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.

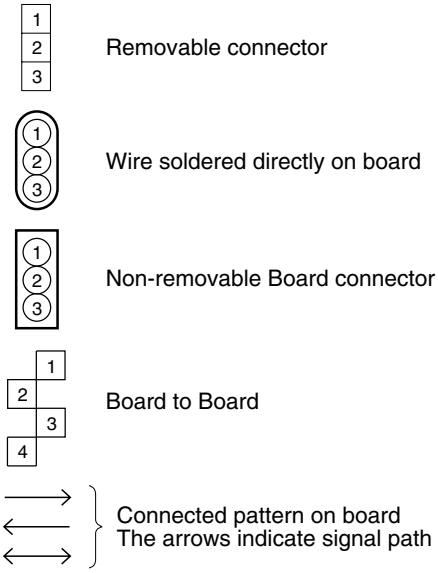
1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K or k: kΩ (1000Ω), M: MΩ (1000kΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high

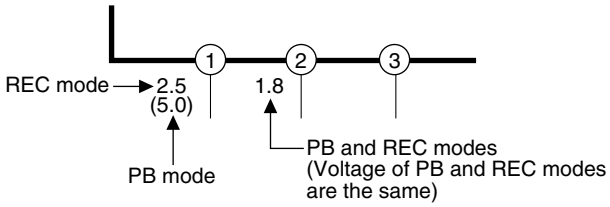
$\overline{\text{AUX}}$ or AUX(L) : Active at low

3. Interpreting Connector indications



4. Voltage measurement

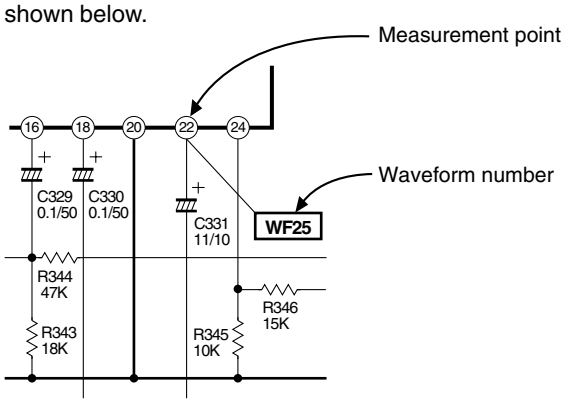
1) Video circuits
   REC : Colour bar signal in SP mode, normal VHS mode
   PB : Alignment tape, colour bar SP mode, normal VHS mode
   — : Unmeasurable or unnecessary to measure
2) Audio circuits
   REC : 1KHz, –8 dBs sine wave signal in SP mode, Normal VHS mode
   PB : REC then playback it
3) Movie 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.



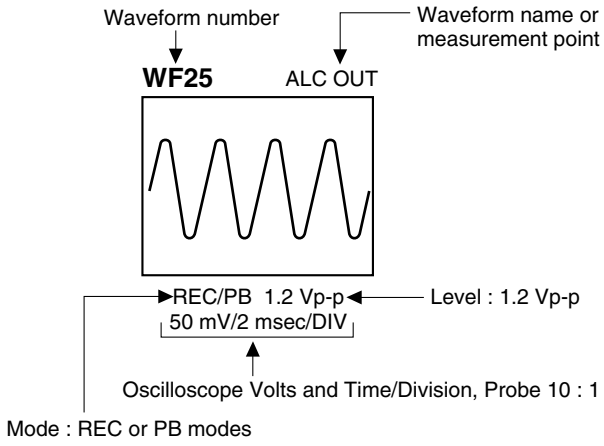
Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

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 chatrs 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.

Playback signal path

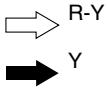
Playback and recording signal path

Recording signal path
(including E-E signal path)

Capstan servo path

Drum servo path

(Example)

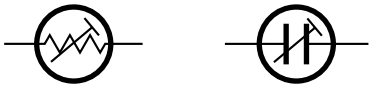


Playback R-Y signal path

Recording Y signal path

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.

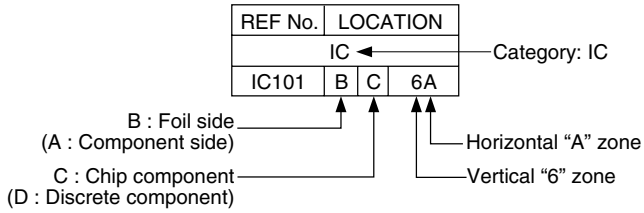
CIRCUIT BOARD NOTES

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

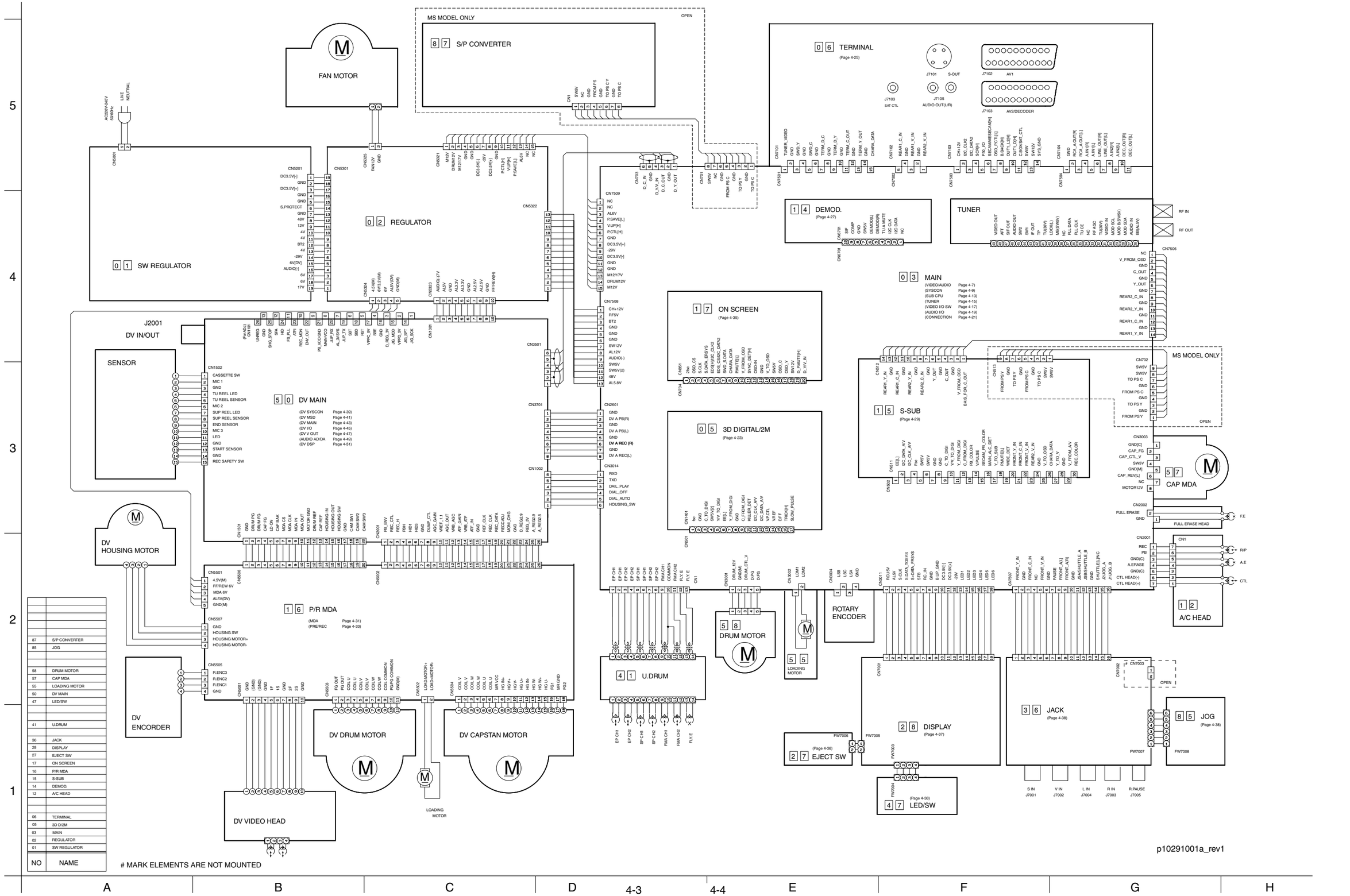
Parts location are indicated by guide scale on the circuit board.



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

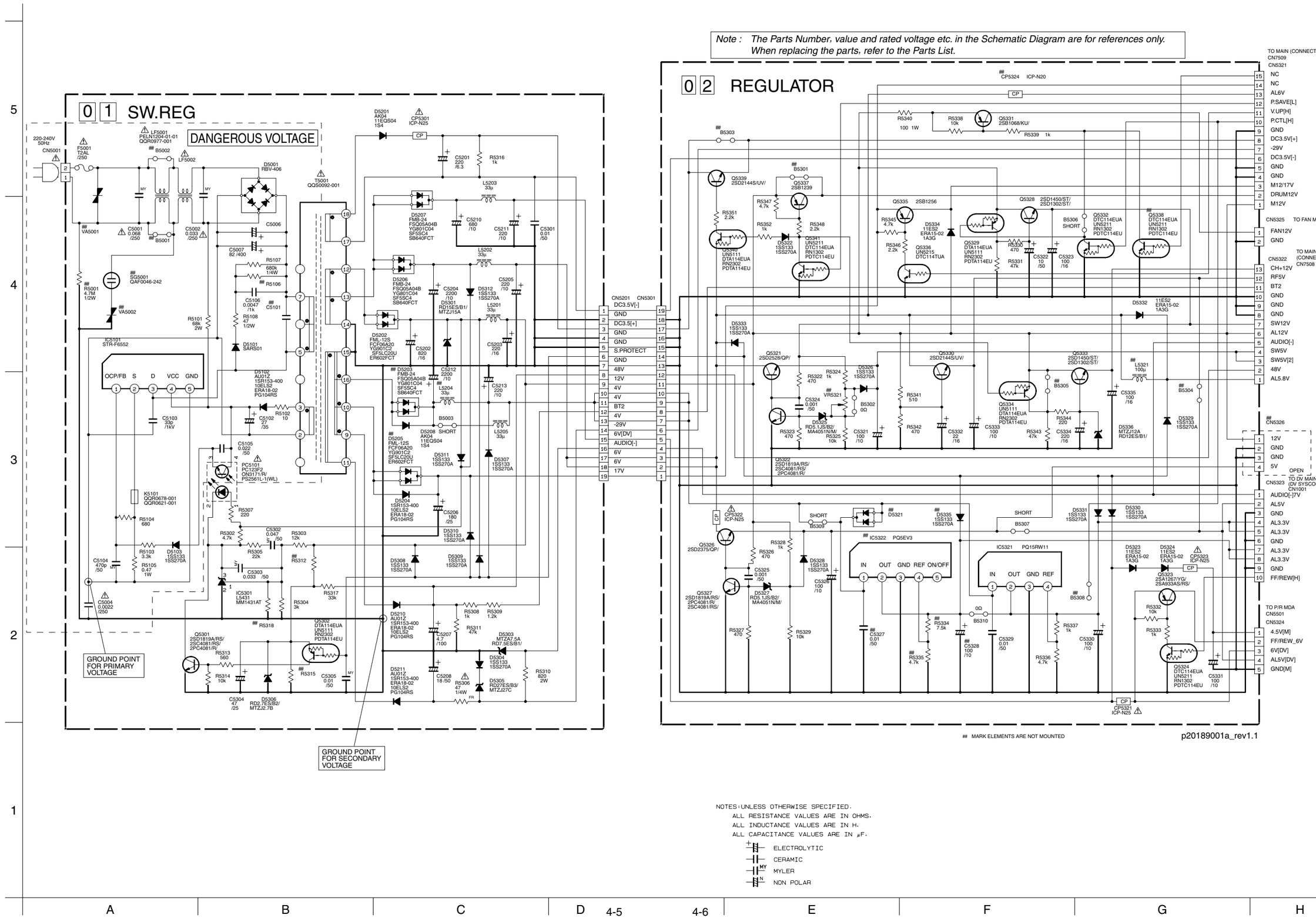


NO	NAME
87	S/P CONVERTER
85	JOG
58	DRUM MOTOR
57	CAP MDA
55	LOADING MOTOR
50	DV MAIN
47	LED/SW
41	U.DRUM
36	JACK
28	DISPLAY
27	EJECT SW
17	ON SCREEN
16	P/R MDA
15	S-SUB
14	DEMOD.
12	A/C HEAD
06	TERMINAL
05	3D D/2M
03	MAIN
02	REGULATOR
01	SW REGULATOR

MARK ELEMENTS ARE NOT MOUNTED

4.2 SWITCHING REGULATOR AND REGULETOR SCHEMATIC DIAGRAMS

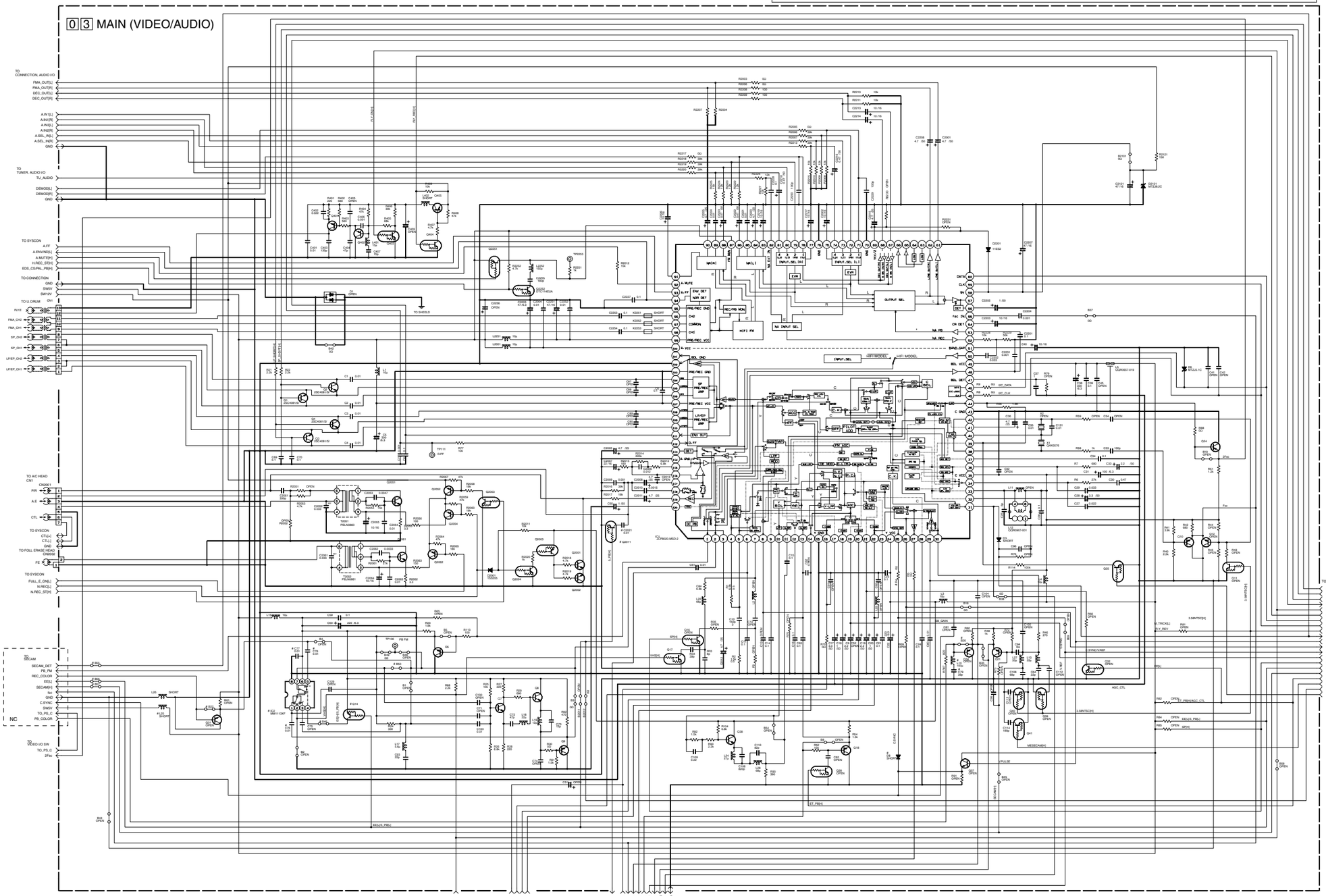
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



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

4.3 VIDEO/AUDIO SCHEMATIC DIAGRAM

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



DIFFERENCE TABLE

○ : Used
× : Not used

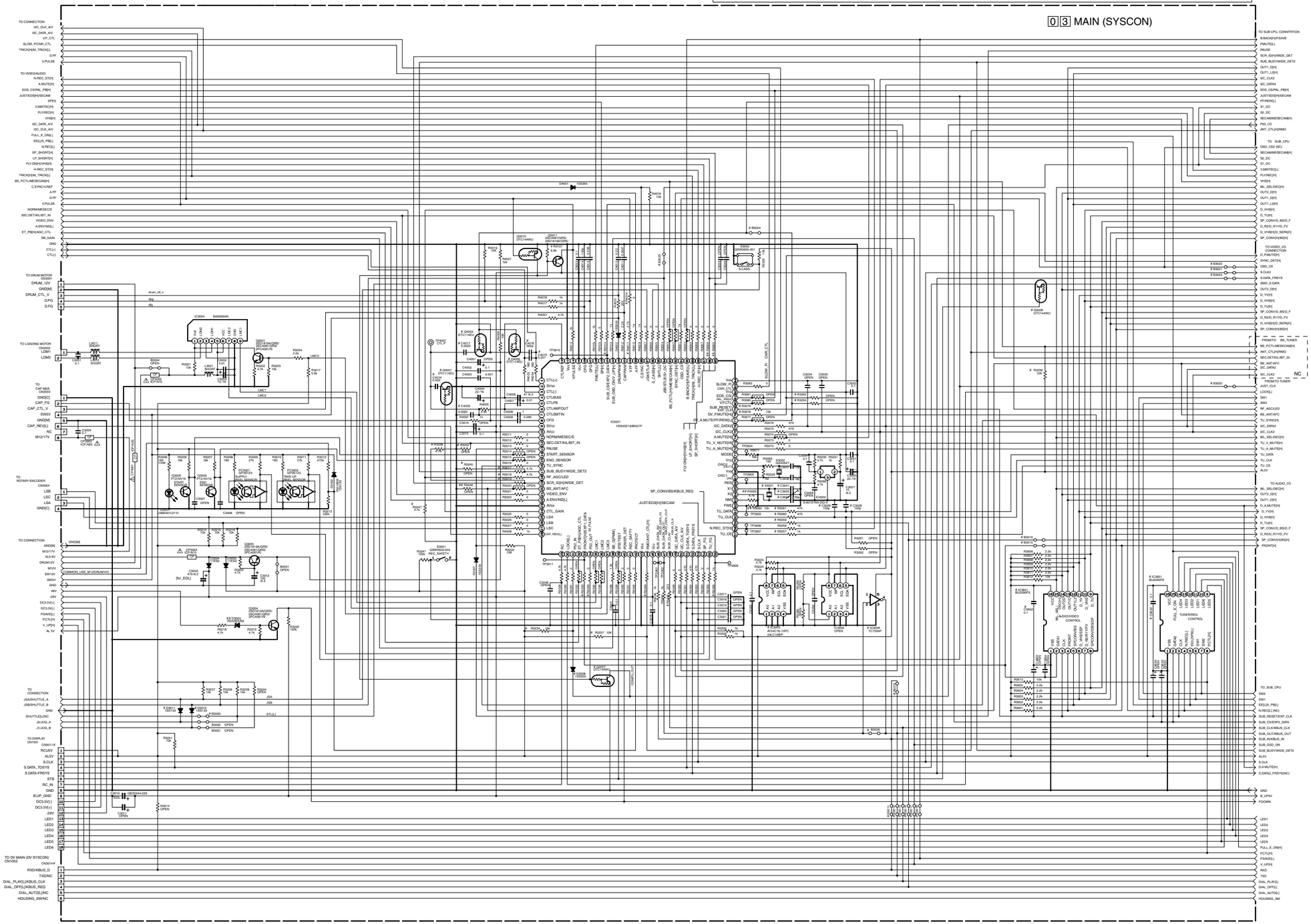
SYMBOL / MODEL	IC2 Q14 D8 R4 R47 C76-C79 L14 L25 B22 B26 B46 B50 B55-B57
HR-DVS2EU HR-DVS2EK	×
HR-DVS2MS	○

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/.
ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR/.
ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144WUA.
ALL PNP TYPE DIGITAL TRANSISTORS ARE DTA144WUA.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.4 SYSTEM CONTROL SCHEMATIC DIAGRAM

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



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

- ELECTROLYTIC
- CERAMIC
- MYLER
- NON POLAR

Marked elements may differ depending on the model.
Be sure to check the Parts List.

p10290001a_rev3

#DIFFERENCE TABLE

○ : Used
X : Not used

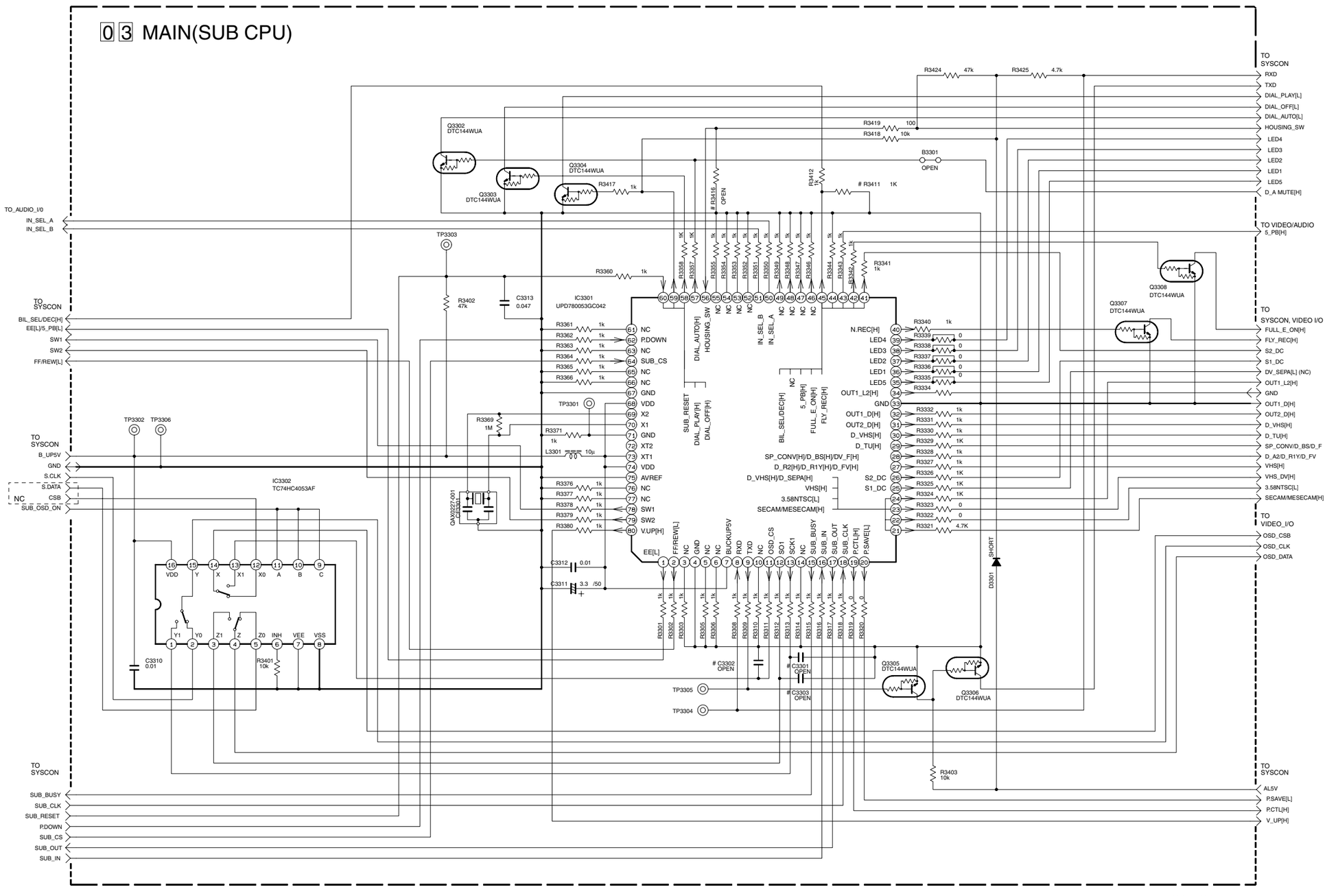
ITEM		SD1EU/EK	SD1MS	SD1US	SD1DOM	HV4DOM	HV4PAL	HV4MS	HV4US
JOG/S	B3003 D3011 D3012	○	○	○	○	X	X	X	X
CTL_GAIN	C4010 Q4001	○	○	○	○	○	○	○	○
SEC.DET/KIL/BIT_IN	R3252	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
SUB_BUSY/W.DET2	R3245	X	X	X	X	X	X	X	X
	R3017	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k
RF_AGC/LED	R3018	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k
	R3247	X	X	4.7k	X	X	X	X	4.7k
SCR_ID/WIDE	R3019	6.8k	6.8k	X	4.7k	4.7k	6.8k	6.8k	X
	R3258	4.7k	4.7k	X	X	X	4.7k	4.7k	X
P50_IN	R3234	10k	10k	X	X	X	10k	10k	X
	Q3007 D3008	○	○	X	X	X	○	○	X
RMO/ANT_CTL	R3257	X	X	X	X	X	X	X	X
	R3044	0Ω	0Ω	X	1k	1k	0Ω	0Ω	X
JUST/EDS/SECAM	R3056	1k	1k	1k	1k	1k	1k	1k	1k
EEPROM	IC3003	16k	16k	8k	8k	8k	8k	8k	8k
TU_CE/CLK/DATA	R3057 R3060 R3061	○	○	X	○	○	○	○	X
SP_CONV/BS/KBUS_REQ	R3059	1k	1k	1k	1k	470	470	470	470
TU_CLK	C3028	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
TU_DATA	C3029	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
CRYSTAL	X3001	QAX0445	QAX0444	QAX0444	QAX0444	QAX0444	QAX0445	QAX0444	QAX0444
	C3025	○	X	X	X	X	○	X	X
	C3041	X	10p	10p	10p	10p	X	10p	10p
	C3024	22p	12p	12p	12p	12p	22p	12p	12p
EXPANDA	IC3601 IC3651 C3602 C3603 C3604 C3652 C3653 C3654	X	X	X	X	○	○	○	○
FRONT[H]/EXP1_DATA	B3015	○	○	○	○	X	X	X	X
SP_CONV/BS/KBUS_REQ	B3016	○	○	○	○	X	X	X	X
JUST_CLK	B3020	X	X	X	○	○	X	X	X
BS_P.CTL	R3256	X	X	X	X	X	X	X	X
SUB_D.IN/KBUS	B3011	X	X	X	X	○	○	○	○
D.IN/RXD	B3019	X	X	X	X	1k	1k	1k	1k
SUB_D.OUT/KBUS D.OUT/TXD	B3012	X	X	X	X	X	X	X	X
SUB_CLK/KBUS CLK/DIAL_PLAY	B3013	X	X	X	X	○	○	○	○
SP_CONV/BS/KBUS_REQ /DIAL_OFF	B3014	X	X	X	X	○	○	○	○
CN3014	CN3014	1-6pin	1-6pin	1-6pin	1-6pin	1-6pin	1-6pin	1-6pin	1-6pin
KBUS_DATA	IC3006	X	X	X	X	○	○	○	○
	B3026	○	○	○	○	X	X	X	X
SUB_OSD_ON/V.UP	B3017	X	X	X	X	○	○	○	○
D_P.MUTE	R3078	1k (10kΩ)	1k	1k	1k	1k	1k	1k	1k
	R3255	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
D_A.MUTE/FF/REW	R3254	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
	B3024	X	X	X	X	○	○	○	○
EDS	Q3009	X	X	○	X	X	X	X	○
OSD	B3021 B3022 B3023	X	X	X	X	○	○	○	○
JBS/STLB/S1_DC	B3025	X	X	X	X	○	X	X	X
CN3011	CN3011	1-18pin	1-18pin	1-18pin	1-18pin	1-18pin	1-18pin	1-18pin	1-18pin
SUB_RESET/EXP.CLK	R3079	1k	1k	1k	1k	1k	1k	1k	1k
FF/REW	C4015	680p (330p)	680p	0.001	680p	680p	680p	680p	0.001
	Q4002 C4016	○	○	X	○	○	○	○	X
	Q4003 C4017	○	○	○	○	○	○	○	○
	C4005	X	X	X	X	X	X	X	X
SUB_CLK/KBUS_CLK	R3048	220	220	220	220	220	220	220	220
B.BACK/P.SAVE	B3018	X	X	X	X	○	○	○	○
IN_SELA/EXP1_DATA	R3033	0Ω	0Ω	0Ω	0Ω	1k	1k	1k	1k
SUB_CS/EXP2_DATA	R3104	4.7k	4.7k	4.7k	4.7k	1k	1k	1k	1k
M_PULSE	Q3010 Q3011 R3107	X	X	○	○	○	X	X	○
P50_OUT/M_PULSE	R3034	0Ω	0Ω	4.7k	4.7k	4.7k	0Ω	0Ω	4.7k
V.FF	R4011	4.7k (2.2k)	4.7k	1k	1k	2.7k	2.7k	2.7k	2.7k
	R4014	0Ω (2.2k)	0Ω	1.8k	1.8k	0Ω	0Ω	0Ω	0Ω

