

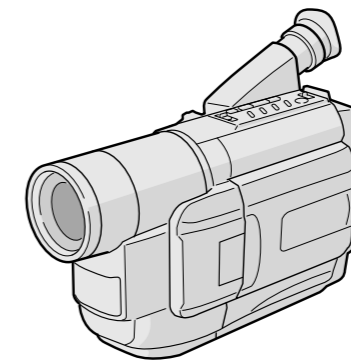
JVC

SCHEMATIC DIAGRAMS

COMPACT VHS CAMCORDER

GR-FXM37EG, SXM607EG/EK

CD-ROM No. SML200011



S VHS VHS
PAL
625

Super VHS
Super VHS ET

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-SXM607EG/FXM37EG)*

Camcorder

General

Format	: S-VHS (GR-SXM607) VHS PAL standard
Power source	: DC 11 V --- (Using AC Adapter) DC 6 V --- (Using battery pack)
Power consumption	
LCD monitor* off,	
viewfinder on	: 4.0 W
LCD monitor* on,	
viewfinder off	: 4.5 W
Video light**	: 3.0 W
* Models equipped with LCD monitor only.	
** GR-SXM607 only.	
Signal system	: PAL-type
Video recording system	
Luminance	: FM recording
Colour	: Converted sub-carrier direct recording Conforms to VHS standard
Cassette	: S VHS / VHS cassette
Tape speed	
SP	: 23.39 mm/sec.
LP	: 11.70 mm/sec.
Recording time (max.)	
SP	: 60 minutes
LP	: 120 minutes (with EC-60 cassette)
Operating temperature	: 0°C to 40°C

Operating humidity	: 35% to 80%
Storage temperature	: -20°C to 50°C
Weight	: Approx. 910 g (GR-SXM607) Approx. 900 g (GR-FXM37)
Dimensions (W x H x D)	: 200 mm x 112 mm x 118 mm
* Models equipped with LCD monitor only.	
Pickup	: 1/4" format CCD
Lens	: F1.6, f = 3.9 mm to 62.4 mm, 16:1 power zoom lens with auto iris and macro control, filter diameter 40.5 mm
Viewfinder	: Electronic viewfinder with 0.5" black/white CRT
White balance adjustment	: Auto/Manual adjustment
LCD monitor (models equipped with LCD monitor only)	: 3" diagonally measured, LCD panel/TFT active matrix system (GR-SXM607) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-FXM37)
Speaker (models equipped with LCD monitor only)	: Monaural
Connectors	
JLIP/EDIT	: ϕ 3.5 mm, 4-pole, mini-head jack (compatible with RC-5325 plug)
Video	: 1 V (p-p), 75 Ω unbalanced, analogue output (via Video output connector)

Audio	: 300 mV (rms), 1 k Ω analogue output (via Audio output connector)
S-Video	: Y : 1 V (p-p), 75 Ω , analogue output C : 0.29 V (p-p), 75 Ω , analogue output

AC Adapter AP-V10EG

Power requirement	: AC 110 V to 240 V \sim , 50 Hz/60 Hz
Power consumption	: 23 W
Output	: DC 11 V --- , 1 A
Dimensions (W x H x D)	: 59 mm x 31 mm x 84 mm
Weight	: Approx. 140 g

Optional Accessories

- Battery Packs BN-V12U, BN-V20U, BN-V400U
- Compact S-VHS (**S VHS**) Cassettes SE-C45/30
- Compact VHS (**VHS**) Cassettes EC-60/45/30
- Remote Control Unit RM-V700U
- Active Carrying Bag CB-V7U
- Cassette Adapter C-P7U

Some accessories are not available in some areas. Please consult your nearest JVC dealer for details on accessories and their availability.

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

JVC

VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

S40894

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No. 86589SCH
November 2000

SECTION 4 CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions

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

1. Units of components on the schematic diagram

Unless otherwise specified.

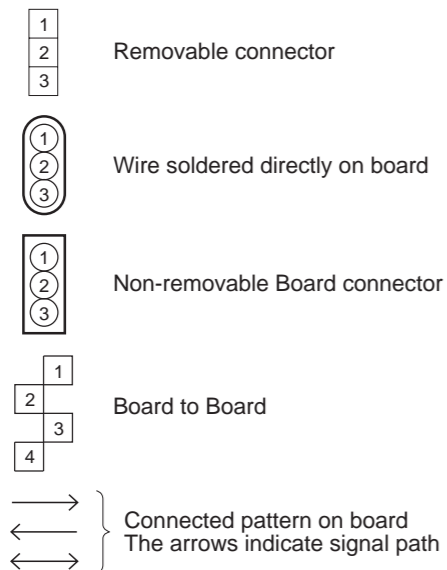
- 1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).
Chip resistors are 1/16 W.
K: K Ω (1000 Ω), M: M Ω (1000K Ω)
- 2) All capacitance values are in μ F, (P: PF).
- 3) All inductance values are in μ H, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high

AUX or AUX(L) : Active at low

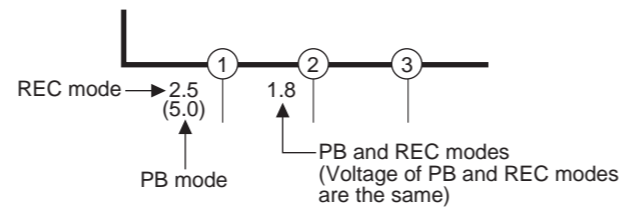
3. Interpreting Connector indications



4. Voltage measurement

- 1) Video circuits
REC : Colour bar signal in SP mode, normal VHS mode
PB : Alignment tape, colour bar SP mode, normal VHS mode
— : Unmeasurable or unnecessary to measure
- 2) Audio circuits
REC : 1KHz, -8 dBs sine wave signal in SP mode, Normal VHS mode
PB : REC then playback it
- 3) Movie Camera circuits
Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

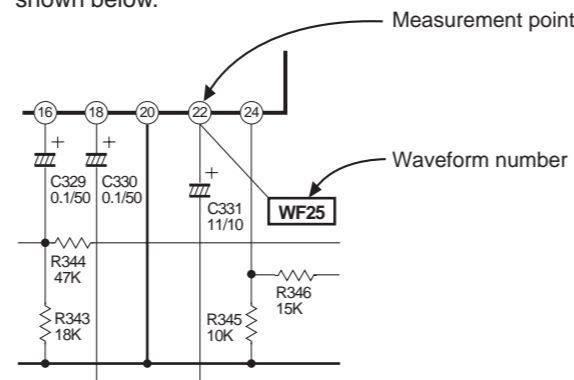
- 4) Indication on schematic diagram
Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



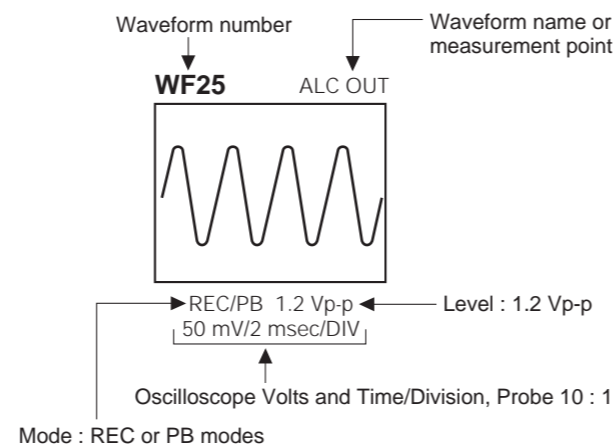
Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Waveform measurement

- 1) Video circuits
REC : Colour bar signal in SP mode, normal VHS mode
PB : Alignment tape, colour bar SP mode, normal VHS mode
- 2) Audio circuits
REC : 1KHz, -8 dBs sine wave signal in SP mode, normal VHS mode
PB : REC then playback it
- 3) Movie Camera circuits
Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode
- 4) Indication on schematic diagram
Waveform indications on the schematic diagram are as shown below.

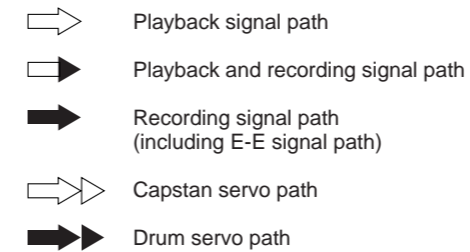


- 5) Waveform indications

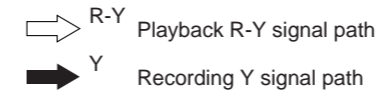


6. Signal path Symbols

The arrows indicate the signal path as follows.

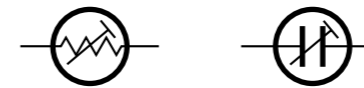


(Example)



7. Indication of the parts for adjustments

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



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

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



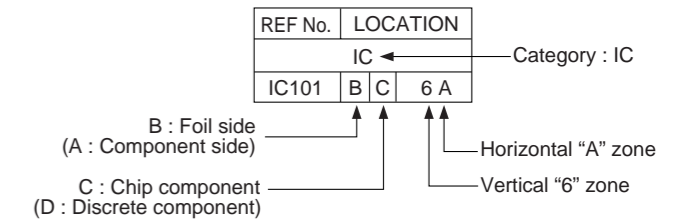
CIRCUIT BOARD NOTES

1. Foil and Component sides

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

2. Parts location guides

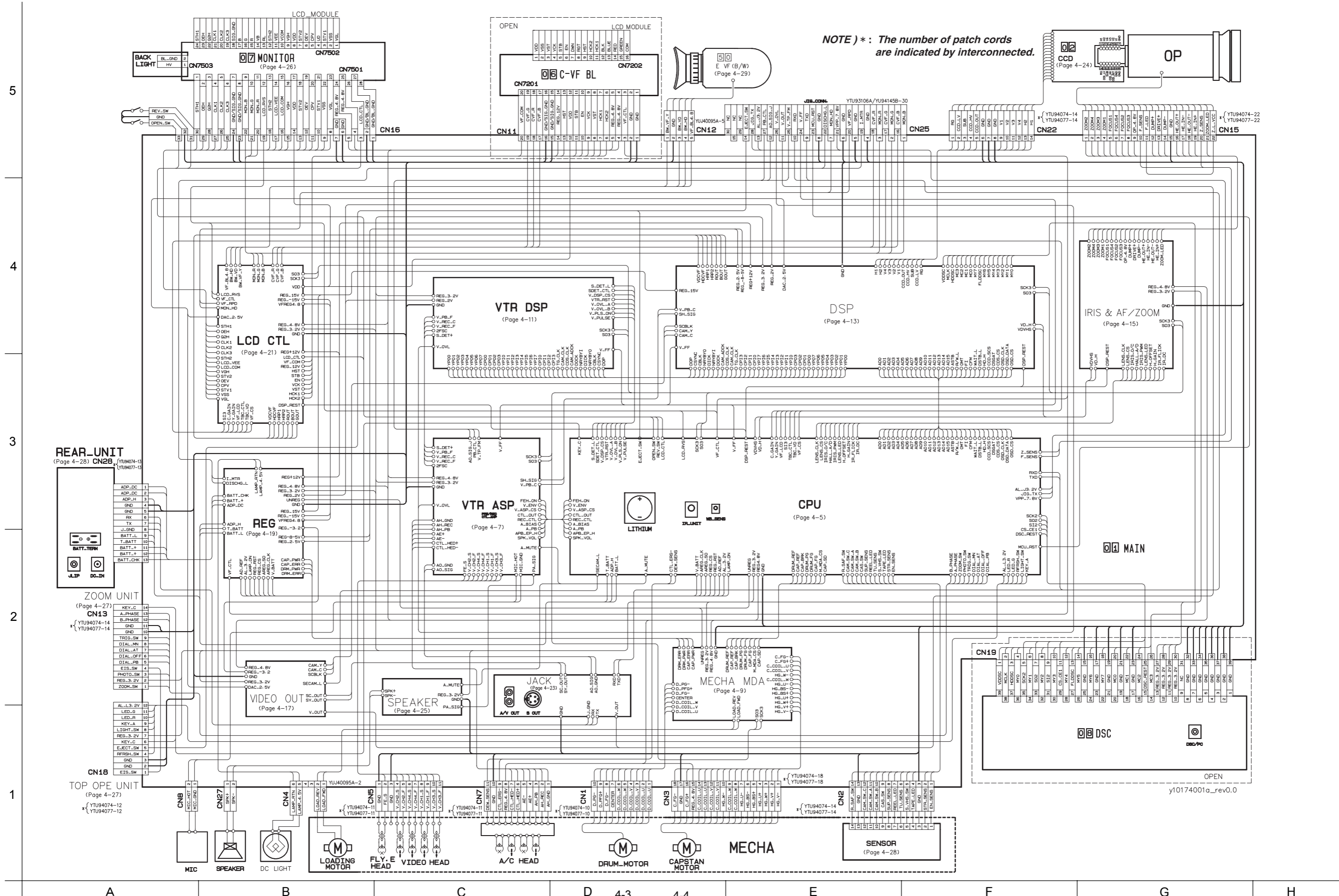
Parts location are indicated by guide scale on the circuit board.



Note:

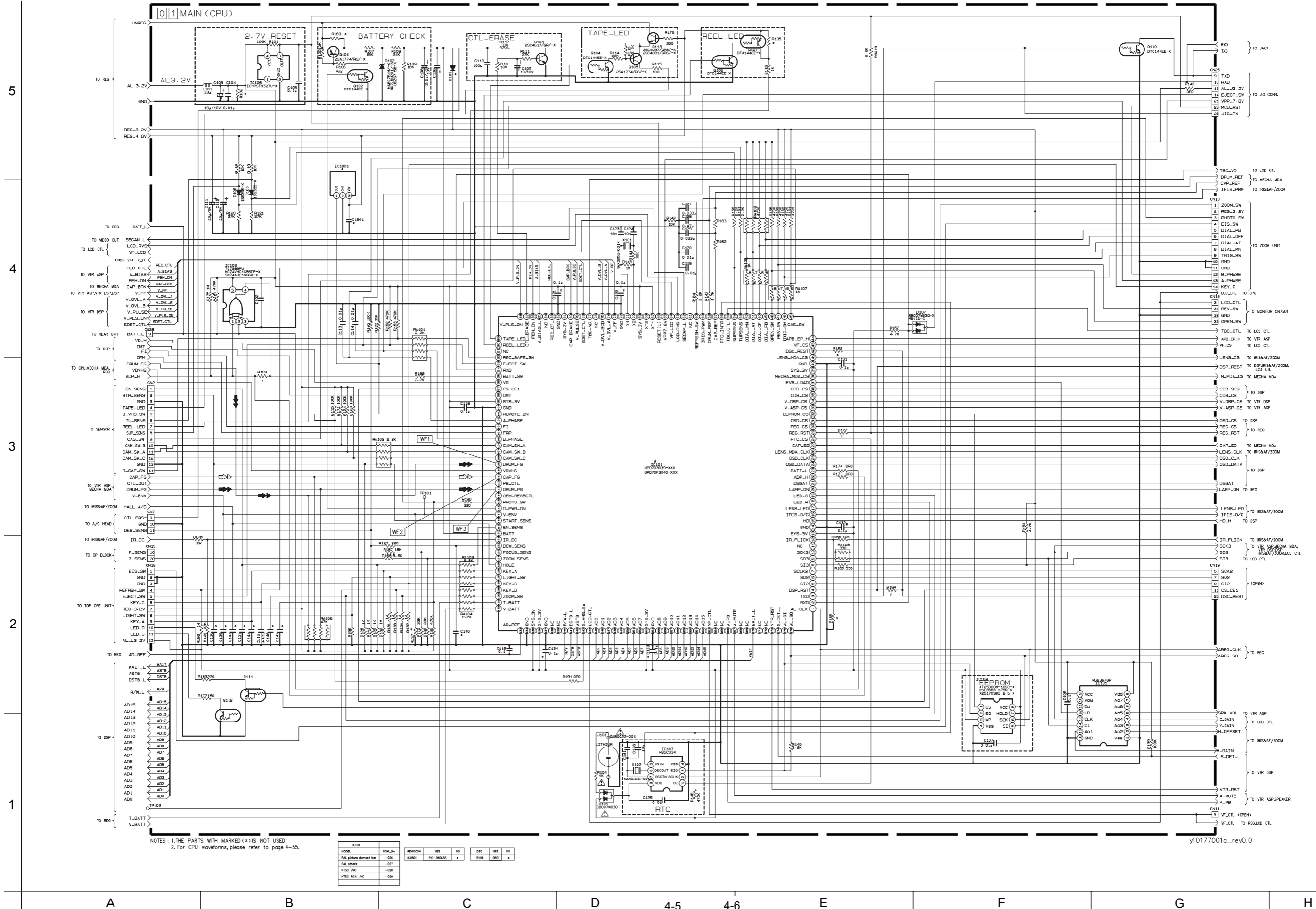
For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

4.1 BOARD INTERCONNECTIONS



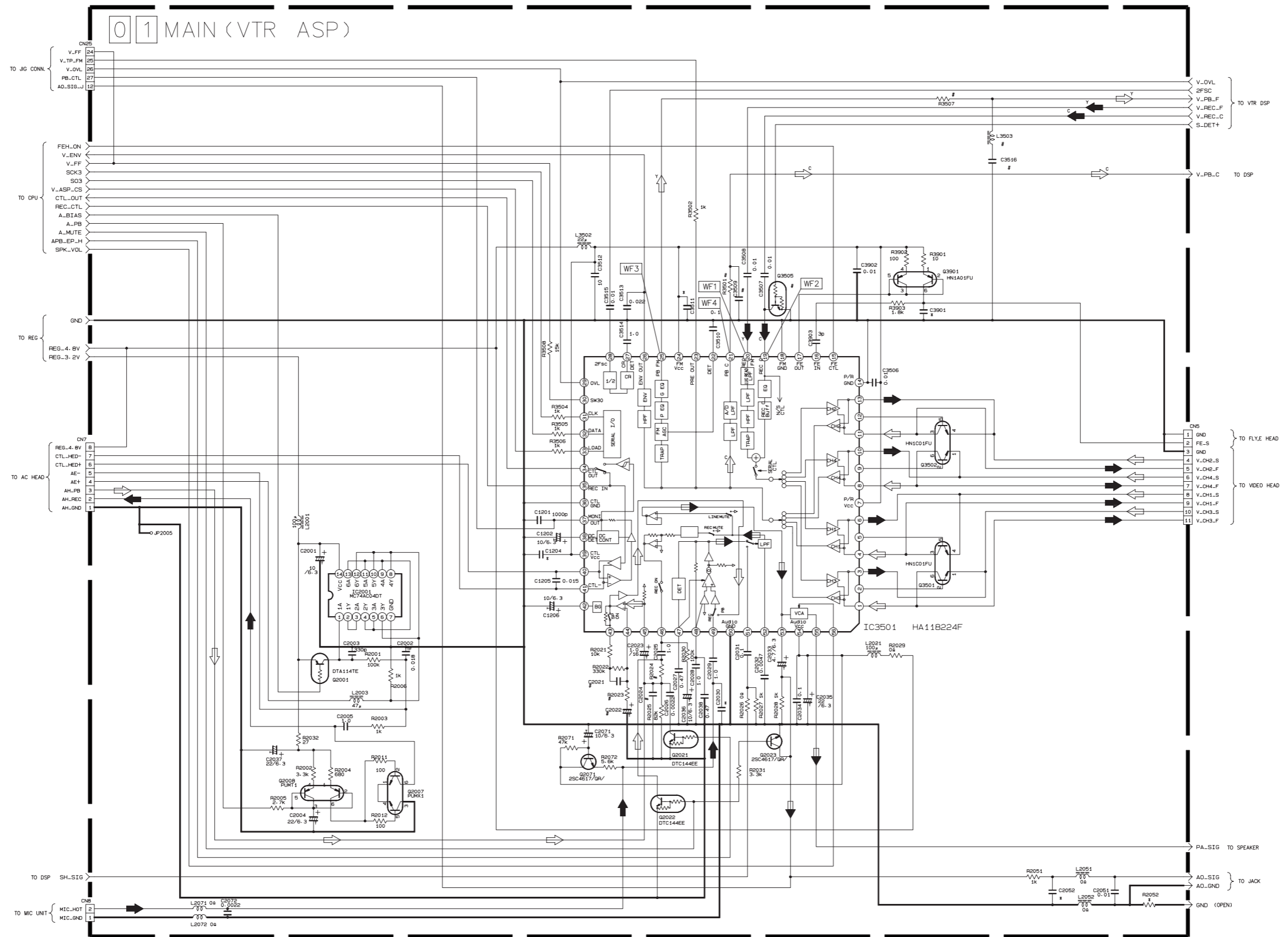
4.2 CPU SCHEMATIC DIAGRAM

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



4.3 VTR ASP SCHEMATIC DIAGRAM

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



NOTES: 1. THE PARTS WITH MARKED (*) IS NOT USED.
 2. For VTR ASP waveforms, please refer to page 4-55.

