16V	
C836	79020007	Cap,Electrolytic 22MF	CU08	79020092	Cap,Electrolytic 10MF M 16V	
C837	79020021	Cap,Film 0.22MF	CU11	79020092	Cap,Electrolytic 10MF M 16V	
C840	79020064	Cap,Electrolytic 39MF	CU32	79020093	Cap,Electrolytic 220MF M 10V	

LOCATION NUMBER	PART NUMBER	DESCRIPTION	LOCATION NUMBER	PART NUMBER	DESCRIPTION
JU01	79089009	- MISCELLANEOUS - Jack,HP	X301	79089003	Oscillator
VRU01	79030049	Res,Variable	X501	79080014	Oscillator
EU01	79083006	PC Board Assy Main - INTEGRATED CIRCUITS -	X601	79080015	Oscillator
IC201	79040110	IC TC90A41AF	EU16	79086001	PC Board Assy Progressive
IC202	79040061	IC UPD424800LE70	ICV01	79040142	- INTEGRATED CIRCUITS - IC TC200E2650AF
IC202	79040145	IC NN514800AJ-60T	ICV02	79040128	IC MSM51V8221A
IC203	79040066	IC UPC29L33T	ICV03	79040128	IC MSM51V8221A
IC204	79040008	IC TC7S32F	ICV04	79040128	IC MSM51V8221A
IC205	79040008	IC TC7S32F	ICV05	79040066	IC UPC29L33T
IC301	79040122	IC MD36710X	ICV06	79040139	IC ADV7172
IC302	79040063	IC HY57V16160ATC-10	QV01	79050016	- TRANSISTORS - Transistor,Chip 2SC2712
IC305	79040063	IC HY57V16160ATC-10	QV02	79050016	Transistor,Chip 2SC2712
IC307	79040130	IC NJU6321PE-TE1	QV03	79050016	Transistor,Chip 2SC2712
IC308	79040111	IC TC7W04F	CV01	79020062	- CAPACITORS - Cap,Electrolytic 47MF M 16V
IC309	79040123	IC TC203G8AF-0101(Z)	CV10	79020049	Cap,Electrolytic 10MF M 16V
IC310	79040128	IC MSM51V8221A	CV12	79020062	Cap,Electrolytic 47MF M 16V
IC311	79040013	IC TC7W74F	CV22	79020061	Cap,Electrolytic 100MF M 6.3V
IC312	79040119	IC TC7SH86F	CV31	79020049	Cap,Electrolytic 10MF M 16V
IC313	79040119	IC TC7SH86F	EU05	79085019	PC Board Assy Output
IC314	79040119	IC TC7SH86F	ICX71	79040138	- INTEGRATED CIRCUITS - IC MC14577CFL1
IC501	79040114	IC TAI254AF	ICX72	79040138	MC14577CFL1
IC503	79040109	IC TC9461F	ICY01	79040101	AD1855JRS
IC504	79040006	IC TC7S04F	ICY02	79040102	NJM2370U05
IC505	79040136	IC BA5917FP-E2	ICY03	79040044	NJM4580E
IC506	79040029	IC TC74HC4053AF	ICY04	79040044	NJM4580E
IC507	79040039	IC NJM3403AMC	ICY07	79040007	TC7S08F
IC508	79040072	IC TC7S66F	ICY08	79040008	TC7S32F
IC509	79040129	IC RT2124AFS-T	ICY09	79040074	TC74HCU04AF
IC510	79040040	IC BA6844FP	ICY10	79080019	Terminal,Optical GP1F32T
IC512	79040006	IC TC7S04F	ICY11	79040130	NJU6321PE-TE1
IC516	79040006	IC TC7S04F	ICY15	79040087	TC7W241FU
IC517	79040014	IC TA75S01F	ICY17	79040087	TC7W241FU
IC518	79040050	IC NJM2107F	ICY18	79040007	TC7S08F
IC519	79040009	IC TC7S86F	ICY19	79040008	TC7S32F
IC520	79040008	IC TC7S32F	ICY20	79040101	AD1855JRS
IC521	79040009	IC TC7S86F	ICY21	79040044	NJM4580E
IC522	79040011	IC TC7W04F	ICY22	79040087	TC7W241FU