p10290001a_rev3

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

4.5 SUB CPU SCHEMATIC DIAGRAM

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



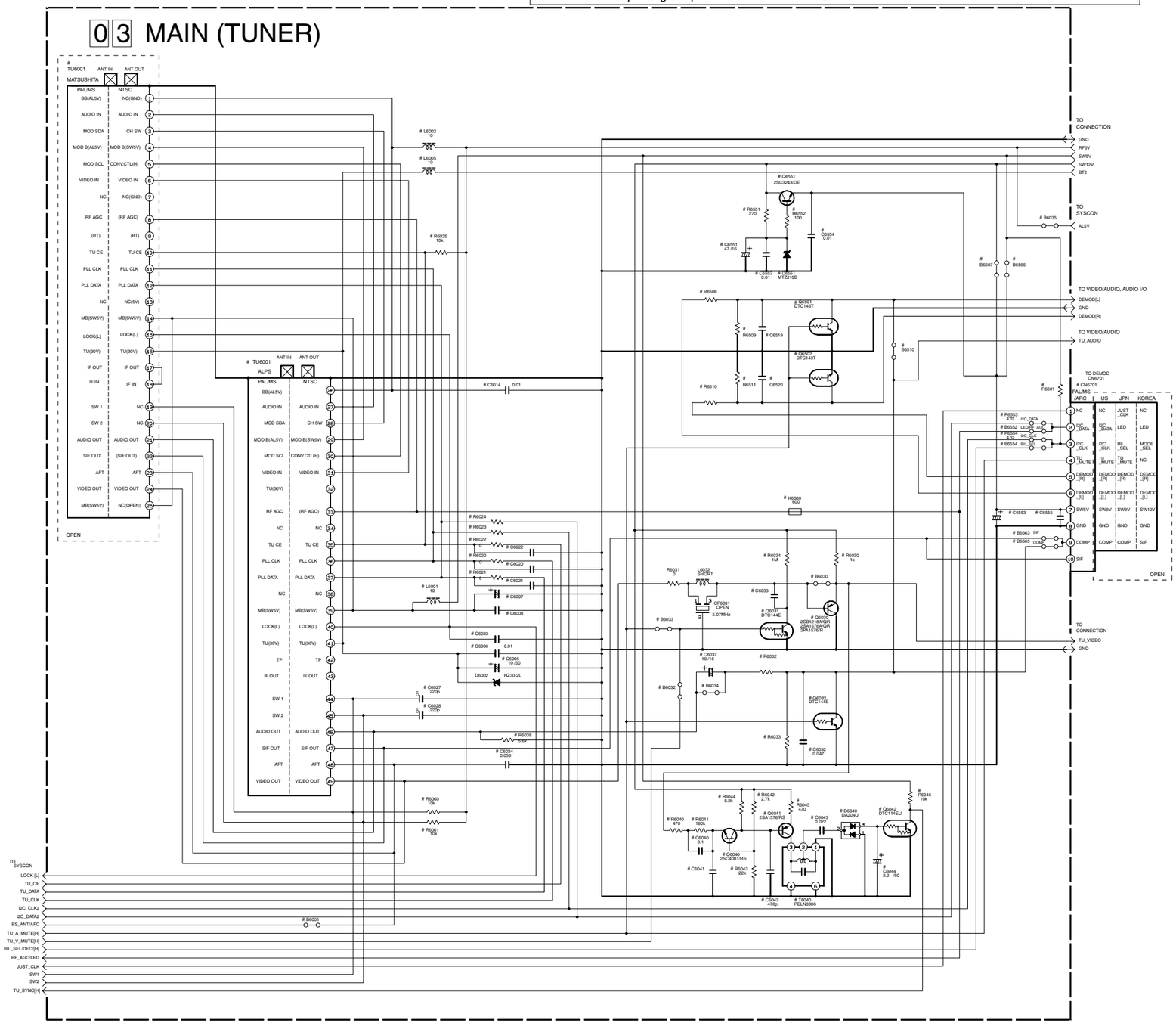
MARK ELEMENTS ARE NOT MOUNTED.

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

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.6 TUNER SCHEMATIC DIAGRAM

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



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

DIFFERENCE TABLE

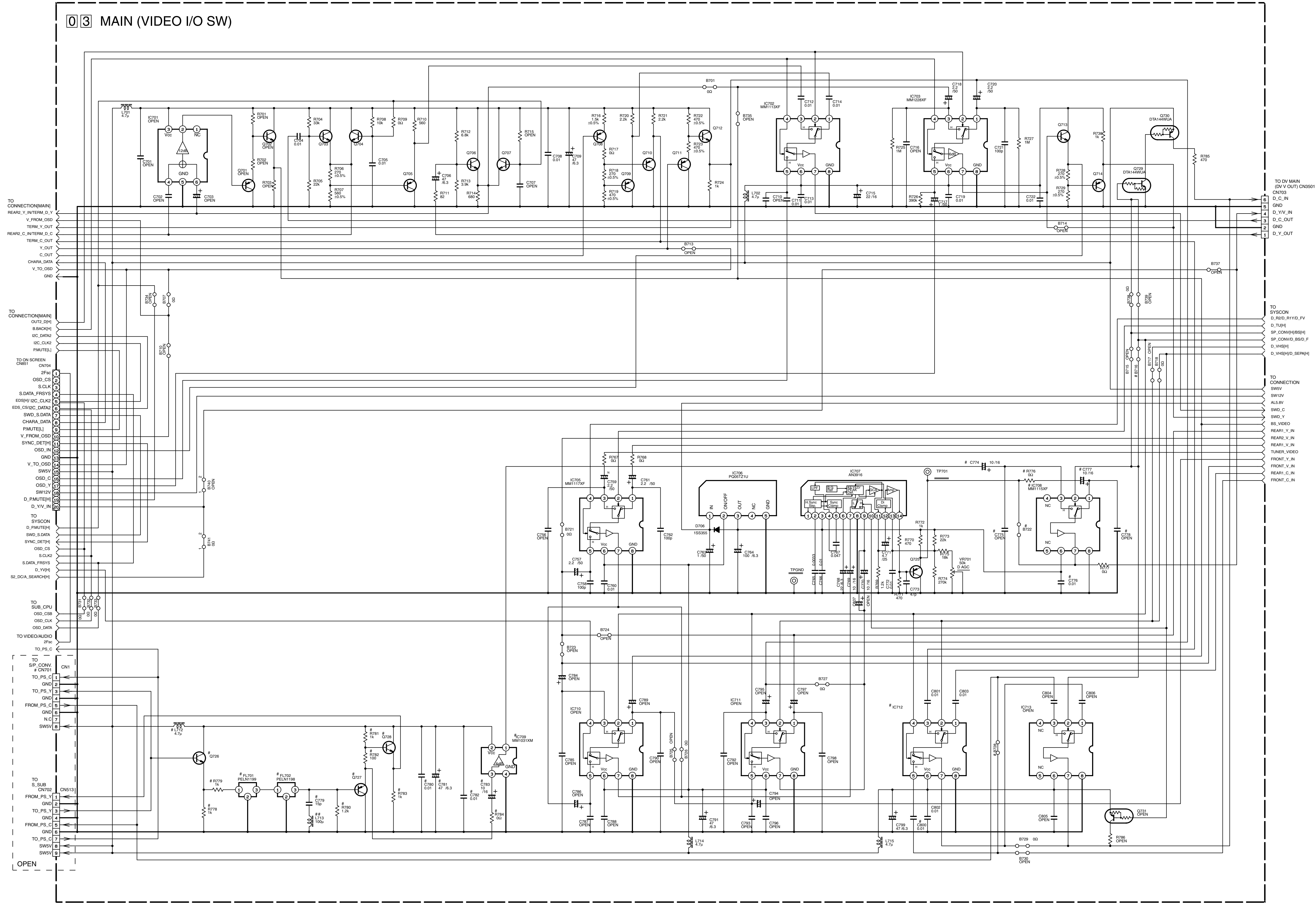
○ Used
× Not Used

TUNER	SYMBOL	EU/EK	FRANCE MS	JAPAN		US	
				DVS2	PVS100	DVS2	PVS100
TUNER	TU6001	ALPS	ALPS	MATSUSHITA	MATSUSHITA		
		QAU0151	QAU0152	QAU0198	QAU0198	QAU0216	
	R6025,B6035	×	×	×	×	×	
ATS+	K6080	○	○	×	×	×	
VIDEO BUFFER	R6030,Q6030	○	○	○	○	×	
	B6030	×	×	×	×	○	
TU_V_MUTE	Q6031	○	○	○	×	×	
	R6034	×	×	○	×	×	
	C6033	0	0	0.0047	×	×	
	B6032	○	○	×	×	×	
TU_A_MUTE	Q6032	○	○	×	×	×	
	B6033	×	×	○	×	×	
AUDIO OUT	R6032	3.9k	3.3k	0	0	12k	
	R6033	1.8k	1.8k	×	×	×	
	R6038	×	×	×	×	×	
	C6032	0.047	×	×	×	×	
	B6034	×	×	○	○	○	
	C6037	○	○	×	×	×	
AFC	B6001	○	○	×	×	○	
	C6024	×	×	×	×	×	
CENELEC	C6027,C6028	×	○	×	×	×	
TU(30V)	C6005	×	×	×	×	×	
	C6006	×	×	×	×	×	
	L6005	10	10	SHORT	SHORT	SHORT	
MB(SW5V)	C6007	330/10	330/10	×	×	×	
	C6008	×	×	×	×	×	
	L6001	○	○	SHORT	SHORT	SHORT	
BB(AL5V)	C6014,L6002	○	○	×	×	×	
PLL CLK	R6020	470	470	1k	1k	1k	
	R6023	×	×	×	×	×	
	C6020	×	×	×	×	×	
PLL DATA	R6021	470	470	1k	1k	1k	
	R6024	×	×	×	×	×	
	C6021	×	×	×	×	×	
TU CE	R6022	470	470	1k	1k	×	
	C6022	×	×	×	×	×	
LOCK	C6023	○	○	×	×	×	
SYSTEM SW	R6060,R6061	○	○	×	×	×	
SYNC DET	R6040~R6046, C6040~C6044, Q6040~Q6042, D6040,T6040	×	×	×	×	○	

DEMOD	SYMBOL	EU/EK	FRANCE MS	JAPAN		US	
				DVS2	PVS100	DVS2	PVS100
DEMOD PWB ASSY	CN6701	LPA10094*	LPA10094*	PB11087*	PB11087*	PB11076*	PB11076*
9V REG	R6551,R6552, Q6551,D6551	×	×	○	○	○	
	C6551,C6552	×	×	×	×	×	
DEMOD REG PASS CON	C6553	33/16	33/16	×	×	×	
	C6554	×	×	×	×	×	
	C6555	0.01	0.01	×	×	×	
SW12V	B6607	×	×	×	×	×	
DEMOD OUT	R6508,R6510	0	0	0	0	0	
	R6509,R6511	×	×	×	×	×	
	C6519,C6520	×	×	×	×	×	
MUTE	Q6501,Q6502	×	×	×	×	○	
TUNER MONO	B6510	×	×	×	×	×	
DEMOD SELECTION	R6553,R6554	0	0	×	×	○	
	B6552,B6554	×	×	○	○	×	
	B6563	×	×	×	×	×	
	B6565	×	×	○	○	○	
	B6566	○	○	×	×	×	
	R6601	×	×	×	×	×	

4.7 VIDEO I/O SWITCH SCHEMATIC DIAGRAM

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



DIFFERENCE TABLE

S.NO / MODEL	IC708, IC709 Q726~Q728 R776, R778~R784 C774~C778, C779~C783, C800 L712 B716, B728 FL701, FL702 CN701	B722	IC712
HR-DVS2EU/EK	X	O	MM1111XF
HR-DVS2MS	O	X	MM1113XF

O Used
X Not used

Marked elements may differ depending on the model.
Be sure to check the Parts List.

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

ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/.
ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR/.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

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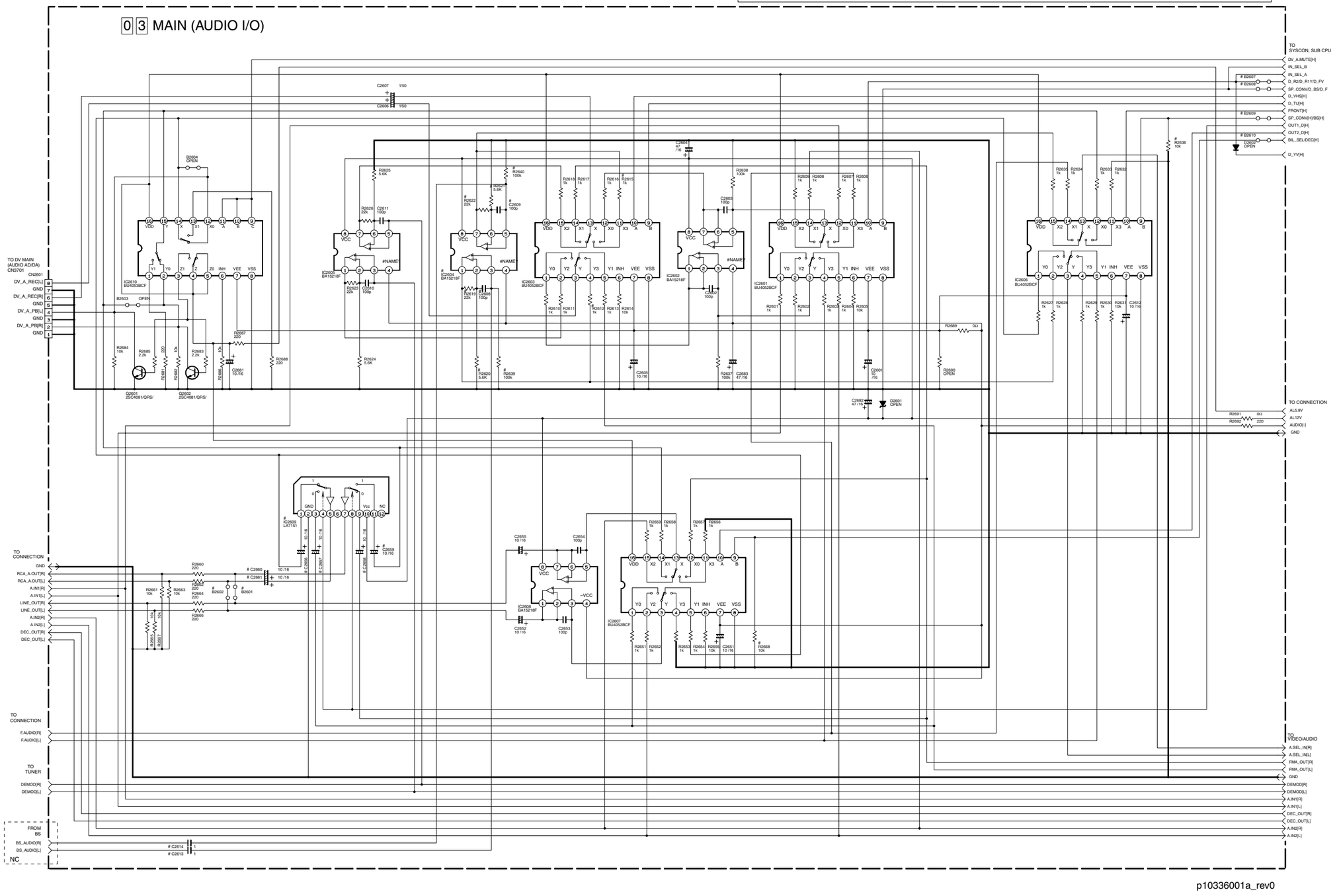
4.8 AUDIO I/O SCHEMATIC DIAGRAM

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



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DIFFERENCE TABLE

○ Used
× Not used

SYMBOL / MODEL	B2601,B2602 B2607,B2608	IC2609 C2656-C2661
With DVC	×	○
With HDD	○	×

SYMBOL / MODEL	B2609 R2668	B2610 R2636
NTSC	○	×
PAL/MS	×	○

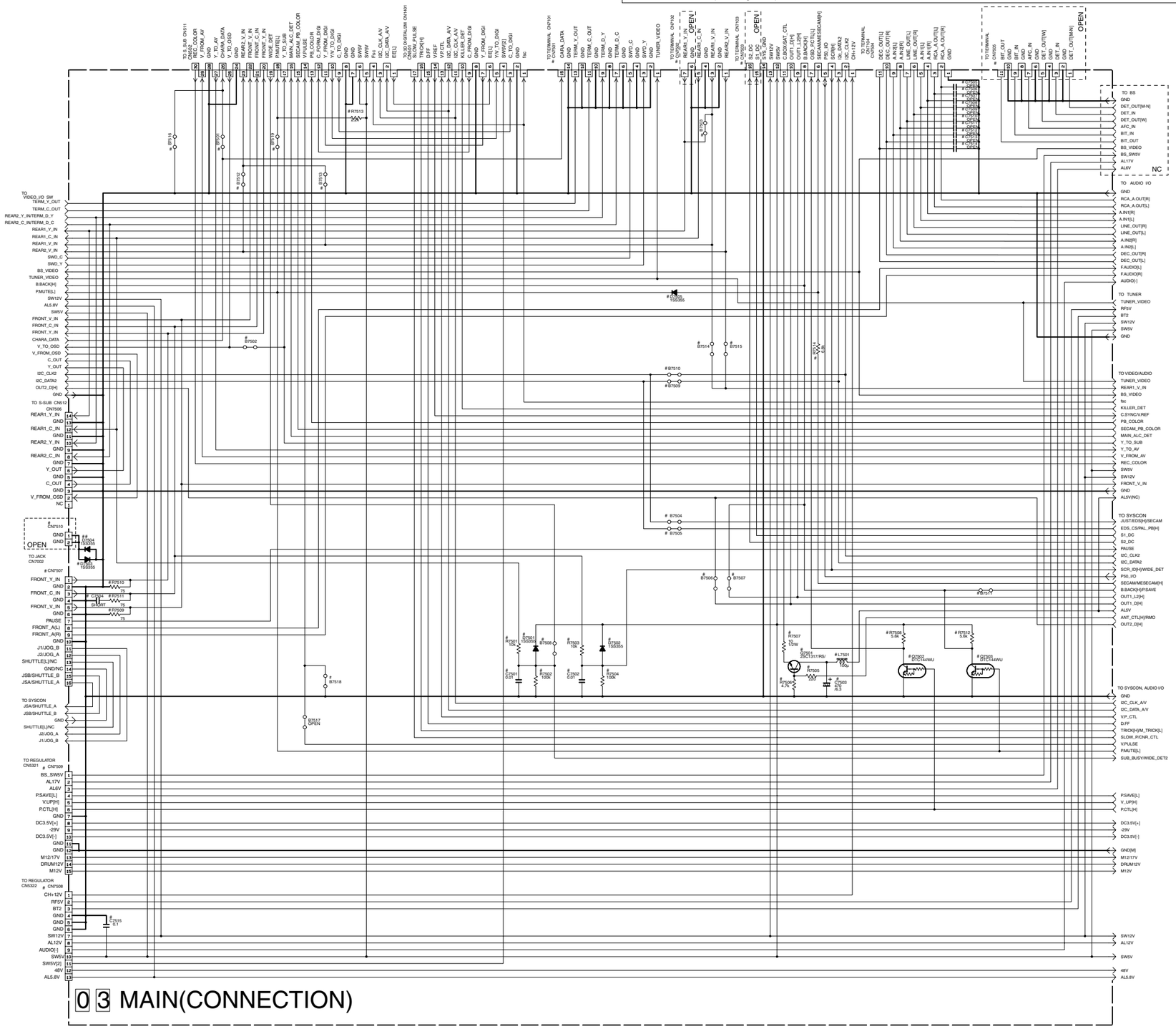
SYMBOL / MODEL	IC2604 ,R2612,R2615 R2619-R2622,R2639,R2640 C2608,C2609,C2613,C2614
With BS	○
W/O BS	×

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

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.9 CONNECTION SCHEMATIC DIAGRAM

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



○ Used
× Not used

DIFFERENCE TABLE

	HR-DVS2 EU	EK	MS	DOM	US	HR-PVS100
B7501	×	×	×	×	×	○
B7502	×	×	×	×	×	×
B7503	○	○	○	×	×	×
B7504	×	×	×	×	○	×
B7505	×	×	×	×	○	×
B7506	×	×	×	×	×	×
B7507	×	×	×	×	×	×
B7508	×	×	×	○	×	×
B7509	○	○	○	×	×	×
B7510	○	○	○	×	×	×
B7511	○	○	○	○	○	×
B7512	○	○	○	×	×	×
B7513	×	×	×	○	○	○
B7514	○	○	○	×	×	×
B7515	×	×	×	○	○	○
B7516	○	○	○	○	○	×
B7517	×	×	×	×	×	×
B7518	○	○	○	○	○	○
B7519	×	×	×	○	○	○
R7513	○	○	○	×	×	×
R7501 ~ C7514	×	×	×	×	×	○
C7515	×	×	×	○	○	○
G7501 ~ L7501	○	○	○	×	○	×
C7503 ~ G7503	○	○	○	○	○	×
R7512 ~ C7504	×	×	×	×	×	○
R7509 ~ C7504	×	×	×	×	×	×
CN7510 ~ D7503	×	×	×	×	×	×
CN7501	1-15	1-15	1-15	3-15	3-15	3-6
CN7502	1-5	1-5	1-5	1-7	1-7	1-7
CN7503	1-14	1-14	1-14	7-16	7-16	8-15
CN7505	X	X	X	1-11	X	1-11
CN7507	1-16	1-16	1-16	1-16	1-16	1-10
CN7508	1-13	1-13	1-13	3-13	3-13	3-13
CN7509	3-15	3-15	3-15	1-15	3-15	1-15
D7505	○	○	○	×	×	×
R7514	○	○	○	×	×	×

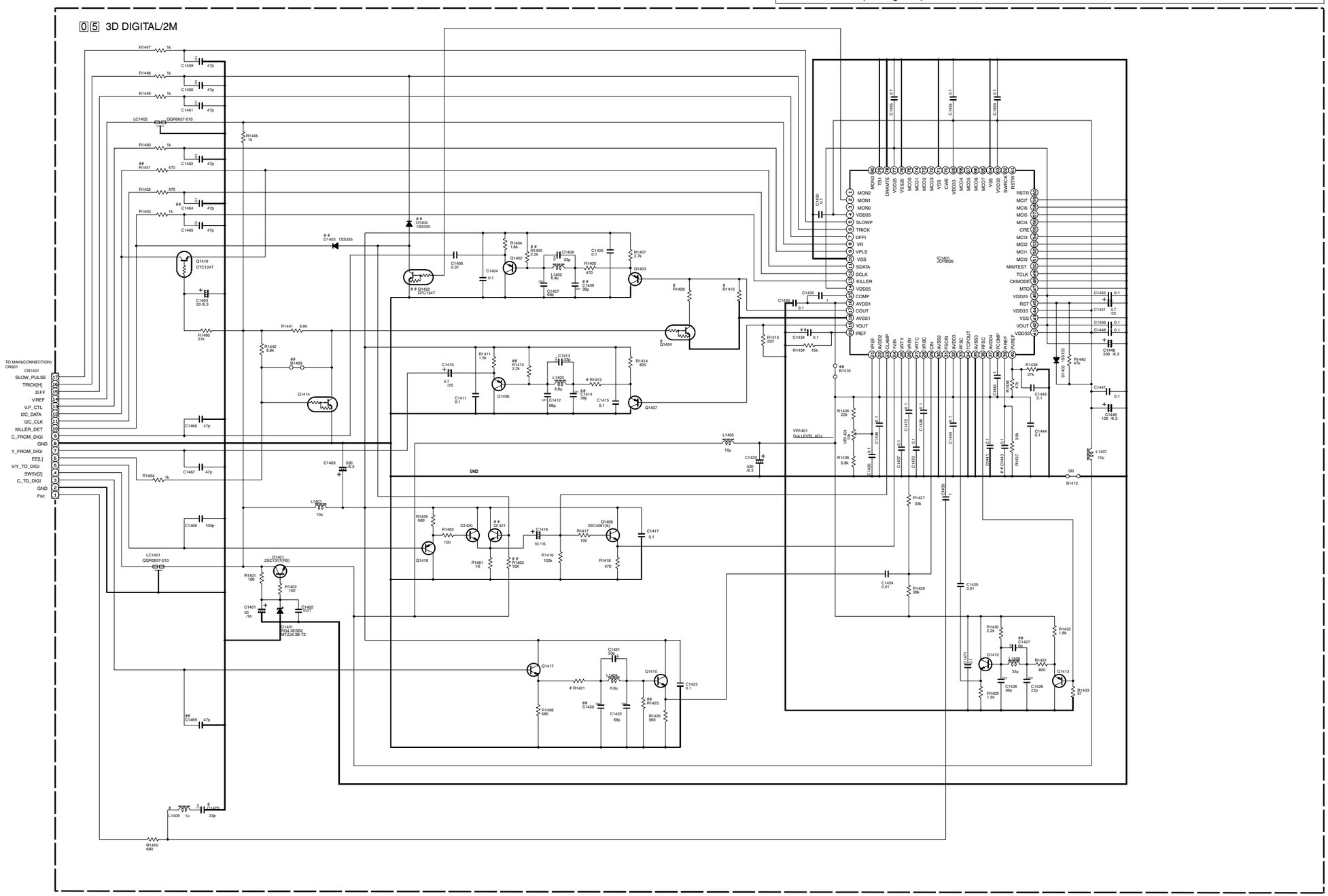
Marked elements may differ depending on the model.
Be sure to check the Parts List.