EXCHANGE PARTS LIST

		[VIDEO]		[AUDIO]	
VHS MODEL	SVHS MODEL	NTSC	PAL	NTSC	PAL
Q3505	*	DTC144	EE	R3507	0 100
		R3507	0 100	R2023	150 82
		L3503	* 5.6	R2024	13k 18k
		C3516	* 10p	C2021	0.0068 0.01
		R3501	0 220	C2022	10µ/6.3 15µ/6.3
		C3509	* 220p	C2024	0.0012 0.001

*... NO WEAR

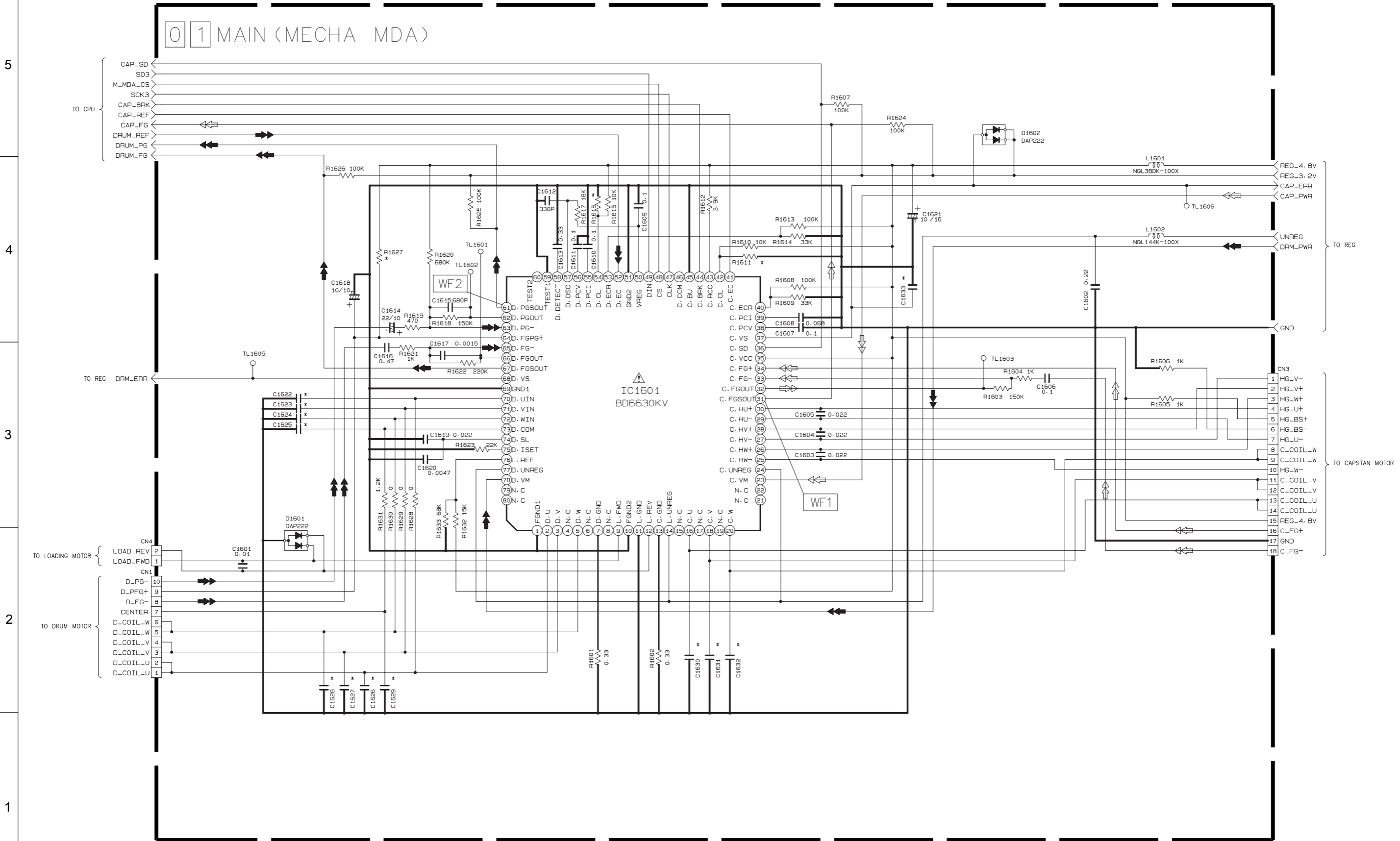
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5
4
3
2
1

A B C D 4-7 4-8 E F G H

4.4 MECHA MDA SCHEMATIC DIAGRAM

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



NOTES: 1. THE PARTS WITH MARKED (*) IS NOT USED.
 2. For MECHA MDA waveforms, please refer to page 4-55.

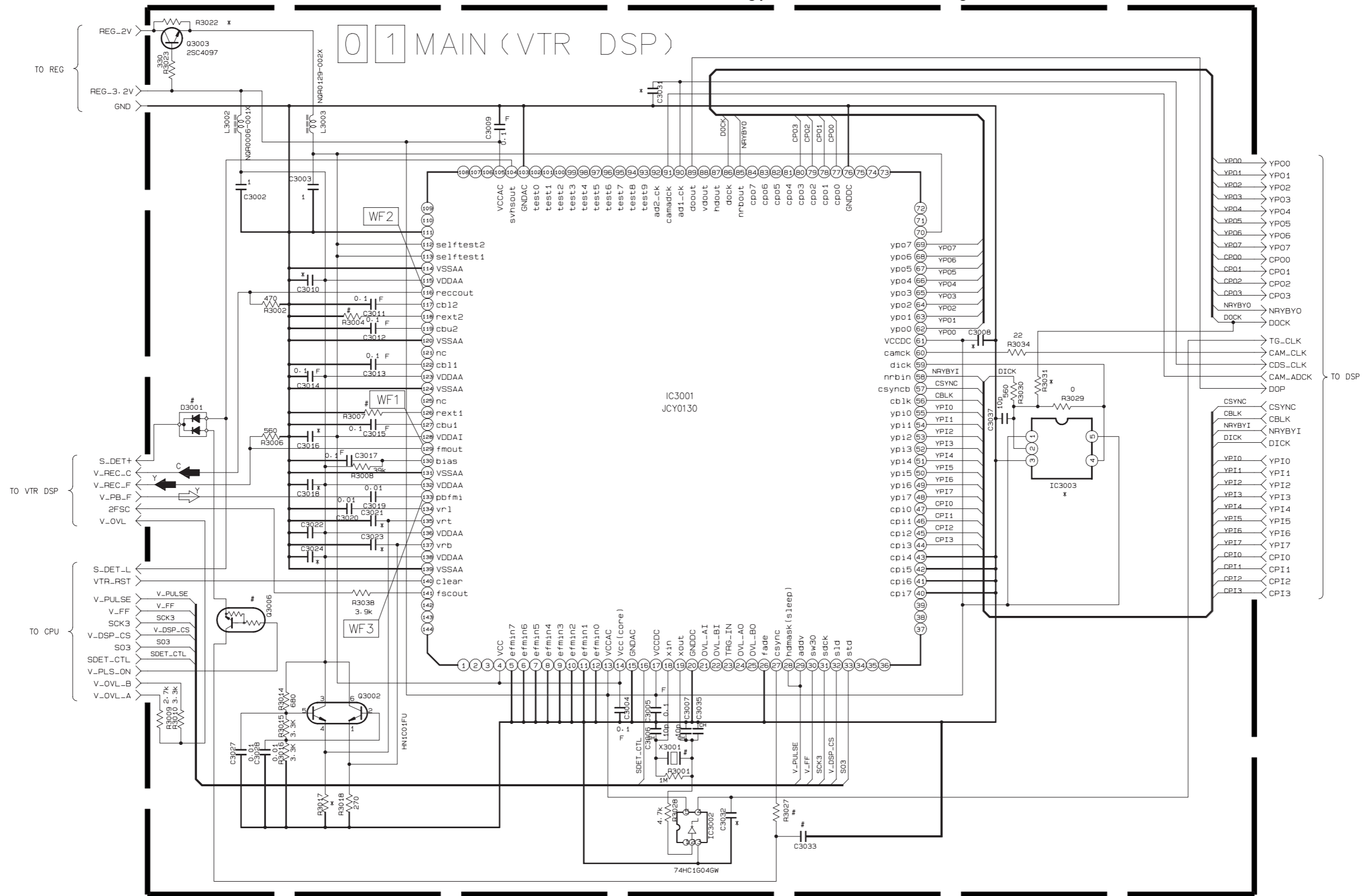
EXCHANGE PARTS LIST.

	NTSC	PAL
C1620	*	0.0047

4.5 VTR DSP SCHEMATIC DIAGRAM

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

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NOTES: 1. THE PARTS WITH MARKED (*) IS NOT USED.
2. For VTR DSP waveforms, please refer to page 4-55.

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EXCHANGE PARTS LIST

	PAL	NTSC
X3001	QAX0596-001 OR QAX0609-001	QAX0565-001 OR QAX0608-001
R3004	33k	27k
R3007	18k	15k

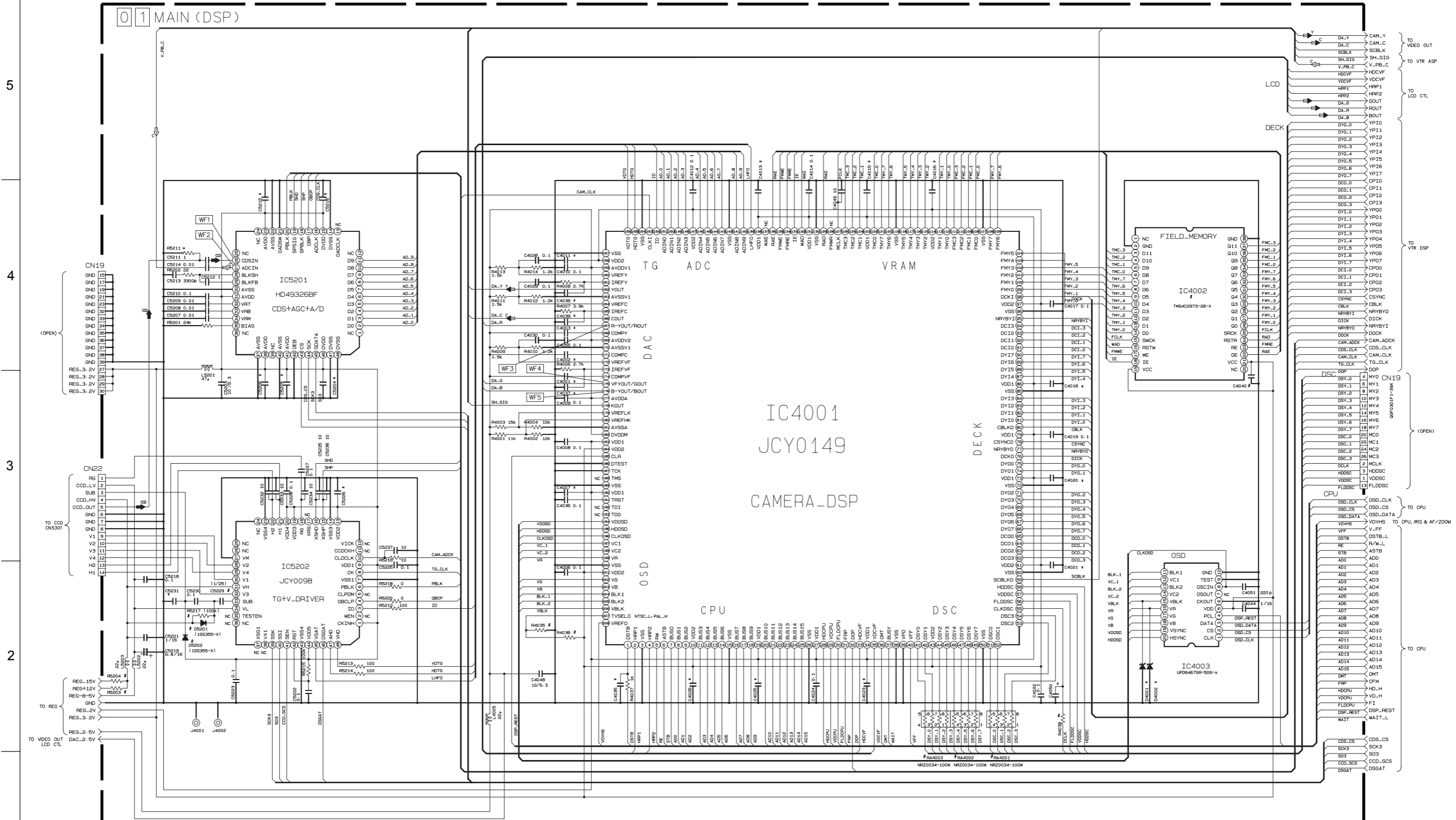
	VHS MODEL	SVHS MODEL
D3001	*	DAN222
Q3006	*	DTC144EE
R3027	*	10k
C3033	*	0.1

*... NO WEAR

A B C D 4-11 4-12 E F G H

4.6 DSP SCHEMATIC DIAGRAM

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



NOTES: 1. THE PARTS WITH MARKED (*) IS NOT USED.
2. For DSP waveforms, please refer to page 4-55.

EXCHANGE PARTS LIST

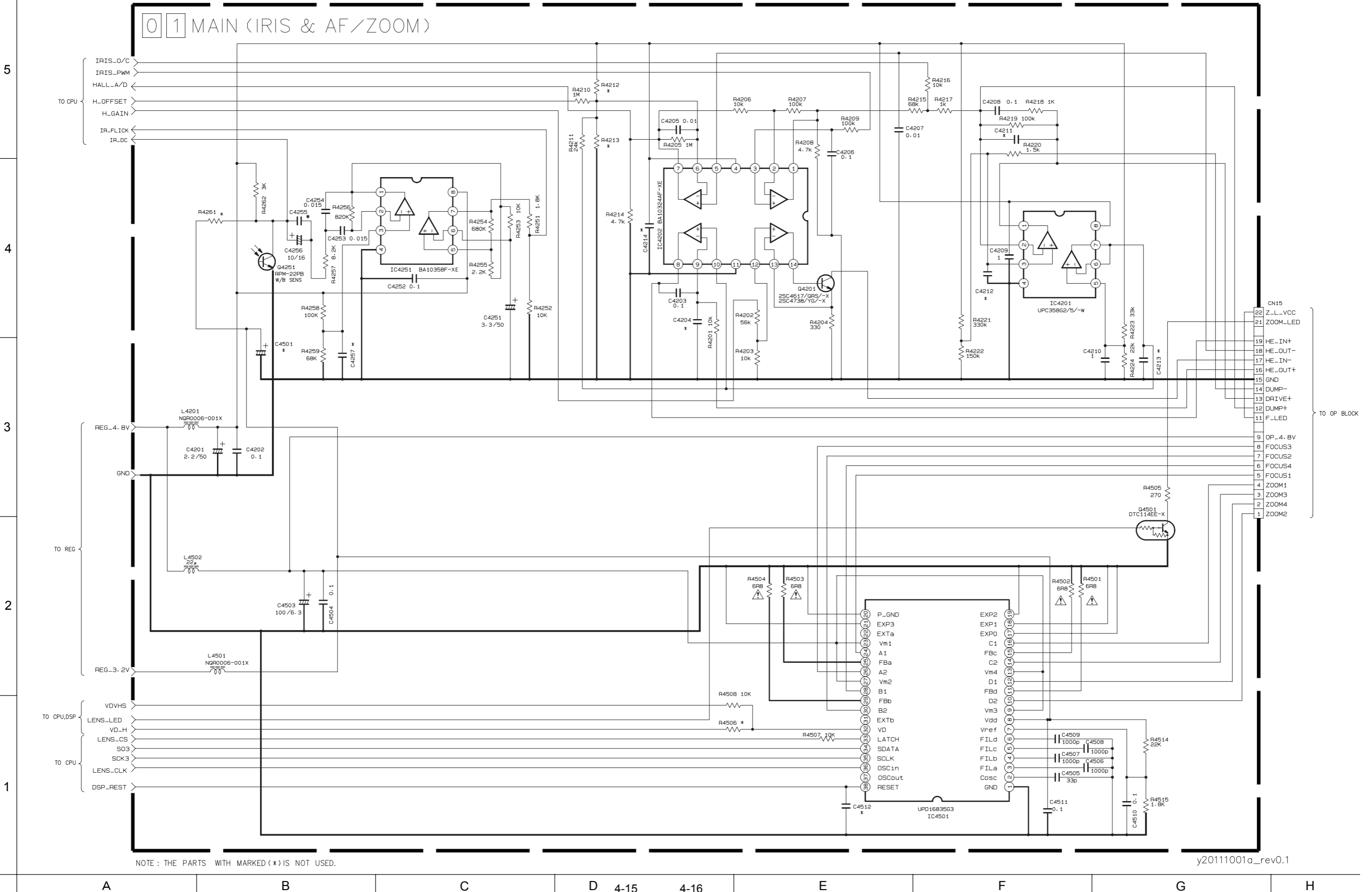
CCD	R4035	R4036	R5203	R5204	D5201	D5202	R5217	C5229
NTSC-L	TC0522P	0	*	*	0	*	1SS395-X	*
	MN391132FT	0	*	*	0	1SS395-X	*	100K 1/25
	MN372132FT	*	0	*	0	1SS395-X	*	100K 1/25
	ICX227AK	*	0	0	*	1SS395-X	*	100K 1/25
	MN39241FT	*	0	0	*	1SS395-X	*	100K 1/25
	ICX229AK	*	0	0	*	1SS395-X	*	100K 1/25

IC4002	C4040	R4036	RA4001	RA4002	RA4003
M146	*	*	*	*	*
M147	TMS4C2973-28-X	1	*	*	*
M148	TMS4C2973-28-X	1	100	NR20034-100W	NR20034-100W

y10168001a_rev.01

4.7 IRIS & AF/ZOOM SCHEMATIC DIAGRAM

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

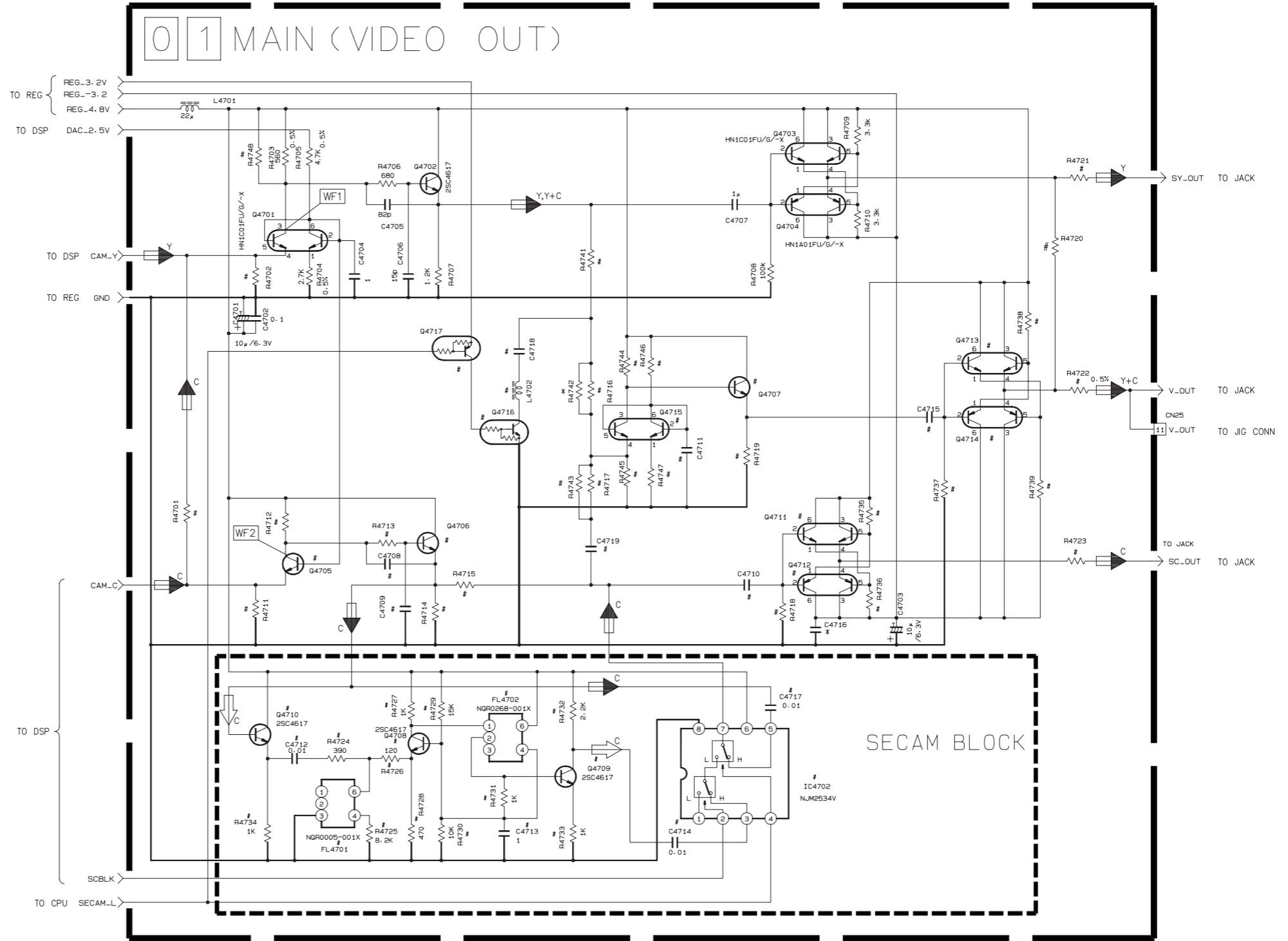


NOTE: THE PARTS WITH MARKED (*) IS NOT USED.