IC523	79040013	IC TC7W74F	ICY23	79040007	TC7S08F
IC524	79040013	IC TC7W74F	ICY24	79040008	TC7S32F
IC525	79040121	IC AD8561AR	ICY25	79040101	AD1855JRS
IC526	79040050	IC NJM2107F	ICY26	79040044	NJM4580E
IC527	79040131	IC TC74HC4066AFT	ICY27	79040013	TC7W74F
IC528	79040126	IC BU6481KV	ICY28	79040102	NJM2370U05
IC529	79040125	IC TC7W66FU	ICY29	79040072	TC7S66F
IC530	79040072	IC TC7S66F	ICY30	79040072	TC7S66F
IC601	79040143	IC TMP93CS42AF-9417	ICY31	79040007	TC7S08F
IC602	79040041	IC PST591-IDT	ICY32	79040007	TC7S08F
IC603	79040027	IC TC74HC32AF	ICY33	79040087	TC7W241FU
IC604	79040030	IC TC74AC573F	QX01	79050022	- TRANSISTORS - Transistor,Chip HN1A01F-Y
IC605	79040124	IC TC74HC08AF	QX02	79050022	Transistor,Chip HN1A01F-Y
IC607	79040007	IC TC7S08F	QX03	79050022	Transistor,Chip HN1A01F-Y
IC608	79040006	IC TC7S04F	QX04	79050022	Transistor,Chip HN1A01F-Y
IC609	79040030	IC TC74AC573F	QX05	79050022	Transistor,Chip HN1A01F-Y
IC613	79040135	IC 24C04AFJA	QX08	79050015	Transistor,Chip HN1B01F
IC614	79040144	IC W26010AT-15	QX10	79050015	Transistor,Chip HN1B01F
IC615	79040127	IC LH28F800SGE-70	QX12	79050015	Transistor,Chip HN1B01F
IC616	79040007	IC TC7S08F	QX16	79050015	Transistor,Chip HN1B01F
IC617	79040087	IC TC7W241FU	QX18	79050015	Transistor,Chip HN1B01F
IC902	79040066	IC UPC29L33T	QX20	79050015	Transistor,Chip HN1B01F
IC904	79040108	IC TC7SET08F	QX22	79050032	Transistor,Chip IMX1
IC906	79040087	IC TC7W241FU	QX23	79050030	Transistor,Chip DTC143EKA
IC907	79040087	IC TC7W241FU	QX37	79050018	Transistor,Chip 2SA1162
		- TRANSISTORS -	QX39	79050016	Transistor,Chip 2SC2712
Q501	79050019	Transistor,Chip 2SA1182	QX42	79050018	Transistor,Chip 2SA1162
Q502	79050010	Transistor,Chip RN1411	QX44	79050016	Transistor,Chip 2SC2712
Q503	79050015	Transistor,Chip HN1B01F	QX47	79050018	Transistor,Chip 2SA1162
Q504	79050032	Transistor,Chip IMX1	QX49	79050016	Transistor,Chip 2SC2712
Q505	79050030	Transistor,Chip DTC143EKA	QY01	79050012	Transistor,Chip RN4601
Q506	79050015	Transistor,Chip HN1B01F	QY02	79050014	Transistor,Chip HN1C03F
Q507	79050037	Transistor,Chip 2SC4944-GR	QY03	79050014	Transistor,Chip HN1C03F
Q508	79050036	Transistor,Chip 2SA1832-GR	QY05	79050030	Transistor,Chip DTC143EKA
Q511	79050010	Transistor,Chip RN1411	QY06	79050014	Transistor,Chip HN1C03F
Q512	79050010	Transistor,Chip RN1411	QY07	79050014	Transistor,Chip HN1C03F
Q601	79050031	Transistor,Chip DTA114EKA	QY08	79050014	Transistor,Chip HN1C03F
		- DIODES -	QY09	79050012	Transistor,Chip RN4601
D501	79060018	Diode,Chip 1SS193			
D502	79060018	Diode,Chip 1SS193			
D503	79060018	Diode,Chip 1SS193			
		- MISCELLANEOUS -			