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

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.10 3D DIGITAL/2M SCHEMATIC DIAGRAM

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



p10276001a_rev1

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

MARK ELEMENTS ARE NOT MOUNTED.
ALL SINGLE DIODE:1SS133 OR 1N4148.
ALL PNP TRANSISTOR:2SA1576A(QR) OR 2SB1218A(QR) OR 2PA1576(R)
ALL NPN TRANSISTOR:2SC4081(QRS) OR 2SD1819A(QRS) OR 2PC4081(R)
ALL NPN DIGITAL TRANSISTOR:DTC144WUA OR UN521E OR RN1309

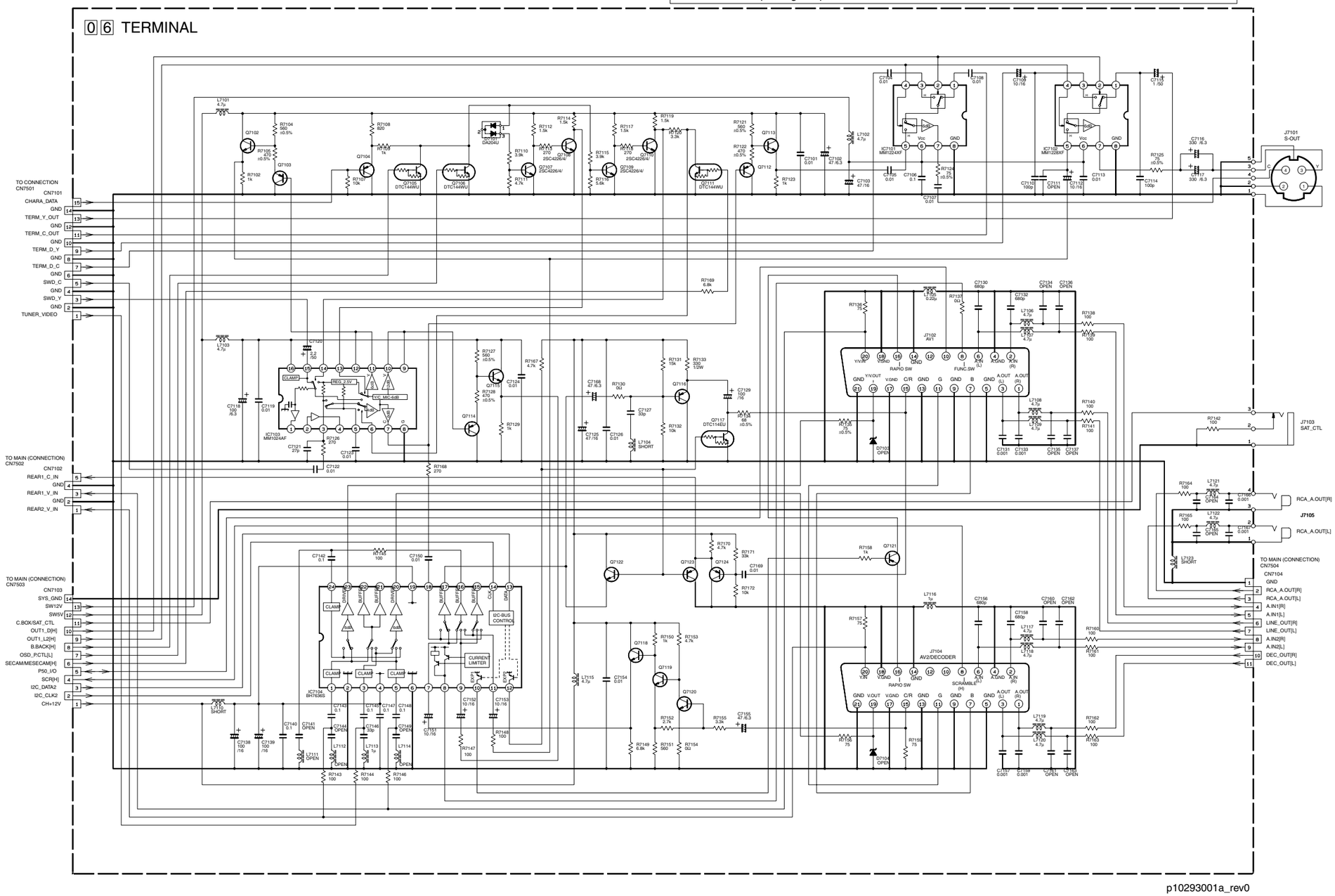
DIFFERENCE TABLE

○ Used
× Not used

		Q1404	R1408	R1410	R1413	R1421	C1470	L1409	
PAL/MS	○	1.2k	390	330	390	33p	1u		
NTSC	×	OPEN	240	470	330	OPEN	OPEN		

4.11 TERMINAL SCHEMATIC DIAGRAM

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



p10293001a_rev0

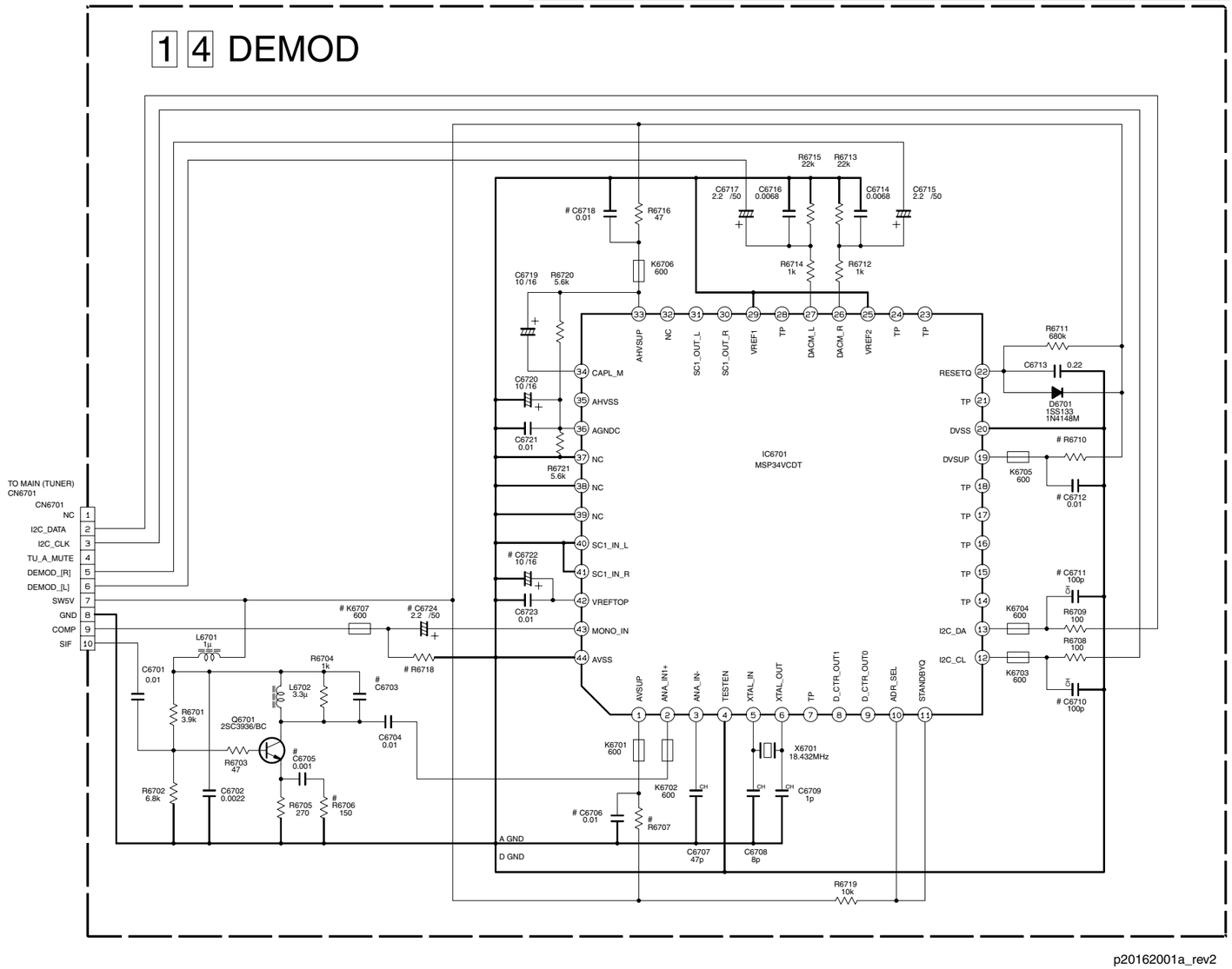
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/.
ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR/.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO		VACANT NO
	7101-	
R	7172	7101, 7103, 7106, 7166
C	7169	7128
L	7123	
D	7104	7102
Q	7124	7101
IC	7104	
J	7105	

4.12 DEMODULATOR SCHEMATIC DIAGRAM

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



p20162001a_rev2

DIFFERENCE TABLE

○ Used
× Not used

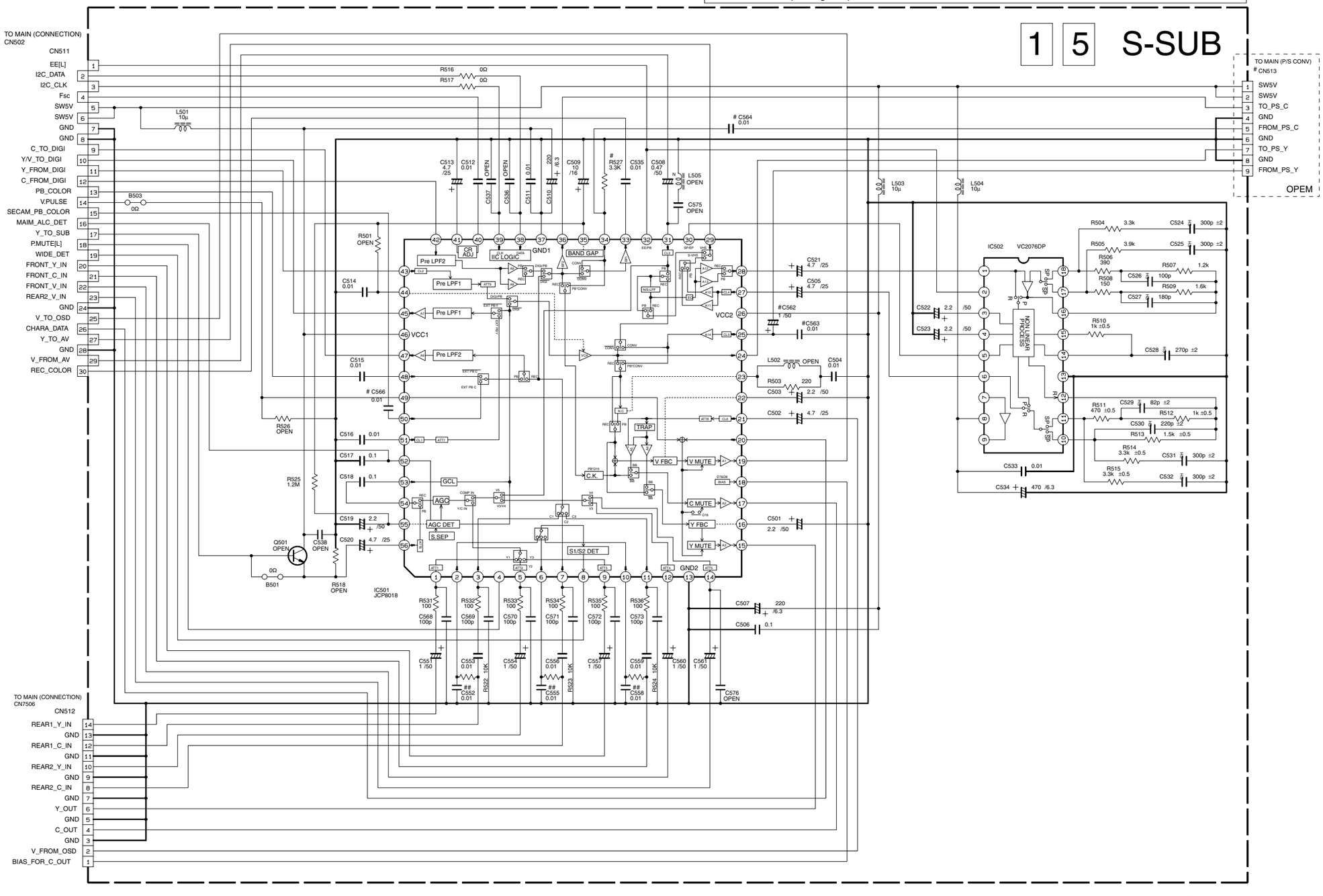
	SYMBOL	FRANCE MS	BASIC	ARC	
		STEP UP EU/EK	EU/EK	3SYSTEM	4SYSTEM
PRE AMP	R6706 C6705	○	○	×	×
	C6703	×	×	180p	220p
MONO IN	C6724 K6707	○	×	×	×
	R6718	×	×	×	×
ANALOG Vcc	R6707	22	47	47	47
	C6706	×	×	×	×
I2C_bus	C6710 C6711	×	×	×	×
DIGITAL Vcc	R6710	10	12	12	12
	C6712	×	×	×	×
DAC Vcc	C6718	×	×	×	×
	C6722	×	×	×	×

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

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.13 S-SUB SCHEMATIC DIAGRAM

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



p20168001a_rev0

DIFFERENCE TABLE

○ Used ✕ Not used

	CN513 C562 C564 C566	C563 R527
MS	○	✕
OTHERS	✕	○

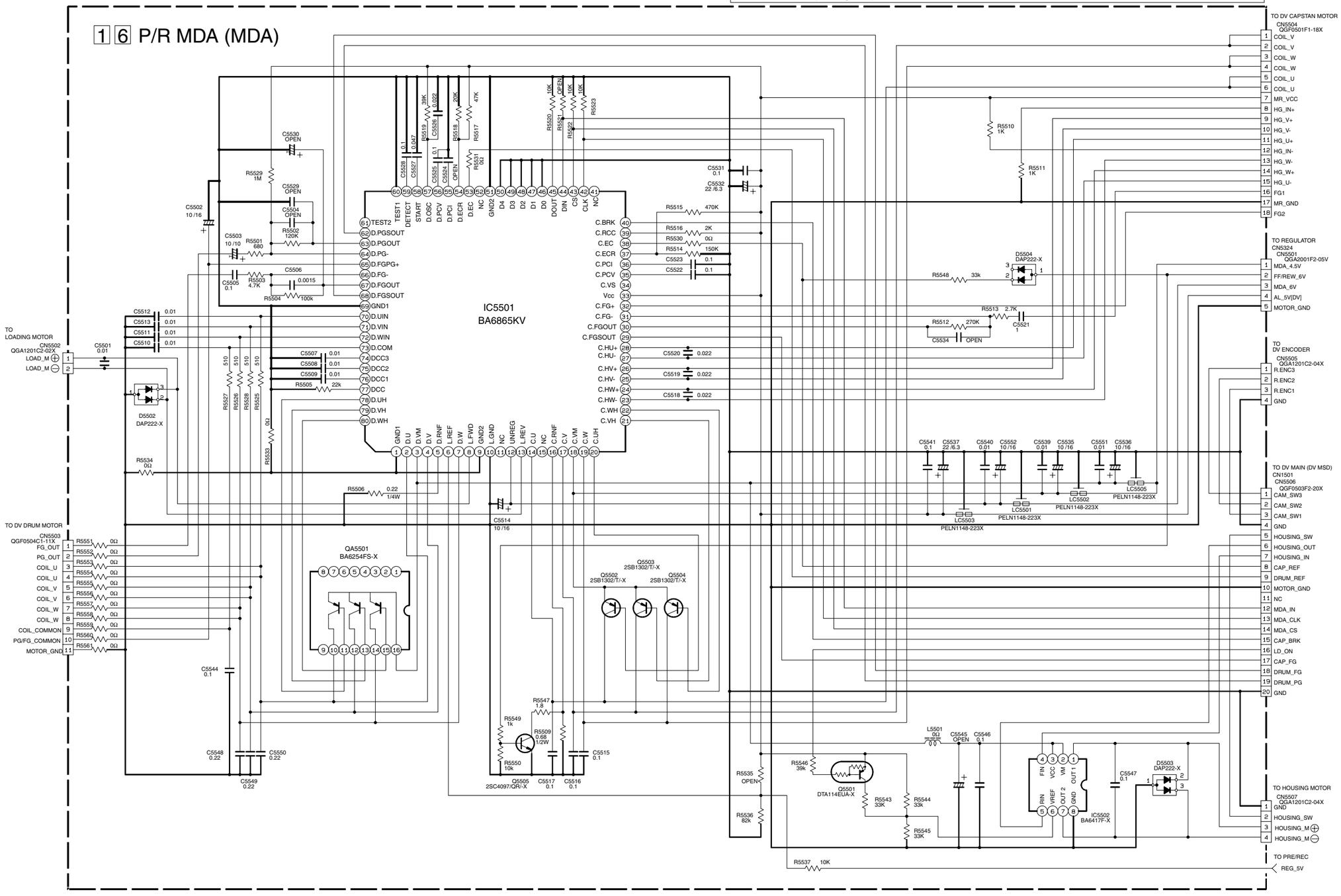
Marked elements may differ depending on the model. Be sure to check the Parts List.

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

ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

4.14 MDA SCHEMATIC DIAGRAM

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



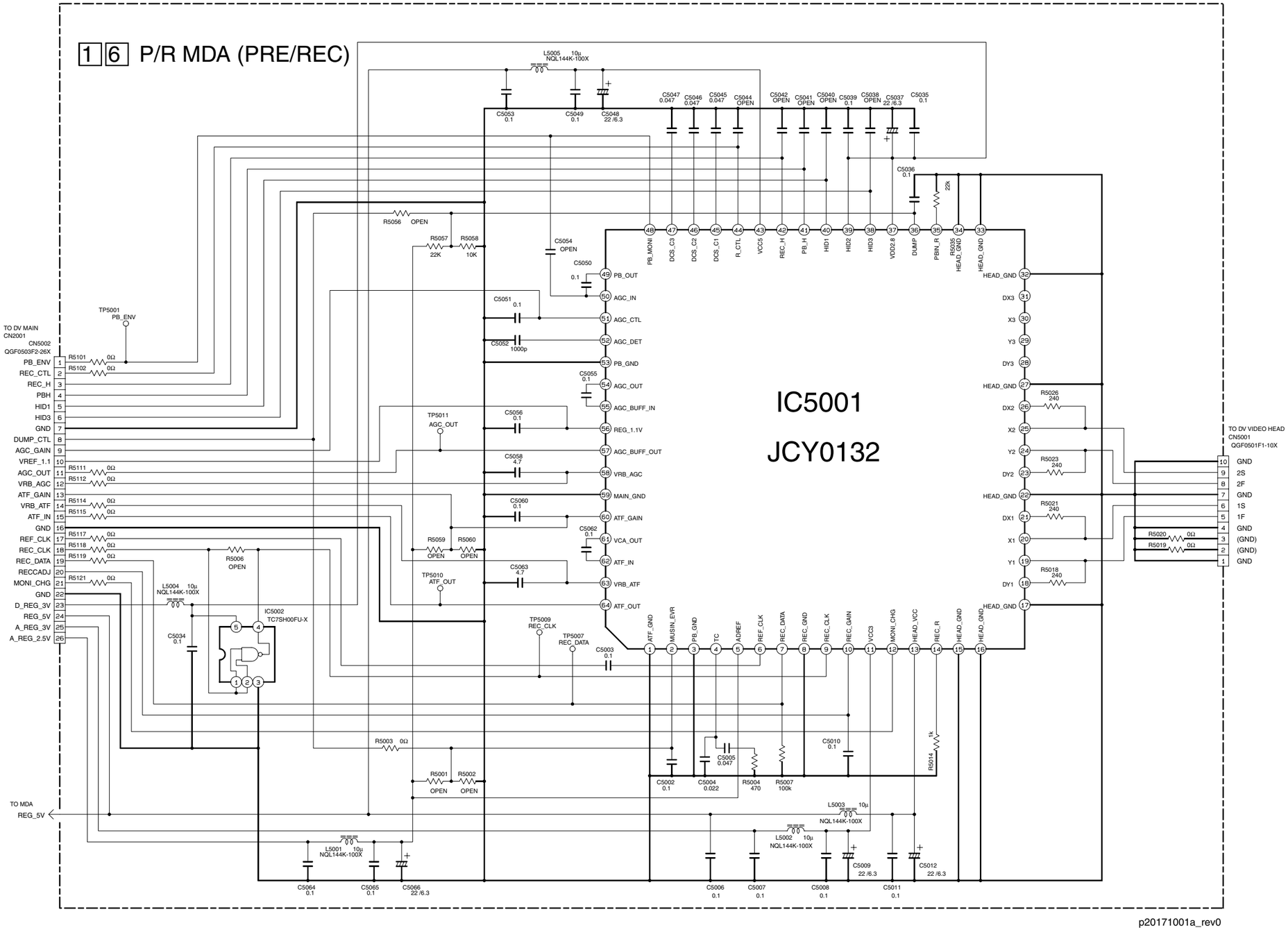
p20172001a_rev0

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

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.15 PRE/REC SCHEMATIC DIAGRAM

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



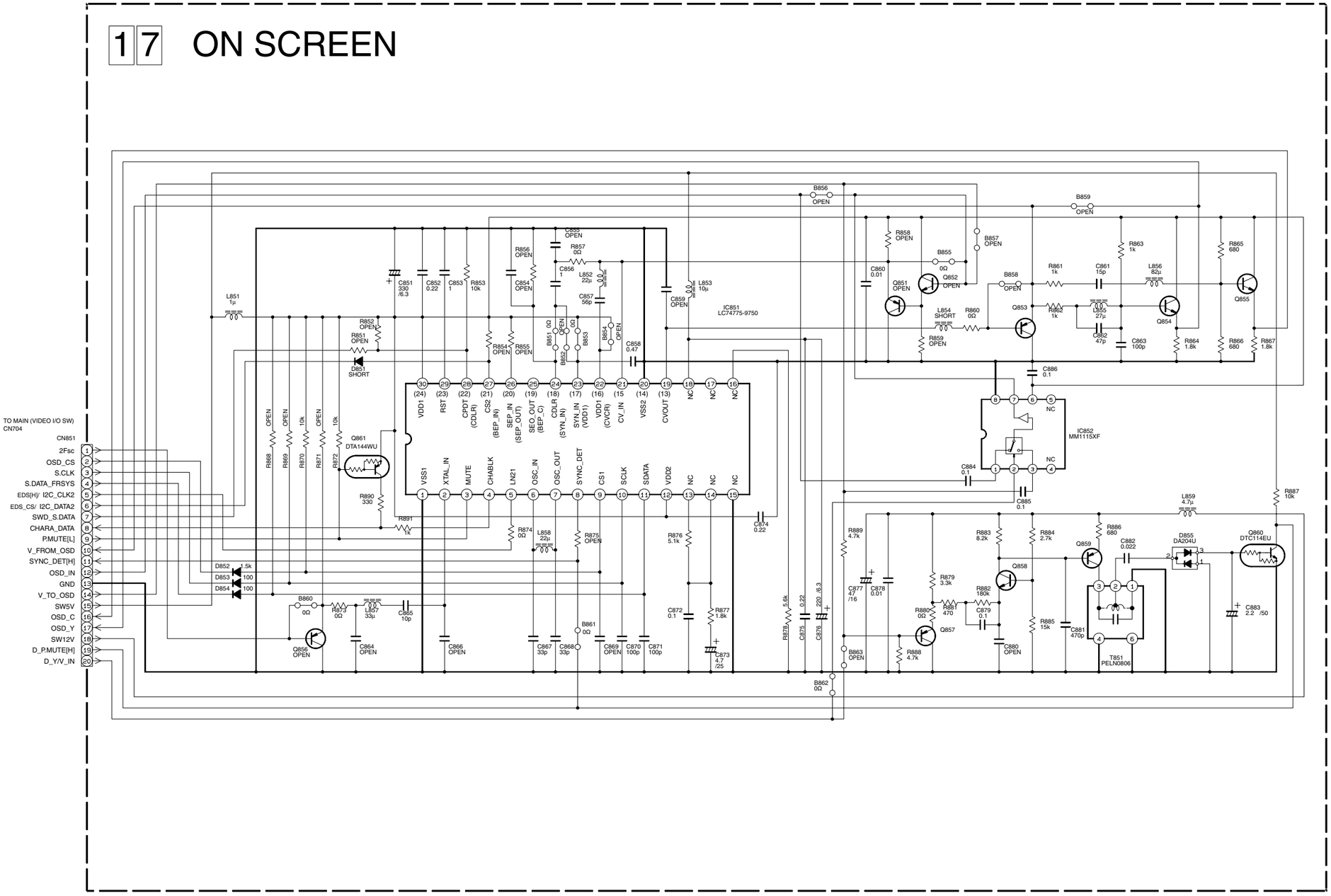
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.16 ON SCREEN SCHEMATIC DIAGRAM