y20111001a_rev0.1

4.8 VIDEO OUT SCHEMATIC DIAGRAM

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



NOTES: 1. THE PARTS WITH MARKED (*) IS NOT USED.
2. For VIDEO OUT waveforms, please refer to page 4-55.

y30116001a_rev0.2

EXCHANGE PARTS LIST

	R4711	R4712	R4713	R4714	C4708	C4709	Q4705	Q4706	R4721	C4710	R4718	R4735	R4736	Q4711	Q4712	R4723	R4741	R4715	C4716	R4717	C4719	R4744	R4745	R4746	R4747	Q4715	C4711	Q4707	R4719	C4715	R4722	Q4713	Q4714	R4738	R4739		
VHS MODEL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SVHS MODEL	150	510 0.5%	680	1.2k	82p	15p	2SC 4617	2SC 4617	75 0.5%	0.01	100k	3.3k	3.3k	HN1C 01FU	HN1A 01FU	68 0.5%	1.5k 0.5%	560 0.5%	620 0.5%	2.2k 0.5%	0.01	2.2k 0.5%	470	2.2k 0.5%	470 0.5%	HN1C 01FU	1	2SC 4617	2.2k	1	100k	HN1C 01FU	HN1A 01FU	3.3k	3.3k		

	R4715	Q4716	Q4717	L4702	C4718	SECAM BLOCK
VHS MODEL	*	*	*	*	*	*
SVHS EG MODEL	*	DTC144 EE	DTA144 EE	56	24p	○
SVHS OTHER MODEL	0Ω	*	*	*	*	*

	R4701	R4702	R4720	R4722	R4743	R4748
VHS MODEL PAL	0Ω	75	0Ω	75 0.5%	*	33k 0.5%
VHS MODEL NTSC	↑	↑	↑	↑	↑	*
SVHS MODEL PAL	*	100	*	68 0.5%	15k 0.5%	0Ω
SVHS MODEL NTSC	↑	↑	↑	↑	22k 0.5%	↑

*... NO WEAR

1

A

B

C

D

4-17

4-18

E

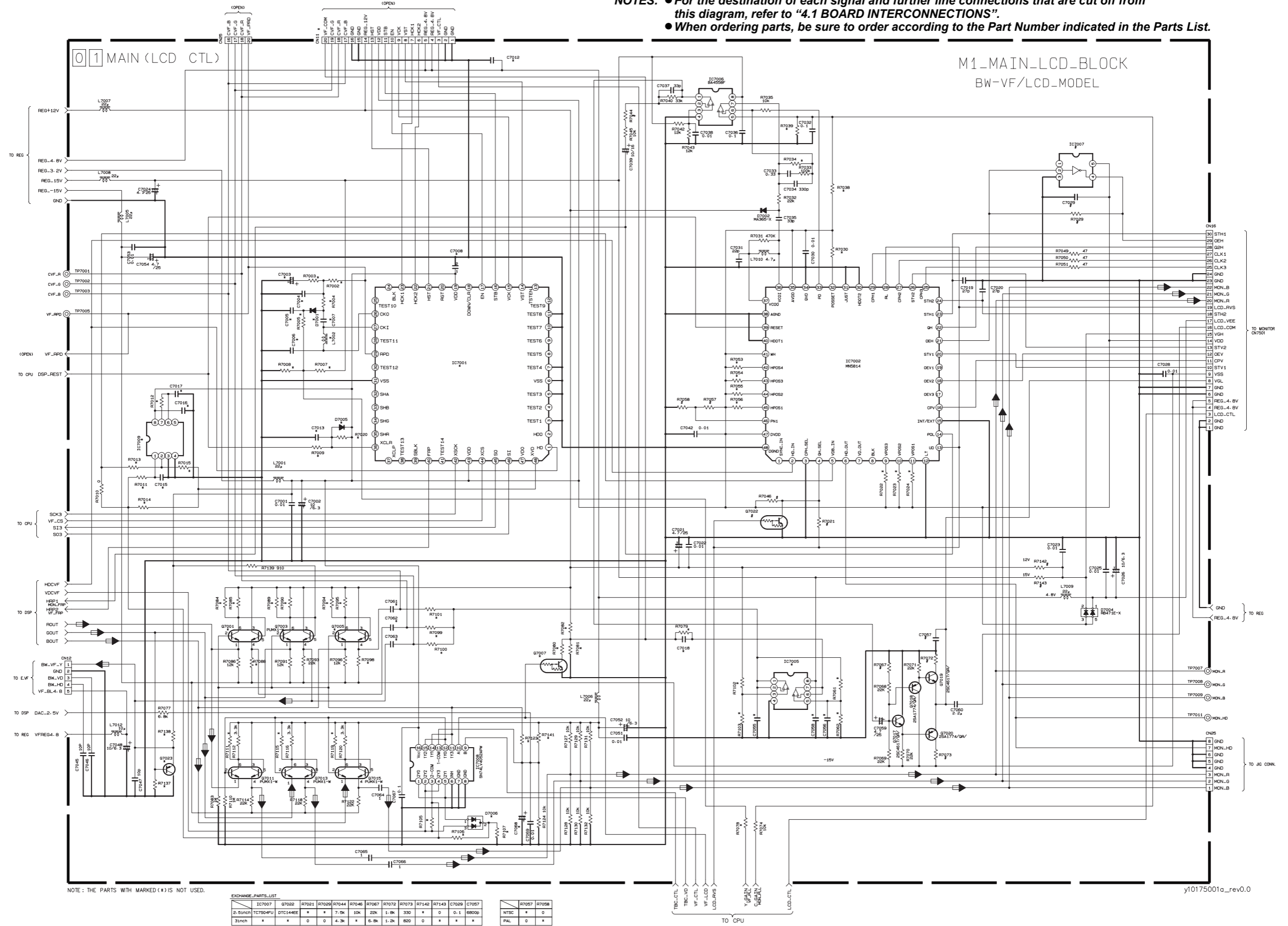
F

G

H

4.10 LCD CTL SCHEMATIC DIAGRAM

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



NOTE: THE PARTS WITH MARKED (*) IS NOT USED.

EXCHANGE PARTS LIST													
IC7007	Q7002	R7021	R7029	R7044	R7046	R7067	R7072	R7073	R7142	R7143	C7029	C7057	
0-51nch	TC7804FU	DTC144EE	*	*	7.5k	10k	22k	1.8k	330	*	0	0-1	6800p
31nch	*	*	0	0	4.3k	*	6.8k	1.2k	820	0	*	*	

R7057	R7058
NTSC	0
PAL	0

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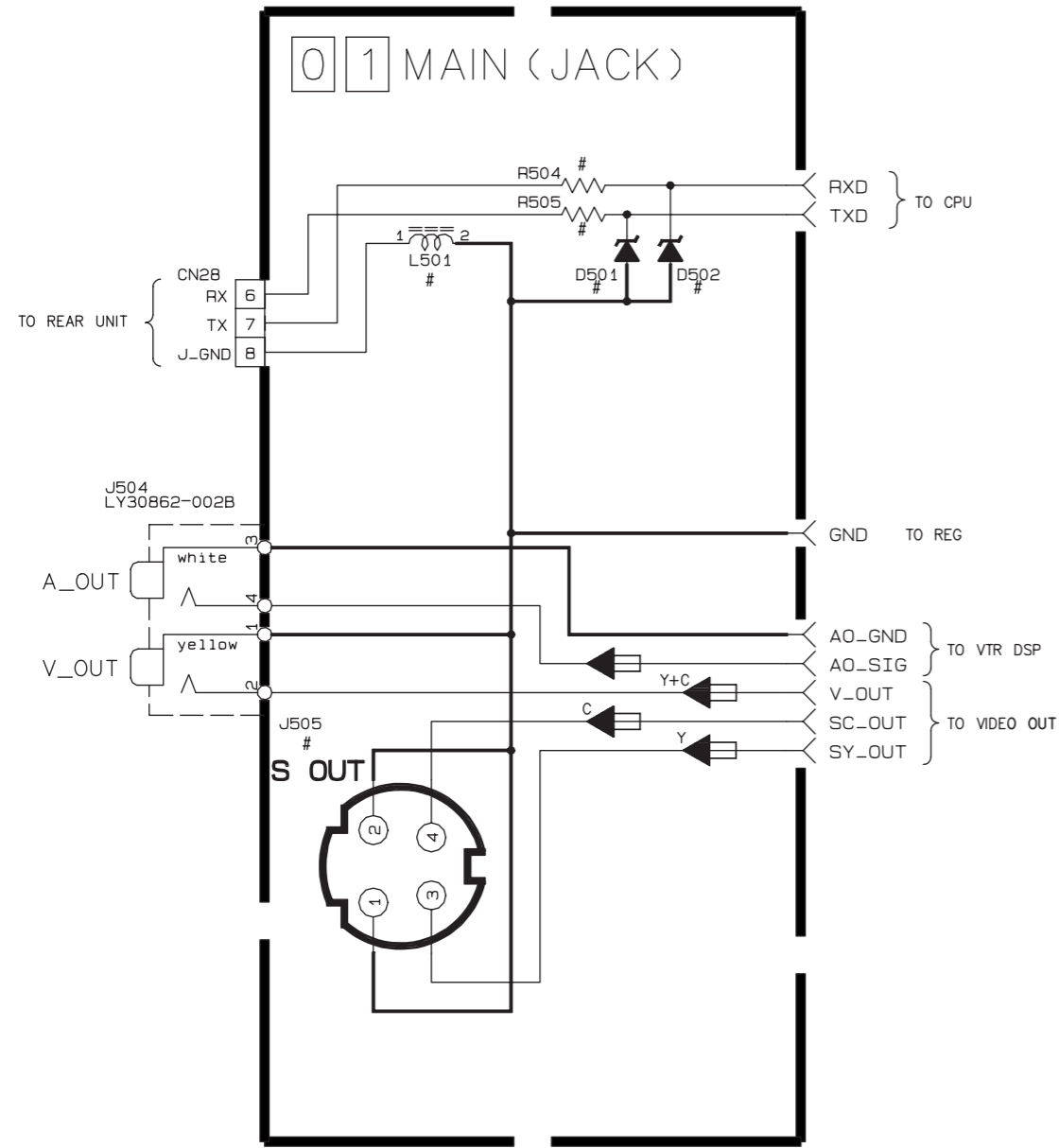
A B C D 4-21 4-22 E F G H

4.11 JACK AND CCD SCHEMATIC DIAGRAMS

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

— JACK —

— CCD —

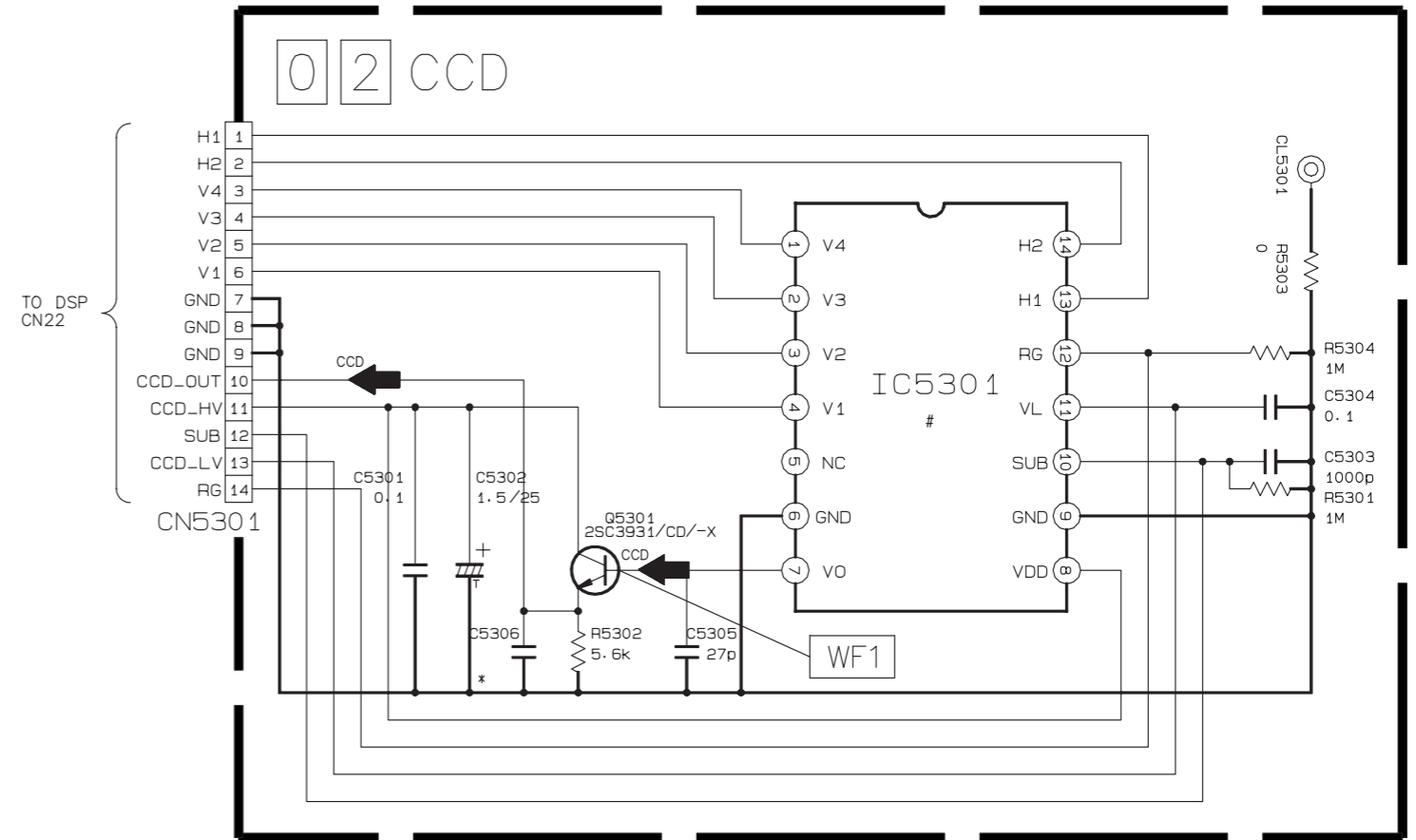


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EXCHANGE PARTS LIST

	JLIP-MODEL	NON JLIP-MODEL	S-VHS MODEL	N-VHS MODEL
L501	NQR0129-002	*	J505	QND0078-001
D501	MAB068-X	*	* : NO WEAR	
D502	MAB068-X	*		
R504	NRSA63J-221X	*		
R505	NRSA63J-331X	*		

Note: IC5301 is incorporated in the CCD base assembly.
 When IC5301 needs replacement, replace the CCD base assembly in whole because it cannot be replaced alone.



NOTES : 1. THE PARTS WITH MARKED (*) IS NOT USED.
 2. For CCD waveform, please refer to page 4-55.

y40065001a_rev0.1

EXCHANGE PARTS LIST

MODEL	CCD PWB ASSY	IC5301	R5301	R5304	C5303	CCD-HV	CCD-LV
NTSC-L	YB20899C-##	TCD5621P	*	*	*	15V	-8V
NTSC-L	YB20899B-##	MN39117FT	1M	*	1000p	15V	-8V
PAL-L	YB20899A-##	MN372132FT	1M	1M	1000p	15V	-8V
PAL-L	YB20899A-##	ICX227AK	1M	1M	1000p	12V	-5V
PAL-H	YB20899A-##	MN39241FT	1M	1M	1000p	15V	-8V
PAL-H	YB20899A-##	ICX229AK	1M	1M	1000p	12V	-5V

5

4

3

2

1

A

B

C

D 4-23

4-24

E

F

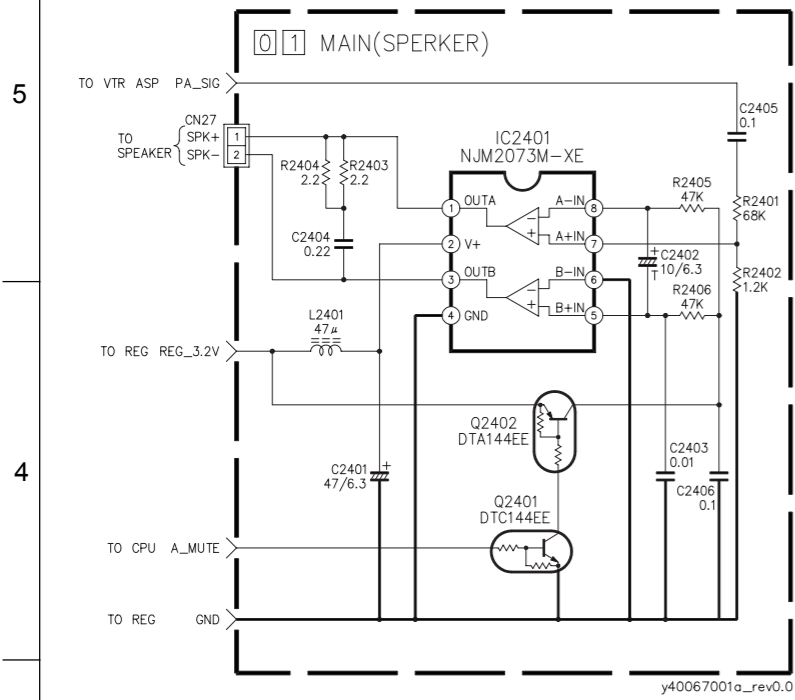
G

H

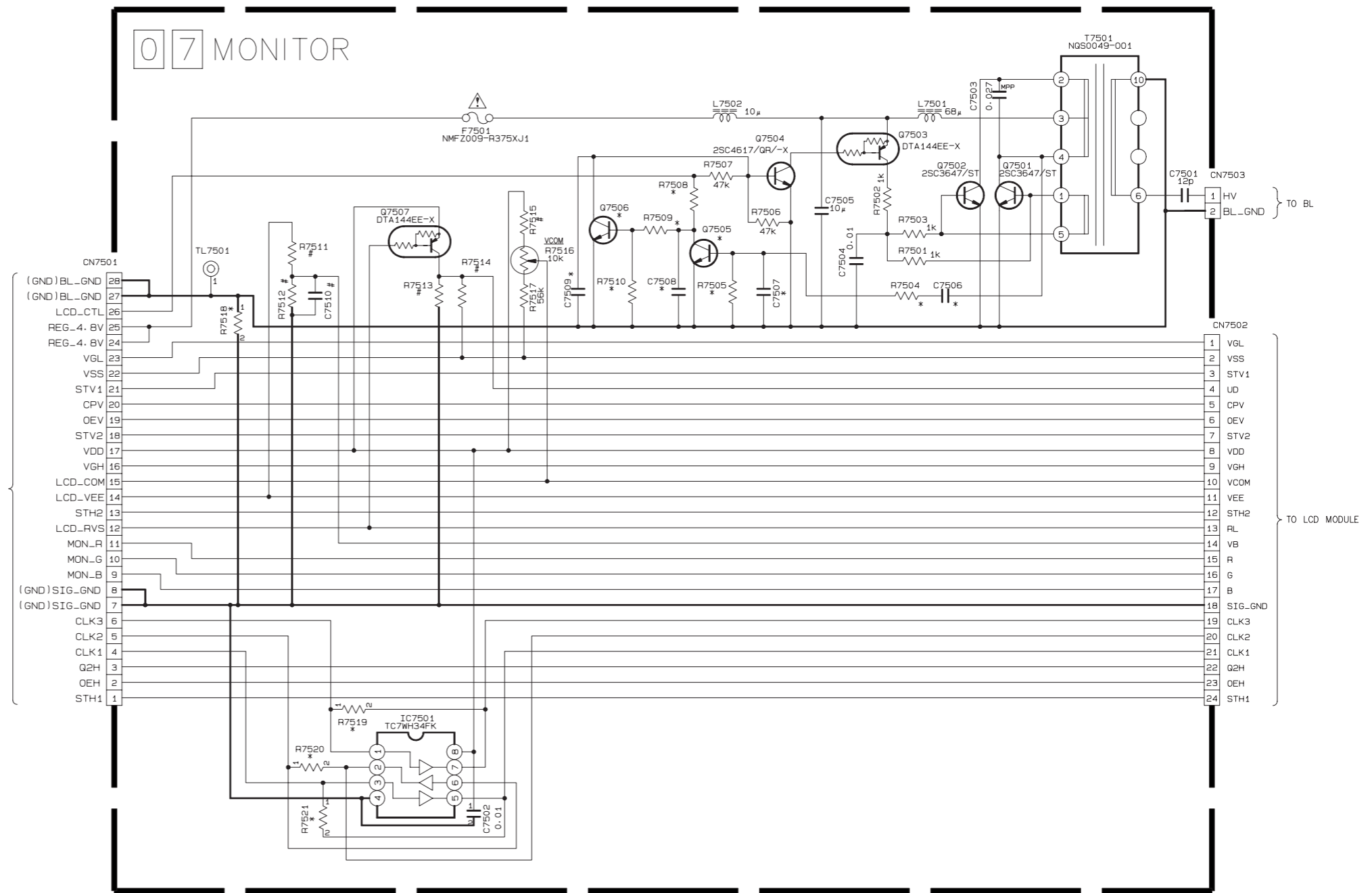
4.12 SPEAKER AND MONITOR SCHEMATIC DIAGRAMS

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

— SPEAKER —



— MONITOR —



NOTE: THE PARTS WITH MARKED (*) IS NOT USED.