LOCATION NUMBER	PART NUMBER	DESCRIPTION	LOCATION NUMBER	PART NUMBER	DESCRIPTION				
QY10	79050014	Transistor,Chip	HN1C03F	CY63	79020089	Cap,Film	220pF	J 100V	
QY11	79050014	Transistor,Chip	HN1C03F	CY64	79020085	Cap,Electrolytic	100MF	M 10V	
QY12	79050012	Transistor,Chip	RN4601	CY65	79020085	Cap,Electrolytic	100MF	M 10V	
QY13	79050014	Transistor,Chip	HN1C03F	CY66	79020086	Cap,Electrolytic	220MF	M 16V	
QY14	79050030	Transistor,Chip	DTC143EKA	CY67	79020086	Cap,Electrolytic	220MF	M 16V	
QY15	79050001	Transistor,Chip	RN2402	CY72	79020083	Cap,Electrolytic	10MF	M 50V	
QY16	79050001	Transistor,Chip	RN2402	CY75	79020085	Cap,Electrolytic	100MF	M 10V	
QY17	79050001	Transistor,Chip	RN2402	CY76	79020086	Cap,Electrolytic	220MF	M 16V	
QY18	79050012	Transistor,Chip	RN4601	CY77	79020086	Cap,Electrolytic	220MF	M 16V	
QY19	79050001	Transistor,Chip	RN2402	CY78	79020086	Cap,Electrolytic	220MF	M 16V	
QY20	79050001	Transistor,Chip	RN2402	CY79	79020086	Cap,Electrolytic	220MF	M 16V	
QY21	79050001	Transistor,Chip	RN2402	CY80	79020090	Cap,Film	1000pF	J 100V	
QY22	79050001	Transistor,Chip	RN2402	CY81	79020090	Cap,Film	1000pF	J 100V	
QY23	79050001	Transistor,Chip	RN2402	CY82	79020089	Cap,Film	220pF	J 100V	
QY24	79050001	Transistor,Chip	RN2402	CY83	79020090	Cap,Film	1000pF	J 100V	
QY25	79050001	Transistor,Chip	RN2402	CY84	79020090	Cap,Film	1000pF	J 100V	
QY26	79050001	Transistor,Chip	RN2402	CY85	79020089	Cap,Film	220pF	J 100V	
QY27	79050001	Transistor,Chip	RN2402	CY86	79020086	Cap,Electrolytic	220MF	M 16V	
QY28	79050014	Transistor,Chip	HN1C03F	CY87	79020086	Cap,Electrolytic	220MF	M 16V	
QY29	79050014	Transistor,Chip	HN1C03F	CY88	79020089	Cap,Film	220pF	J 100V	
QY30	79050014	Transistor,Chip	HN1C03F	CY89	79020089	Cap,Film	220pF	J 100V	
		- DIODES -		CY90	79020085	Cap,Electrolytic	100MF	M 10V	
DY01	79060022	Diode,Chip	ISS368	CY91	79020085	Cap,Electrolytic	100MF	M 10V	
DY02	79060022	Diode,Chip	ISS368	CY92	79020091	Cap,Film	4700pF	J 63V	
DY03	79060026	Diode	UDZS10B	CY93	79020091	Cap,Film	4700pF	J 63V	
DY04	79060022	Diode,Chip	ISS368	CY94	79020091	Cap,Film	4700pF	J 63V	
DY05	79060022	Diode,Chip	ISS368	CY95	79020091	Cap,Film	4700pF	J 63V	
		- CAPACITORS -		CY96	79020091	Cap,Film	4700pF	J 63V	
CW05	79020083	Cap,Electrolytic	10MF	CY97	79020091	Cap,Film	4700pF	J 63V	
CW06	79020083	Cap,Electrolytic	10MF	CY98	79020091	Cap,Film	4700pF	J 63V	
CW09	79020095	Cap,Electrolytic	1000MF	CY99	79020091	Cap,Film	4700pF	J 63V	
CW10	79020086	Cap,Electrolytic	220MF			- MISCELLANEOUS -			
CW11	79020086	Cap,Electrolytic	220MF	FLX01	79010008	Coil	TH286LAIS15674		
CW12	79020086	Cap,Electrolytic	220MF	FLX02	79010008	Coil	TH286LAIS15674		
CW13	79020086	Cap,Electrolytic	220MF	FLX03	79010008	Coil	TH286LAIS15674		
CX01	79020039	Cap,Electrolytic	47MF	FLX04	79010008	Coil	TH286LAIS15674		
CX17	79020088	Cap,Electrolytic	1000MF	FLX05	79010008	Coil	TH286LAIS15674		
CX20	79020088	Cap,Electrolytic	1000MF	FLX06	79010016	Filter	H287LDKS-15818		
CX21	79020088	Cap,Electrolytic	1000MF	FLX07	79010016	Filter	H287LDKS-15818		
CX22	79020033	Cap,Electrolytic	470MF	FLX08	79010016	Filter	H287LDKS-15818		
CX23	79020033	Cap,Electrolytic	470MF	JX01	79089004	Plate,Jack	Video		
CX37	79020039	Cap,Electrolytic	47MF	JX02	79089013	Plate,Jack	Component		
CX38	79020035	Cap,Electrolytic	100MF	M 10V	JY01	79089006	Plate,Jack	Audio	
CX40	79020033	Cap,Electrolytic	470MF	M 6.3V	JY02	79089007	Plate,Jack	Digital Audio	
CX42	79020039	Cap,Electrolytic	47MF	M 10V	SY01	79080018	Relay	EG2-9	
CX43	79020039	Cap,Electrolytic	47MF	M 10V	XY02	79089008	Crystal	HC49/U24.576MHz	
CX46	79020033	Cap,Electrolytic	470MF	M 6.3V					
CX49	79020039	Cap,Electrolytic	47MF	M 10V					
CX52	79020033	Cap,Electrolytic	470MF	M 6.3V					
CX53	79020039	Cap,Electrolytic	47MF	M 10V					
CY10	79020086	Cap,Electrolytic	220MF	M 16V					
CY11	79020086	Cap,Electrolytic	220MF	M 16V					
CY12	79020086	Cap,Electrolytic	220MF	M 16V					
CY13	79020086	Cap,Electrolytic	220MF	M 16V					
CY14	79020090	Cap,Film	1000pF	J 100V					
CY15	79020090	Cap,Film	1000pF	J 100V					
CY16	79020089	Cap,Film	220pF	J 100V					
CY17	79020086	Cap,Electrolytic	220MF	M 16V					
CY18	79020090	Cap,Film	1000pF	J 100V					
CY19	79020090	Cap,Film	1000pF	J 100V					
CY20	79020089	Cap,Film	220pF	J 100V					
CY21	79020086	Cap,Electrolytic	220MF	M 16V					
CY22	79020089	Cap,Film	220pF	J 100V					
CY23	79020089	Cap,Film	220pF	J 100V					
CY25	79020085	Cap,Electrolytic	100MF	M 10V					
CY26	79020085	Cap,Electrolytic	100MF	M 10V					
CY29	79020084	Cap,Electrolytic	47MF	M 25V					
CY42	79020085	Cap,Electrolytic	100MF	M 10V					
CY43	79020085	Cap,Electrolytic	100MF	M 10V					
CY49	79020085	Cap,Electrolytic	100MF	M 10V					
CY50	79020083	Cap,Electrolytic	10MF	M 50V					
CY52	79020086	Cap,Electrolytic	220MF	M 16V					
CY53	79020086	Cap,Electrolytic	220MF	M 16V					
CY54	79020086	Cap,Electrolytic	220MF	M 16V					
CY55	79020086	Cap,Electrolytic	220MF	M 16V					
CY56	79020090	Cap,Film	1000pF	J 100V					
CY57	79020090	Cap,Film	1000pF	J 100V					
CY58	79020089	Cap,Film	220pF	J 100V					
CY59	79020090	Cap,Film	1000pF	J 100V					
CY60	79020090	Cap,Film	1000pF	J 100V					
CY61	79020089	Cap,Film	220pF	J 100V					
CY62	79020089	Cap,Film	220pF	J 100V					