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

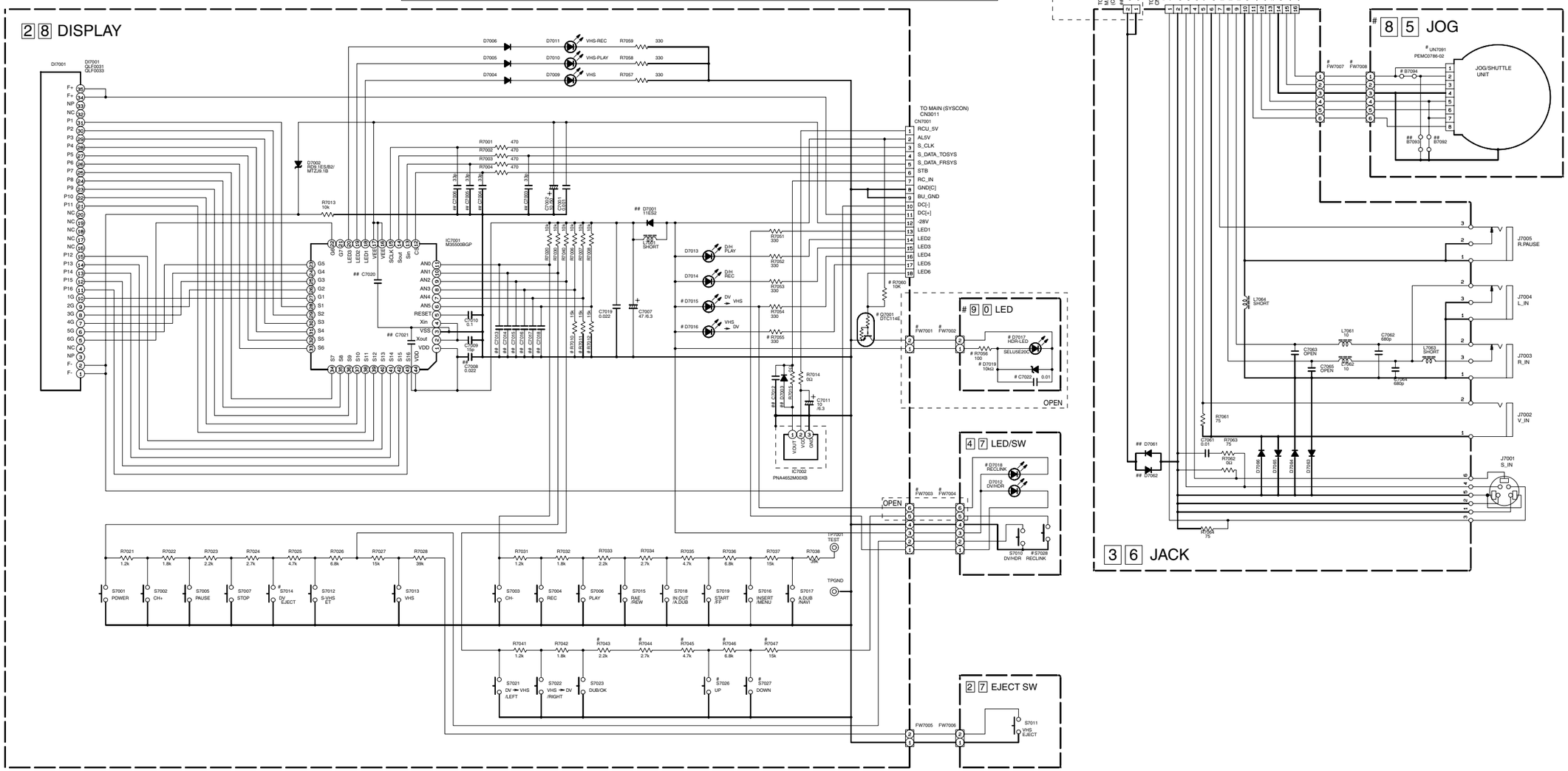
17 ON SCREEN



p20192001a_rev0

4.17 DISPLAY, EJECT SW, LED/SW, KACK AND JOG SCHEMATIC DIAGRAMS

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



p10309001a_rev1

○ Used
X Not used

DIFFERENCE TABLE

	8 5 JOG UN7091 B7094 FW7007 FW7006	CN7002	9 0 LED D7017 FW7001 FW7002 R7060 Q7001	D7018 S7026 S7027 S7028	R7043 R7044 R7045 R7046 R7047	S7014 D7015 D7016 R7055	FW7003 FW7004
HR-DV/S2 (EU/EK/MS /DOM/U)	○	1-16	X			○	1-4
HR-PVS100	X	1-10	○			X	1-6

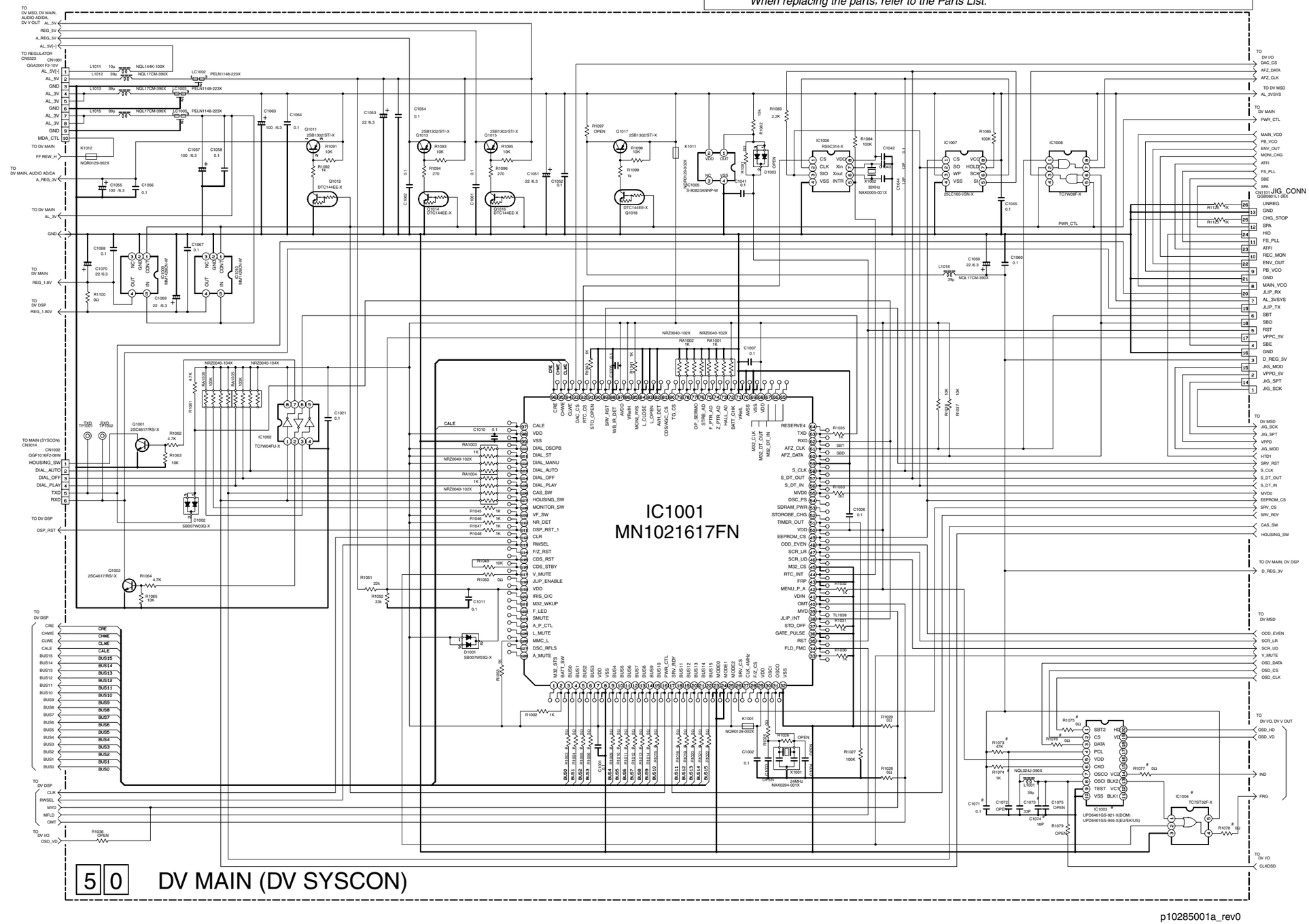
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL DIODES ARE 1N4148M OR 1SS133
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MY MYLER
PP NON POLAR

##:NOT USED

4.18 DV SYSTEM CONTROL SCHEMATIC DIAGRAM

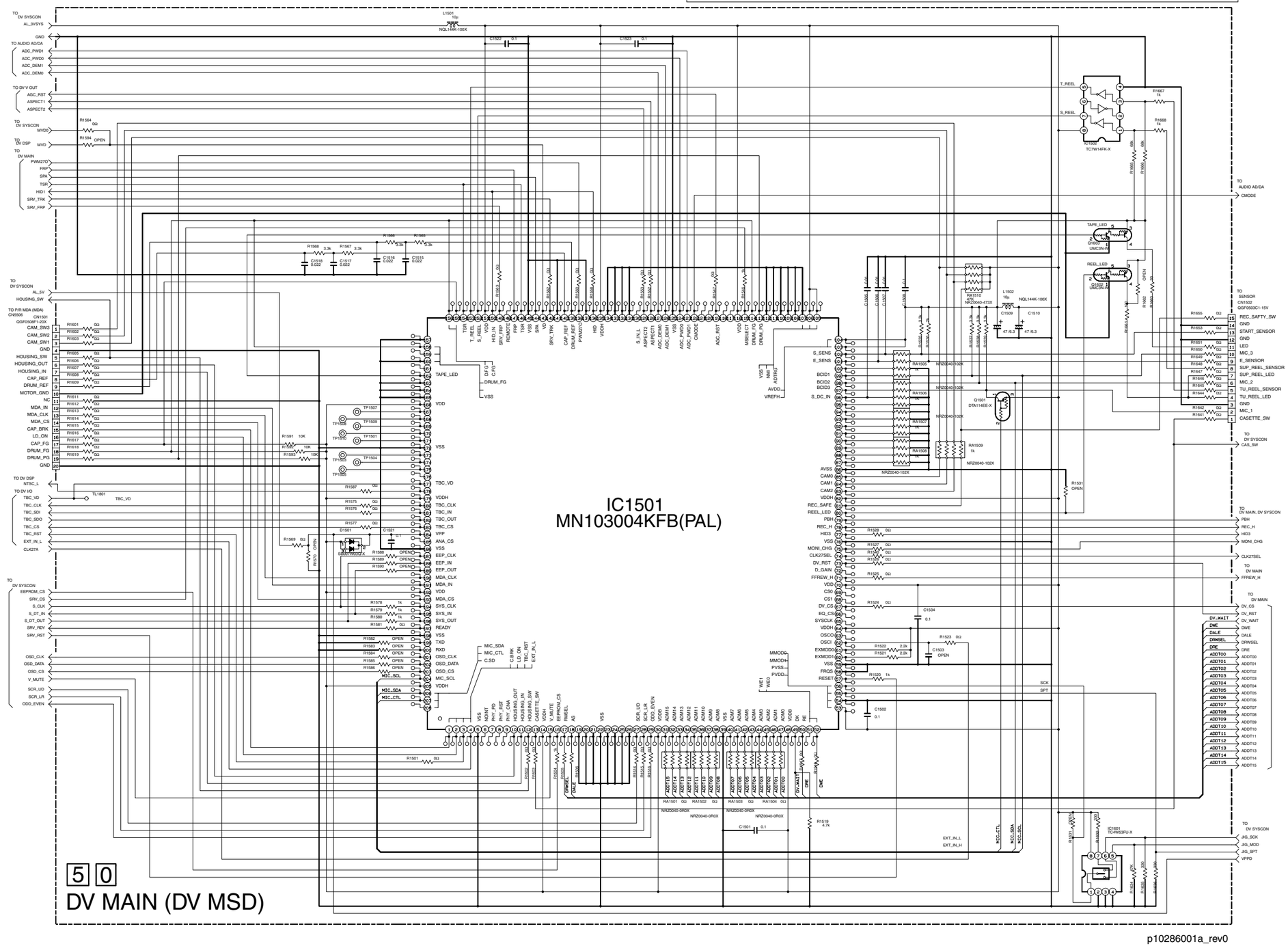
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



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

4.19 DV MSD SCHEMATIC DIAGRAM

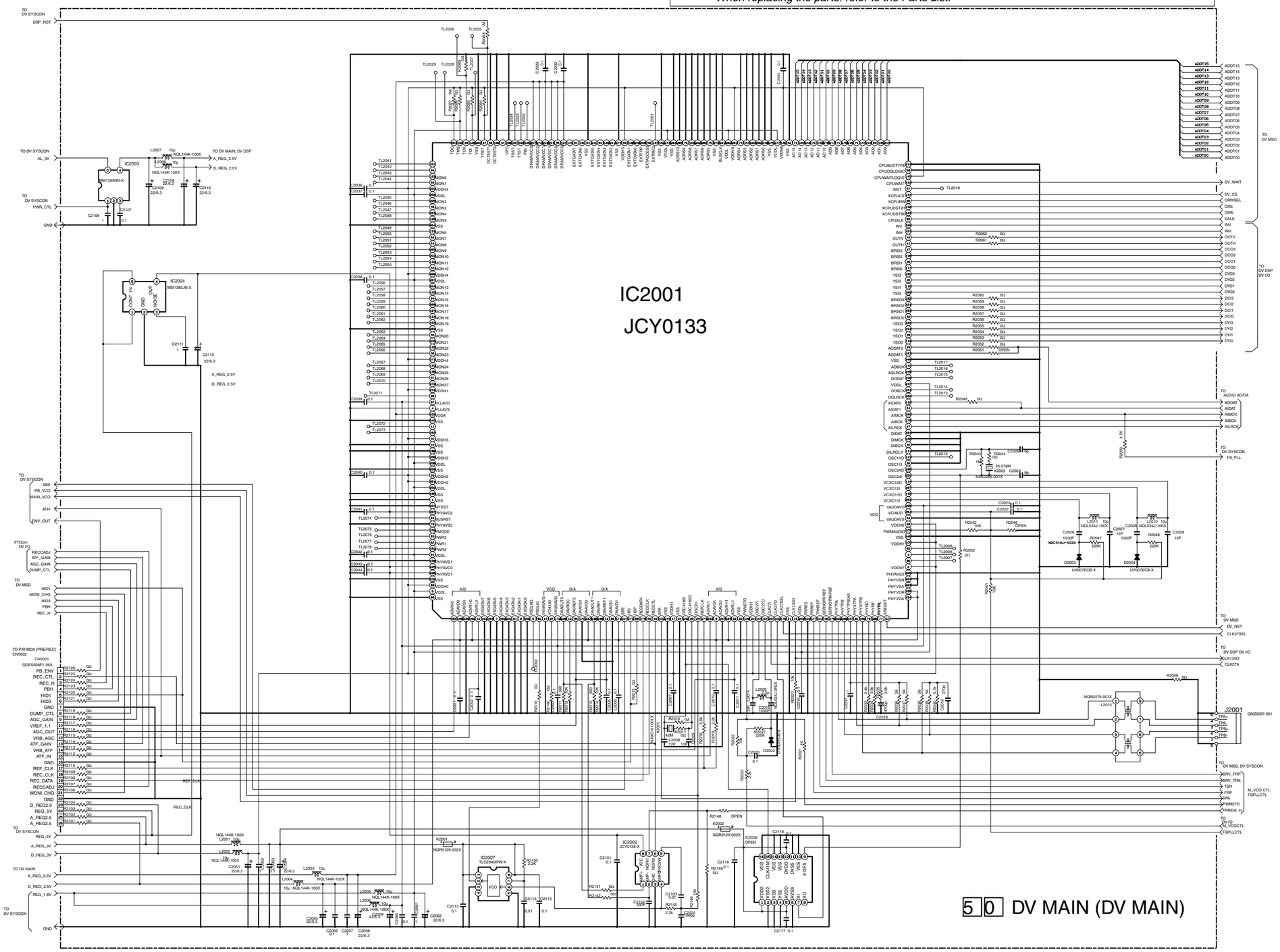
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



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

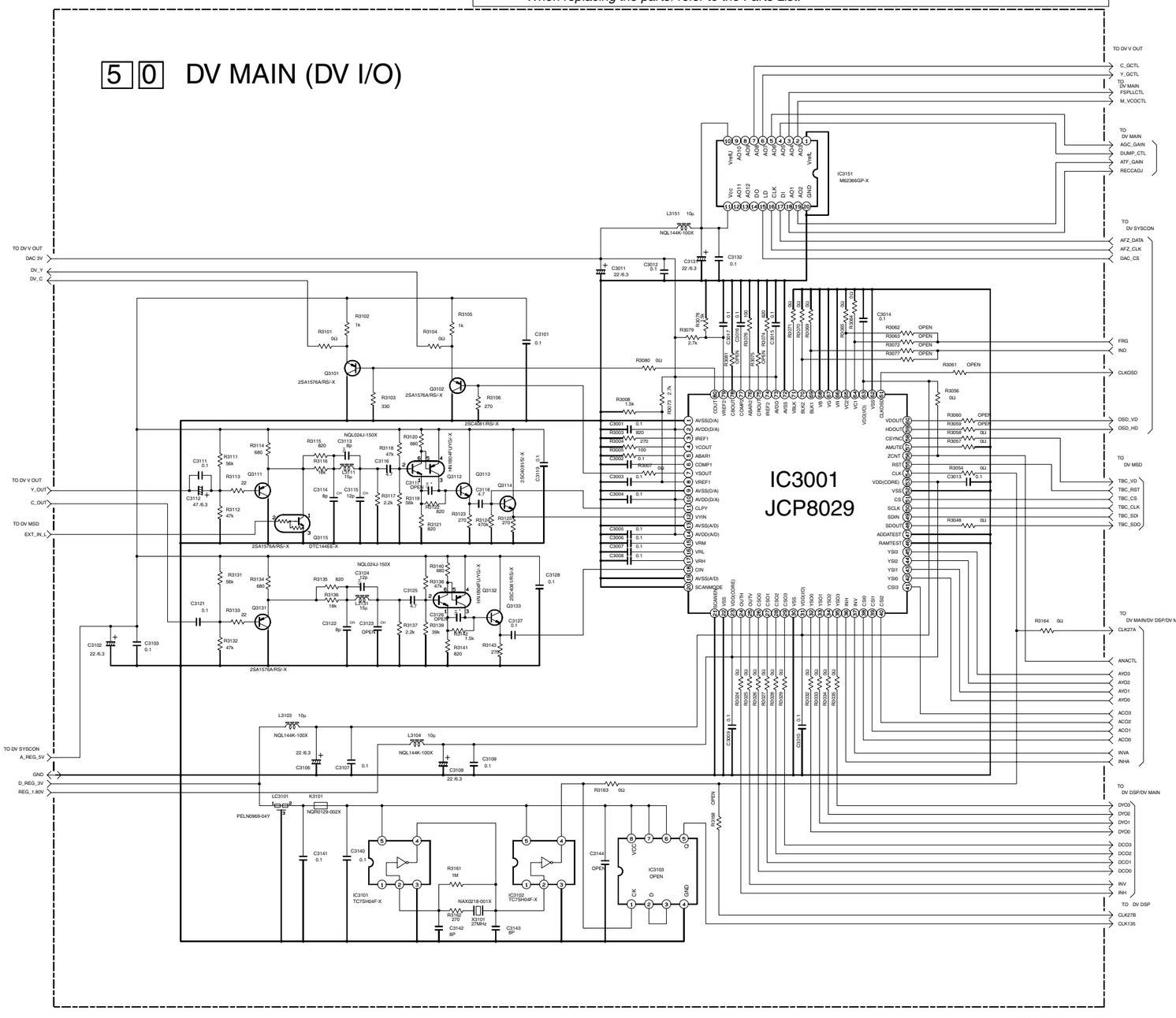
4.20 DV MAIN SCHEMATIC DIAGRAM

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



4.21 DV I/O SCHEMATIC DIAGRAM

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

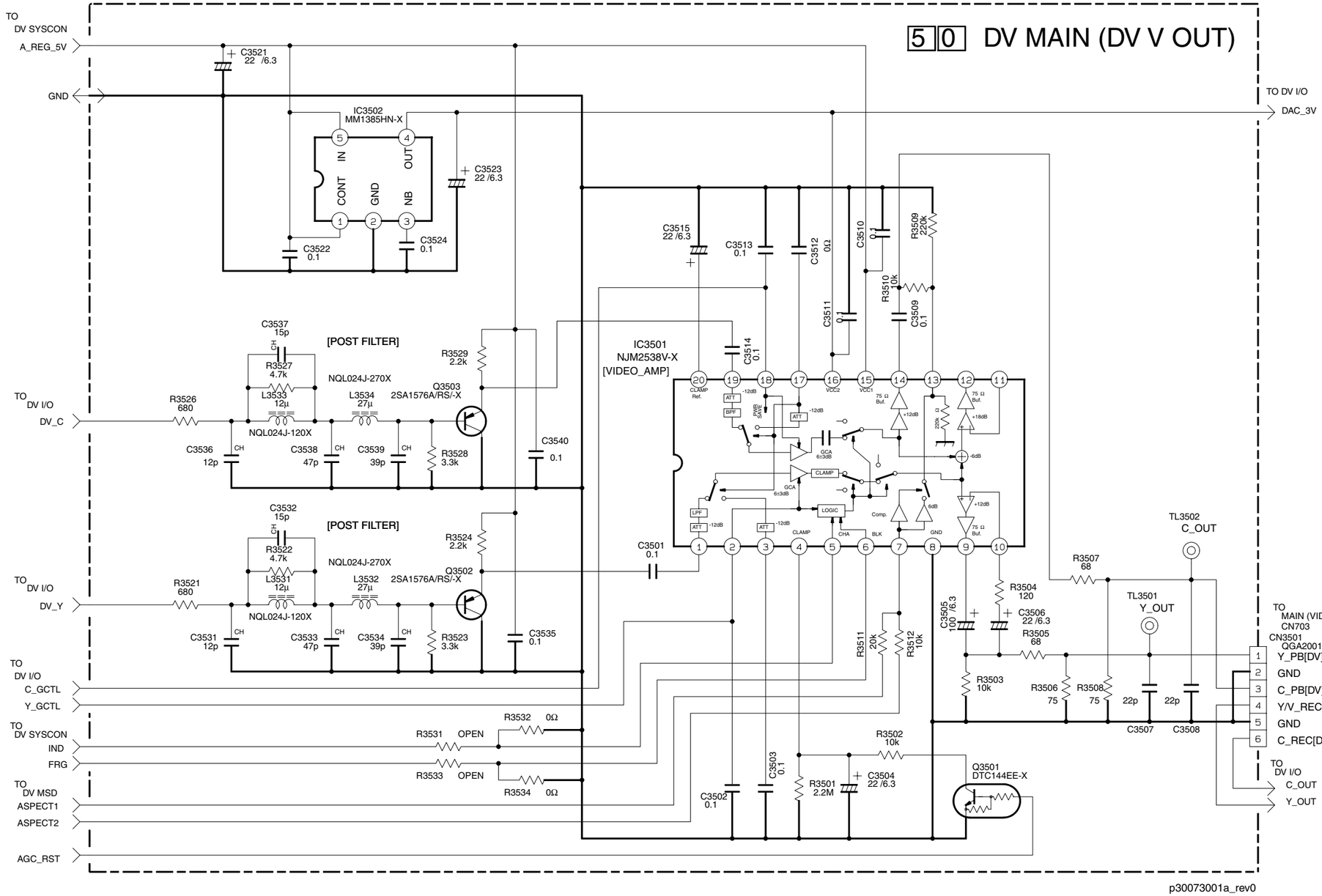


p10288001a_rev0

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

4.22 DV V OUT SCHEMATIC DIAGRAM

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

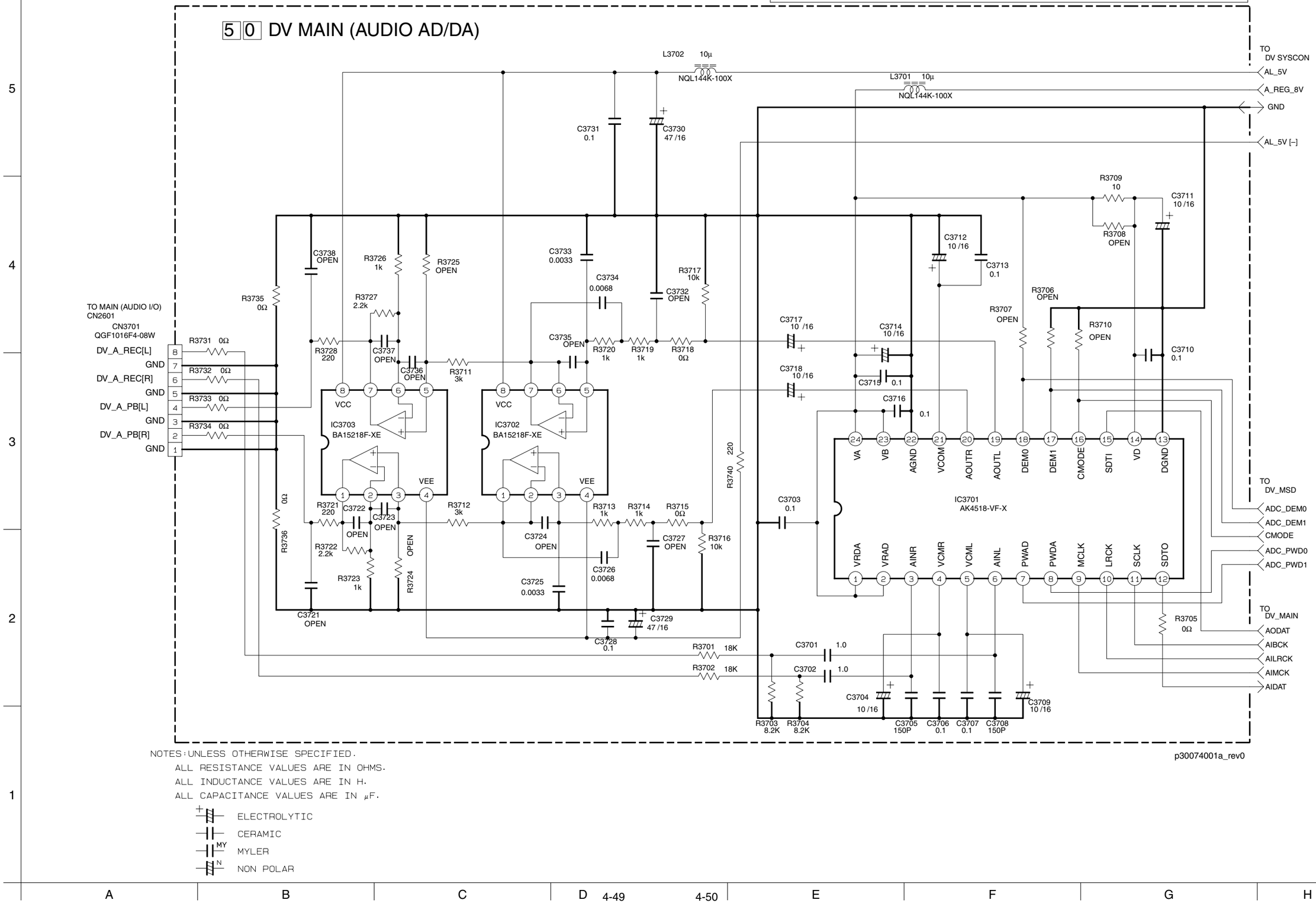


NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.23 AUDIO AD/DA SCHEMATIC DIAGRAM