EXCHANGE_PARTS_RIST

	R7511	R7512	R7513	R7514	R7515	C7510
2.5inch	*	*	10k	*	3k	*
3inch	22k	22k	*	33k	5.6k	0.01

5

4

3

2

1

A

B

C

D

4-25

4-26

E

F

G

H

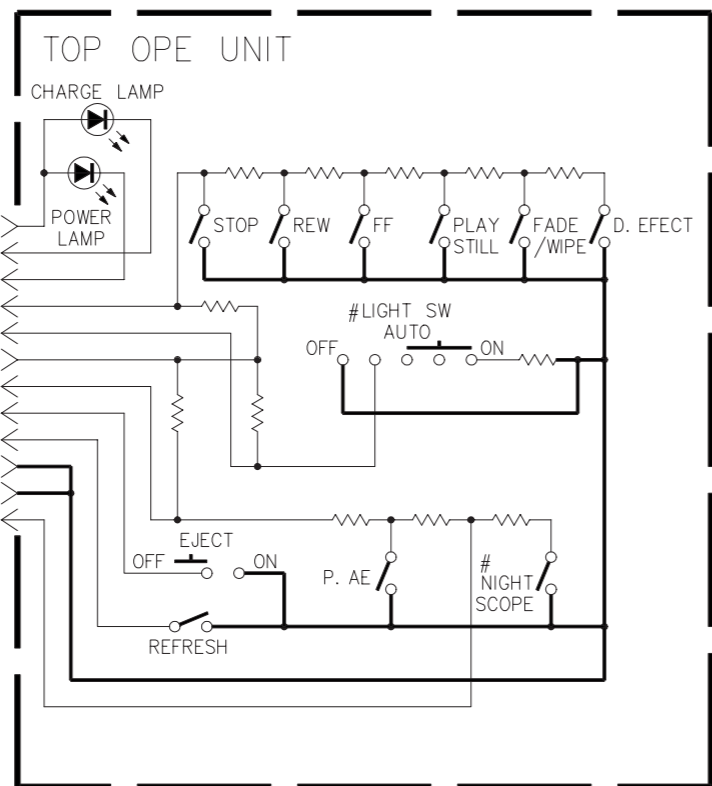
4.13 TOP OPE UNIT, ZOOM UNIT, REAR UNIT AND SENSOR SCHEMATIC DIAGRAMS

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

— TOP OPE UNIT —

5

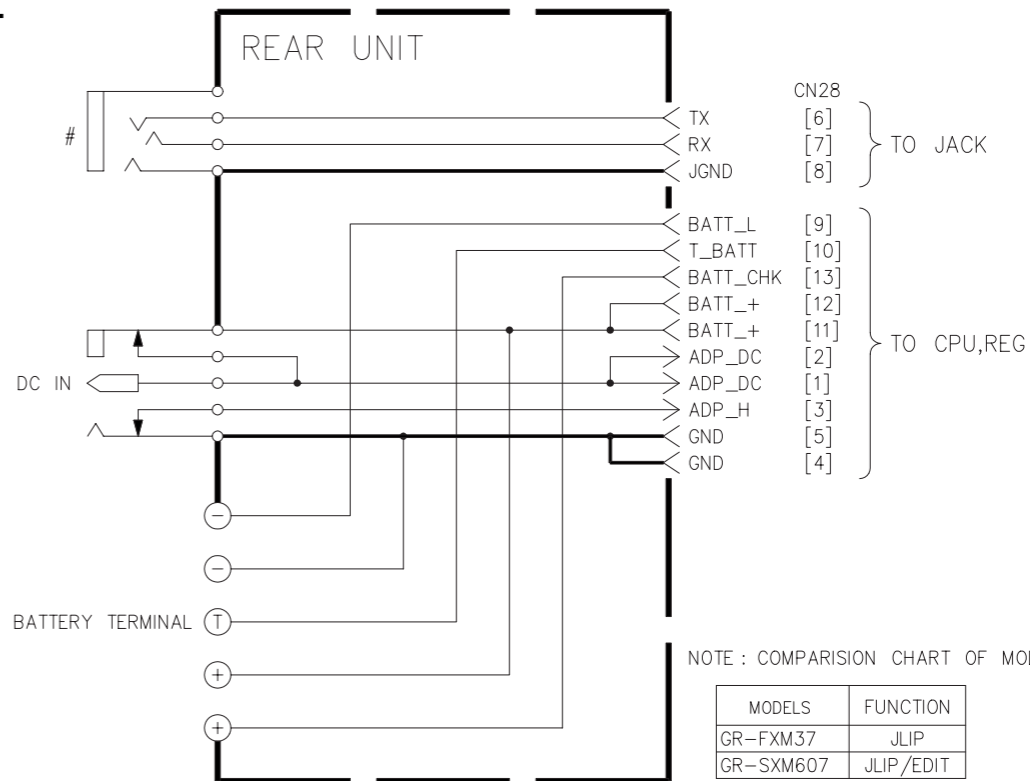
4



NOTE : COMPARISON CHART OF MODELS & MARKS (#).

FUNCTION \ MODELS	GR-FXM37	GR-SXM607
LIGHT SW	NOT USED	USED
NIGHT SCOPE	NOT USED	USED

— REAR UNIT —



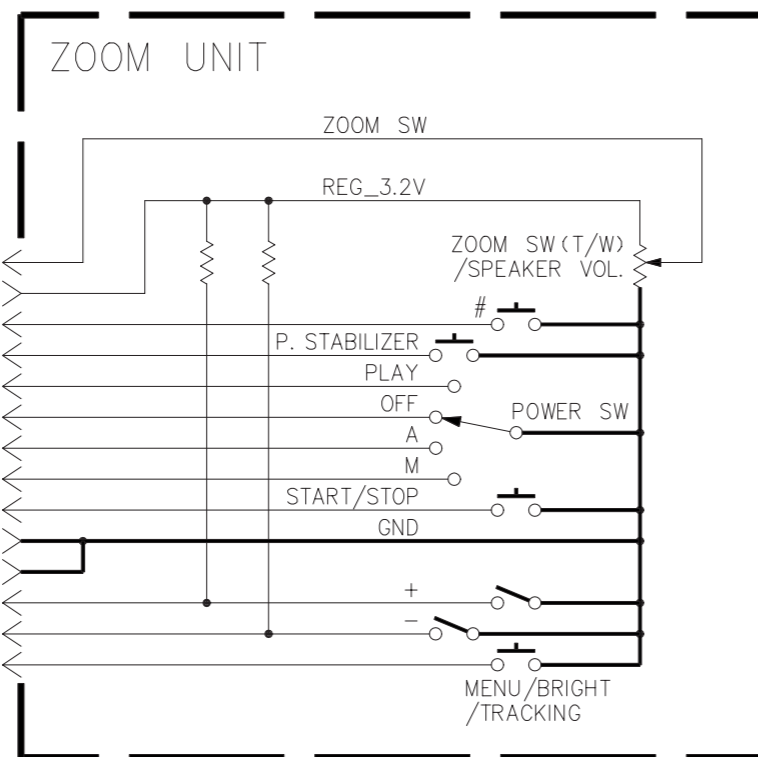
NOTE : COMPARISON CHART OF MODELS & M

MODELS	FUNCTION
GR-FXM37	JLIP
GR-SXM607	JLIP/EDIT

— ZOOM UNIT —

2

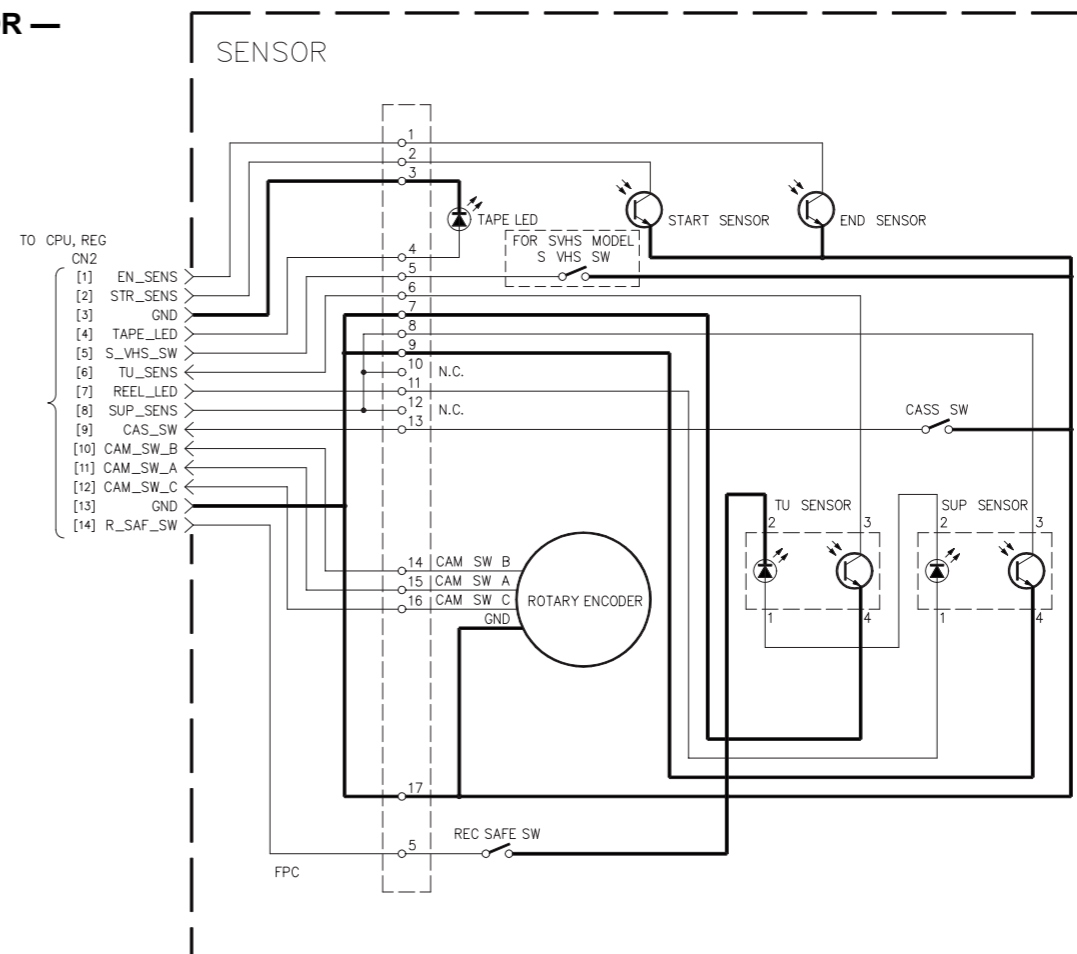
1



NOTE : COMPARISON CHART OF MODELS & MARKS (#).

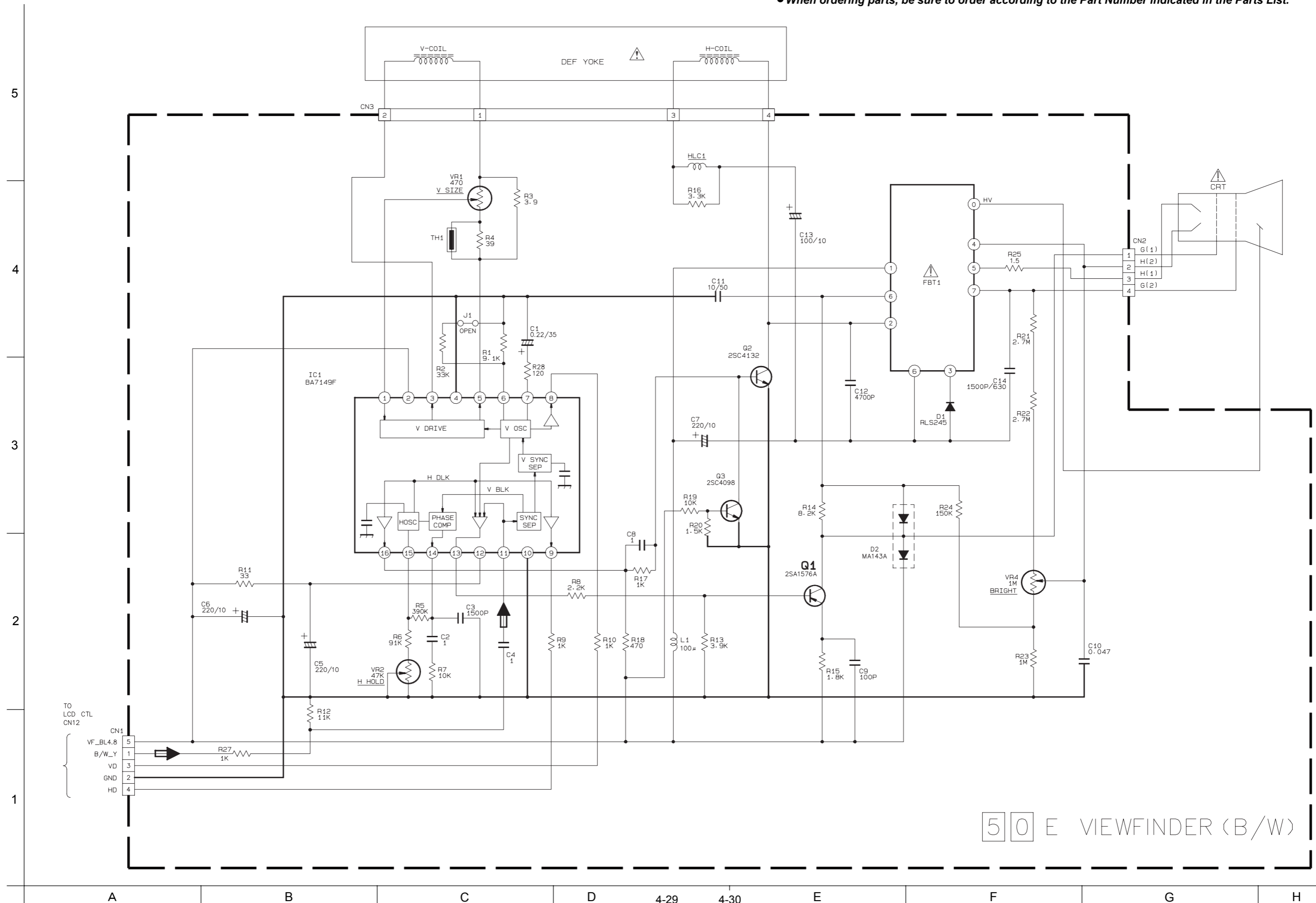
MODELS	FUNCTION
GR-FXM37	5 SEC REC
GR-SXM607	SNAP SHOT

— SENSOR —



4.14 ELECTRONIC VIEWFINDER SCHEMATIC DIAGRAM

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

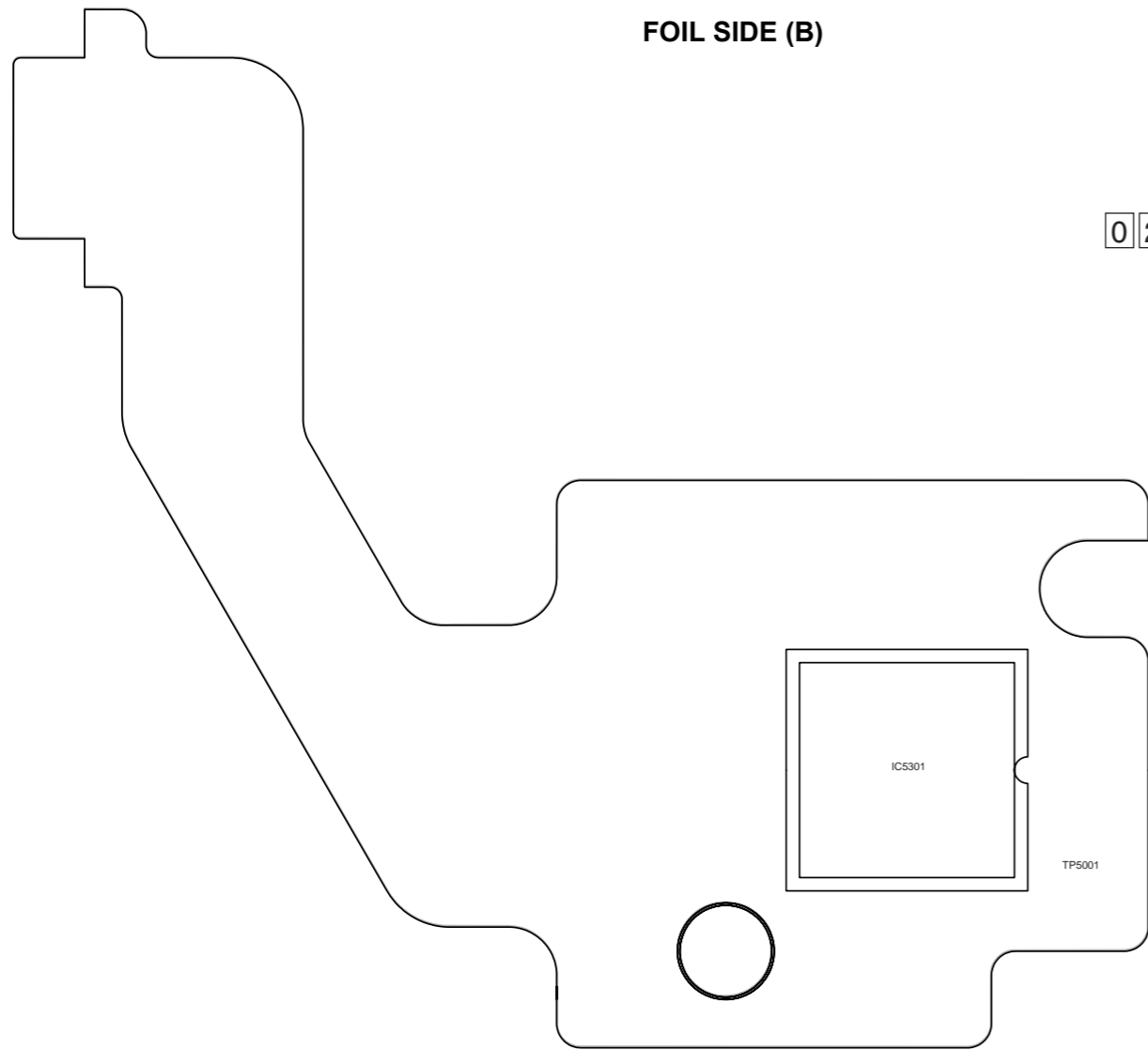


50 E VIEWFINDER (B/W)

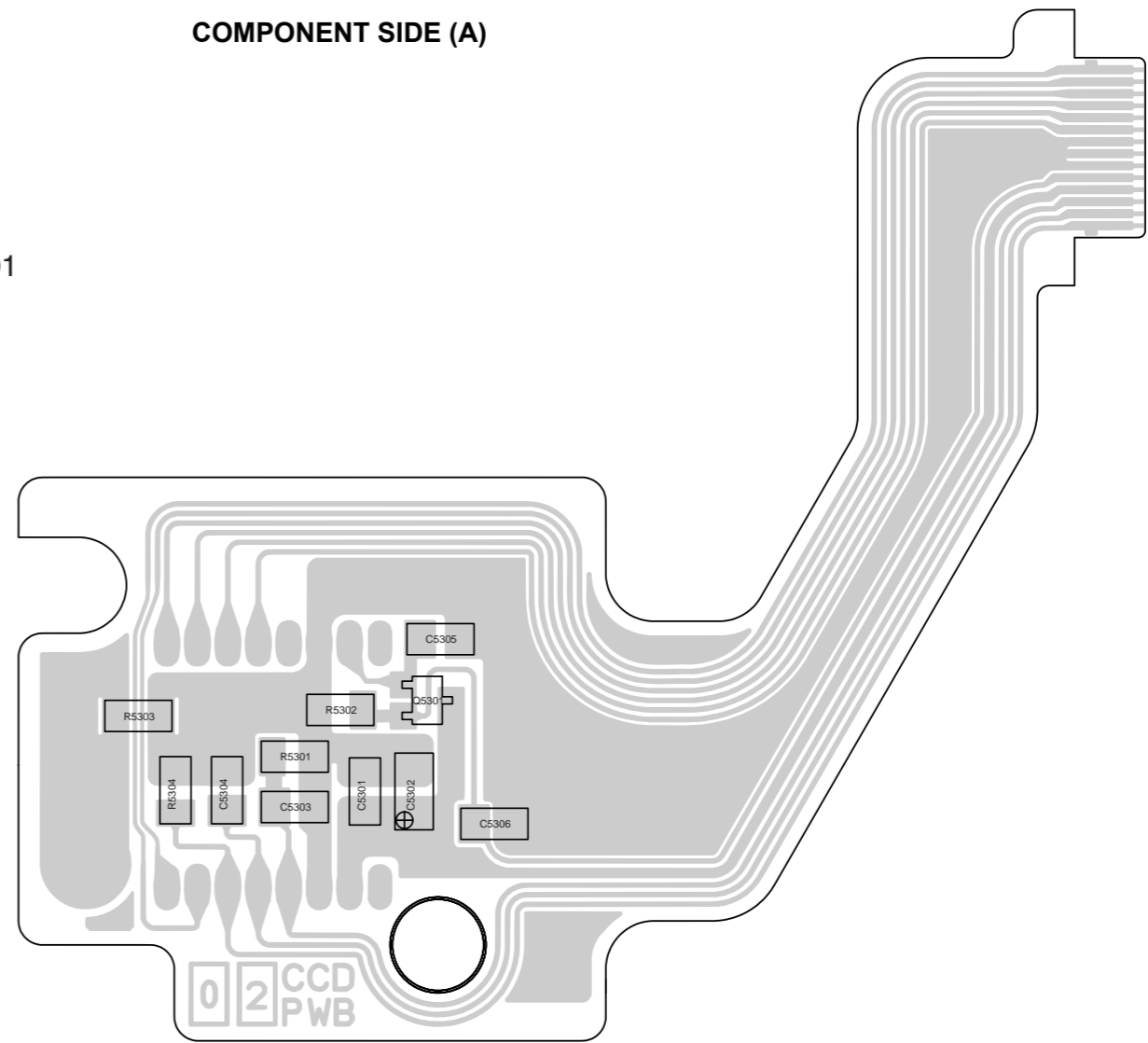
COMPONENT PARTS LOCATION GUIDE <MAIN > YB10310-01-01