SPECIFICATIONS

DVD Video Player/Outputs/Supplied Accessories

[DVD Video Player]

Power supply	120V AC, 60 Hz
Power consumption	25W
Mass	7.0 kg
External dimensions	430 x 96 x 300 mm (W/H/D)
Signal system	Standard NTSC
Laser	Semiconductor laser, wavelength 650 nm
Frequency range	DVD linear sound : 48kHz sampling 4 Hz to 22 kHz 96kHz sampling 4 Hz to 44 kHz Audio CD : 4Hz to 20 kHz
Signal-to-noise ratio	More than 112 dB
Audio dynamic range	More than 112 dB
Harmonic distortion	Less than 0.001%
Wow and flutter	Below measurable level (less than ± 0.001% (W. PEAK))
Operating conditions	Temperature: 5 °C to 35 °C, Operation status: Horizontal

[Outputs]

Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack x 1
S video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin x 1 (C) 0.286 V (p-p), 75 Ω
Color difference output (interlaced)	(Y) 1.0 V (p-p), 75Ω, negative sync., pin jack x 1 (Cb)/(Cr) 0.7 V (p-p), 75 Ω, pin jack x 2
Color difference output (progressive)	(Y) 1.0 V (p-p), 75Ω, negative sync., pin jack x 1 (Cb,Pb)/(Cr,Pr) 0.7 V (p-p), 75 Ω, pin jack x 2
Audio output (optical)	Optical connector x 1
Audio output (coaxial)	0.5 V (p-p), 75 Ω, pin jack x 1
Audio output (mixed out)	2.0 V (rms), 220 Ω, pin jacks (L, R) x 1
Audio output (5.1ch surround)	2.0 V (rms), 220 Ω, pin jacks x 6
Headphone terminal	32 Ω (10 mW), impedance; more than 8 Ω

[Supplied Accessories]

S video cable	1
Audio /video cable	1
Remote control (SE-R0002)	1
Batteries (AA)	2

* Designs and specifications are subject to change without notice.

TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

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