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

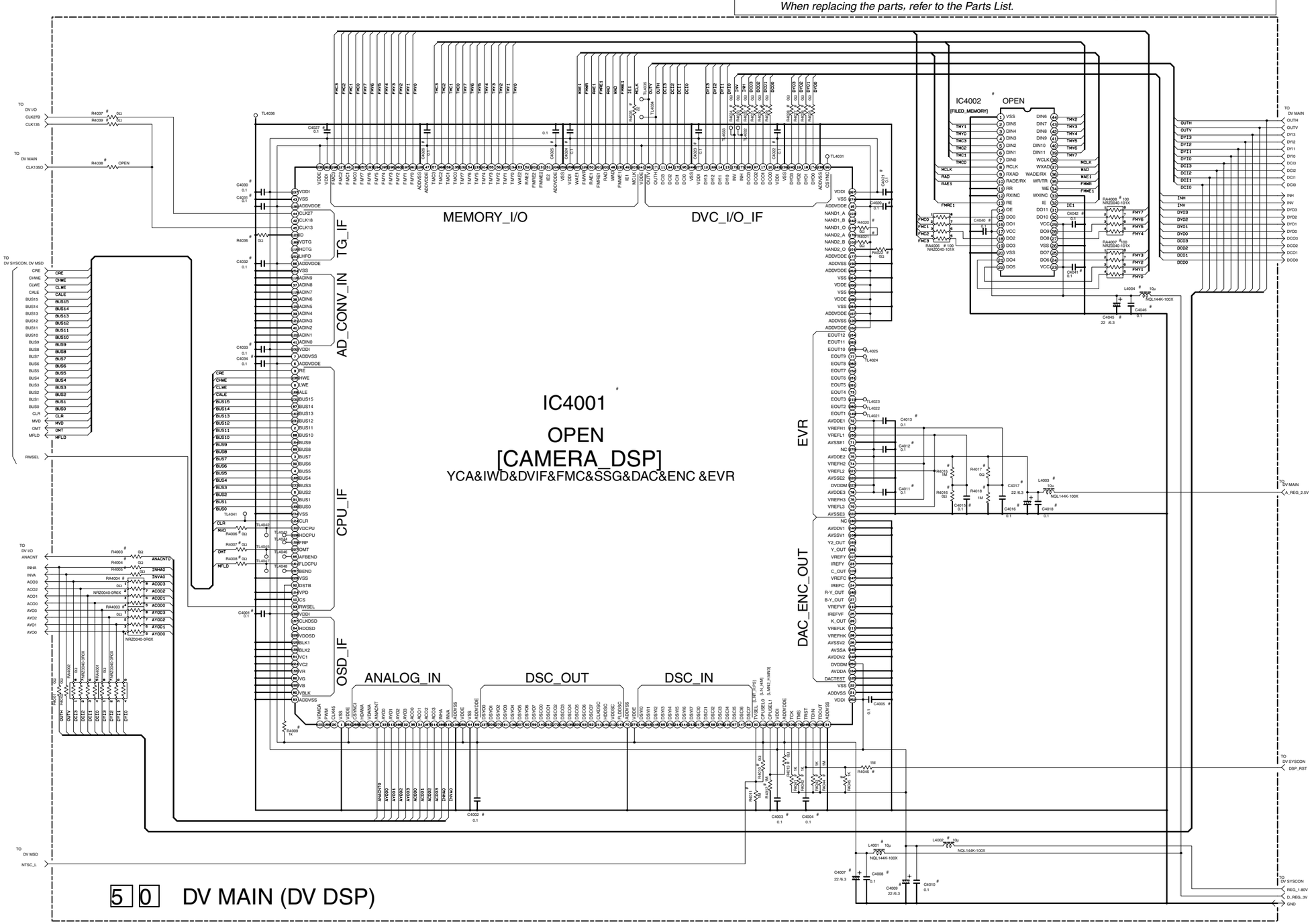


NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.24 DV DSP SCHEMATIC DIAGRAM

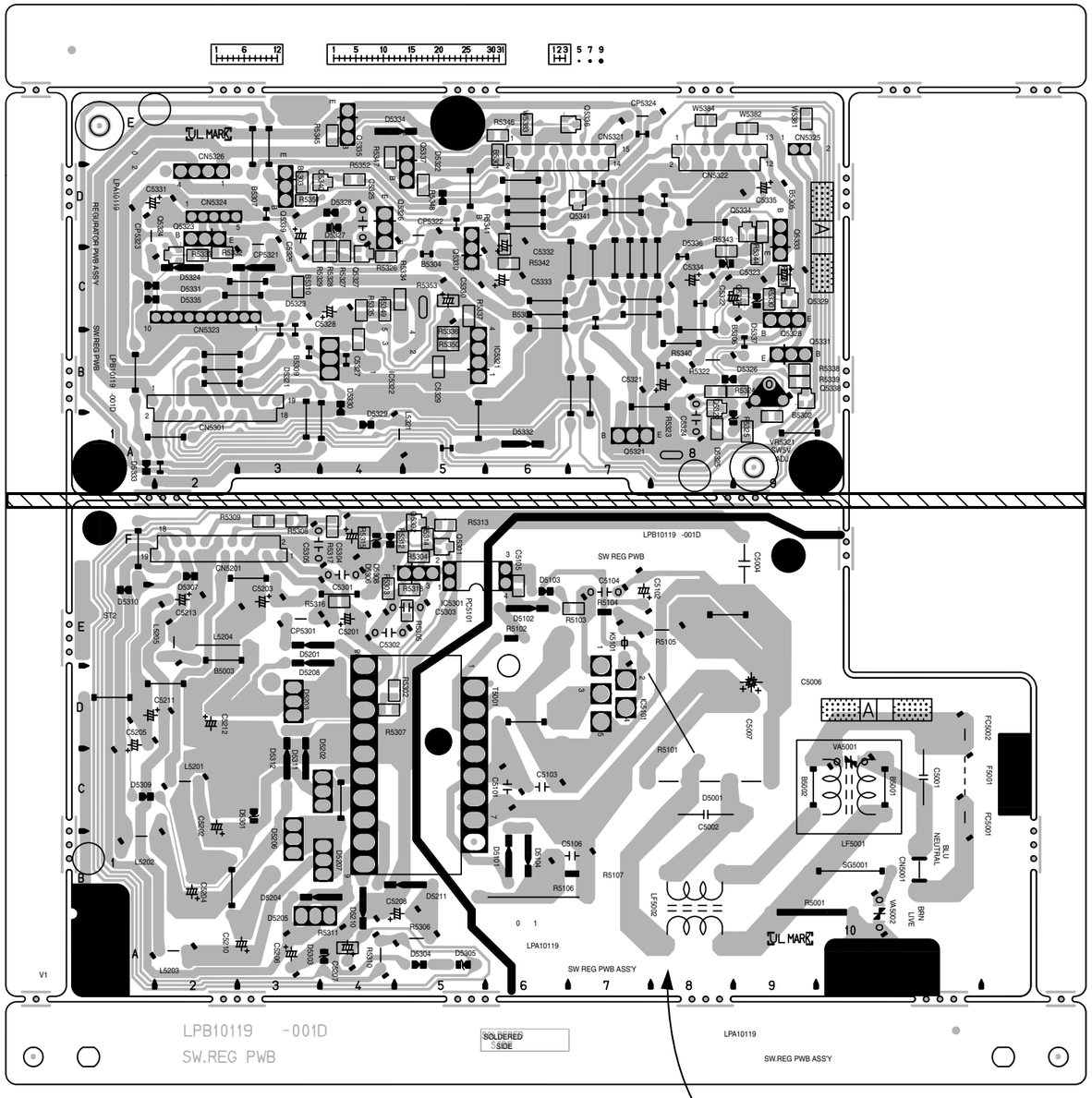
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



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

ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

<01> SW REG, <02> REGULATOR
LPB10119-001D



COMPONENT PARTS LOCATION GUIDE <SW REG>

REF.NO.	LOCATION		
CAPACITOR			
C5001	A	D	11D
C5002	A	D	8C
C5004	A	D	9E
C5006	A	D	8D
C5007	A	D	9D
C5101	A	D	6C
C5102	A	D	7E
C5103	A	D	6C
C5104	A	D	7E
C5105	B	C	6E
C5106	A	D	6B
C5201	A	D	4E
C5202	A	D	2B
C5203	A	D	3E
C5204	A	D	2B
C5205	A	D	1D
C5206	A	D	3A
C5207	A	D	4A
C5208	A	D	4B
C5210	A	D	3A
C5211	A	D	2D
C5212	A	D	2D
C5213	A	D	2E
C5301	A	D	4F
C5302	A	D	5E
C5303	A	D	5E
C5304	A	D	4F
C5305	A	D	3F

REF.NO.	LOCATION		
CONNECTOR			
CN5001	A	D	11B
CN5201	A	D	3F
DIODE			
D5001	A	D	7C
D5101	A	D	6B
D5102	A	D	6E
D5103	A	D	6E
D5104	A	D	6C
D5201	A	D	4E
D5202	A	D	4C
D5203	A	D	3D
D5204	A	D	4B
D5205	A	D	3A
D5206	A	D	3B
D5207	A	D	4B
D5208	A	D	4E
D5210	A	D	4B
D5211	A	D	5B
D5301	A	D	3C
D5303	A	D	4A
D5304	A	D	5A
D5305	A	D	5A
D5306	A	D	4F
D5307	A	D	2F
D5308	A	D	4F
D5309	A	D	1C
D5310	A	D	1E

REF.NO.	LOCATION		
D5311	A	D	3C
D5312	A	D	3C
IC			
IC5101	A	D	7E
IC5301	A	D	5F
COIL			
L5201	A	D	2C
L5202	A	D	2B
L5203	A	D	2A
L5204	A	D	3E
L5205	A	D	2E
TRANSISTOR			
Q5301	B	C	5F
Q5302	B	C	5F
RESISTOR			
R5001	A	D	9B
R5101	A	D	8C
R5102	A	D	6E
R5103	B	C	7E
R5104	A	D	7E
R5105	A	D	7E
R5106	A	D	5B
R5107	A	D	7B
R5302	B	C	4D
R5303	B	C	4E
R5304	B	C	5F
R5305	B	C	5E

REF.NO.	LOCATION		
R5306	A	D	5A
R5307	B	C	4D
R5308	B	C	3F
R5309	B	C	3F
R5310	A	D	4A
R5311	B	C	4A
R5312	B	C	5F
R5313	B	C	5F
R5314	B	C	5F
R5315	B	C	4F
R5316	B	C	4E
R5317	B	C	4F
R5318	B	C	5E
OTHER			
CP5301	A	D	3E
F5001	A	D	11C
FC5001	A	D	11C
FC5002	A	D	11D
K5101	A	D	7E
LF5001	A	D	10C
LF5002	A	D	8B
PC5101	A	D	5F
SG5001	A	D	9B
T5001	A	D	5D
VA5001	A	D	10C
VA5002	A	D	10A

COMPONENT PARTS LOCATION GUIDE <REGULATOR>

REF.NO.	LOCATION		
CAPACITOR			
C5321	A	D	7B
C5322	A	D	9C
C5323	A	D	9C
C5324	A	D	8A
C5325	A	D	4D
C5326	A	D	3D
C5327	B	C	4B
C5328	A	D	3C
C5329	B	C	5B
C5330	A	D	5C
C5331	A	D	2D
C5332	A	D	6D
C5333	A	D	6C
C5334	A	D	8C
C5335	A	D	9D
CONNECTOR			
CN5301	A	D	1B
CN5321	A	D	6E
CN5322	A	D	8E
CN5323	A	D	3C
CN5324	A	D	2D
CN5325	A	D	9E
CN5326	A	D	2D
DIODE			
D5321	A	D	4B
D5322	A	D	5D

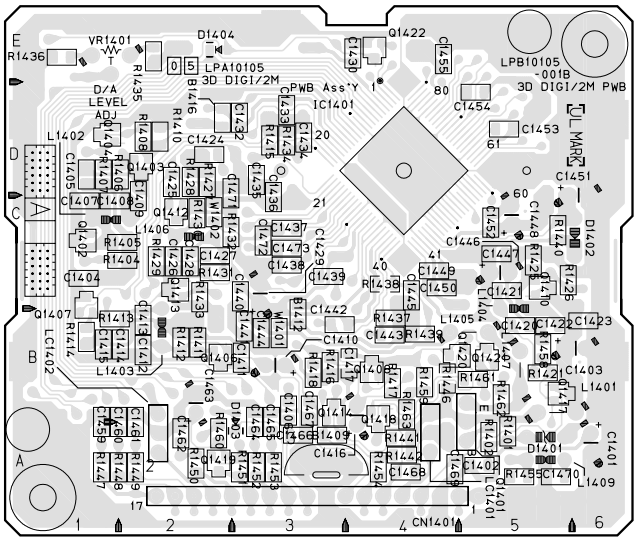
REF.NO.	LOCATION		
D5323	A	D	3C
D5324	A	D	2C
D5325	A	D	9B
D5326	A	D	9B
D5327	A	D	4D
D5328	A	D	4D
D5329	A	D	4A
D5330	A	D	4A
D5331	A	D	1C
D5332	A	D	6A
D5333	A	D	1A
D5334	A	D	4E
D5335	A	D	1C
D5336	A	D	8C
D5337	A	D	9C
IC			
IC5321	A	D	5B
IC5322	A	D	4B
COIL			
L5321	A	D	4A
TRANSISTOR			
Q5321	A	D	7A
Q5322	B	C	8B
Q5323	A	D	2D
Q5324	B	C	2C
Q5326	A	D	4D
Q5327	B	C	4C

REF.NO.	LOCATION		
Q5328	A	D	9C
Q5329	B	C	9C
Q5330	A	D	5C
Q5331	A	D	9B
Q5332	B	C	9C
Q5333	A	D	9C
Q5334	B	C	9D
Q5335	A	D	4E
Q5336	B	C	7E
Q5337	A	D	5E
Q5338	B	C	9B
Q5339	A	D	3D
Q5340	B	C	4D
Q5341	B	C	7D
RESISTOR			
R5322	B	C	8B
R5323	B	C	8A
R5324	B	C	9B
R5325	B	C	9A
R5326	B	C	4C
R5327	B	C	4C
R5328	B	C	4C
R5329	B	C	3C
R5330	B	C	9C
R5331	B	C	9C
R5332	B	C	2C
R5333	B	C	2C
R5334	B	C	4C

REF.NO.	LOCATION		
R5335	B	C	4C
R5336	B	C	5B
R5337	B	C	5C
R5338	B	C	9B
R5339	B	C	9B
R5340	A	D	8B
R5341	B	C	6D
R5342	B	C	6C
R5343	B	C	8C
R5344	B	C	9C
R5345	B	C	4E
R5346	B	C	6E
R5347	B	C	4E
R5348	B	C	5D
R5349	B	C	4C
R5350	B	C	5B
R5351	B	C	3D
R5352	B	C	4D
R5353	B	C	5C
VR5321	A	D	9B
OTHER			
CP5321	A	D	3D
CP5322	A	D	5D
CP5323	A	D	1C
CP5324	A	D	8E

4.26 3D DIGITAL/2M AND S-SUB CIRCUIT BOARDS

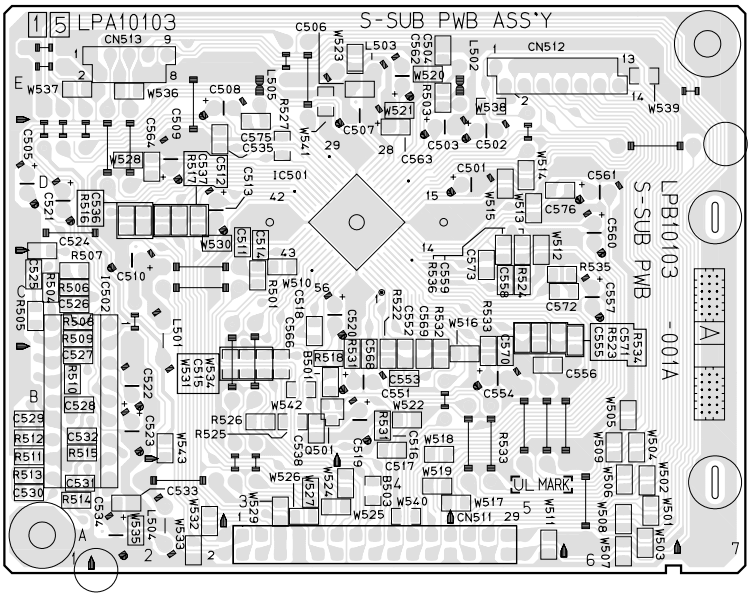
<05> 3D DIGITAL/2M
LPB10105-001B



COPMONENT PARTS LOCATION GUIDE <3D DIGITAL/2M>

REF.NO.	LOCATION		
CAPACITOR			
C1401	A	D	6A
C1402	B	C	5A
C1403	A	D	5B
C1404	B	C	1C
C1405	B	C	1D
C1406	B	C	3B
C1407	B	C	1C
C1408	B	C	1C
C1409	B	C	2C
C1410	A	D	3B
C1411	B	C	3B
C1412	B	C	2B
C1413	B	C	2B
C1414	B	C	2B
C1415	B	C	1B
C1416	A	D	4A
C1417	B	C	4B
C1420	B	C	5B
C1421	B	C	5C
C1422	B	C	5B
C1423	B	C	6B
C1424	B	C	2D
C1425	B	C	2D
C1426	B	C	2C
C1427	B	C	2C
C1428	B	C	2C
C1429	A	D	3C
C1430	B	C	4E
C1432	B	C	3D
C1433	B	C	3D
C1434	B	C	3D
C1435	B	C	3D
C1436	B	C	3C
C1437	B	C	3C
C1438	B	C	3C
C1439	B	C	3C
C1440	B	C	3C
C1441	B	C	3B
C1442	B	C	3B
C1443	B	C	4B
C1444	B	C	3B
C1445	B	C	4C
C1446	A	D	5C
C1447	B	C	5C
C1448	A	D	5C
C1449	B	C	4C
C1450	B	C	4C
C1451	A	D	5D
C1452	B	C	5C
C1453	B	C	5D
C1454	B	C	5D
C1455	B	C	4E
C1459	B	C	1B
C1460	B	C	2B
C1461	B	C	2B
C1462	B	C	2A
C1463	A	D	2B
C1464	B	C	3B
C1465	B	C	3B
C1466	B	C	3A
C1467	B	C	3B
C1468	B	C	4A
C1469	B	C	4A
C1470	B	C	5A
C1471	B	C	2D
C1472	B	C	3C
C1473	B	C	3C
CONNECTOR			
CN1401	A	D	5A
DIODE			
D1401	A	D	5A
D1402	A	D	6C
D1403	B	C	3B
D1404	B	C	2E
IC			
IC1401	B	C	4D
COIL			
L1401	A	D	5B
L1402	A	D	2C
L1403	A	D	2B
L1404	A	D	5C
L1405	A	D	4B
L1406	A	D	2C
L1407	A	D	5B
L1409	A	D	5A
TRANSISTOR			
Q1401	A	D	5B
Q1402	B	C	1C
Q1403	B	C	2D
Q1404	B	C	1D
Q1406	B	C	2B
Q1407	B	C	1C
Q1408	B	C	4B
Q1410	B	C	5C
Q1412	B	C	2C
Q1413	B	C	2C
Q1414	B	C	3B
Q1417	B	C	5B
Q1418	B	C	4B
Q1419	B	C	2A
Q1420	B	C	4B
Q1421	B	C	5B
Q1422	B	C	4E
RESISTOR			
R1401	B	C	5A
R1402	B	C	5A
R1404	B	C	2C
R1405	B	C	2C
R1406	B	C	2D
R1407	B	C	1D
R1408	B	C	2D
R1410	B	C	2D
R1411	B	C	2B
R1412	B	C	2B
R1413	B	C	1B
R1414	B	C	1B
R1415	B	C	3D
R1416	B	C	3B
R1417	B	C	4B
R1418	B	C	3B
R1421	B	C	5B
R1425	B	C	5C
R1426	B	C	5C
R1427	B	C	2D
R1428	B	C	2D
R1429	B	C	2C
R1430	B	C	2C
R1431	B	C	2C
R1432	B	C	2C
R1433	B	C	2C
R1434	B	C	3D
R1435	B	C	2E
R1436	B	C	1E
R1437	B	C	4B
R1438	B	C	4C
R1439	B	C	4B
R1440	B	C	5C
R1441	B	C	4A
R1442	B	C	4A
R1446	B	C	4B
R1447	B	C	1A
R1448	B	C	2A
R1449	B	C	2A
R1450	B	C	2A
R1451	B	C	3A
R1452	B	C	3A
R1453	B	C	3A
R1454	B	C	4A
R1455	B	C	5A
R1458	B	C	5B
R1459	B	C	4B
R1460	B	C	2A
R1461	B	C	5B
R1462	B	C	5B
R1463	B	C	4B
VR1401	A	D	1E
OTHER			
LC1401	A	D	4A
LC1402	A	D	2A

<15> S-SUB
LPB10103-001A

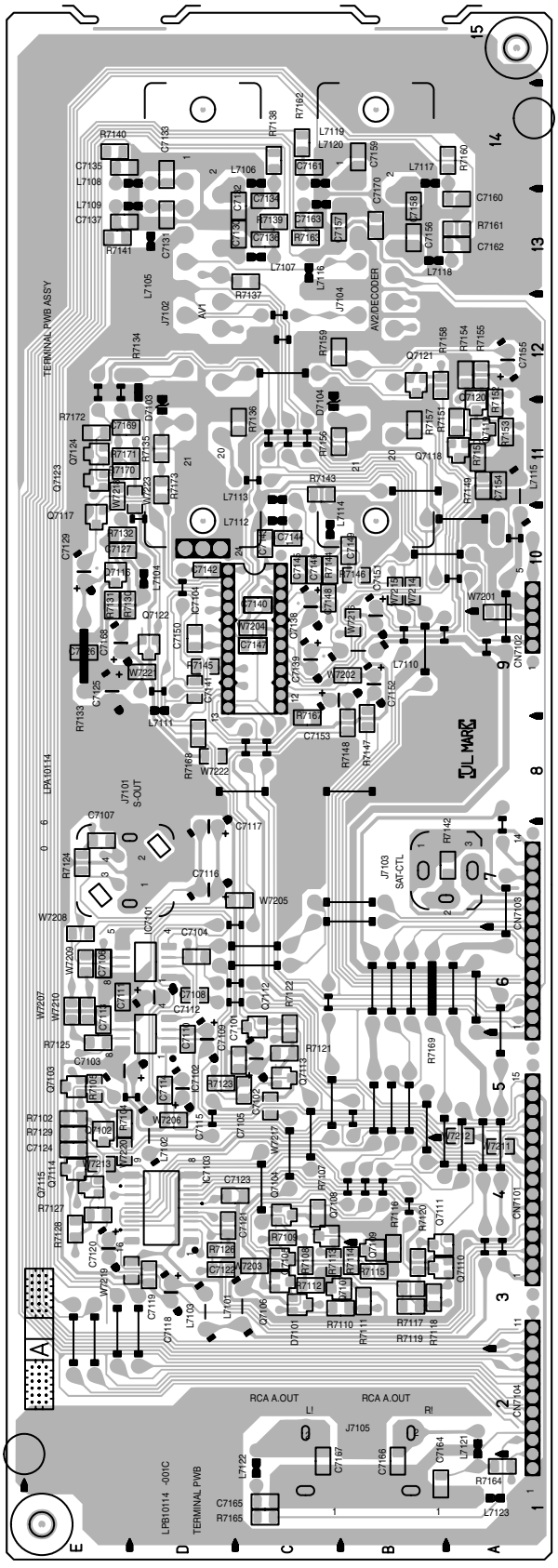


COPMONENT PARTS LOCATION GUIDE <S-SUB>

REF.NO.	LOCATION		
CAPACITOR			
C501	A	D	5D
C502	A	D	5D
C503	A	D	4D
C504	B	C	4E
C505	A	D	1D
C506	B	C	4E
C507	A	D	4E
C508	A	D	2E
C509	A	D	2D
C510	A	D	2C
C511	B	C	3C
C512	B	C	2D
C513	A	D	2D
C514	B	C	3C
C515	B	C	3B
C516	B	C	4B
C517	B	C	4B
C518	B	C	3C
C519	A	D	4B
C520	A	D	3C
C521	A	D	1D
C522	A	D	2B
C523	A	D	2B
C524	B	C	1C
C525	B	C	1C
C526	B	C	1C
C527	B	C	1B
C528	B	C	1B
C529	B	C	1B
C530	B	C	1A
C531	B	C	1A
C532	B	C	1B
C533	B	C	2A
C534	A	D	2A
C535	B	C	2D
C536	B	C	2D
C537	B	C	2D
C538	B	C	3B
C551	A	D	4B
C552	B	C	4B
C553	B	C	4B
C554	A	D	5B
C555	B	C	5C
C556	B	C	5B
C557	A	D	6C
C558	B	C	5C
C559	B	C	5C
C560	A	D	6D
C561	A	D	6D
C562	A	D	4E
C563	B	C	4D
C564	B	C	2D
C566	B	C	3B
C568	B	C	4B
C569	B	C	4B
C570	B	C	5B
C571	B	C	5C
C572	B	C	6C
C573	B	C	5C
C575	B	C	3D
C576	B	C	5D
CONNECTOR			
CN511	A	D	3A
CN512	A	D	5E
CN513	A	D	1E
IC			
IC501	B	C	4D
IC502	A	D	1C
COIL			
L501	A	D	2B
L502	A	D	5E
L503	A	D	3E
L504	A	D	2A
L505	A	D	3E
TRANSISTOR			
Q501	B	C	3B
RESISTOR			
R501	B	C	3C
R503	B	C	4E
R504	B	C	1C
R505	B	C	1C
R506	B	C	1C
R507	B	C	1C
R508	B	C	1C
R509	B	C	1C
R510	B	C	1B
R511	B	C	1B
R512	B	C	1B
R513	B	C	1A
R514	B	C	1A
R515	B	C	1B
R516	B	C	2D
R517	B	C	2D
R518	B	C	3B
R522	B	C	4B
R523	B	C	5C
R524	B	C	5C
R525	B	C	3B
R526	B	C	3B
R527	B	C	3D
R531	B	C	4B
R532	B	C	4B
R533	B	C	5B
R534	B	C	6C
R535	B	C	5C
R536	B	C	5C

4.27 TERMINAL CIRCUIT BOARD

<06> TERMIANL
LPB10114-001C



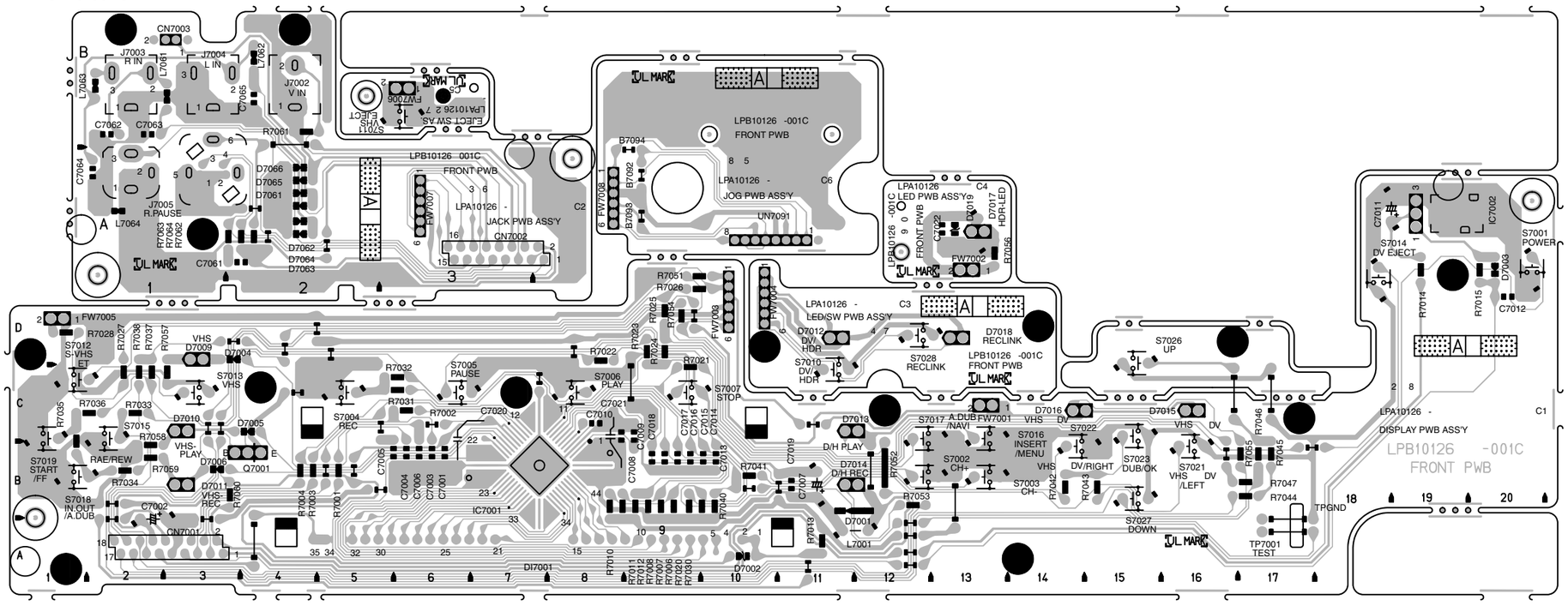
COPMONENT PARTS LOCATION GUIDE
<TERMINAL>