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR													
C102	A C 5B	C2032	B C 5A	C4050	B C 4B	C6012	A C 2A	C7046	B C 3D	IC4201	A C 7C	Q4701	A C 5D
C103	A C 4B	C2033	A C 4A	C4051	A C 6C	C6013	A C 2A	C7047	A C 3D	IC4202	A C 7C	Q4702	A C 6C
C104	A C 5B	C2034	B C 5A	C4055	B C 6D	C6014	A C 2A	C7048	B C 2C	IC4251	B C 7C	Q4703	A B C 1C
C105	B C C 5A	C2035	B C C 5A	C4201	A C 7B	C6015	A C 2A	C7051	A C 2C	IC4501	B C 7B	Q4704	B C C 1C
C106	B C C 7B	C2036	B C C 5A	C4202	A C 7B	C6016	A C 2A	C7052	A C 2C	IC4702	A C 2B	Q4705	A C C 5C
C107	B C C 6A	C2037	A C C 6D	C4203	A C 7C	C6017	B C 2B	C7053	B C 3C	IC5201	B C 5D	Q4706	A C C 6C
C108	B C C 7A	C2038	A C C 5A	C4204	A C 7C	C6018	B C 2B	C7054	B C 3C	IC5202	B C 5E	Q4707	B C C 1C
C109	A C C 6B	C2051	B C C 1C	C4205	B C 7C	C6019	A C 2B	C7055	B C 3D	IC6001	A C 2B	Q4708	A C C 2C
C110	A C C 6C	C2052	B C C 1C	C4206	A C 7C	C6101	B C 3B	C7056	B C 3D	IC7001	B C 4D	Q4709	A C C 2B
C111	A C C 6A	C2071	B C C 5A	C4207	A C 7C	C6102	B C 3B	C7057	B C 2C	IC7002	A C 2C	Q4710	A B C 2B
C112	A C C 6A	C2072	A C C 5A	C4208	A C 7C	C6105	B C 3B	C7058	B C 3D	IC7005	B C 3D	Q4711	B C C 1D
C113	A C C 4D	C2401	A C C 6C	C4209	B C 7C	C6106	A C 2B	C7059	B C 2C	IC7006	B C 2C	Q4712	B C C 1D
C114	A C C 4D	C2402	A C C 6C	C4210	B C 7C	C6107	A C 3B	C7060	B C 2C	IC7007	A C 2C	Q4713	B C C 1C
C115	A C C 6B	C2403	A C C 6C	C4211	A C 7C	C6108	A C 5C	C7061	B C 3C	IC7008	A C 3C	Q4714	B C C 1C
C116	B C C 4D	C2404	B C C 6B	C4212	A C 7C	C6110	B C 2B	C7062	B C 3C	IC7009	A C 3D	Q4715	B C C 1C
C118	B C C 6A	C2405	B C C 6C	C4213	B C 7C	C6201	B C 3B	C7063	B C 3C	COIL			
C119	B C C 2A	C2406	B C C 6C	C4214	B C 7C	C6202	B C 4B	C7064	B C 3C				
C120	B C C 2A	C3002	B C C 4C	C4251	A C 7B	C6203	A C 4B	C7065	B C 3C	L101	A C 4B	Q6101	A C C 5B
C121	B C C 6A	C3003	B C C 4C	C4252	B C 7C	C6205	B C 4B	C7066	B C 3C	L501	A C 1A	Q6106	A C C 3C
C122	B C C 6A	C3004	B C C 4C	C4253	B C 7C	C6210	B C 2B	C7067	A C 3C	L1601	A C 6D	Q6107	A C C 5C
C123	A C C 6A	C3006	A B C 3C	C4254	B C 7C	C6301	B C 3B	C7068	B C 3C	L1602	A C 7D	Q6201	B C C 3B
C124	A C C 6A	C3007	A B C 4B	C4255	A C 6C	C6302	B C 3B	C7069	B C 3C	L2001	A C 6C	Q6301	B C C 3B
C125	B C C 6A	C3008	B C C 5D	C4256	A C 6C	C6303	A C 3B	CONNECTOR					
C126	B C C 7A	C3009	A C C 4D	C4501	A C 7B	C6305	B C 3B	CN1	A C 5A	L2002	B C 5A	Q6306	B C C 7A
C127	B C C 5A	C3010	B C C 4C	C4503	A C 7B	C6306	A C 3B	CN2	A C 2A	L2021	B C 1C	Q6307	B C C 3D
C128	B C C 6A	C3011	A C C 3C	C4504	B C 7B	C6307	A C 7A	CN3	A C 6E	L2051	B C 1C	Q6308	B C C 2D
C129	B C C 5A	C3012	A C C 3C	C4505	B C 7B	C6308	A C 3C	CN4	A C 7A	L2052	B C 1C	Q6401	B C C 3A
C131	A C C 5A	C3013	A C C 3C	C4506	B C 7B	C6310	B C 2B	CN5	A C 4A	L2071	A C 5A	Q6501	B C C 4A
C132	B C C 5B	C3014	A C C 4C	C4507	B C 7B	C6310	B C 2B	CN6	A C 4A	L2072	A C 5A	Q6601	B C C 3A
C133	A C C 5B	C3015	B C C 3C	C4508	B C 7B	C6401	B C 3A	CN7	A C 6D	L2401	A C 6C	Q6606	A C C 3A
C134	B C C 6B	C3016	B C C 4C	C4509	B C 7B	C6402	B C 3A	CN8	A C 5A	L3002	B C 4C	Q6607	A C C 3A
C135	A C C 6B	C3017	B C C 4C	C4510	B C 7B	C6403	A C 4A	CN11	A C 3D	L3003	B C 4C	Q6608	A C C 2A
C136	A C C 2A	C3018	B C C 4C	C4511	B C 7B	C6406	A C 1B	CN12	B C 3D	L3502	B C 4A	Q6621	B C C 3B
C137	A C C 1A	C3019	A C C 3C	C4512	B C 7B	C6410	A C 1A	CN13	A C 4D	L3503	A C 4B	Q6622	B C C 3C
C138	B C C 7A	C3020	A C C 3C	C4701	A C 1C	C6501	B C 4A	CN15	A C 7B	L4005	A C 5C	Q6701	B C C 3A
C140	B C C 7A	C3021	B C C 4C	C4702	A C 1C	C6502	B C 4A	CN16	A C 2D	L4201	A C 7B	Q6702	A C C 3A
C141	B C C 7A	C3022	B C C 4C	C4703	A C 1C	C6503	A C 4B	CN18	A C 5D	L4501	A C 7B	Q6801	B C C 2B
C143	B C C 7C	C3023	B C C 4C	C4704	A C 5C	C6506	B C 2A	CN19	A C 5B	L4502	A C 7B	Q6811	B C C 2A
C144	B C C 4D	C3024	B C C 4C	C4705	A C 5C	C6601	B C 3A	CN22	A C 6E	L4701	A C 6C	Q7001	A C C 3C
C146	A C C 4D	C3027	B C C 4C	C4706	A C 5D	C6602	B C 3A	CN25	A C 2A	L4702	A C 1C	Q7003	A C C 3C
C147	A C C 4D	C3028	B C C 4C	C4707	B C 1D	C6603	B C 3A	CN27	A C 6C	L5201	B C 5D	Q7005	A C C 3D
C1201	A C C 4A	C3031	A C C 4D	C4708	A C 5C	C6605	B C 2A	CN28	A C 1A	L5202	B C 6E	Q7007	A C C 3C
C1202	B C C 4B	C3032	A C C 4B	C4709	A C 5C	C6606	A C 3A	DIODE					
C1204	B C C 4B	C3033	A C C 4B	C4710	B C 1D	C6607	A C 3A	D101	B C 6A	L6001	B C 2A	Q7013	A C C 3C
C1205	B C C 5B	C3035	B C C 4B	C4711	B C 1C	C6609	B C 2B	D102	B C 7A	L6002	B C 2A	Q7015	A C C 3C
C1206	B C C 5B	C3037	A B C 4D	C4712	B C 2B	C6610	B C 2B	D103	B C 7A	L6101	A C 3B	Q7017	B C C 2C
C1601	B C C 7D	C3506	A C C 4A	C4713	A C 2C	C6616	B C 2A	D105	A C 2A	L6106	A C 2B	Q7018	B C C 2C
C1602	B C C 7D	C3507	A C C 4A	C4714	A C 2B	C6621	B C 3B	D106	A C 1A	L6107	B C 2B	Q7019	B C C 2C
C1603	B C C 6D	C3508	A C C 4A	C4715	B C 1C	C6622	B C 3B	D107	A C 2A	L6201	A C 4B	Q7020	B C C 2C
C1604	B C C 6D	C3509	A C C 5D	C4716	B C 1C	C6700	B C 3A	D501	A C 1A	L6301	A C 3B	Q7022	A C C 3C
C1605	B C C 6D	C3510	A C C 4A	C4717	B C 2B	C6701	A C 3A	D502	A C 1A	L6306	A C 3B	Q7023	B C C 2C
C1606	A C C 7D	C3511	B C C 4A	C4718	A C 1C	C6702	B C 2A	D1601	B C 7D	L6401	A C 3A	RESISTOR	
C1607	B C C 6E	C3512	A C C 4A	C4719	A C 1C	C6705	A C 2A	D1602	A C 7E	L6501	A C 4A	R101	B C 5A
C1608	B C C 6E	C3513	A B C 5A	C5203	B C 5D	C6707	B C 2B	D3001	A C 4B	L6601	A C 3A	R102	A C 5B
C1609	B C C 7E	C3514	B C C 4A	C5204	B C 6D	C6708	B C 2B	D4001	A C 6B	L6602	A C 3A	R104	B C 6A
C1610	A C C 7E	C3515	A C C 5A	C5205	B C 6D	C6711	B C 2B	D4002	A C 6B	L6606	A C 3A	R105	B C 7A
C1611	B C C 7E	C3901	A C C 4A	C5207	B C 6D	C6802	B C 1B	D5201	A C 5E	L6701	B C 3A	R106	B C 7A
C1612	A C C 7E	C3902	A C C 4A	C5208	B C 6E	C6805	B C 2A	D5202	A C 5D	L7001	A C 3D	R107	B C 7A
C1613	A C C 7E	C3903	A C C 4A	C5209	B C 6E	C6810	A C 2B	D6001	B C 4B	L7002	B C 3D	R108	B C 7A
C1614	A C C 7D	C4001	A C C 6C	C5210	B C 5E	C6812	B C 3A	D6101	B C 3B	L7005	B C 2B	R109	B C 7A
C1615	A C C 7D	C4002	B C C 6D	C5211	B C 5E	C6815	A C 2A	D6106	A C 2B	L7006	A C 3B	R110	A C 6B
C1616	B C C 7D	C4003	B C C 6D	C5212	B C 5E	C6820	A C 2B	D6201	B C 4B	L7007	A C 3D	R111	A C 6B
C1617	A C C 7D	C4006	A C C 5C	C5213	B C 6E	C7001	A C 3D	D6301	B C 3B	L7008	B C 2C	R112	A C 6C
C1618	A C C 7D	C4007	B C C 6C	C5214	A C 5D	C7002	A C 4D	D6401	B C 3A	L7009	B C 1C	R113	B C 2A
C1619	B C C 7D	C4008	B C C 6C	C5215	B C 5D	C7003	B C 4D	D6501	B C 4A	L7010	A C 2C	R114	B C 3A
C1620	B C C 7D	C4009	A C C 6C	C5216	B C 5D	C7004	B C 4D	D6601	A C 3A	L7012	B C 3C	R115	B C 2A
C1621	A C C 7D	C4010	B C C 6D	C5217	B C 5D	C7006	B C 3D	D6616	B C 2A	TRANSISTOR			
C1622	A C C 7D	C4011	B C C 6D	C5218	B C 5E	C7007	B C 3D	D6621	B C 3C	Q101	B C 6A	R116	B C 3A
C1623	A C C 7D	C4012	A C C 5D	C5219	B C 5E	C7008	B C 3D	D7001	B C 3C	Q102	B C 7A	R118	A C 2A
C1624	A C C 7D	C4013	B C C 5D	C5221	A C 6E	C7012	A C 3D	D7002	A C 2C	Q103	A C 6B	R119	A C 2A
C1625	A C C 7D	C4014	B C C 5D	C5222	A C 6E	C7015	B C 4D	D7003	B C 2C	Q104	B C 3A	R120	A C 1A
C1626	A C C 7D	C4015	B C C 5D	C5223	A C 5E	C7016	A C 3D	D7004	B C 4D	Q105	B C 2A	R121	A C 1A
C1627	A C C 7D	C4016	B C C 5D	C5225	B C 5E	C7017	A C 4D	D7005	B C 4D	Q106	B C 3A	R122	A C 7D
C1628	A C C 7D	C4017	B C C 4D	C5226	B C 5E	C7018	A C 3D	D7006	A C 2D	Q107	B C 3A	R123	B C 6A
C1629	A C C 7D	C4018	B C C 4C	C5227	A C 5E	C7019	B C 2C	FUSE					
C1630	A C C 7D	C4019	B C C 4C	C5228	B C 5E	C7020	B C 2D	F6001	A C 1A	Q110	A C 7A	R125	A C 7D
C1631	A C C 6D	C4020	B C C 4C	C5229	A C 5E	C7021	A C 3D	F6002	B C 3D	Q111	B C 4D	R126	A C 7D
C1632	B C C 6D	C4021	B C C 4C	C5230	A C 5E	C7022	A C 3D	F6003	B C 3D	Q112	B C 4D	R127	A C 6B
C1633	B C C 7D	C4022	B C C 5B	C5231	A C 5E	C7023	B C 2C	IC					
C1801	B C C 6D	C4023	B C C 5B	C5232	A C 5E	C7024	B C 2C	IC101	A C 5B	Q2001	B C 6C	R129	A C 6B
C2001	B C C 6C	C4024	B C C 5B	C5233	A C 5E	C7025	B C 2C	IC102	A C 4B	Q2007	A C 6D	R130	B C 4D
C2002	B C C 6C	C4025	B C C 5B	C5234	A C 5E	C7026	B C 2C	IC103	B C 6A	Q2008	A C 6D	R131	B C 4D
C2003	A C C 6D	C4026	B C C 6C	C5235	A C 5E	C7028	B C 2C	IC104	B C 7A	Q2021	B C 5A	R132	B C 4D
C2004	B C C 6C	C4027	B C C 6C										

FOIL SIDE (B)



COMPONENT SIDE (A)