REF.NO.	LOCATION		
CAPACITOR			
C7101	B	C	5C
C7102	A	D	5C
C7103	A	D	5D
C7104	B	C	6D
C7105	B	C	5C
C7106	B	C	6E
C7107	B	C	7E
C7108	B	C	6D
C7109	A	D	6D
C7110	B	C	5D
C7111	B	C	6E
C7112	A	D	6D
C7113	B	C	6E
C7114	B	C	5D
C7115	A	D	5D
C7116	A	D	7D
C7117	A	D	7D
C7118	A	D	3D
C7119	B	C	3D
C7120	A	D	4E
C7121	B	C	4D
C7122	B	C	3D
C7123	B	C	4D
C7124	B	C	4E
C7125	A	D	9E
C7126	B	C	9E
C7127	B	C	10E
C7129	A	D	10E
C7130	B	C	13C
C7131	B	C	13D
C7132	B	C	13C
C7133	B	C	14D
C7134	B	C	13C
C7135	B	C	14E
C7136	B	C	13C
C7137	B	C	13E
C7138	A	D	10C
C7139	A	D	9C
C7140	B	C	10C
C7141	B	C	9D
C7142	B	C	10D
C7143	B	C	10C
C7144	B	C	10C
C7145	B	C	10C
C7146	B	C	10C
C7147	B	C	9C
C7148	B	C	10C
C7149	B	C	10B
C7150	B	C	9D
C7151	A	D	10B
C7152	A	D	9B
C7153	A	D	9C
C7154	B	C	11A
C7155	A	D	12A
C7156	B	C	13B
C7157	B	C	13C
C7158	B	C	13B
C7159	B	C	14B
C7160	B	C	13A
C7161	B	C	14C
C7162	B	C	13A
C7163	B	C	13C
C7164	B	C	1B
C7165	B	C	1C
C7166	B	C	1B
C7167	B	C	1C
C7168	A	D	9E
C7169	B	C	11E
C7170	B	C	13B
CONNECTOR			
CN7101	A	D	3A
CN7102	A	D	9A
CN7103	A	D	6A
CN7104	A	D	1A
DIODE			
D7101	B	C	3C
D7103	A	D	12D
D7104	A	D	12C
IC			
IC7101	B	C	6D
IC7102	B	C	5D
IC7103	B	C	4D
IC7104	A	D	10C
JACK			
J7101	A	D	7E
J7102	A	D	12D
J7103	A	D	7B
J7104	A	D	12B
J7105	A	D	2B
COIL			
L7101	A	D	3C
L7102	A	D	4D
L7103	A	D	3D
L7104	A	D	10D
L7105	A	D	13D
L7106	A	D	14C
L7107	A	D	13C
L7108	A	D	14D
L7109	A	D	13D
L7110	A	D	9B
L7111	A	D	9D
L7112	A	D	10C
L7113	A	D	11C
L7114	A	D	10C
L7115	A	D	11A
L7116	A	D	13C
L7117	A	D	14B
L7118	A	D	13B
L7119	A	D	14C
L7120	A	D	13C

REF.NO.	LOCATION		
L7121	A	D	1A
L7122	A	D	1C
L7123	A	D	1A
TRANSISTOR			
Q7102	B	C	5E
Q7103	B	C	5E
Q7104	B	C	4C
Q7105	B	C	3C
Q7106	B	C	3C
Q7107	B	C	3C
Q7108	B	C	4C
Q7109	B	C	3B
Q7110	B	C	3B
Q7111	B	C	3B
Q7112	B	C	6C
Q7113	B	C	5C
Q7114	B	C	4E
Q7115	B	C	4E
Q7116	B	C	10E
Q7117	B	C	10E
Q7118	B	C	11A
Q7119	B	C	11A
Q7120	B	C	11A
Q7121	B	C	12B
Q7122	B	C	9D
Q7123	B	C	11E
Q7124	B	C	11E
RESISTOR			
R7102	B	C	5E
R7104	B	C	5E
R7105	B	C	5E
R7107	B	C	4C
R7108	B	C	3C
R7109	B	C	4C
R7110	B	C	3C
R7111	B	C	3B
R7112	B	C	3C
R7113	B	C	3C
R7114	B	C	3B
R7115	B	C	3B
R7116	B	C	3B
R7117	B	C	3B
R7118	B	C	3B
R7119	B	C	3B
R7120	B	C	3B
R7121	B	C	5C
R7122	B	C	6C
R7123	B	C	5D
R7124	B	C	7E
R7125	B	C	5E
R7126	B	C	3D
R7127	B	C	4E
R7128	B	C	4E
R7129	B	C	5E
R7130	B	C	10E
R7131	B	C	10E
R7132	B	C	10E
R7133	A	D	9E
R7134	A	D	12D
R7135	B	C	11D
R7136	B	C	11C
R7137	B	C	13C
R7138	B	C	14C
R7139	B	C	13C
R7140	B	C	14E
R7141	B	C	13E
R7142	B	C	7A
R7143	B	C	11C
R7144	B	C	10C
R7145	B	C	9D
R7146	B	C	10B
R7147	B	C	8B
R7148	B	C	8B
R7149	B	C	11A
R7150	B	C	11A
R7151	B	C	11A
R7152	B	C	11A
R7153	B	C	11A
R7154	B	C	12A
R7155	B	C	12A
R7156	B	C	11C
R7157	B	C	11B
R7158	B	C	12B
R7159	B	C	12C
R7160	B	C	14A
R7161	B	C	13A
R7162	B	C	14C
R7163	B	C	13C
R7164	B	C	1A
R7165	B	C	1C
R7167	B	C	8C
R7168	B	C	8D
R7169	A	D	6B
R7170	B	C	11E
R7171	B	C	11E
R7172	B	C	11E
R7173	B	C	11D

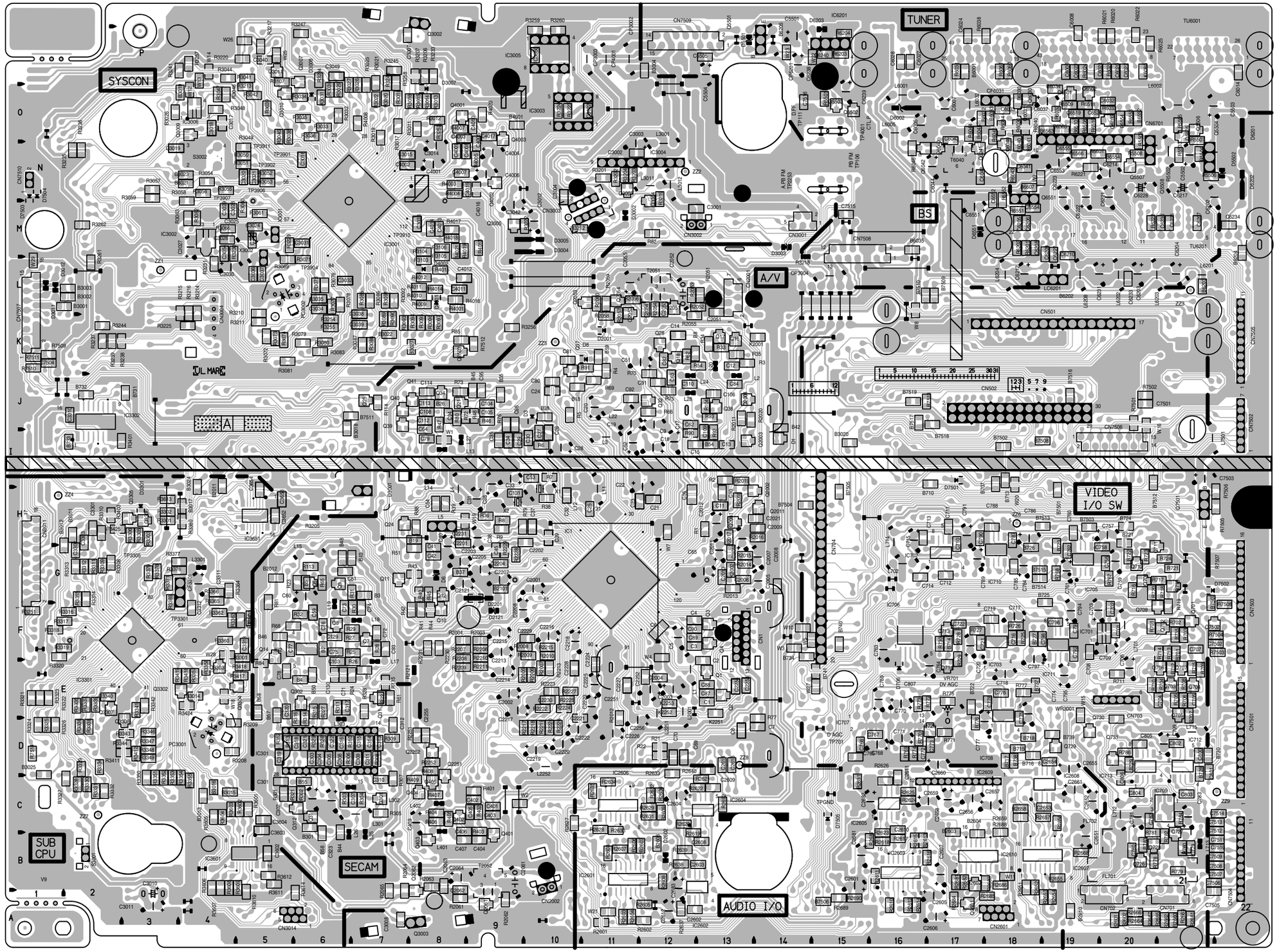
4.28 DISPLAY,EJECT SW, JACK, LED/SW AND JOG CIRCUIT BOARDS

<27> EJECT SW, <28> DISPLAY, <36> JACK, <47> LED/SW, <85> JOG
LPB10126-001C



4.29 MAIN CIRCUIT BOARD

<03> MAIN
LPB10113-001C



COPMONENT PARTS LOCATION GUIDE <MAIN>

REF.NO.	LOCATION		
CAPACITOR			
C1	B	C	13E
C2	B	C	13E
C3	B	C	12F
C4	B	C	12F
C5	A	D	12F
C6	B	C	12F
C7	B	C	14D
C8	B	C	13D
C9	A	D	12J
C10	B	C	13H
C11	B	C	13H
C12	B	C	13K
C13	B	C	13I
C14	B	C	12K
C15	B	C	12I
C16	B	C	12H
C17	A	D	12I
C18	A	D	12I
C19	A	D	11J
C20	A	D	11J
C21	B	C	12H
C22	A	D	11I
C23	B	C	12H
C24	B	C	10J
C25	B	C	11H
C26	B	C	10I
C27	B	C	10I
C28	A	D	10I
C29	B	C	9I
C30	B	C	10I
C31	A	D	9H
C32	B	C	10H
C33	A	D	9I
C34	B	C	9I
C35	B	C	9I
C36	A	D	9H
C37	B	C	10H
C38	A	D	9H
C39	B	C	10H
C40	A	D	8H
C41	B	C	8G
C42	B	C	8G
C45	B	C	9G
C51	A	D	12K
C52	A	D	11I
C53	B	C	10I
C54	B	C	8H
C59	B	C	6F
C60	A	D	6G
C61	B	C	6G
C62	B	C	12J
C63	B	C	12J
C64	B	C	8J
C65	A	D	13G
C69	B	C	12D
C70	B	C	12D
C71	B	C	6E
C72	B	C	7F
C73	B	C	6F
C74	B	C	7F
C75	B	C	6F
C76	B	C	6F
C77	B	C	5F
C78	B	C	5E
C79	B	C	8I
C80	B	C	10J
C81	B	C	10K
C82	B	C	12K
C84	B	C	13J
C87	B	C	13E
C88	B	C	13E
C89	B	C	12F
C90	B	C	12F
C91	B	C	12J
C92	B	C	11J
C93	B	C	7F
C94	B	C	8J
C95	B	C	9J
C96	B	C	9J
C103	B	C	6E
C104	B	C	9J
C105	B	C	9J
C106	B	C	13J
C108	B	C	8J
C109	B	C	13I
C110	B	C	12J
C112	B	C	8J
C113	B	C	8J
C114	B	C	8J
C129	B	C	6F
C130	B	C	6E
C131	B	C	9H
C301	B	C	5C
C302	A	D	6C
C303	B	C	6D
C304	B	C	6D
C305	B	C	6D
C307	B	C	7C
C308	B	C	6D
C309	B	C	7D
C310	B	C	7C
C311	B	C	7D
C312	B	C	7D
C313	B	C	7D
C314	B	C	7D
C315	B	C	7D
C316	B	C	6D
C317	B	C	6E
C318	B	C	6D
C319	B	C	5D
C320	B	C	5E
C321	B	C	6D
C322	B	C	6D
C323	A	D	6C
C401	B	C	9C
C402	B	C	9C
C403	B	C	9C
C404	B	C	9B
C405	B	C	9C
C406	B	C	8C
C407	B	C	8B
C409	A	D	8C
C701	B	C	20F
C702	B	C	20F
C703	A	D	19F
C704	B	C	21E
C705	B	C	21E
C706	A	D	20E
C707	B	C	21F
C708	B	C	19F
C709	A	D	20F
C710	B	C	17H
C711	B	C	17H
C712	B	C	17G
C713	B	C	16H
C714	B	C	16G
C715	A	D	16H
C716	B	C	18F
C717	A	D	18F
C718	A	D	18E
C719	B	C	18F
C720	A	D	17F
C721	B	C	17F
C722	B	C	17F
C756	B	C	20G
C757	A	D	20H
C758	B	C	20G
C759	A	D	20G
C760	B	C	19H
C761	A	D	19G
C762	B	C	19G
C763	A	D	16F
C764	A	D	17E
C765	B	C	15D
C766	B	C	15D
C767	B	C	16D
C768	A	D	16D
C769	A	D	16E
C770	A	D	16E
C771	A	D	16D
C772	B	C	16D
C773	B	C	17D
C774	A	D	18D
C775	B	C	18D
C776	B	C	18E
C777	A	D	18E
C778	B	C	18E
C779	B	C	21B
C780	B	C	20B
C781	A	D	20C
C782	B	C	20C
C783	A	D	21C
C784	A	D	18G
C785	B	C	18G
C786	A	D	18H
C787	B	C	18H
C788	B	C	18H
C789	A	D	17G
C790	B	C	17H
C791	A	D	17H
C792	B	C	19F
C793	B	C	19F
C794	A	D	19F
C795	A	D	19E
C796	B	C	19F
C797	A	D	18F
C798	B	C	19F
C799	A	D	21D
C800	B	C	21D
C801	B	C	21D
C802	B	C	21D
C803	B	C	21C
C804	B	C	20C
C805	B	C	20D
C806	B	C	20C
C807	A	D	16E
C2001	A	D	10G
C2002	A	D	9E
C2003	A	D	12E
C2004	B	C	12E
C2005	A	D	14G
C2006	B	C	13G
C2007	A	D	14G
C2008	A	D	13H
C2009	B	C	14H
C2010	B	C	13G
C2011	A	D	13G
C2012	A	D	13H
C2013	B	C	13G
C2021	B	C	14H
C2051	B	C	13L
C2052	A	D	12L
C2053	B	C	12L
C2054	B	C	12L
C2055	A	D	11L
C2061	A	D	9B
C2062	B	C	8B
C2063	B	C	8B
C2064	A	D	8B
C2121	A	D	9G
C2201	B	C	8H
C2202	B	C	10H
C2203	A	D	8G
C2204	B	C	9G
C2205	A	D	9G
C2207	A	D	9G
C2208	A	D	9F
C2213	A	D	9F
C2214	A	D	9E
C2215	A	D	9F
C2216	A	D	10F
C2217	A	D	9E
C2218	A	D	10F
C2219	A	D	10D
C2220	A	D	10D
C2221	B	C	10D
C2222	A	D	10D
C2223	A	D	11E
C2224	B	C	11E
C2225	A	D	11E
C2226	A	D	11D
C2227	B	C	11E
C2228	B	C	10E
C2229	B	C	10F
C2230	B	C	10E
C2231	B	C	8H
C2251	A	D	12E
C2252	B	C	12E
C2253	B	C	13E
C2254	B	C	13E
C2255	B	C	8D
C2256	A	D	12D
C2601	A	D	15B
C2602	B	C	12A
C2603	B	C	13B
C2604	A	D	12C
C2605	A	D	17A
C2606	A	D	17A
C2607	A	D	17B
C2608	B	C	13B
C2609	B	C	13C
C2610	B	C	16C
C2611	B	C	16C
C2612	A	D	12A
C2613	B	C	13D
C2614	B	C	13D
C2651	A	D	19B
C2652	A	D	19C
C2653	B	C	19C
C2654	B	C	19D
C2655	A	D	19D
C2656	A	D	18C
C2657	A	D	17C
C2658	A	D	17C
C2659	A	D	16C
C2660	A	D	17D
C2661	A	D	19C
C2681	A	D	15B
C2682	A	D	16C
C2683	A	D	12B
C3001	B	C	13M
C3002	B	C	11N
C3003	A	D	12N
C3004	B	C	10N
C3007	B	C	7P
C3008	B	C	7A
C3010	A	D	3A
C3011	A	D	3A
C3012	A	D	10M
C3014	A	D	8N
C3015	B	C	7N
C3016	B	C	6N
C3017	B	C	4O
C3018	B	C	4O
C3019	B	C	3N
C3020	B	C	5N
C3021	B	C	5N
C3022	B	C	11O
C3024	B	C	5M
C3025	A	D	5M
C3026	B	C	4M
C3027	A	D	4M
C3028	B	C	4M
C3029	B	C	4M
C3030	A	D	4L
C3031	B	C	6M
C3032	B	C	6L
C3033	B	C	8M
C3034	B	C	6L
C3035	B	C	6L
C3036	B	C	5L
C3037	B	C	5L
C3038	B	C	7L
C3039	B	C	7K
C3040	B	C	5P
C3041	B	C	5M
C3042	A	D	9M
C3049	B	C	6P
C3050	B	C	10P
C3054	B	C	4M
C3301	B	C	2H
C3302	B	C	2G
C3303	B	C	2H
C3310	B	C	2J
C3311	A	D	4G
C3312	B	C	4F
C3313	B	C	5F
C3602	B	C	5B
C3603	B	C	5C
C3604	B	C	5C
C3652	B	C	5H
C3653	B	C	5H
C3654	B	C	5H
C4001	A	D	8N
C4002	B	C	7N
C4003	B	C	8O
C4004	A	D	9N
C4005	B	C	9N
C4006	A	D	9N
C4007	B	C	8N
C4008	B	C	9N
C4009	B	C	8N
C4010	B	C	9O
C4011	B	C	8L
C4012	B	C	8L
C4013	B	C	8M
C4014	B	C	8M
C4015	B	C	9N
C4016	B	C	9N
C4017	B	C	9O
C5501	A	D	14P
C5502	A	D	21N
C5503	A	D	21O
C5504	A	D	13P
C5505	B	C	13P
C6005	A	D	16O
C6006	B	C	19P
C6007	A	D	17O
C6008	B	C	19P
C6014	B	C	22P
C6020	B	C	20P
C6021	B	C	19P
C6022	B	C	20P
C6023	B	C	19P
C6024	B	C	17P
C6027	B	C	16P
C6028	B	C	16P
C6032	B	C	20O
C6033	B	C	18O
C6037	A	D	19O
C6040	B	C	18N
C6041	B	C	18N
C6042	B	C	17N
C6043	B	C	17O
C6044	A	D	17N
C6202	A	D	22M
C6203	A	D	20L
C6204	A	D	21L
C6205	B	C	18M
C6206	B	C	18M
C6207	B	C	21M
C6208	B	C	18M
C6209	B	C	19M
C6210	B	C	19M
C6212	A	D	18L
C6214	A	D	20N
C6217	A	D	21N
C6221	A	D	20N
C6222	A	D	19M
C6223	A	D	19N
C6227	B	C	19M
C6228	A	D	20N
C6230	B	C	21M
C6231	A	D	20L
C6233	B	C	20L
C6234	B	C	22M
C6235	B	C	21M
C6238	A	D	14P
C6239	A	D	15O
C6240	B	C	15P
C6519	B	C	19O
C6520	B	C	19O
C6551	A	D	17M
C6552	B	C	18M
C6553	A	D	19N
C6554	B	C	18M
C6555	B	C	19N
C7501	B	C	20J
C7502	B	C	22F
C7503	A	D	21I
C7504	B	C	1K
C7505	B	C	21A
C7506	B	C	21B
C7507	B	C	22B
C7508	B	C	22B
C7509	B	C	22B
C7510	B	C	22B
C7511	B	C	22B
C7512	B	C	22C
C7513	B	C	22C
C7514	B	C	22C
C7515	B	C	15M
C7516	B	C	14O
CONNECTOR			
CN1	A	D	13F
CN501	A	D	17K
CN502	A	D	17J
CN701	A	D	20B
CN702	A	D	19B
CN703	A	D	19E
CN704	A	D	15I
CN2001	A	D	13L
CN2002	A	D	10B
CN2601	A	D	18A
CN3001	A	D	15M
CN3002	A	D	13M
CN3003	A	D	11M
CN3004	A	D	4L
CN3011	A	D	1G
CN3014	A	D	6A
CN6701	A	D	20O
CN7501	A	D	22C
CN7502	A	D	22I
CN7503	A	D	22F
CN7504	A	D	22A
CN7505	A	D	22J
CN7506	A	D	19I
CN7507	A	D	1K
CN7508	A	D	16L
CN7509	A	D	13P
CN7510	A	D	1N
DIODE			
D1	B	C	14I
D3	B	C	10J
D6	A	D	8G
D8	B	C	11K
D706	B	C	16E
D2001	B	C	11K
D2121	A	D	9F
D2201	A	D	8G
D2602	A	D	12B
D3001	A	D	7H
D3002	A	D	11M
D3003	A	D	14M
D3004	A	D	9M
D3005	A	D	9M
D3007	B	C	8O
D3008	B	C	6O
D3011	A	D	1L
D3012	A	D	1L
D3301	B	C	3H
D4001	B	C	8L
D4002	B	C	8L
D5501	A	D	13P
D5502	A	D	22N
D6002	A	D	16O
D6040	B	C	17N
D6201	A	D	22O
D6202	A	D	22M
D6203	A	D	15P
D6551	A	D	17M
D7501	B	C	17I
D7502	B	C	21G
D7503	B	C	1N
D7504	B	C	1N
D7505	B	C	15C
IC			
IC1	B	C	11G
IC2	B	C	6F
IC301	A	D	5D
IC701	B	C	20F
IC702	B	C	17G
IC703	B	C	18F
IC705	B	C	19G
IC706	B	C	16F
IC707	A	D	15E
IC708	B	C	18E
IC709	B	C	21C
IC710	B	C	18G
IC711	B	C	19F
IC712	B	C	21D
IC713	B	C	20D
IC2601	B	C	11B
IC2602	B	C	13B
IC2603	B	C	16B
IC2604	B	C	13C
IC2605	B	C	16C
IC2606	B	C	11C
IC2607	B	C	19B
IC2608	B	C	19C
IC2609	A	D	18C
IC2610	B	C	17B
IC3001	B	C	6M
IC3002	B	C	4M
IC3003	A	D	11O
IC3004	A	D	12N
IC3005	A	D	10P
IC3006	B	C	4O
IC3301	B	C	3F
IC3302	B	C	2J
IC3601	B	C	5B
IC3651	B	C	5H
IC6201	A	D	15P
COIL			
L1	A	D	12E
L2	A	D	13J
L3	A	D	11I
L4	A	D	8H
L5	A	D	8H
L11	A	D	11H
L12	A	D	11I
L13	A	D	8I
L14	A	D	8I
L15	A	D	6G
L17	A	D	7E
L18	A	D	7F
L19	A	D	6G
L20	A	D	13K
L22	A	D	11J
L24	A	D	12J
L25	A	D	7B
L26	A	D	6B
L27	A	D	8I
L28	A	D	13J
L301	A	D	6C
L302	A	D	7C
L303	A	D	7D
L401	A	D	8C
L402	A	D	8C
L701	A	D	20F
L702	A	D	16G
L712	A	D	20C
L713	A	D	21B
L714	A	D	16H
L715	A	D	21D
L2001	A	D	12D
L2251	A	D	12D
L2252	A	D	10D
L3001	A	D	12N
L3011	A	D	12N
L3012	A	D	12N
L3301	A	D	4G
L6001	A	D	16O
L6002	A	D	21O
L6005	A	D	16O
L6032	A	D	17O
L6201	A	D	21L
L6202	A	D	20L
L6203	A	D	21L
L6204	A	D	18L
L6208	A	D	19L
L7501	A	D	21I
TRANSISTOR			
Q1	B	C	13E
Q2	B	C	13E
Q3	B	C	13F
Q4	B	C	13F
Q5	B	C	6G
Q7	B	C	7F
Q8	B	C	6F
Q9	B	C	6G
Q10	B	C	8F
Q11	B	C	7G
Q12	B	C	8G
Q14	B	C	5F
Q16	B	C	13K
Q17	B	C	13K
Q18	B	C	12K
Q21	B	C	8J
Q24	B	C	7H
Q25	B	C	7J
Q28	B	C	12K
Q31	B	C	7E
Q32	B	C	12J
Q34	B	C	8J
Q37	B	C	10K
Q38	B	C	13J
Q39	B	C	7J
Q40	B	C	7J
Q41	B	C	8J
Q301	B	C	7C
Q302	B	C	6E
Q311	B	C	6C
Q312	B	C	6C
Q401	B	C	9B
Q402	B	C	8C
Q403	B	C	8B
Q404	B	C	8C
Q405	B	C	8C
Q701	B	C	21F
Q702	B	C	21F
Q703	B	C	21E
Q704	B	C	21E
Q705	B	C	21E
Q706	B	C	21E
Q707	B	C	21E
Q708	B	C	20G
Q709	B	C	21F
Q710	B	C	21G
Q711	B	C	21G
Q712	B	C	20G
Q713	B	C	17F
Q714	B	C	17E
Q725	B	C	17D
Q726	B	C	20B
Q727	B	C	21B
Q728	B	C	20B
Q729	B	C	19D
Q730	B	C	19D
Q731	B	C	20D
Q2001	B	C	13H
Q2002	B	C	14H
Q2003	B	C	13I
Q2004	B	C	13J
Q2011	B	C	14H
Q2051	B	C	12L
Q2052	B	C	11L
Q2053	B	C	11L
Q2054	B	C	11L
Q2061	B	C	9A
Q2062	B	C	8A
Q2251	B	C	8C
Q2252	B	C	8D
Q2601	B	C	17A
Q2602	B	C	17B
Q3001	B	C	11N
Q3002	A	D	8P
Q3003	A	D	8A
Q3004	B	C	12M
Q3005	B	C	9M
Q3007	B	C	6P
Q3009	B	C	4O
Q3010	B	C	5O
Q3011	B	C	5P
Q3302	B	C	4E
Q3303	B	C	4E
Q3304	B	C	5E
Q3305	B	C	3H
Q3306	B	C	3H
Q3307	B	C	2E
Q3308	B	C	3D
Q4001	B	C	8O
Q4002	B	C	9N
Q4003	B	C	9O
Q5501	A	D	14P
Q5502	B	C	15O
Q5503	B	C	15O
Q5504	A	D	21N
Q5505	B	C	21O
Q5506	B	C	21O
Q5507	B	C	20N
Q5508	A	D	20O
Q6030	B	C	18O
Q6031	B	C	18O
Q6032	B	C	20O
Q6040	B	C	18N
Q6041	B	C	17N
Q6042	B	C	16N
Q6501	B	C	19O
Q6502	B	C	19O
Q6551	A	D	18N
Q7501	A	D	21H
Q7502	B	C	22F
Q7503	B	C	8K
RESISTOR			
R1	B	C	13H
R2	B	C	13I
R3	B	C	13K
R4	B	C	11K
R5	B	C	10J
R6	B	C	10I
R7	B	C	10I
R8	B	C	9H
R9	B	C	9H
R21	B	C	12D
R22	B	C	12D
R23	B	C	6G
R24	B	C	7E
R25	B	C	7F
R26	B	C	7E
R27	B	C	7F
R28	B	C	7F
R29	B	C	7F
R30	B	C	7F
R31	B	C	7G
R32	B	C	6F
R33	B	C	13K
R34	B	C	13K
R35	B	C	13K
R36	B	C	9H
R38	B	C	10H
R39	B	C	8H
R40	B	C	8G
R41	B	C	8F
R42	B	C	8F
R43	B	C	8G
R44	B	C	8F
R45	B	C	8G
R46	B	C	9J
R47	B	C	8J
R48	B	C	9J
R51	B	C	8G
R54	B	C	13K
R61	B	C	7E
R62	B	C	12K
R65	B	C	6G
R66	B	C	12J
R68	B	C	6F
R69	B	C	11J
R70	B	C	12J
R72	B	C	8J
R73	B	C	8J
R75	B	C	12J
R76	B	C	9J
R77	B	C	14D
R79	B	C	9H
R80	B	C	8J
R81	B	C	5G
R82	B	C	12M
R84	B	C	5E
R85	B	C	8K
R88	B	C	8H
R90	B	C	12I
R91	B	C	11K
R92	B	C	13I
R93	B	C	13J
R104	B	C	13J
R113	B	C	6G
R114	B	C	7J
R115	B	C	7E
R301	B	C	5C
R302	B	C	6C
R303	B	C	6C
R304	B	C	7C
R305	B	C	7C
R306	B	C	6D
R307	B	C	7C
R308	B	C	7D
R309	B	C	7D
R310	B	C	6D
R311	B	C	6E
R312	B	C	5D
R313	B	C	5D
R314	B	C	6D
R315	B	C	6E
R316	B	C	6D
R321	B	C	5C
R326	B	C	6D
R327	B	C	6E
R328	B	C	7E
R329	B	C	6D
R401	B	C	9C
R402	B	C	9C
R403	B	C	9C
R404	B	C	8C
R405	B	C	8C
R406	B	C	8C
R407	B	C	8C
R408	B	C	8D
R409	B	C	8C
R701	B	C	20F
R702	B	C	21F
R703	B	C	21F
R704	B	C	21E
R705	B	C	21E
R706	B	C	21E
R707	B	C	21E
R708	B	C	21E
R709	B	C	21E
R710	B	C	20E
R711	B	C	20E
R712	B	C	21E
R713	B	C	21F
R714	B	C	21F
R715	B	C	21E
R716	B	C	20G
R717	B	C	21G
R718	B	C	21G
R719	B	C	21F
R720	B	C	20G
R721	B	C	21G
R722	B	C	20G
R723	B	C	20G
R724	B	C	21G
R725	B	C	18F
R726	B	C	18F
R727	B	C	17F
R728	B	C	17F
R729	B	C	17F
R730	B	C	17F
R767	B	C	20G
R768	B	C	19G
R769	B	C	16D
R770	B	C	16D
R771	B	C	17D
R772	B	C	17E
R773	B	C	16E
R774	B	C	16D
R775	B	C	17E
R776	B	C	17D
R777	B	C	18E
R778	B	C	20B
R779	B	C	21B
R780	B	C	21B
R781	B	C	20B
R782	B	C	21B
R783	B	C	20B
R784	B	C	21C
R785	B	C	20D
R786	B	C	20D
R2003	B	C	9F
R2004	B	C	8F
R2005	B	C	9E
R2006	B	C	10E
R2007	B	C	10E
R2008	B	C	10F
R2009	B	C	10F
R2010	B	C	10F
R2011	B	C	13J
R2012	B	C	11D
R2013	B	C	13G
R2014	B	C	13G
R2015	B	C	13G
R2016	B	C	14H
R2017	B	C	13H
R2018	B	C	13H
R2019	B	C	13I
R2020	B	C	13J
R2051	B	C	13L
R2052	B	C	13L
R2053	B	C	12L
R2054	B	C	12L
R2055	B	C	12K
R2056	B	C	11L
R2057	B	C	11K
R2058	B	C	11K
R2059	B	C	11L
R2060	B	C	11L
R2061	B	C	8A
R2062	B	C	9A
R2063	B	C	8B
R2064	B	C	7A
R2065	B	C	7A
R2121	A	D	8E
R2206	B	C	9F
R2207	B	C	8F
R2208	B	C	8F
R2209	B	C	8E
R2210	B	C	9F
R2211	B	C	9E
R2213	B	C	10E
R2215	B	C	10F
R2217	B	C	10D
R2218	B	C	10D
R2219	B	C	10D
R2220	B	C	10D
R2222	B	C	10E
R2223	B	C	10E
R2224	B	C	10E
R2225	B	C	10E
R2226	B	C	10D
R2227	B	C	10E
R2228	B	C	9G
R2229	B	C	9G
R2230	B	C	8F
R2231	B	C	8F
R2251	B	C	8D
R2252	B	C	8D
R2601	B	C	11A
R2602	B	C	12A
R2603	B	C	11A
R2604	B	C	11A
R2605	B	C	12A
R2606	B	C	11B
R2607	B	C	11B
R2608	B	C	11B
R2609	B	C	12B
R2610	B	C	16A
R2611	B	C	16B
R2612	B	C	16A
R2613	B	C	16B
R2614	B	C	16A
R2615	B	C	16B
R2616	B	C	17B
R2617	B	C	16B
R2618	B	C	16B
R2619	B	C	12B
R2620	B	C	12C
R2621	B	C	13C
R2622	B	C	13C
R2623	B	C	16B
R2624	B	C	16C
R2625	B	C	16C
R2626	B	C	16C
R2627	B	C	10C
R2628	B	C	11C
R2629	B	C	12C
R2630	B	C	11C
R2631	B	C	12C
R2632	B	C	12C
R2633	B	C	12D
R2634	B	C	11C
R2635	B	C	11C
R2636	B	C	12C
R2637	B	C	12A
R2638	B	C	12B
R2639	B	C	12B
R2640	B	C	13D
R2651	B	C	18B
R2652	B	C	18B
R2653	B	C	19A
R2654	B	C	19A
R2655	B	C	19B
R2656	B	C	19C
R2657	B	C	19C
R2658	B	C	18C
R2659	B	C	18C
R2660	B	C	21A
R2661	B	C	21A
R2662	B	C	21A
R2663	B	C	21A
R2664	B	C	20A
R2665	B	C	20A
R2666	B	C	20A
R2667	B	C	20A
R2668	B	C	19B
R2681	B	C	17B
R2682	B	C	17B
R2683	B	C	18B
R2684	B	C	17A
R2685	B	C	18A
R2686	B	C	18B
R2687	B	C	16B
R2688	B	C	18C
R2689	B	C	15A
R2690	B	C	15A
R2691	B	C	15C
R2692	B	C	13C
R3011	B	C	8O
R3012	B	C	8O
R3013	B	C	8O
R3014	B	C	8O
R3015	B	C	8O
R3016	B	C	8O
R3017	B	C	7O
R3018	B	C	7O
R3019	B	C	7O
R3020	B	C	7O
R3021	B	C	7P
R3022	B	C	7O
R3025	B	C	7O
R3026	B	C	7O
R3027	B	C	6O
R3029	B	C	6O
R3030	B	C	6O
R3031	B	C	6O
R3032	B	C	6O
R3033	B	C	6O
R3034	B	C	6O
R3035	B	C	6O
R3036	B	C	6O
R3038	B	C	5O
R3039	B	C	5O
R3040	B	C	5O
R3041	B	C	5P
R3042	B	C	5O
R3044	B	C	4P
R3046	B	C	4O
R3047	B	C	4O
R3048	B	C	4O
R3049	B	C	5N
R3050	B	C	5N
R3051	B	C	5N
R3052	B	C	5N
R3053	B	C	5N
R3054	B	C	4N
R3055	B	C	4N
R3056	B	C	4N
R3057	B	C	3N
R3058	B	C	4M
R3059	B	C	3N
R3060	B	C	5M
R3061	B	C	5M
R3062	B	C	4M
R3063	B	C	4M
R3066	B	C	4M
R3069	B	C	5L
R3071	B	C	6L
R3072	B	C	5K
R3073	B	C	5K
R3074	B	C	5K
R3075	B	C	6L
R3076	B	C	6L
R3077	B	C	6L
R3078	B	C	6L
R3079	B	C	6K
R3080	B	C	6K
R3081	B	C	5K
R3083	B	C	6K
R3085	B	C	7L
R3086	B	C	7L
R3087	B	C	7K
R3088	B	C	7K
R3089	B	C	7K
R3090	B	C	7K
R3091	B	C	7L
R3092	B	C	7L
R3093	B	C	7K
R3094	B	C	8K
R3095	B	C	8K
R3096	B	C	8K
R3097	B	C	8K
R3103	B	C	8L
R3104	B	C	8M
R3105	B	C	8M
R3106	B	C	8M
R3107	B	C	5P
R3201	B	C	11N
R3202	B	C	11N
R3203	B	C	11N
R3204	B	C	11N
R3205	A	D	6H
R3206	B	C	8P
R3207	B	C	8P
R3208	B	C	4D
R3209	B	C	4D
R3210	B	C	5L
R3211	B	C	5K
R3212	B	C	10M
R3213	B	C	5O
R3214	B	C	4L
R3215	B	C	4L
R3216	B	C	4L
R3217	B	C	5P
R3218	A	D	14M
R3219	B	C	12N
R3220	B	C	5P
R3222	B	C	10M
R3223	B	C	10O
R3224	B	C	10O
R3225	B	C	4K
R3229	B	C	5M
R3230	B	C	4M
R3231	B	C	4L
R3233	B	C	8P
R3234	B	C	6P
R3235	B	C	2N
R3236	B	C	2N
R3237	B	C	2K
R3238	B	C	3K
R3239	B	C	2K
R3241	B	C	4P
R3244	B	C	2K
R3245	B	C	7P
R3246	B	C	7P
R3247	B	C	6P
R3251	B	C	1F
R3252	B	C	8O
R3254	B	C	6K
R3255	B	C	6K
R3256	B	C	9K
R3257	B	C	4P
R3258	B	C	7P
R3259	B	C	10P
R3260	B	C	10P
R3261	B	C	2L
R3262	B	C	2M
R3301	B	C	3H
R3302	B	C	3H
R3303	B	C	3H
R3305	B	C	3H
R3306	B	C	3H
R3308	B	C	2G
R3309	B	C	2G
R3310	B	C	2H
R3311	B	C	2G
R3312	B	C	2G
R3313	B	C	2G
R3314	B	C	2G
R3315	B	C	2G
R3316	B	C	2F
R3317	B	C	2F
R3318	B	C	1F
R3319	B	C	2F
R3320	B	C	1F
R3321	B	C	1E
R3322	B	C	1E
R3323	B	C	1E
R3324	B	C	1D
R3325	B	C	1D
R3326	B	C	1D
R3327	B	C	2C
R3328	B	C	2C
R3329	B	C	2D
R3330	B	C	2C
R3331	B	C	2C
R3332	B	C	2C
R3334	B	C	2D
R3335	B	C	2E
R3336	B	C	2D
R3337	B	C	2E
R3338	B	C	2D
R3339	B	C	2E
R3340	B	C	2E
R3341	B	C	3E
R3342	B	C	3E
R3343	B	C	3D
R3344	B	C	3D
R3346	B	C	3D
R3347	B	C	3D
R3348	B	C	3D
R3349	B	C	3D
R3350	B	C	3C
R3351	B	C	3C
R3352	B	C	3C
R3353	B	C	3C
R3354	B	C	4C
R3355	B	C	4C
R3357	B	C	4E
R3358	B	C	4E
R3360	B	C	4F
R3361	B	C	5F
R3362	B	C	4F
R3363	B	C	4F
R3364	B	C	4G
R3365	B	C	4G
R3366	B	C	4G
R3369	B	C	3G
R3371	B	C	3G
R3376	B	C	4G
R3377	B	C	4G
R3378	B	C	3G
R3379	B	C	3G
R3380	B	C	4H
R3401	B	C	3I
R3402	B	C	5F
R3403	B	C	2H
R3411	B	C	3D
R3412	B	C	3D
R3416	B	C	4E
R3417	B	C	5E
R3418	B	C	5E
R3419	B	C	3E
R3424	B	C	4E
R3425	B	C	2H
R3601	B	C	5C
R3602	B	C	5C
R3603	B	C	4C
R3604	B	C	4C
R3605	B	C	4C
R3606	B	C	4B
R3607	B	C	4B
R3608	B	C	4B
R3609	B	C	5B
R3610	B	C	5A
R3611	B	C	5B
R3612	B	C	5B
R3613	B	C	3H
R3614	B	C	6A
R4001	B	C	8L
R4003	B	C	8N
R4004	B	C	8N
R4005	B	C	9N
R4007	B	C	8O
R4008	B	C	7O
R4009	B	C	8L
R4010	B	C	8L
R4011	B	C	8L
R4012	B	C	8L
R4013	B	C	9M
R4014	B	C	8L
R4015	B	C	8L
R4016	B	C	8L
R4017	B	C	8M
R4018	B	C	8M
R4019	B	C	8M
R4020	B	C	9O
R4021	B	C	8M
R5501	B	C	15O
R5502	A	D	21N
R5503	B	C	21N
R5504	B	C	21N
R5505	B	C	21O
R5506	B	C	21N
R5507	B	C	21O
R5508	B	C	20N
R5509	B	C	20O
R6020	B	C	20P
R6021	B	C	20P
R6022	B	C	20P
R6023	B	C	20P
R6024	B	C	19P
R6025	B	C	20P
R6030	B	C	18O
R6031	B	C	17P
R6032	B	C	19O
R6033	B	C	20O
R6034	B	C	18O
R6038	B	C	18P
R6040	B	C	18O
R6041	B	C	18N
R6042	B	C	18O
R6043	B	C	18N
R6044	B	C	17O
R6045	B	C	17O
R6046	B	C	16N
R6060	B	C	18P
R6061	B	C	18P
R6201	B	C	18M
R6202	B	C	18M
R6203	B	C	15P
R6204	B	C	15P
R6221	B	C	19N
R6222	B	C	20M
R6508	B	C	19O
R6509	B	C	19O
R6510	B	C	19O
R6511	B	C	19O
R6551	B	C	18M
R6552	B	C	18M
R6553	B	C	20O
R6554	B	C	20O
R6601	B	C	19N
R7501	B	C	20J
R7502	B	C	20J
R7503	B	C	22F
R7504	B	C	22F
R7505	B	C	22H
R7506	B	C	22H
R7507	A	D	21H
R7508	B	C	22F
R7509	B	C	1K
R7510	B	C	1K
R7511	B	C	1K
R7512	B	C	9K
R7513	B	C	17J
R7514	B	C	1D
VR701	A	D	17E
SWITCH			
S3001	A	D	2B
S3002	A	D	4N
TEST POINT			
TP106	A	D	15N
TP111	A	D	15O
TP701	A	D	15D
TP2253	A	D	15N
TP3301	B	C	3G
TP3302	B	C	4G
TP3303	B	C	5F
TP3304	B	C	3H
TP3305	B	C	2G
TP3306	B	C	4G
TP3901	B	C	5N
TP3902	B	C	5N
TP3903	B	C	4M
TP3904	B	C	6M
TP3905	B	C	5M
TP3906	B	C	5N
TP3907	B	C	5N
TP3908	B	C	5N
TP3910	B	C	8M
TP3911	B	C	6O
TP4001	A	D	15O
TPGND	A	D	15C
OTHER			
CF3301	A	D	4G
CF6031	A	D	18O
CP3002	A	D	11P
CP3003	A	D	11P
CP3004	A	D	15L
CP4001	A	D	11P
CP6201	A	D	14P
FL701	A	D	21B
FL702	A	D	20B
K2001	B	C	14K
K2002	B	C	13G
K2251	B	C	13E
K2252	B	C	12E
K2253	B	C	12E
K6080	B	C	20P
LC6201	A	D	19L
PC3001	A	D	4D
PC3002	A	D	5L
T2051	A	D	12L
T2052	A	D	9A
T6040	A	D	17N
TU6001	A	D	22P
TU6201	A	D	22M
WR3001	A	D	18D
X1	A	D	10H
X2	A	D	10H
X3001	A	D	5M
X3002	A	D	5L