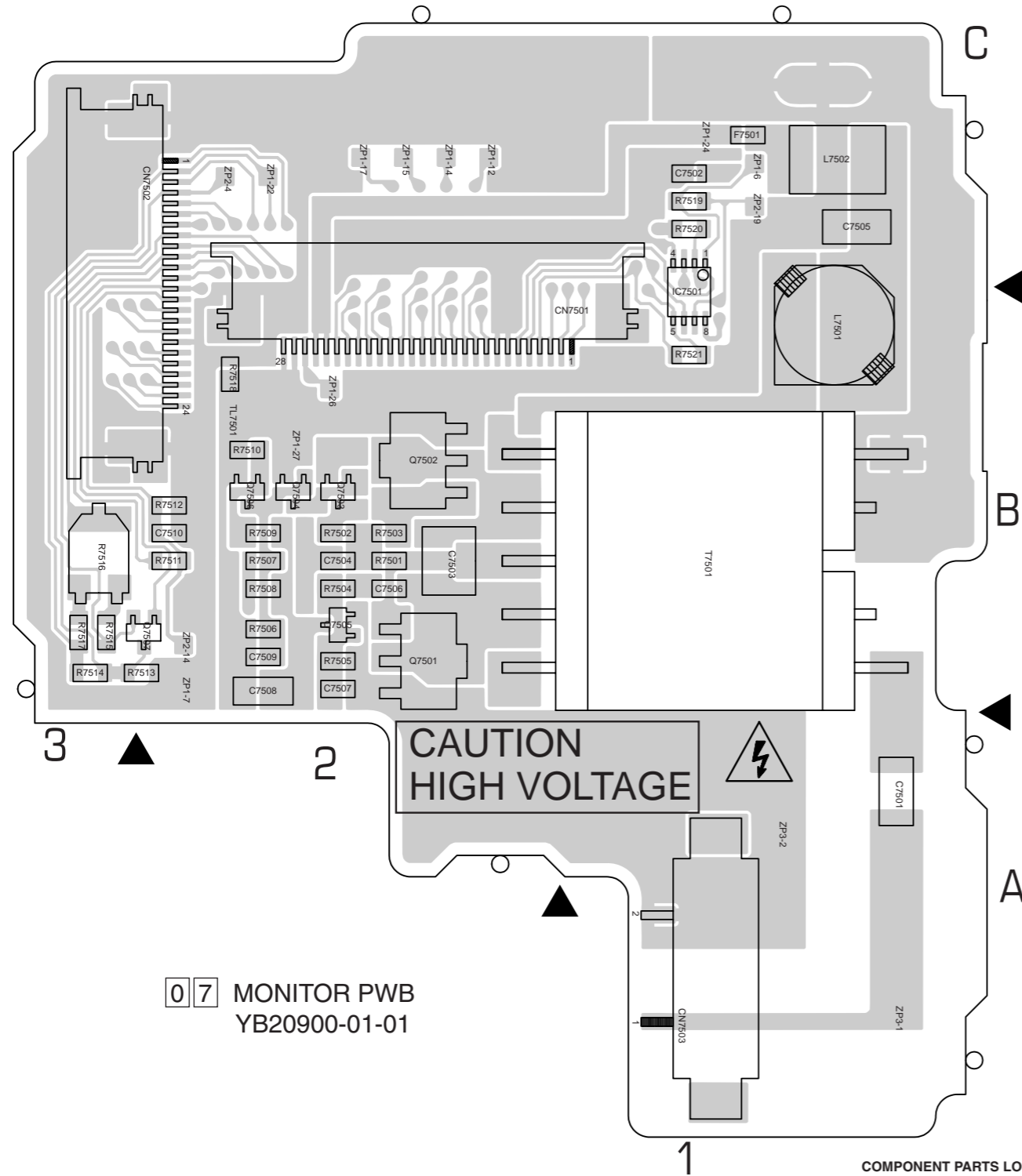


02 CCD PWB
YB20899-01-01

02 CCD
PWB

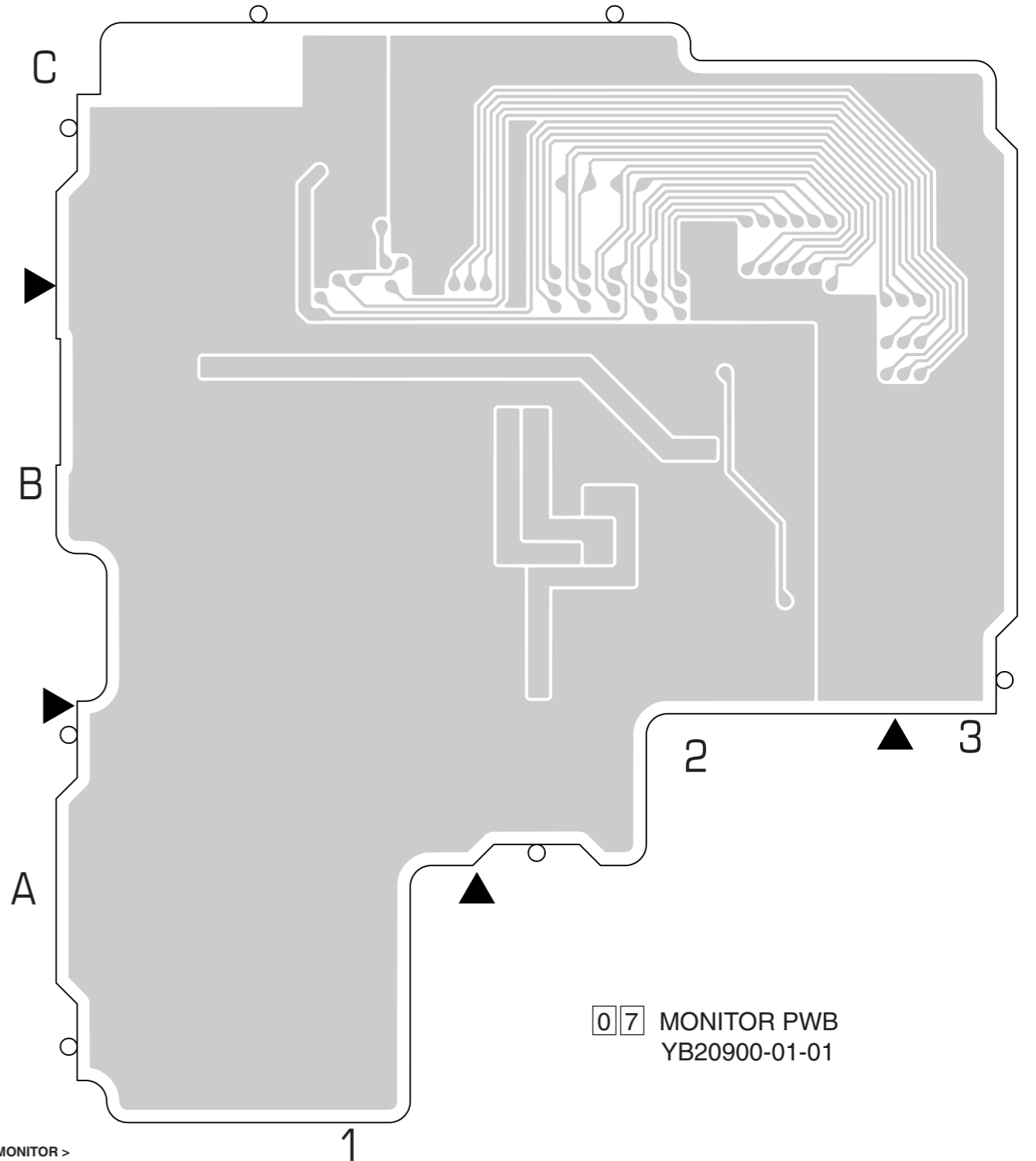
4.17 MONITOR CIRCUIT BOARD

FOIL SIDE (B)



07 MONITOR PWB
YB20900-01-01

COMPONENT SIDE (A)

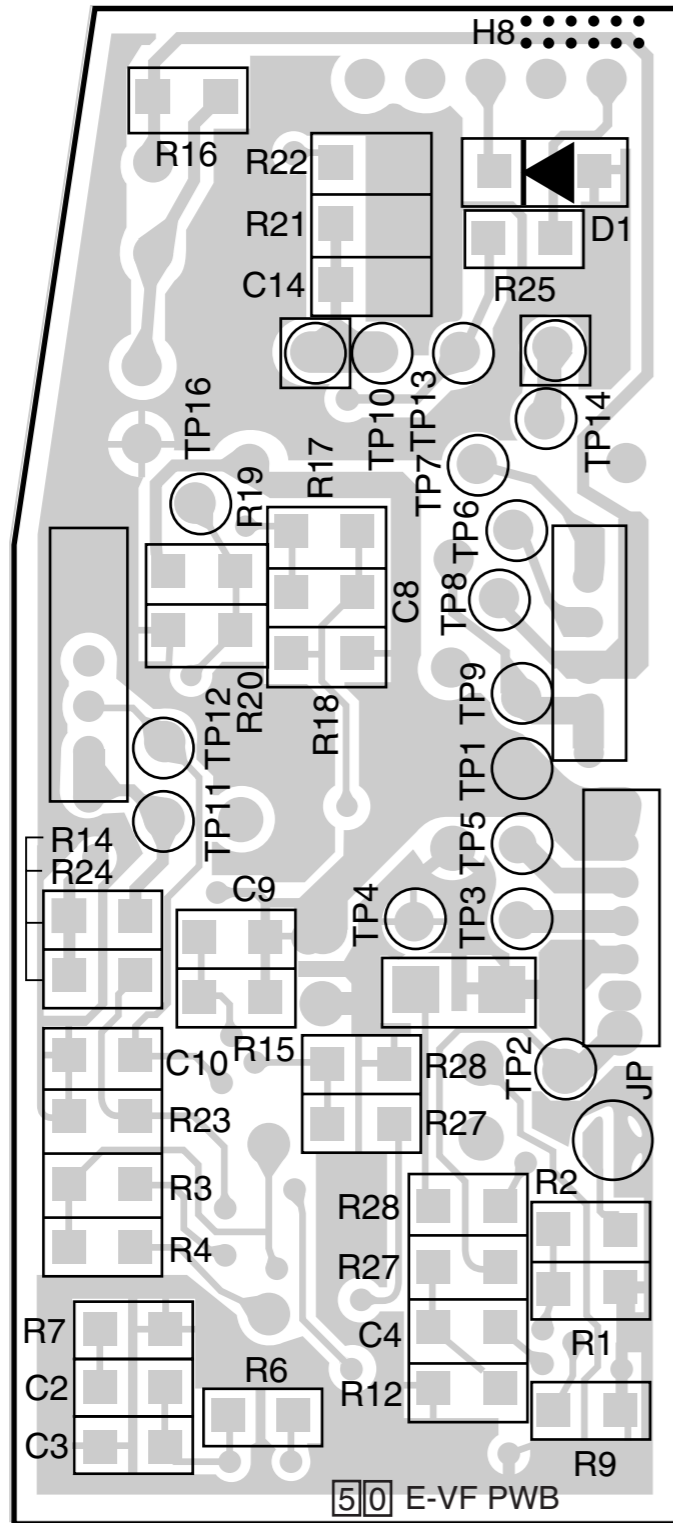


07 MONITOR PWB
YB20900-01-01

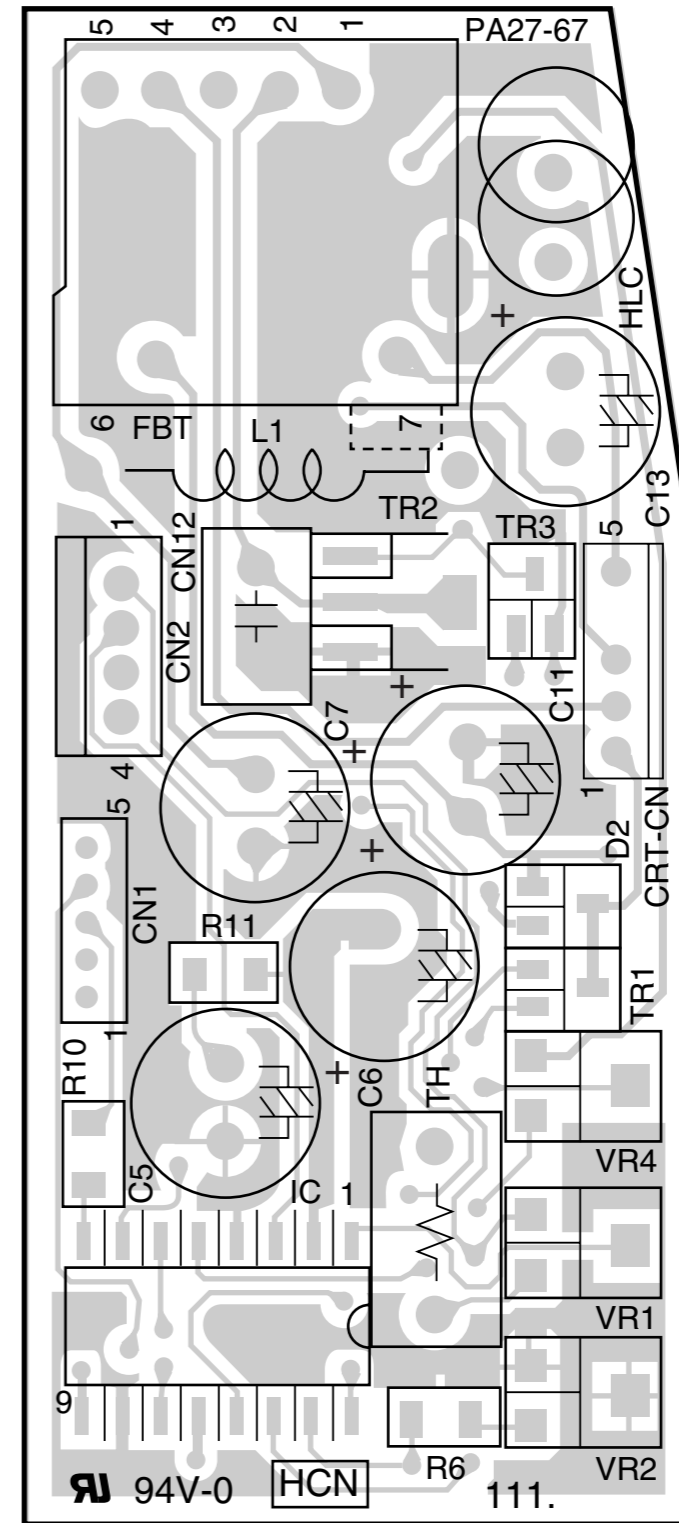
COMPONENT PARTS LOCATION GUIDE <MONITOR >

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR				IC			
C7501	A C 1A	IC7501	A C 1C	R7503	A C 2B	R7521	A C 1B
C7502	A C 1C	COIL		R7504	A C 2B	OTHER	
C7503	A C 2B	L7501	A C 1B	R7505	A C 2B	T7501	A C 1B
C7504	A C 2B	L7502	A C 1C	R7506	A C 2B	TL7501	A C 2B
C7505	A C 1C	TRANSISTOR		R7507	A C 2B	ZP1-6	A C 1C
C7506	A C 2B	Q7501	A C 2B	R7508	A C 2B	ZP1-7	A C 2B
C7507	A C 2B	Q7502	A C 2B	R7509	A C 2B	ZP2-4	A C 2C
C7508	A C 2B	Q7503	A C 2B	R7510	A C 2B	ZP3-1	A C 1A
C7509	A C 2B	Q7504	A C 2B	R7511	A C 2B	ZP3-2	A C 1A
C7510	A C 2B	Q7505	A C 2B	R7512	A C 2B	ZP1-14	A C 2C
CONNECTOR				R7513	A C 2B	ZP1-15	A C 2C
CN7501	A C 1B	Q7506	A C 2B	R7514	A C 3B	ZP1-17	A C 2C
CN7502	A C 2C	Q7507	A C 2B	R7515	A C 3B	ZP1-22	A C 2C
CN7503	A C 1A	RESISTOR		R7516	A C 3B	ZP1-24	A C 1C
FUSE				R7517	A C 3B	ZP1-26	A C 2B
F7501	A C 1C	R7501	A C 2B	R7518	A C 2B	ZP1-27	A C 2B
		R7502	A C 2B	R7519	A C 1C	ZP2-14	A C 2B
				R7520	A C 1C	ZP2-19	A C 1C

FOIL SIDE (B)



COMPONENT SIDE (A)



4.20 CAMERA BLOCK DIAGRAM

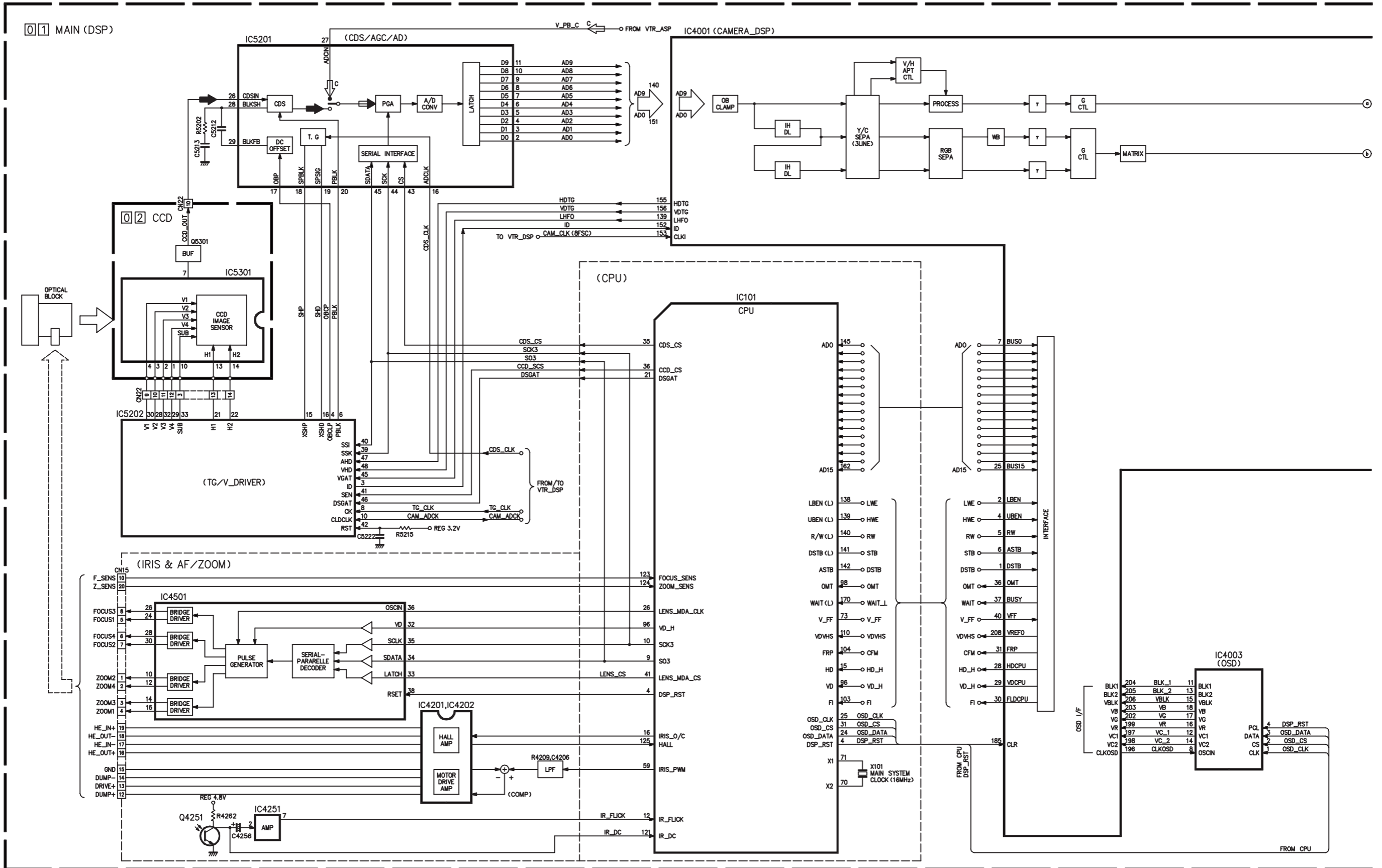
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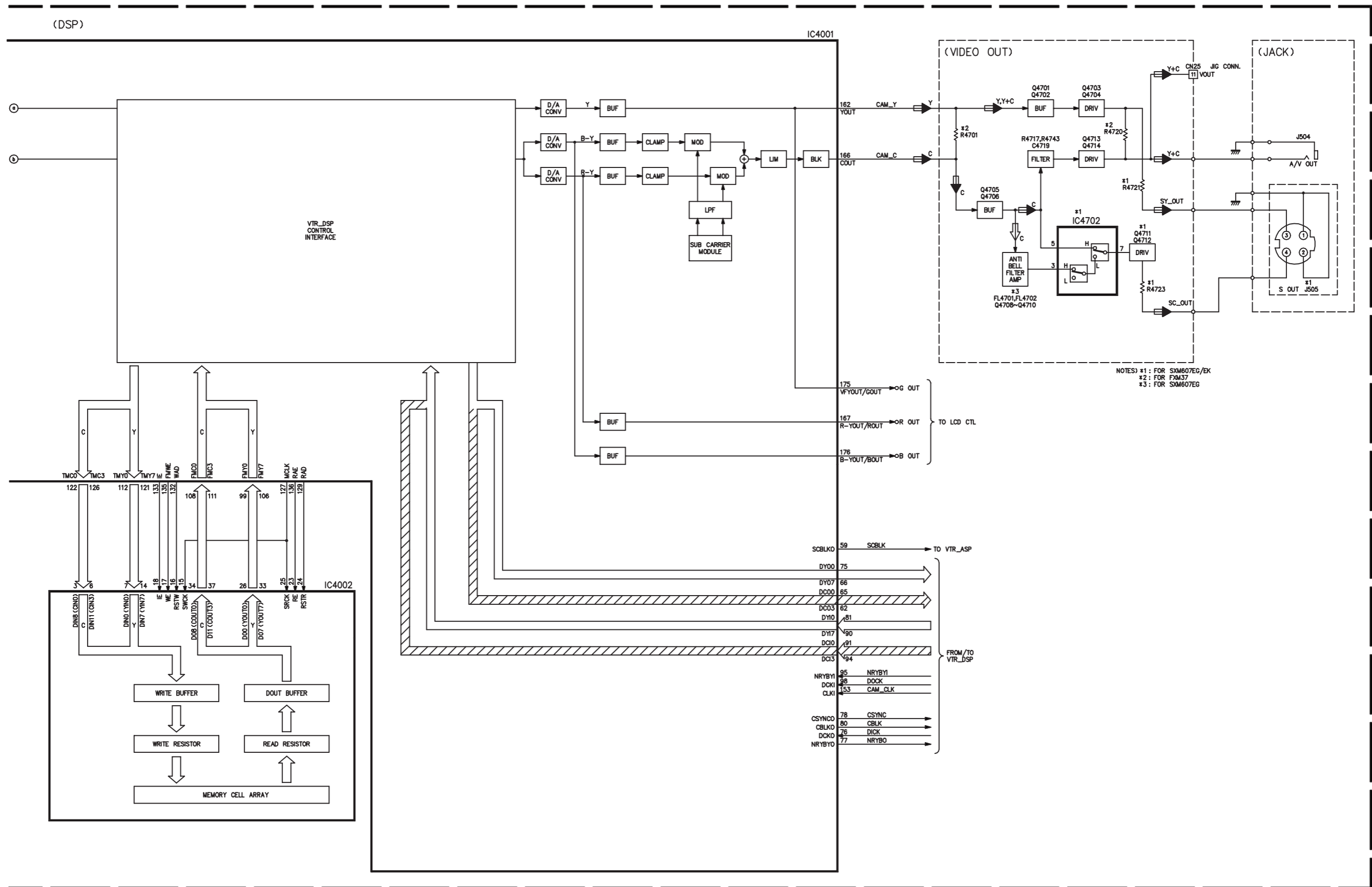
4

3

2

1





(DSP)