4.30 DEMODULATOR AND ON SCREEN CIRCUIT BOARDS

<14> DEMODULATOR
LPB10094-001B

COPMONENT PARTS LOCATION GUIDE <DEMODULATOR>

REF.NO.	LOCATION		
CAPACITOR			
C6701	B	C	1A
C6702	B	C	2A
C6703	B	C	1B
C6704	B	C	1B
C6705	B	C	2B
C6706	B	C	2B
C6707	B	C	2B
C6708	B	C	2A
C6709	B	C	2A
C6710	B	C	3B
C6711	B	C	3B
C6712	B	C	4B
C6713	B	C	4C
C6714	B	C	4C
C6715	A	D	4D
C6716	B	C	3D
C6717	A	D	4D
C6718	B	C	3D
C6719	A	D	3D
C6720	A	D	2D
C6721	B	C	2C
C6722	A	D	1D
C6723	B	C	2C
C6724	A	D	1C
CONNECTOR			
CN6701	A	D	3A
DIODE			
D6701	A	D	4B
IC			
IC6701	B	C	3C
COIL			
L6701	A	D	1A
L6702	A	D	1C
TRANSISTOR			
Q6701	B	C	1B
RESISTOR			
R6701	B	C	1A
R6702	B	C	2A
R6703	B	C	1A
R6704	B	C	1B
R6705	B	C	2A
R6706	B	C	2B
R6707	B	C	1B
R6708	B	C	3A
R6709	B	C	3A
R6710	B	C	4B
R6711	B	C	4C
R6712	B	C	3C
R6713	B	C	3C
R6714	B	C	3D
R6715	B	C	3D
R6716	B	C	4C
R6718	B	C	1C
R6719	A	D	2A
R6720	B	C	3D
R6721	B	C	2D
OTHER			
K6701	B	C	1B
K6702	B	C	2B
K6703	B	C	3B
K6704	B	C	3B
K6705	B	C	3B
K6706	B	C	3D
K6707	B	C	1C
X6701	A	D	2B

<17> ON SCREEN
LPB10127-001B

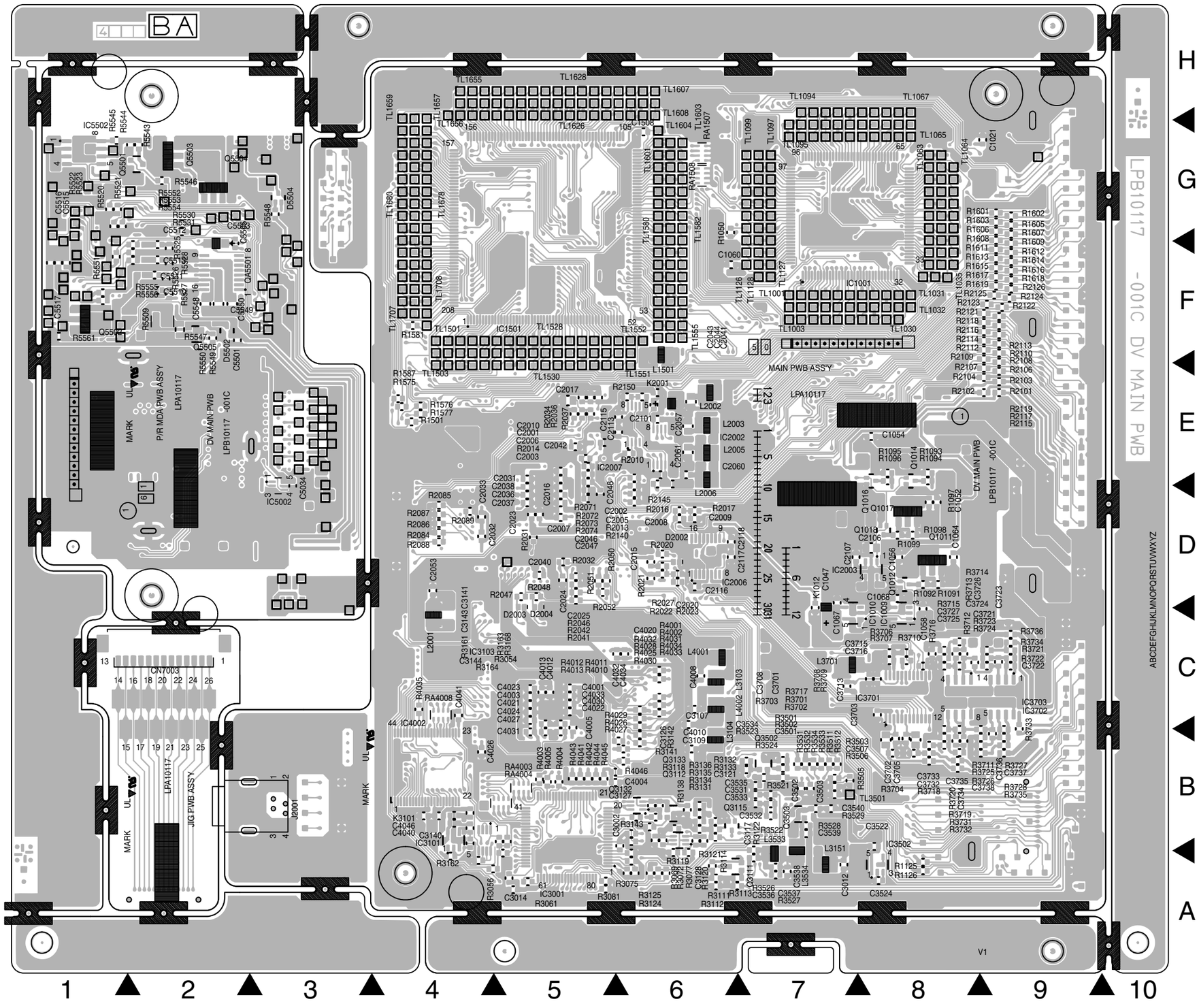
COPMONENT PARTS LOCATION GUIDE <ON SCREEN>

REF.NO.	LOCATION		
CAPACITOR			
C851	A	D	5D
C852	B	C	5C
C853	B	C	5C
C854	B	C	4C
C855	B	C	4D
C856	B	C	4D
C857	B	C	4D
C858	B	C	4D
C859	B	C	3D
C860	B	C	3B
C861	B	C	2B
C862	B	C	2C
C863	B	C	2C
C864	B	C	5A
C865	B	C	5B
C866	B	C	5B
C867	B	C	4B
C868	B	C	4B
C869	B	C	4B
C870	B	C	4B
C871	B	C	3B
C872	B	C	3C
C873	A	D	3B
C874	B	C	3C
C875	B	C	3C
C876	A	D	3D
C877	A	D	2C
C878	B	C	1C
C879	B	C	1B
C880	B	C	1B
C881	B	C	1C
C882	B	C	1C
C883	A	D	1D
C884	B	C	1B
C885	B	C	2A
C886	B	C	1C
CONNECTOR			
CN851	A	D	4A
DIODE			
D851	A	D	5C
D852	A	D	4A
D853	A	D	4A
D854	A	D	4A
D855	B	C	1D
IC			
IC851	A	D	5B
IC852	B	C	1B
COIL			
L851	A	D	5D
L852	A	D	4D
L853	A	D	3D
L854	A	D	3D
L855	A	D	3C
L856	A	D	2C
L857	A	D	5B
L858	A	D	4B
L859	A	D	1A
TRANSISTOR			
Q851	B	C	3B
Q852	B	C	3A
Q853	B	C	2D
Q854	B	C	2C
Q855	B	C	2B
Q856	B	C	5A
Q857	B	C	1B
Q858	B	C	1B
Q859	B	C	1C
Q860	B	C	2D
Q861	B	C	5B
RESISTOR			
R851	A	D	5C
R852	B	C	4C
R853	B	C	4D
R854	B	C	4C
R855	B	C	4C
R856	B	C	4D
R857	B	C	4D
R858	B	C	3B
R859	B	C	3A
R860	B	C	2D
R861	B	C	2B
R862	B	C	2C
R863	B	C	2C
R864	B	C	2C
R865	B	C	2B
R866	B	C	2B
R867	B	C	2B
R868	B	C	3B
R869	B	C	3B
R870	B	C	3B
R871	A	D	4B
R872	B	C	4C
R873	B	C	4A
R874	B	C	3A
R875	B	C	4B
R876	B	C	3B
R877	B	C	3B
R878	B	C	3C
R879	B	C	1B
R880	B	C	1B
R881	B	C	1B
R882	B	C	1B
R883	B	C	1C
R884	B	C	1B
R885	B	C	1B
R886	B	C	1C
R887	B	C	2D
R888	B	C	1A
R889	B	C	1A
R890	B	C	5B
R891	B	C	4B
OTHER			
PC0219	B	C	4B
PC0223	B	C	5B
T851	A	D	1C