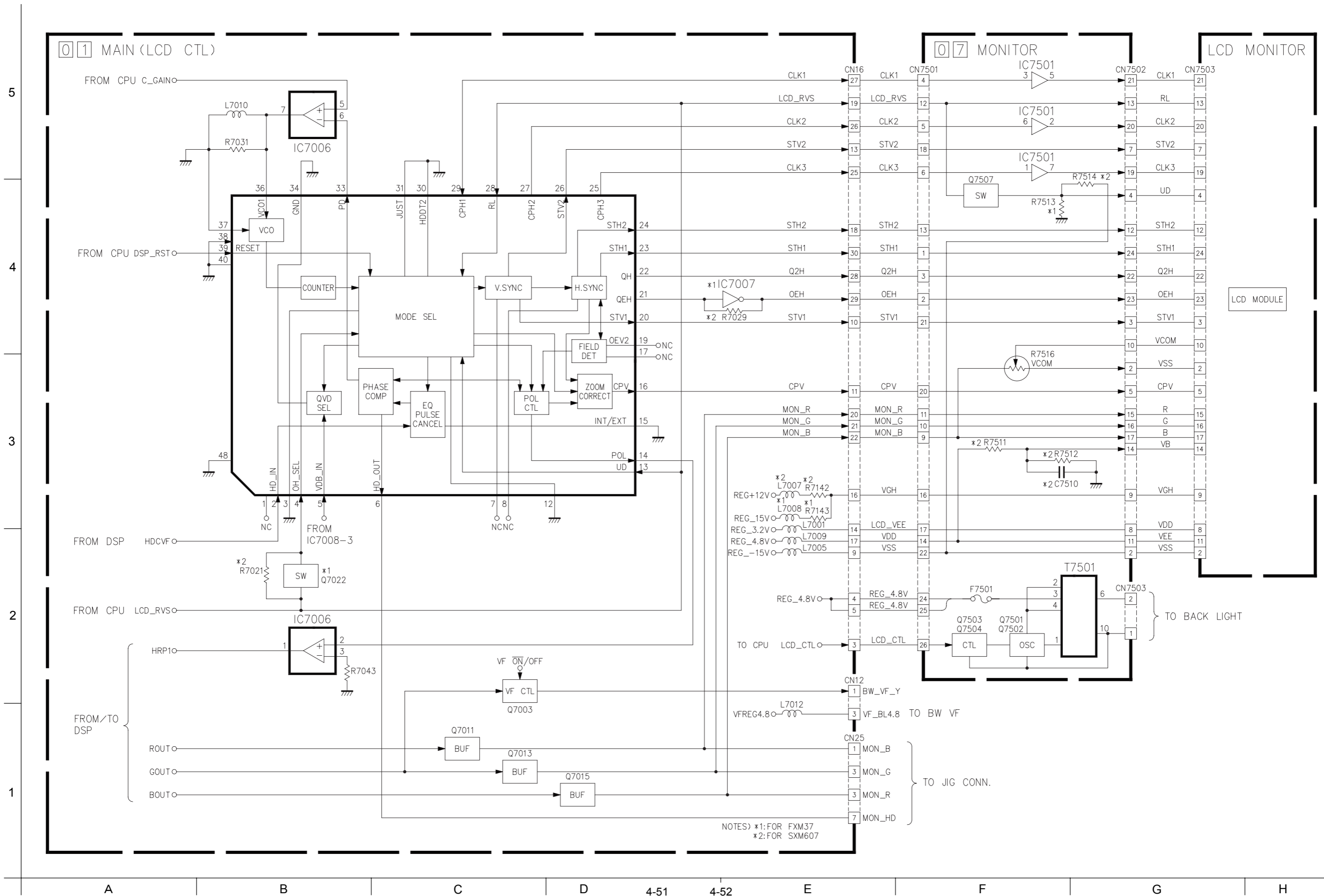
IC4001

(VIDEO OUT)

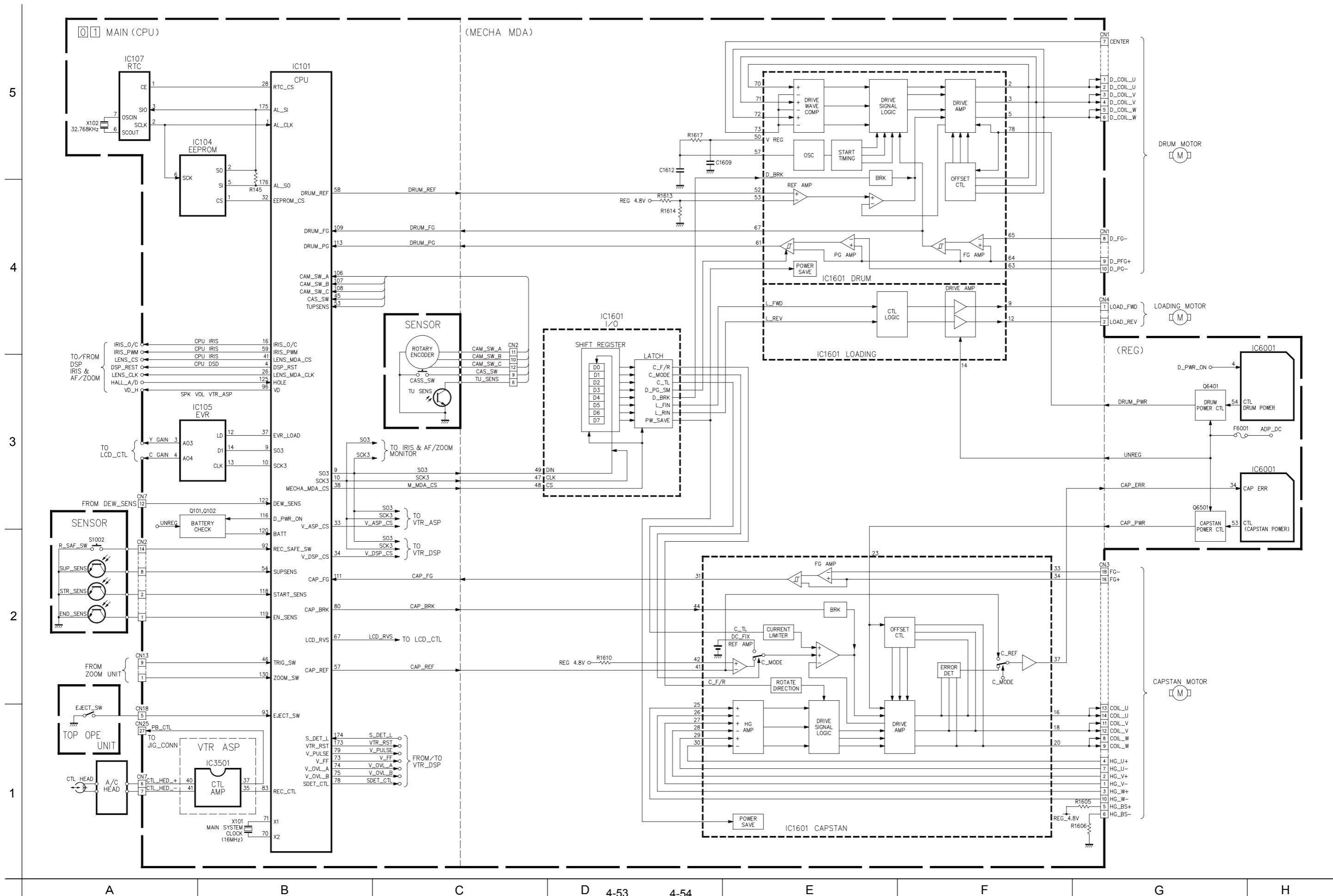
(JACK)

IC4002

4.22 MONITOR BLOCK DIAGRAM

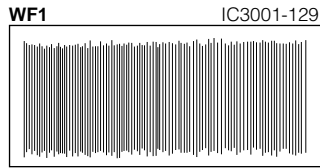


4.23 CPU/MDA BLOCK DIAGRAM

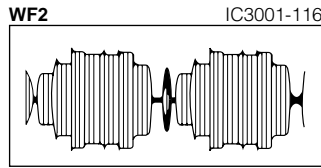


4.24 WAVEFORMS

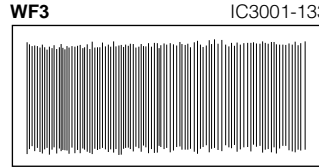
- VTR DSP -



REC 0.24 Vp-p
20mV/20μsec/DIV

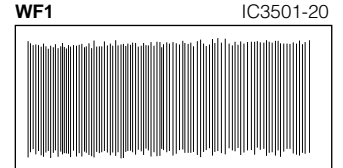


REC 0.36 Vp-p
10mV/20μsec/DIV

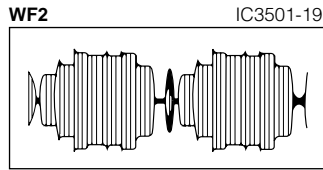


PB 0.8 Vp-p
20mV/20μsec/DIV

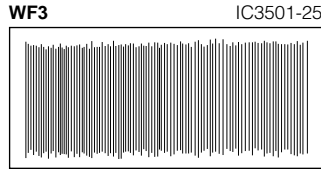
- VTR ASP -



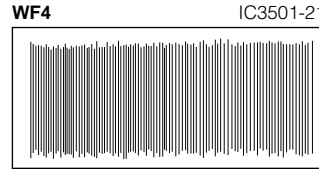
REC 0.68 Vp-p
20mV/20μsec/DIV



REC 0.38 Vp-p
10mV/20μsec/DIV

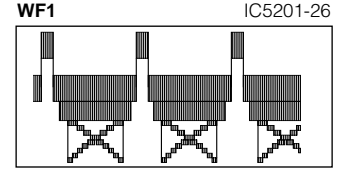


PB 0.18 Vp-p
5mV/20μsec/DIV

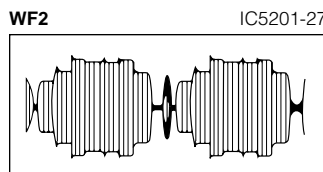


PB 0.8 Vp-p
20mV/20μsec/DIV

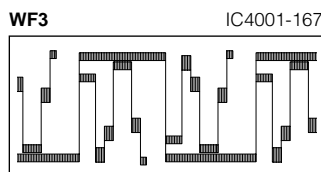
- DSP -



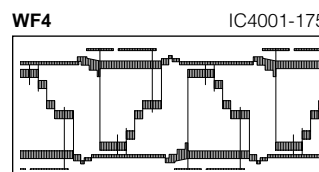
EE 4.8 Vp-p
0.1V/20μsec/DIV



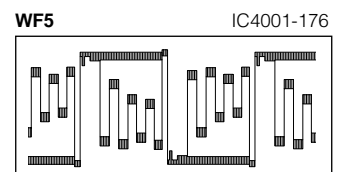
PB 0.15 Vp-p
5mV/20μsec/DIV



REC 0.2 Vp-p
PB 0.15 VP-P
5mV/20μsec/DIV

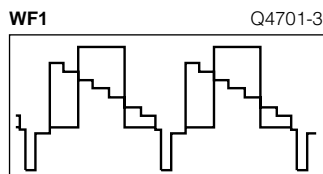


REC/PB 0.2 Vp-p
5mV/20μsec/DIV

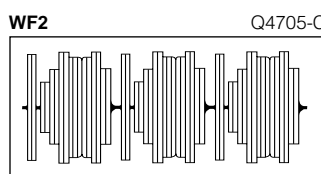


REC/PB 0.2 Vp-p
5mV/20μsec/DIV

- VIDEO OUT -

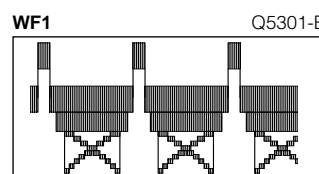


REC 2.6 Vp-p
PB 2.3 Vp-p
50mV/20μsec/DIV



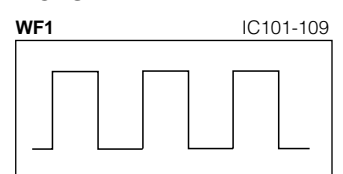
REC 1.7 Vp-p
50mV/20μsec/DIV
PB 1.3 Vp-p
20mV/20μsec/DIV

- CCD -

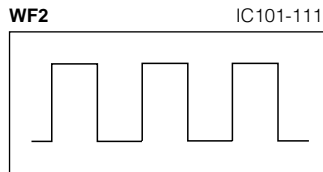


EE 1.0 Vp-p
20mV/20μsec/DIV

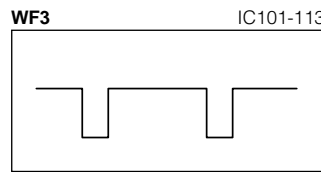
- CPU -



REC/PB 3.2 Vp-p
0.1V/0.2msec/DIV

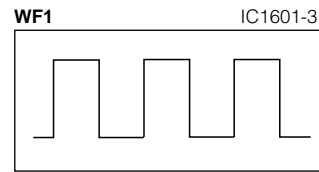


REC/PB 3.2 Vp-p
0.1V/0.2msec/DIV

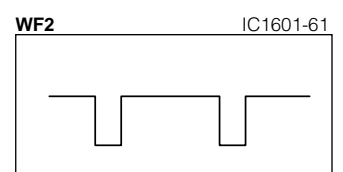


REC/PB 3.2 Vp-p
0.1V/5msec/DIV

- MECHA MDA-



REC/PB 3.2 Vp-p
0.1V/0.2msec/DIV



REC/PB 3.2 Vp-p
0.1V/5msec/DIV

4.25 VOLTAGE CHARTS

<CPU>

MODE PIN NO.	REC	PLAY
IC101		
1	3	3
2	3	3
3	3	3
4	3	3
5	0	0
6	0	0
7	3	3
8	3.2	3.2
9	0.6	0.6
10	3	3
11	0	0
12	1.5	1.5
13	3	3
14	0	0
15	0	0
16	1.6	0
17	0	0
18	3	3
19	0	0
20	0	0
21	3	0
22	3	3
23	2.9	2.8
24	2.6	2.6
25	2.9	2.9
26	1.5	1.5
27	3	3.1
28	0	0
29	3	3
30	3	3
31	2.4	2.3
32	3	3
33	3	3
34	3	3
35	3	3
36	0	0
37	0	0
38	0	0
39	3	3
40	0	0
41	0	0
42	0	0
43	0	0
44	0	0
45	0	0
46	2.9	3
47	0	0
48	0	0
49	2.8	0
50	2.8	2.9
51	0	2.9
52	2.8	2.9
53	-	-
54	-	-
55	3	3
56	0	0
57	1.6	1.6
58	1.5	1.5
59	1.4	0
60	2.7	2.7
61	0	0
62	3	3
63	0	0
64	0	0
65	0	0
66	3	3
67	3	3
68	0	0
69	3	3
70	1.4	1.4
71	-	-
72	0	0
73	1.5	1.5
74	0	0
75	0	0
76	0	0
77	0	0
78	0	0
79	0	0

MODE PIN NO.	REC	PLAY
80	0	0
81	3	3
82	0	0
83	1.8	0
84	0	3
85	3	0
86	3	0
87	3	0
88	0	0
89	0	0
90	3	3
91	0	0
92	2.7	2.7
93	2.8	2.8
94	3	3
95	0	0
96	0	0
97	0	0
98	0	0
99	3	3
100	0	0
101	3	3
102	0	0
103	1.6	1.6
104	-	-
105	3.2	3.2
106	0	0
107	3.1	3.1
108	3.1	3.1
109	1.6	1.6
110	0	0
111	1.6	1.6
112	1.8	1.9
113	2.9	3
114	0	0
115	3	3
116	3	3
117	0	2.9
118	0.8	0.8
119	3.1	3.1
120	3.2	3.2
121	2.7	2.7
122	0	0
123	0	0
124	0	0
125	1.4	0.4
126	3.1	3.1
127	3.2	3.2
128	3.2	3.2
129	2.7	2.7
130	1.6	1.6
131	3.2	3.2
132	0	0
133	3.2	3.2
134	0	0
135	3	3
136	3	3
137	0	0
138	0	0
139	0	0
140	3	3
141	3	3
142	3	3
143	3	3
144	3	3
145	0.8	1
146	0.9	1
147	0.9	1
148	0.8	1
149	0.8	1
150	0.8	1
151	0.8	1
152	0.7	0.9
153	3	3
154	0	0
155	0.8	0.9
156	0.8	1
157	0.8	0.9
158	0.8	0.9
159	0.8	0.9

MODE PIN NO.	REC	PLAY
160	0.7	0.9
161	0.7	0.9
162	0.7	0.8
163	0	0
164	3	3
165	3	3
166	3	0
167	0	0
168	0	0
169	0	0
170	3.2	3.2
171	0	3
172	0	3
173	0	0
174	0	0
175	3	3
176	3	3
IC102		
1	2.9	3
2	2.8	2.8
3	0	0
4	0	0
5	3	3
IC104		
1	3	3
2	3	3
3	3	3
4	0	0
5	0	0
6	3	3
7	3	3
8	3	3
IC105		
1	0	0
2	2.1	2.1
3	1.6	1.6
4	1.6	1.6
5	0	1.4
6	0	1.4
7	0	1.4
8	3.2	3.2
9	3.2	3.2
10	0	0
11	1.4	1
12	0	0
13	3	3
14	0.6	1
15	2.4	2.4
16	0	0
IC106		
1	0	0
2	0	0
3	3	3
4	3	3
IC107		
1	0	0
2	3	3
3	3	3
4	0	0
5	0	0
6	0	0.6
7	0.7	0
8	3	3
IC1801		
1	3	3
2	0	0
3	4.8	4.8
Q101		
E	11	11
C	0	11.1
B	10.3	10.3
Q102		
E	0	0
C	3.2	3.3
B	3	3
Q103		
E	0	0
C	0	4.8
B	0.7	0

MODE PIN NO.	REC	PLAY
Q104		
E	0	0
C	4.9	4.9
B	0	0
Q105		
E	0	0
C	-0.5	-0.4
B	5.1	5
Q110		
E	0	0
C	0	0
B	3	3
Q111		
E	0	0
C	0	0
B	3	3
Q112		
E	0	0
C	2.2	2.2
B	0	0
Q113		
E	-	-
C	-	-
B	-	-

<MECHA MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	1.3	1.3
3	1.3	1.3
4	0	0
5	1.3	1.3
6	0	0
7	0	0
8	0	0
9	0.4	0
10	0	0
11	0	0
12	0	0.4
13	0	0
14	11	11.1
15	0	0
16	0.6	0.6
17	0	0
18	0.7	0.6
19	0	0
20	0.6	0.6
21	0	0
22	0	0
23	1.4	1.3
24	11.1	11.1
25	2.4	2.4
26	2.4	2.4
27	2.4	2.4
28	2.4	2.4
29	2.4	2.4
30	0	2.4
31	1.6	1.6
32	2.4	2.4
33	2.1	2.4
34	2.4	2.4
35	4.8	4.8
36	3	3
37	0.8	0.8
38	0	0.7
39	0.7	0.7
40	0	1.2
41	1.6	1.6
42	4.8	4.8
43	4.8	4.8
44	0	0
45	0	0
46	0	0
47	3	3
48	0	0

MODE PIN NO.	REC	PLAY
49	0.6	1
50	2	1.9
51	0	0
52	1.5	1.5
53	1.2	1.2
54	4.8	4.8
55	0.7	0.7
56	0.7	0.7
57	1.1	1.1
58	0.7	0.7
59	0	0
60	1.6	0
61	2.9	2.9
62	1.8	1.8
63	2.3	2.3
64	2.4	2.3
65	2.4	2.3
66	2.4	2.3
67	1.6	1.6
68	0.9	0.9
69	0	0
70	1.3	1.3
71	1.3	1.3
72	0	1.3
73	1.3	1.3
74	1.1	1.2
75	0.4	0.5
76	3.9	3.9
77	11.1	11
78	2.7	2.7
79	0	0
80	0	0

<VTR DSP>

MODE PIN NO.	REC	PLAY
IC3001		
1	3.2	3.2
2	3.2	3.2
3	0	0
4	1.9	1.9
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	3.3	3.2
14	1.9	1.9
15	0	0
16	0	0
17	3.2	3.2
18	1.5	1.5
19	1.5	1.5
20	0	0
21	1.3	1.3
22	1.3	1.3
23	1.3	1.3
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	1.5	1.5
31	3	3
32	3	3
33	0.6	1
34	3.2	3.2
35	3.2	3.2
36	3.2	3.2
37	0	0
38	0	0
39	0	0
40	0	0
41	0	0
42	0	0
43	0	0
44	1.5	0
45	1.5	0
46	1.3	1.2
47	1.1	1.9
48	0.7	1.9
49	0.8	1.9
50	1	1.8
51	1.1	1.6
52	2.3	1.6
53	1.9	0
54	2	1.5
55	1.1	1.5
56	2.4	0
57	2.9	2.8
58	1.6	1.6
59	1.5	1.6
60	1.4	1.3
61	3.2	3.2
62	1.3	1.6
63	1.2	1.6
64	2	1.7
65	1.5	1.8
66	0.6	1.9
67	0.5	0.6
68	2	2
69	1.4	1.4
70	1.9	1.9
71	0	0
72	0	0
73	0	0
74	0	0
75	0	0
76	0	0
77	1.3	1.5
78	1.3	1.6

MODE PIN NO.	REC	PLAY
79	1.3	1.7
80	1.4	1.4
81	0	0
82	0	0
83	0	0
84	0	0
85	1.6	1.6
86	1.5	1.5
87	2.9	2.9
88	3.2	3.2
89	0	0
90	1.6	1.5
91	1.6	1.6
92	1.4	1.4
93	0	0
94	0	0
95	0	0
96	0	0
97	0	0
98	0	0
99	0	0
100	0	0
101	0	0
102	0	0
103	0	0
104	0	3.2
105	3.2	3.2
106	0	0
107	0	0
108	0	0
109	3.2	3.2
110	3.2	3.2
111	0	0
112	1.9	1.9
113	1.9	1.9
114	0	0
115	3.2	3.2
116	0	0
117	0.9	0.9
118	1.6	1.6
119	2	2
120	0	0
121	0	0
122	0.8	0
123	3.2	3.2
124	0	0
125	0	0
126	1.1	0
127	1.9	3.2
128	1.9	1.9
129	1.9	0
130	0	1
131	3.2	0
132	3.2	3.2
133	0.7	1.5
134	0.7	1.5
135	2.2	2.2
136	3.2	3.2
137	0.8	0.5
138	3.2	3.2
139	0	0
140	0	0
141	1.5	1.5
142	3.2	3.2
143	3.2	3.2
144	3.2	3.2
IC3002		
1	0	0
2	1.5	1.5
3	0	0
4	1.6	1.6
5	3.2	3.2
Q3002		
1	0.8	0.8
2	1.4	1.4
3	3.2	3.2
4	2.2	2.2
5	2.9	2.9
6	3.2	3.2

MODE PIN NO.	REC	PLAY
Q3003		
E	1.9	1.9
C	2	2
B	2.6	2.6
Q3006		
E	0	0
C	0	2.8
B	0	0

<SPEAKER>

MODE PIN NO.	REC	PLAY
IC2401		
1	1.3	1.3
2	3.2	3.2
3	1.3	1.3
4	0	0
5	0.6	0.6
6	0	0
7	0	0
8	0.6	0.6
Q2401		
E	0	0
C	3.2	3.2
B	0	0
Q2402		
E	3.2	3.2
C	0.6	0.6
B	3.2	3.2

<VTR DSP>

MODE PIN NO.	REC	PLAY
IC2001		
1	1.4	3.2
2	1.5	0
3	1.5	0
4	1.5	3.2
5	1.5	3.2
6	1.4	0
7	0	0
8	1.4	0
9	1.5	3.2
10	1.4	0
11	1.5	3.2
12	1.5	0
13	1.5	3.2
14	3	3.2
IC3501		
1	2.2	2.2
2	2.3	2.4
3	2.2	2.2
4	2.2	2.2
5	2.4	2.3
6	2.2	2.2
7	4.8	4.8
8	2.2	2.2
9	2.3	2.4
10	2.2	2.2
11	2.2	2.2
12	2.3	2.2
13	2.2	2.2
14	0	0
15	3	0
16	2.9	1.2
17	4	5.2
18	0	0
19	2.9	0
20	2.8	0
21	1	0
22	1	2.2
23	2.1	2.1
24	4.7	4.8
25	2.4	2.4
26	0	3
27	2.5	2.5
28	2.9	2.9
29	0	0
30	1.5	1.5
31	3	3
32	0.6	0.9
33	3	3
34	1.9	1.8
35	1.8	0
36	0	0
37	2.6	2.3
38	3	3
39	4.8	4.8
40	2.4	2.1
41	2.3	2.1
42	2.8	2.8
43	2.8	2.5
44	2.7	2.5
45	2.5	2.4
46	2.3	2.5
47	0	0.4
48	2.5	2.5
49	2.5	2.5
50	0	0
51	2.5	2.5
52	2.5	2.5
53	2.5	2.5
54	4.7	4.7
55	2.5	2.5
56	0	1.4
Q2001		
E	3	3.2
C	1.4	3.2
B	3	0
Q2007		
1	-10.5	0
2	-16.6	0.7

MODE PIN NO.	REC	PLAY
3	0	0
4	-10.5	0
5	-16.6	0.7
6	0	0
Q2008		
1	3	1.8
2	3	1.2
3	3	1.2
4	3	1.7
5	3	1.2
6	-16.6	0.8
Q2021		
E	0	0
C	0	0
B	0	0
Q2022		
E	0	0
C	0	0
B	0	3
Q2023		
E	0	0
C	0	0
B	0	0
Q2071		
E	4.4	4.4
C	4.7	4.7
B	4.7	4.7
Q3501		
1	2.2	2.2
2	2.3	2.4
3	2.2	2.2
4	2.2	2.2
5	2.3	2.3
6	2.2	2.2
Q3502		
1	2.2	2.2
2	2.3	2.3
3	2.2	2.2
4	2.2	2.2
5	2.3	2.4
6	2.2	2.2
Q3505		
E	0	0
C	2.9	2.9
B	0	0
Q3901		
1	4.6	4.7
2	4	5.2
3	0	5.2
4	4.6	4.8
5	4	5.3
6	0	0

<DSP>

MODE PIN NO.	REC	PLAY
IC4001		
1	3	3
2	1.6	1.6
3	0	0
4	0	0.9
5	3	3
6	3	3
7	1.1	1.3
8	1.1	1.2
9	1.1	1.2
10	3.2	3.2
11	1	1.1
12	1	1.2
13	1	1.1
14	1	1.2
15	0	0
16	1	1.1
17	1	1.2
18	1	1.2
19	2	2
20	1.1	1.1
21	1.1	1.1
22	1.1	1.2
23	1	1.2
24	1	1.2
25	1	1.2
26	0	0
27	2	2
28	0	0
29	0	0
30	1.6	1.6
31	-	-
32	0	0
33	3	3
34	2	2
35	3.1	3.1
36	0	0
37	3.2	3.2
38	0	0
39	0	0
40	1.5	1.5
41	0.9	1.2
42	0.9	1.2
43	3.2	3.2
44	1	1.2
45	1	1.3
46	1	1.3
47	1	1.3
48	1	1.3
49	1	1.3
50	0	0
51	1.1	1.2
52	1.1	1.2
53	1.2	1.2
54	1.2	1.2
55	1.4	1.5
56	1.5	1.6
57	0	0
58	0	0
59	3.2	3.2
60	0	0
61	3.2	3.2
62	1.4	0
63	1.2	0
64	1.1	1.4
65	1.1	1.6
66	0.6	1.6
67	0.9	1.5
68	1	1.5
69	0.6	1.5
70	2.1	0
71	2	1.5
72	0	0
73	2	2
74	2	1.5
75	1	1.5
76	1.5	1.5
77	1.6	1.6
78	2.9	2.9

MODE PIN NO.	REC	PLAY
79	2	2
80	2.4	2.4
81	1.3	1.9
82	1.2	1.8
83	2.1	1.9
84	1.5	1.9
85	0	0
86	2	2
87	0.9	1.9
88	0.6	1.9
89	2.1	2
90	1.3	1.8
91	1.3	1.6
92	1.1	1.6
93	1.3	1.6
94	1.4	1.5
95	1.6	1.6
96	0	0
97	3.2	3.2
98	1.5	1.5
99	1.7	1.7
100	1.9	1.6
101	1.9	1.6
102	1.8	1.6
103	1.3	1.6
104	1.2	1.5
105	1.4	1.4
106	1.3	1.3
107	0	0
108	1.5	1.8
109	1.4	1.8
110	1.6	1.9
111	1.6	1.8
112	1.2	1.6
113	1.8	1.3
114	3.2	3.2
115	1.8	1.5
116	1.4	1.6
117	0.8	1.5
118	0.7	1.5
119	0	0
120	0.9	1.5
121	0.8	0.8
122	1	1.5
123	2	2
124	1	1.6
125	1.2	1.6
126	1.3	1.5
127	1.5	1.5
128	0	0
129	0	0
130	0	0
131	2	2
132	0	0
133	3	3
134	2.6	2.6
135	2.6	2.6
136	2.6	2.7
137	3.2	3.2
138	2	2
139	0	0
140	0	1.4
141	0.5	1.6
142	0	0
143	0.7	1.6
144	0.8	1.6
145	2.3	1.6
146	0.8	1.6
147	3.2	3.2
148	0.8	1.5
149	1.1	1.6
150	1.2	1.6
151	1.2	1.6
152	1.5	1.6
153	1.3	1.3
154	0	0
155	2.9	0
156	3.1	0
157	0	0

MODE PIN NO.	REC	PLAY
158	3.2	3.2
159	2.5	2.5
160	1.1	1.1
161	1.1	1.1
162	0.7	0.8
163	0	0
164	1.1	1.1
165	1.1	1.1
166	0.7	0.7
167	0.9	0.9
168	0	0
169	2.5	2.5
170	0	0
171	0	0
172	1.1	1.1
173	1.1	1.1
174	0	0
175	0.9	0.8
176	0.9	0.8
177	2.5	2.5
178	1.1	1.2
179	1.1	1.1
180	1.2	1.2
181	0	0
182	2.5	2.5
183	2	2
184	3.2	3.2
185	3	3
186	0	0
187	0	0
188	3.2	3.2
189	0	0
190	2	2
191	3.2	3.2
192	3.2	3.2
193	1.3	1.3
194	3.1	1.3
195	3	3.1
196	1.5	3
197	0	1.4
198	0	0
199	0	0
200	0	0
201	3.2	3.2
202	0	0
203	0	0
204	0	0
205	0	0
206	0	0
207	3.2	3.2
208	0	0
IC4002		
1	0	0
2	0	0
3	1.4	1.3
4	1.2	1.7
5	1.1	1.4
6	1.1	1.3
7	0.7	0.7
8	1.1	0.9
9	1	1
10	0.9	1.1
11	1.4	1.1
12	1.7	1.5
13	1.8	1.3
14	1.3	1.4
15	1.5	1.5
16	0	0
17	2.6	2.6
18	3	3
19	3.2	3.2
20	0	0
21	3.2	3.2
22	2.7	2.7
23	2.6	2.6
24	0	0
25	1.5	1.6
26	1.7	1.5
27	1.9	1.7

MODE PIN NO.	REC	PLAY
28	1.9	1.7
29	1.9	1.8
30	1.4	1.5
31	1.5	1.4
32	1.6	1.5
33	1.2	1.4
34	1.6	1.2
35	1.5	1.5
36	1.7	1.9
37	1.5	1.5
38	0	0
IC4003		
1	2.9	2.9
2	2.4	2.2
3	2.6	2.5
4	3	3
5	3.2	3.2
6	0	0
7	1.3	1.3
8	1.5	1.5
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	3.1	3.1
20	3	3
IC5201		
1	0	0
2	1.2	1.6
3	1.2	1.6
4	1.1	1.6
5	0.8	1.5
6	0.8	1.5
7	2.2	1.6
8	0.8	1.6
9	0.7	1.6
10	0.6	1.6
11	0	1.4
12	0	0
13	0	0
14	0	0
15	3.1	3.1
16	1.6	1.5
17	3	0
18	2.7	0
19	2.7	0
20	2.5	0
21	0	0
22	0	0
23	3.2	3.1
24	0	0
25	0	0
26	2.1	-
27	1.5	1.5
28	2.1	0
29	2.1	0
30	0	0
31	3.1	3.1
32	2.1	2.1
33	1	1
34	1.5	1.5
35	1.3	1.2
36	0	0
37	0	0
38	3.1	3.2
39	0	0
40	0	0
41	3.1	3.2
42	0	0
43	0	3
44	3	3
45	0.6	1
46	3.1	3.2

MODE PIN NO.	REC	PLAY
47	0	0
48	0	0
IC5202		
1	3.1	3.1
2	3.1	3.1
3	1.5	1.6
4	3	0
5	3	0
6	0	0
7	0	0
8	1.6	1.6
9	3.1	3.1
10	1.5	1.6
11	1	1.3
12	1.6	0
13	3.1	3.2
14	0	0
15	2.7	0
16	2.7	0
17	2.5	0
18	0	0
19	3.1	3.2
20	3.1	3.2
21	1.6	0
22	1.3	0
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	-7.3	0
30	0	14.9
31	14.9	14.8
32	-7.3	14.9
33	-7.8	14.8
34	-7.8	-8.2
35	0	0
36	0	0
37	3.1	0
38	0	0
39	3	0
40	0.6	0.9
41	0	0
42	3.1	3.1
43	0	0
44	3.1	3.2
45	0	0
46	3	0
47	2.9	0
48	3.1	0

<IRIS & AF/ZOOM>

MODE PIN NO.	REC	PLAY
IC4201		
1	2.2	2.8
2	1.6	0.4
3	1.6	0.4
4	0	0
5	1.9	1.9
6	1.9	1.9
7	1.9	1.9
8	4.8	4.8
IC4202		
1	1.3	0
2	1.3	0
3	1.3	0
4	4.8	4.8
5	1.9	1.9
6	1.9	1.9
7	1.3	0.4
8	2.5	2.5
9	1.9	1.9
10	1.9	1.9
11	0	0
12	0.4	0.4
13	0.4	0.4
14	0.9	1
IC4251		
1	2	1.9
2	2	2
3	2	1.9
4	0	0
5	2	1.9
6	1.9	1.9
7	1.7	1.6
8	4.8	4.8
IC4501		
1	0	0
2	0.7	0.8
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	3.2	3.2
9	4.8	4.8
10	0	0
11	0	0
12	0.4	0
13	4.8	4.8
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	-	0
23	4.8	4.8
24	-	-
25	0	0
26	-	0.4
27	4.8	4.8
28	0.8	0
29	0	0
30	3.5	0
31	0	0
32	0	0
33	0	0
34	0.6	0.9
35	3	3
36	1.5	1.5
37	1.5	1.5
38	3	3
Q4201		
E	0.4	0.4
C	1.2	1.2
B	1	1

MODE PIN NO.	REC	PLAY
Q4251		
E	0	0
C	4.4	4.5
B	-	-
Q4501		
E	0	0
C	3.9	4
B	0	0

<VIDEO OUT>

MODE PIN NO.	REC	PLAY
IC4702		
1	2.4	2.4
2	3.2	3.2
3	2.4	2.4
4	3	3
5	2.3	2.4
6	4.8	4.8
7	1.6	1.6
8	0	0
Q4701		
1	0.7	0.7
2	1.3	1.3
3	2.4	2.3
4	0.6	0.7
5	1.3	1.3
6	1.3	1.3
Q4702		
E	1.8	1.8
C	4.8	4.8
B	2.4	2.4
Q4703		
1	0	0
2	0	0
3	4.8	4.8
4	0	0
5	0.9	0.9
6	4.8	4.8
Q4704		
1	0.9	0.9
2	0	0
3	-3.1	-3.1
4	0	0
5	0	0
6	-3.1	-3.1
Q4705		
E	0.7	0.7
C	3.3	3.3
B	1.3	1.3
Q4706		
E	2.6	2.6
C	4.8	4.8
B	3.2	3.3
Q4707		
E	1.8	1.8
C	4.8	4.8
B	2.4	2.4
Q4708		
E	1.2	1.2
C	4.8	4.8
B	1.8	1.8
Q4709		
E	1.2	1.2
C	2.1	2.1
B	1.8	1.8
Q4710		
E	2	2
C	4.8	4.8
B	2.6	2.6
Q4711		
1	0	0
2	0	0
3	4.8	4.8
4	0	0
5	0.9	0.8
6	4.8	4.8

<REG>

MODE PIN NO.	REC	PLAY
IC6001		
1	3.1	3.1
2	3	3
3	3	3
4	3	3
5	-	-
6	0	0
7	1.3	0
8	11	1.2
9	1	1
10	1.3	1.3
11	2.2	1
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	2.2	2.2
20	1	1
21	0	0
22	2.2	2.2
23	1	1
24	0.6	0.6
25	1	1
26	0.6	0.6
27	1	1
28	0	0
29	1	1
30	0.8	0.8
31	0	0
32	0	0
33	0.6	0.6
34	0	0
35	0	0
36	0.5	0.5
37	0.8	0.8
38	0	0
39	1	1
40	0	0
41	2.4	2.4
42	1.1	1.1
43	0	0
44	2.1	2.2
45	2.2	2.2
46	2.2	2.2
47	6.3	6.3
48	1	1
49	1	1
50	10.6	10.8
51	11	11
52	0	0
53	9.7	9.7
54	8.4	8.4
55	6.3	6.3
56	6	6
57	9	9
58	7.8	7.8
59	0	0
60	11	11
61	0	0
62	10.3	10.3
63	1.2	1.2
64	1	1
Q6101		
1	3.2	3.2
2	3.2	3.2
3	7.8	7.8
4	11	11
5	3.2	3.2
6	3.2	3.2
Q6106		
1	0.4	0.4
2	0.9	0.9
3	0.6	0.6
4	0.4	0.4
5	1	1
6	3.2	3.2

MODE PIN NO.	REC	PLAY
Q6107		
E	3.2	3.2
C	2.5	2.5
B	0.6	0.6
Q6201		
1	2	2
2	2	2
3	9	9
4	11	11
5	2	2
6	2	2
Q6301		
G	6	6
D	4.9	4.9
S	11	11
Q6306		
G	0	0
D	0	0
S	0	0
Q6307		
E	0	0
C	4.8	4.8
B	0	0
Q6308		
E	4.8	4.8
C	0	0
B	4.8	4.8
Q6401		
1	2.8	2.7
2	2.8	2.7
3	8.3	8.4
4	11	11.1
5	2.8	2.7
6	2.8	2.7
Q6501		
1	1.5	1.3
2	1.5	1.3
3	9.5	9.7
4	11.1	11.1
5	1.5	1.3
6	1.5	1.3
Q6601		
G	10.8	6
D	3.2	4.9
S	11	11.1
Q6608		
E	0	0
C	14.9	14.8
B	-0.9	-0.9
Q6621		
1	4.2	4.2
2	5.4	5.5
3	14.5	14.6
4	4.2	4.2
5	4.7	4.7
6	14.8	14.8
Q6622		
E	14.8	14.8
C	12.3	12.3
B	14.6	14.6
Q6701		
1	11	11.1
2	11	11.1
3	0	0
4	0	0
5	0	0
6	0	0
Q6702		
E	0	0
C	0	0
B	0	0
Q6801		
E	11	11
C	3.2	3.2
B	10.8	10.8
Q6811		
E	11	11
C	3.1	3.1
B	10.4	10.4

<LCD CTL>

MODE PIN NO.	REC	PLAY
IC7002		
1	1.1	1.1
2	3	3
3	0	0
4	2.9	2.9
5	3.1	3.1
6	3	3
7	3.1	3.1
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	1.6	1.6
15	0	0
16	0.5	0.5
17	1.1	1.1
18	1.1	1.1
19	1.1	1.1
20	0	0
21	0	0
22	1.6	1.6
23	0	0
24	0	0
25	1.4	1.4
26	0	0
27	1.4	1.4
28	0	0
29	1.4	1.4
30	0	0
31	0	0
32	0	0
33	1.7	1.7
34	0	0
35	3.2	3.2
36	1.6	1.5
37	1.5	1.5
38	0	0
39	3	3
40	0	0
41	3.2	3.2
42	0	0
43	0	0
44	0	0
45	0	0
46	3.2	3.2
47	3.2	3.2
48	0	0
IC7006		
1	7.4	7.4
2	7.4	7.4
3	7.4	7.4
4	0	0
5	1.7	1.7
6	1.7	1.7
7	8	8
8	14.8	14.8
IC7007		
1	0	0
2	0	0
3	0	0
4	2.8	2.8
5	3.2	3.2
IC7008		
1	0	0
2	3.1	3.1
3	3.1	3.1
4	3.1	3.1
5	0	0
6	0	0
7	0	0
8	0	0
9	3	3
10	0	0
11	0.4	0.4
12	1.4	1.4
13	1.4	1.4
14	0.4	0.4

<CCD>

MODE PIN NO.	EE
IC5301	
1	-7.3
2	-7.3
3	0
4	0
5	0
6	0
7	11.2
8	14.9
9	0
10	6.9
11	-7.8
12	6.8
13	1.6
14	1.2
Q5301	
E	10.4
C	14.8
B	11.2

<MONITOR>

MODE PIN NO.	EE
IC7501	
1	-
2	-
3	-
4	-
5	-
6	-
7	-
8	-
Q7501	
E	0
C 4.4	
B	0.4
Q7502	
E	0
C	4.4
B	0.4
Q7503	
E	4.6
C	4.5
B	0
Q7504	
E	0
C	0
B	0.7
Q7507	
E	3.2
C	0
B	3

<E. VF>

MODE PIN NO.	EE
IC1	
1	2.1
2	4.8
3	2.2
4	2.2
5	0
6	1.3
7	2.1
8	4.5
9	4.2
10	0
11	1.9
12	4.4
13	1.8
14	1.8
15	1.8
16	3
Q1	
E	2.4
C	-16
B	1.8
Q2	
E	0
C	4.4
B	0
Q3	
E	0
C	0
B	0.4