4.31 P/R MDA, DV MAIN CIRCUIT BOARDS

<16> P/R MDA, <50> DV MAIN
LPB10117-001C

— FOIL SIDE(B) —



COMPONENT PARTS LOCATION GUIDE <DV MAIN>

REF.NO.	LOCATION
CAPACITOR	
C1001	A C 7H
C1002	A C 8H
C1003	A C 8H
C1004	A C 8H
C1006	A C 8I
C1007	A C 8I
C1008	A C 7I
C1010	A C 7I
C1011	A C 7I
C1021	B C 9J
C1041	A C 9H
C1042	A C 7I
C1043	A C 7I
C1044	A C 7H
C1045	A C 8H
C1047	B C 7E
C1048	A C 8D
C1049	A C 8D
C1050	A C 7D
C1051	A C 8F
C1052	B C 8F
C1053	A C 8F
C1054	B C 8F
C1055	A C 8E
C1056	B C 8E
C1057	A C 8D
C1058	B C 8D
C1059	A C 6H
C1060	B C 6H
C1061	A C 7F
C1062	A C 8F
C1063	A C 8E
C1064	B C 8E
C1067	B C 7E
C1068	B C 8E
C1069	A C 7E
C1070	A C 8E
C1071	A C 6J
C1072	A C 6J
C1073	A C 6J
C1074	A C 6J
C1075	A C 6J
C1501	A C 5H
C1502	A C 5H
C1503	A C 5H
C1504	A C 5H
C1505	A C 5I
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C2109	A C 7F
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C4046	B C 3B
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CONNECTOR	
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CN1002	A C 10I
CN1101	A C 9C
CN1501	A C 10H
CN1502	A C 2I
CN2001	A C 10G
CN3501	A C 10B
CN3701	A C 10C
DIODE	
D1001	A C 7H
D1002	A C 9I
D1003	A C 8H
D1501	A C 3H
D2002	B C 5E
D2003	B C 4E
D2004	B C 4E
IC	
IC1001	B C 7I
IC1002	A C 9J
IC1003	A C 6I
IC1004	A C 6I
IC1005	A C 8H
IC1006	A C 8I
IC1007	A C 8I
IC1008	A C 8I
IC1009	B C 8D
IC1010	B C 7D
IC1011	A C 7D
IC1501	B C 4I
IC1502	A C 3I
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IC3151	A C 7B
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IC3502	B C 8B
IC3701	B C 8D
IC3702	B C 9D
IC3703	B C 9D
IC4001	A C 4C
IC4002	B C 3C
JACK	
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COIL	
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L1013	A C 9F
L1015	A C 9E
L1018	A C 6H
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L2003	B C 6F
L2004	A C 6E
L2005	B C 6F
L2006	B C 6F
L2007	A C 7E
L2008	A C 7E
L2009	A C 5E
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L3702	A C 9D
L4001	B C 6D
L4002	B C 6C
L4003	A C 6D
L4004	A C 3B
TRANSISTOR	
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Q1011	B C 8E
Q1012	B C 8E
Q1013	A C 8F
Q1014	B C 8F
Q1015	A C 8F
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Q3501	A C 6C
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Q3503	B C 7B
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R1004	A C 7H
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R1006	A C 7H
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R1010	A C 7H
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R1027	A C 8I
R1028	A C 7H
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R1032	A C 8I
R1033	A C 8I
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R1036	A C 7H
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R1038	A C 8I
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R4034	B C 5C
R4035	B C 3C
R4036	A C 3C
R4037	A C 3C
R4038	A C 3C
R4039	A C 3C

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R4042	B	C	4C
R4043	B	C	4C
R4044	B	C	5C
R4045	B	C	5C
R4046	B	C	5C
RA1001	A	C	8I
RA1002	A	C	7I
RA1003	A	C	7I
RA1004	A	C	7I
RA1005	A	C	9I
RA1006	A	C	9I
RA1501	A	C	4H
RA1502	A	C	4H
RA1503	A	C	4H
RA1504	A	C	4H
RA1505	A	C	5J
RA1506	A	C	5I
RA1507	B	C	6I
RA1508	B	C	6I
RA1509	A	C	5I
RA1510	A	C	4I
RA4001	A	C	4B
RA4002	A	C	4C
RA4003	B	C	4B
RA4004	B	C	4C
RA4006	A	C	3C
RA4007	A	C	3C
RA4008	B	C	3C
TEST POINT			
TP1001	A	C	9I
TP1002	A	C	9I
TP1501	A	C	2I
TP1503	A	C	3I
TP1504	A	C	3I
TP1505	A	C	3I
TP1507	A	C	2J
TP1508	A	C	3J
TP1509	A	C	3J
TP1510	A	C	2J
OTHER			
K1001	A	C	7H
K1011	A	C	8G
K1012	B	C	7E
K2001	B	C	5G
K2002	A	C	6E
K3101	B	C	3B
LC1002	A	C	8G
LC1003	A	C	8F
LC1005	A	C	8E
LC3101	A	C	3B
TH2001	A	C	5F
TL1001	B	C	7H
TL1002	B	C	7H
TL1003	B	C	7H
TL1004	B	C	7H
TL1005	B	C	7H
TL1006	B	C	7H
TL1007	B	C	7H
TL1008	B	C	7H
TL1009	B	C	7H
TL1010	B	C	7H
TL1011	B	C	7H
TL1012	B	C	7H
TL1013	B	C	7H
TL1014	B	C	7H
TL1015	B	C	7H
TL1016	B	C	7H
TL1017	B	C	7H
TL1018	B	C	7H
TL1019	B	C	7H
TL1020	B	C	7H
TL1021	B	C	7H
TL1022	B	C	8H
TL1023	B	C	8H
TL1024	B	C	8H
TL1025	B	C	8H
TL1026	B	C	8H
TL1027	B	C	8H
TL1028	B	C	8H
TL1029	B	C	8H
TL1030	B	C	8H
TL1031	B	C	8H
TL1032	B	C	8H
TL1033	B	C	8H
TL1034	B	C	8H
TL1035	B	C	8H
TL1036	B	C	8H
TL1037	B	C	8H
TL1038	B	C	8H
TL1039	B	C	8H
TL1040	B	C	8H
TL1041	B	C	8H
TL1042	B	C	8I
TL1043	B	C	8I
TL1044	B	C	8I
TL1045	B	C	8I
TL1046	B	C	8I
TL1047	B	C	8I
TL1048	B	C	8I
TL1049	B	C	8I
TL1050	B	C	8I
TL1051	B	C	8I
TL1052	B	C	8I
TL1053	B	C	8I
TL1054	B	C	8I
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TL1056	B	C	8I
TL1057	B	C	8I
TL1058	B	C	8I
TL1059	B	C	8I
TL1060	B	C	8I
TL1061	B	C	8I
TL1062	B	C	8I
TL1063	B	C	8I
TL1064	B	C	8I
TL1065	B	C	8J
TL1066	B	C	8J
TL1067	B	C	8J
TL1068	B	C	8J
TL1069	B	C	8J
TL1070	B	C	8J
TL1071	B	C	8J
TL1072	B	C	8J
TL1073	B	C	8J
TL1074	B	C	8J
TL1075	B	C	8J
TL1076	B	C	8J
TL1077	B	C	7J
TL1078	B	C	7J
TL1079	B	C	7J
TL1080	B	C	7J
TL1081	B	C	7J
TL1082	B	C	7J
TL1083	B	C	7J
TL1084	B	C	7J
TL1085	B	C	7J
TL1086	B	C	7J
TL1087	B	C	7J
TL1088	B	C	7J
TL1089	B	C	7J
TL1090	B	C	7J
TL1091	B	C	7J
TL1092	B	C	7J
TL1093	B	C	7J
TL1094	B	C	7J
TL1095	B	C	7J
TL1096	B	C	7J
TL1097	B	C	6I
TL1098	B	C	6I
TL1099	B	C	6I
TL1100	B	C	6I
TL1101	B	C	6I
TL1102	B	C	6I
TL1103	B	C	6I
TL1104	B	C	6I
TL1105	B	C	6I
TL1106	B	C	6I
TL1107	B	C	6I
TL1108	B	C	6I
TL1109	B	C	6I
TL1110	B	C	6I
TL1111	B	C	6I
TL1112	B	C	6I
TL1113	B	C	6I
TL1114	B	C	6I
TL1115	B	C	6I
TL1116	B	C	6I
TL1117	B	C	6I
TL1118	B	C	6I
TL1119	B	C	6I
TL1120	B	C	6I
TL1121	B	C	6H
TL1122	B	C	6H
TL1123	B	C	6H
TL1124	B	C	6H
TL1125	B	C	6H
TL1126	B	C	6H
TL1127	B	C	6H
TL1128	B	C	6H
TL1501	B	C	3G
TL1502	B	C	3G
TL1503	B	C	3G
TL1504	B	C	3G
TL1505	B	C	3G
TL1506	B	C	3G
TL1507	B	C	3G
TL1508	B	C	3G
TL1509	B	C	3G
TL1510	B	C	3G
TL1511	B	C	3G
TL1512	B	C	3G
TL1513	B	C	3G
TL1514	B	C	3G
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TL1518	B	C	3G
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TL1524	B	C	4G
TL1525	B	C	4G
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TL1527	B	C	4G
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TL1557	B	C	5H
TL1558	B	C	6H
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TL1562	B	C	5H
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TL1573	B	C	6H
TL1574	B	C	5H
TL1575	B	C	5H
TL1576	B	C	6H
TL1577	B	C	5I
TL1578	B	C	5I
TL1579	B	C	6I
TL1580	B	C	5I
TL1581	B	C	5I
TL1582	B	C	6I
TL1583	B	C	5I
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TL1594	B	C	6I
TL1595	B	C	5I
TL1596	B	C	5I
TL1597	B	C	6I
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TL1599	B	C	5I
TL1600	B	C	6I
TL1601	B	C	5J
TL1602	B	C	5J
TL1603	B	C	6J
TL1604	B	C	5J
TL1605	B	C	5J
TL1606	B	C	5J
TL1607	B	C	5J
TL1608	B	C	5J
TL1609	B	C	5J
TL1610	B	C	5J
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TL1638	B	C	4J
TL1639	B	C	4J
TL1640	B	C	4J
TL1641	B	C	4J
TL1642	B	C	4J
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TL1646	B	C	3J
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TL1649	B	C	3J
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TL1652	B	C	3J
TL1653	B	C	3J
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TL1655	B	C	3J
TL1656	B	C	3J
TL1657	B	C	3J
TL1658	B	C	3J
TL1659	B	C	2J
TL1660	B	C	3J
TL1661	B	C	3J
TL1662	B	C	2J
TL1663	B	C	3J
TL1664	B	C	3J
TL1665	B	C	2J
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TL1667	B	C	3I
TL1668	B	C	2I
TL1669	B	C	3I
TL1670	B	C	3I
TL1671	B	C	2I
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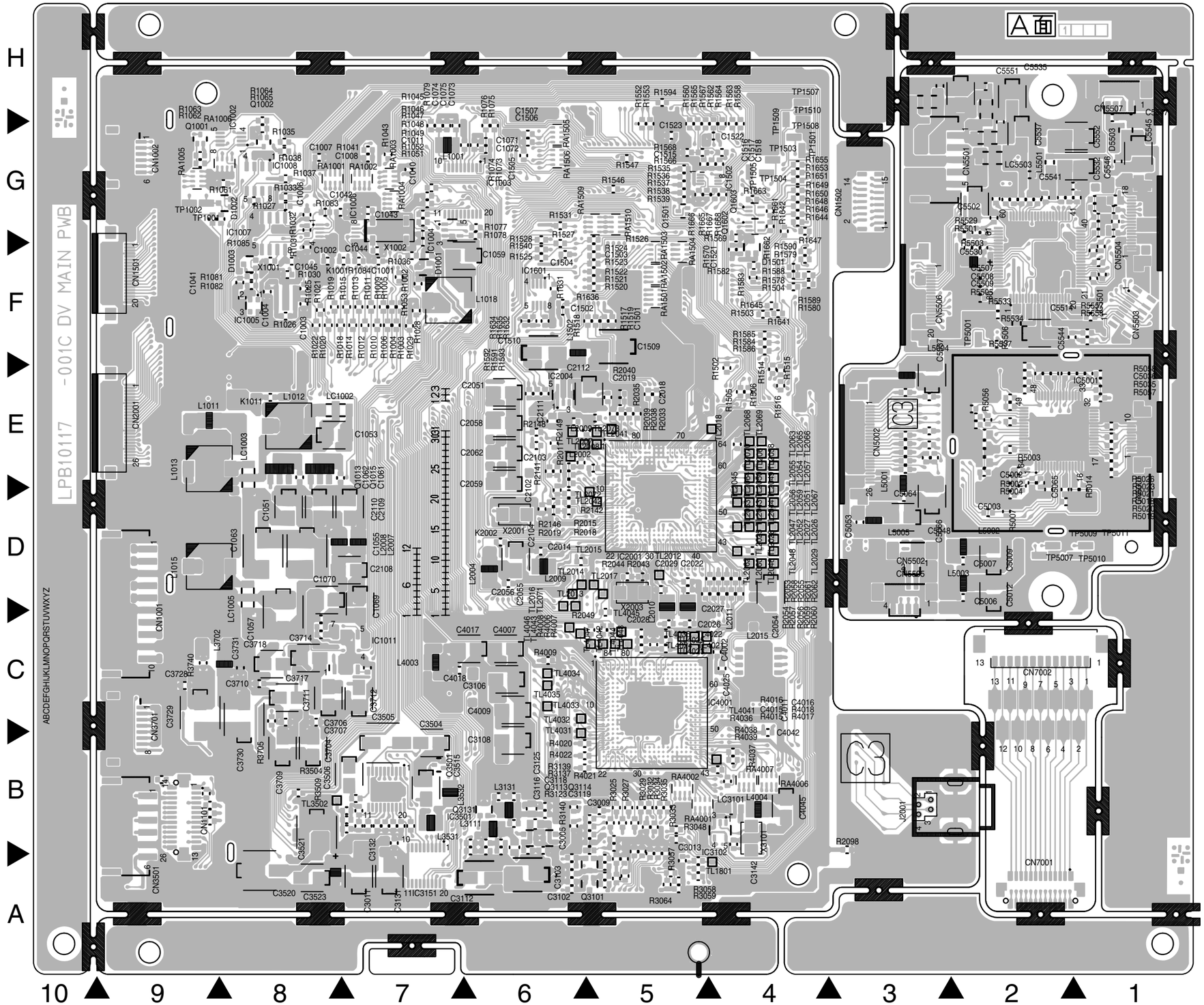
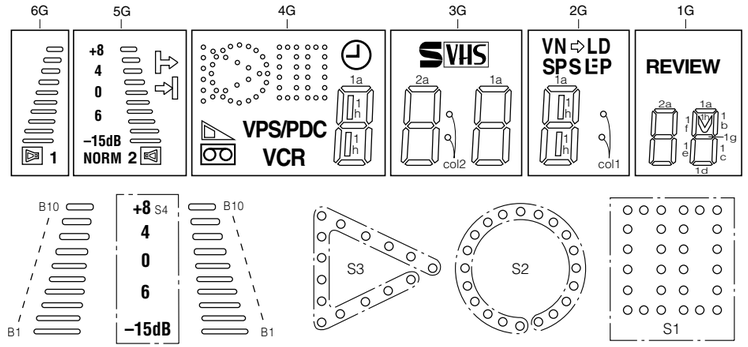
TL1677	B	C	2I
TL1678	B	C	3I
TL1679	B	C	3I
TL1680	B	C	2I
TL1681	B	C	3I
TL1682	B	C	3I
TL1683	B	C	2I
TL1684	B	C	3I
TL1685	B	C	3I
TL1686	B	C	2I
TL1687	B	C	3I
TL1688	B	C	3I
TL1689	B	C	2I
TL1690	B	C	3H
TL1691	B	C	3H
TL1692	B	C	2H
TL1693	B	C	3H
TL1694	B	C	3H
TL1695	B	C	2H
TL1696	B	C	3H
TL1697	B	C	3H
TL1698	B	C	2H
TL1699	B	C	3H
TL1700	B	C	3H
TL1701	B	C	2H
TL1702	B	C	3H
TL1703	B	C	3H
TL1704	B	C	2H
TL1705	B	C	3H
TL1706	B	C	3H
TL1707	B	C	2H
TL1708	B	C	3H
TL1801	A	C	3B
TL2002	A	C	5F
TL2007	A	C	5F
TL2008	A	C	5F
TL2009	A	C	5F
TL2012	A	C	4E
TL2013	A	C	5E
TL2014	A	C	5E
TL2015	A	C	5E
TL2016	A	C	5E
TL2017	A	C	5E
TL2018	A	C	3F
TL2021	A	C	3F
TL2022	A	C	3E
TL2023	A	C	3E
TL2024	A	C	3E
TL2025	A	C	3E
TL2026	A	C	3E
TL2027	A	C	3E
TL2028	A	C	3E
TL2029	A	C	3E
TL2041	A	C	5F
TL2042	A	C	5F
TL2043	A	C	3F
TL2044	A	C	3F
TL2045	A	C	3F
TL2046	A	C	3E
TL2047	A	C	3E
TL2048	A	C	3E
TL2049	A	C	3F
TL2050	A	C	3F
TL2051	A	C	3F
TL2052	A	C	3E
TL2053	A	C	3F
TL2054	A	C	3F
TL2055	A	C	3F
TL2056	A	C	3F
TL2057	A	C	3F
TL2058	A	C	3F
TL2059	A	C	3F
TL2060	A	C	3E
TL2061	A	C	3F
TL2062	A	C	3E
TL2063	A	C	3F
TL2064	A	C	3F
TL2065	A	C	3F
TL2066	A	C	3F
TL2067	A	C	3F
TL2068	A	C	3F
TL2069	A	C	3F
TL2070	A	C	3F
TL2071	A	C	5E
TL2072	A	C	5F
TL2073	A	C	5F
TL2074	A	C	5F
TL2075	A	C	5G
TL2076	A	C	5G
TL2077	A	C	5G
TL2078	A	C	5G
TL3501	B	C	7B
TL3502	A	C	8B
TL4021	A	C	3D
TL4022	A	C	3D
TL4023	A	C	4D
TL4024	A	C	4D
TL4025	A	C	4D
TL4031	A	C	5C
TL4032	A	C	5C
TL4033	A	C	5C
TL4034	A	C	5D
TL4035	A	C	5D
TL4036	A	C	4D
TL4041	A	C	3C
TL4042	A	C	5D
TL4043	A	C	5D
TL4044	A	C	4D
TL4045	A	C	4D
TL4046	A	C	5D
TL4047	A	C	5D
TL4048	A	C	4D
X1001	A	C	8H
X1002	A	C	7I
X2001	A	C	6F
X2003	A	C	4E
X3101	A	C	3B

— COMPONENT SIDE (A) —



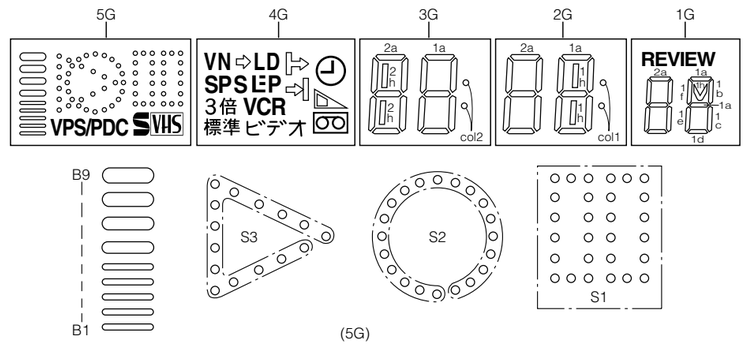
4.32 FDP GRID ASSIGNMENT AND ANODE CONNECTION

[A] (FDP with audio level indicator)



(6G, 5G) (4G)

[B] (FDP without audio level indicator)



(5G)

ANODE CONNECTION [A]

	6G	5G	4G	3G	2G	1G
P 1	—	⇨	S2	1a	1a	1a
P 2	—	⇨	S1	1b	1b	1b
P 3	—	S4	S3	1f	1f	1f
P 4	—	NORM	VPS/PDC	1g	1g	1g
P 5	1	2	◴	1c	1c	1c
P 6	▷	◁	◺	1e	1e	1e
P 7	B10	B10	📼	1d	1d	1d
P 8	B9	B9	VCR	col2	1h	1h
P 9	B8	B8	1a	2a	col1	2a
P10	B7	B7	1b	2b	⇨	2b
P11	B6	B6	1f	2f	VN	2f
P12	B5	B5	1g	2g	LD	2g
P13	B4	B4	1c	2c	SP	2c
P14	B3	B3	1e	2e	S (SEP)	2e
P15	B2	B2	1d	2d	= (SEP)	2d
P16	B1	B1	1h	SVHS	LP (SEP)	REVIEW

ANODE CONNECTION [B]

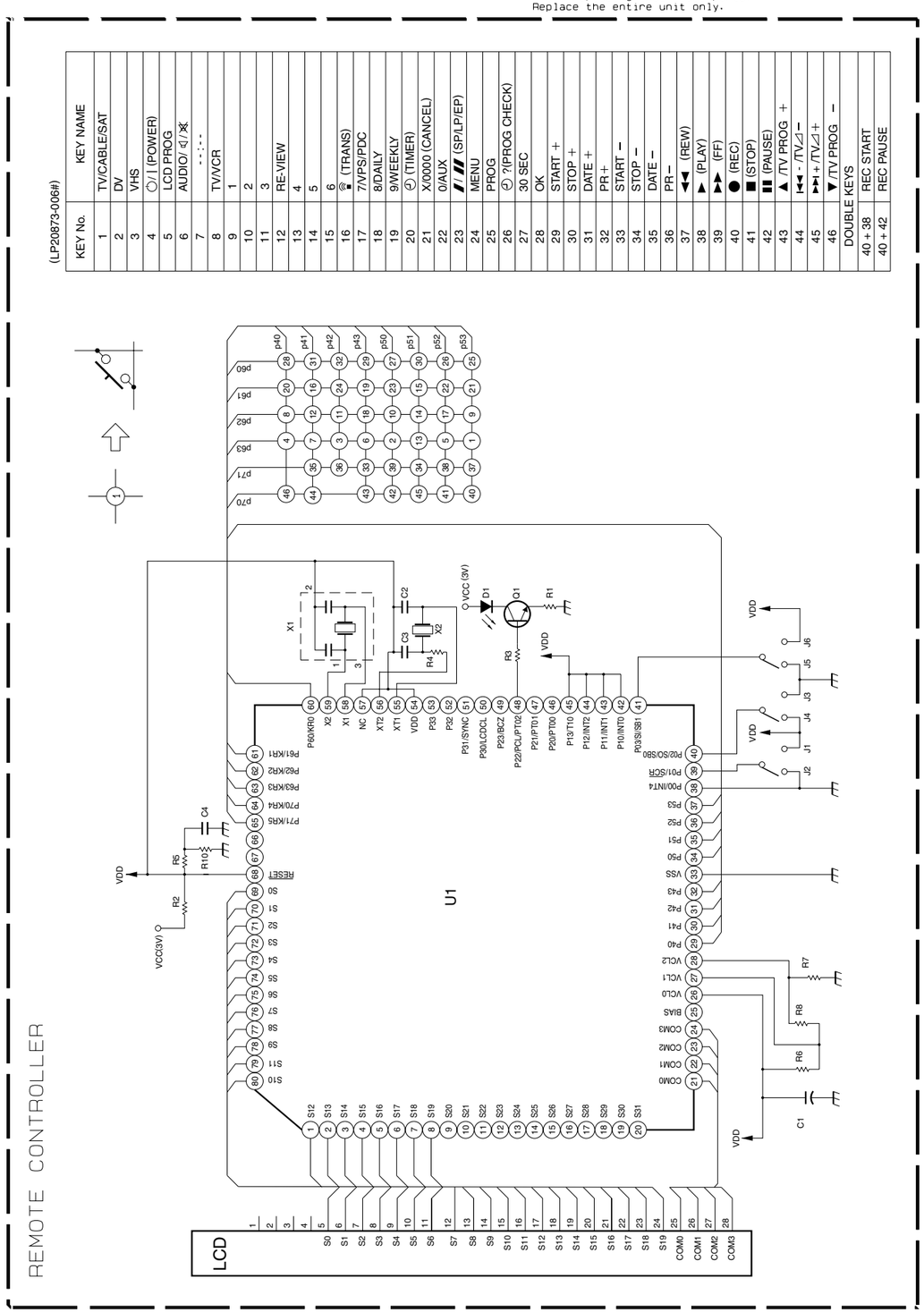
	5G	4G	3G	2G	1G
P 1	S2	⇨	1a	1a	1a
P 2	S1	⇨	1b	1b	1b
P 3	S3	3倍	1f	1f	1f
P 4	VPS/PDC	標準	1g	1g	1g
P 5	SVHS	◴	1c	1c	1c
P 6	—	◺	1e	1e	1e
P 7	—	📼	1d	1d	1d
P 8	B9	VCR	col2	1h	1h
P 9	B8	ビデオ	2a	2a	2a
P10	B7	⇨	2b	2b	2b
P11	B6	VN	2f	2f	2f
P12	B5	LD	2g	2g	2g
P13	B4	SP	2c	2c	2c
P14	B3	S (SEP)	2e	2e	2e
P15	B2	= (SEP)	2d	2d	2d
P16	B1	LP (SEP)	2h	col1	REVIEW

4.33 REMOTE CONTROL SCHEMATIC DIAGRAM

NOTES:
1. All parts shown in this schematic are critical for safety.
2. This schematic is only for reference.
   Avoid replacing individual parts.
   Replace the entire unit only.

(LP20873-006#)

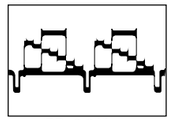
KEY No.	KEY NAME
1	TV/CABLE/SAT
2	DV
3	VHS
4	⏻/I (POWER)
5	LCD PROG
6	AUDIO/ d/
7	--:--
8	TV/VCR
9	1
10	2
11	3
12	RE-VIEW
13	4
14	5
15	6
16	(TRANS)
17	7/VPS/PDC
18	8/DAILY
19	9/WEEKLY
20	(TIMER)
21	X/0000 (CANCEL)
22	0/AUX
23	/ (SP/LP/EP)
24	MENU
25	PROG
26	?(PROG CHECK)
27	30 SEC
28	OK
29	START +
30	STOP +
31	DATE +
32	PR +
33	START −
34	STOP −
35	DATE −
36	PR −
37	(REW)
38	(PLAY)
39	(FF)
40	(REC)
41	(STOP)
42	(PAUSE)
43	/TV PROG +
44	- /TV
45	+ /TV
46	/TV PROG −
DOUBLE KEYS	
40 + 38	REC START
40 + 42	REC PAUSE



4.34 WAVEFORMS

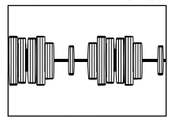
< VIDEO >

WF1 IC1-27



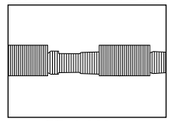
PB 2.3 Vp-p
50 mV/20 µsec/DIV

WF2 IC1-30



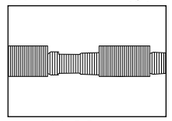
PB 0.88 Vp-p
20 mV/20 µsec/DIV

WF3 TP106 PB FM



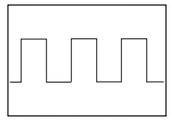
PB 0.3 Vp-p
20 mV/5 msec/DIV

WF4 IC1-1



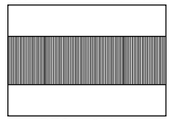
PB 0.3 Vp-p
20 mV/5 msec/DIV

WF5 TP111 D.FF



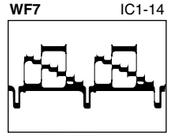
REC/PB 3.4 Vp-p
0.1 V/10 msec/DIV

WF6 IC1-105



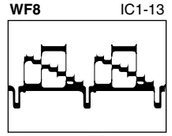
REC 1.6 Vp-p
0.1 V/1 msec/DIV

WF7 IC1-14



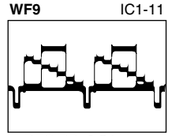
PB 0.54 Vp-p
20 mV/20 µsec/DIV

WF8 IC1-13



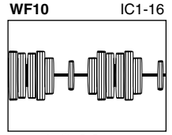
REC/PB 0.54 Vp-p
20 mV/20 µsec/DIV

WF9 IC1-11



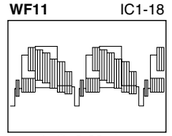
REC/PB 0.54 Vp-p
20 mV/20 µsec/DIV

WF10 IC1-16



REC 0.8 Vp-p
20 mV/20 µsec/DIV

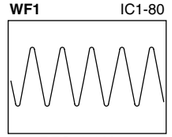
WF11 IC1-18



REC 0.62 Vp-p
20 mV/20 µsec/DIV

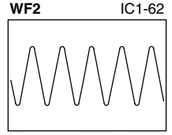
< AUDIO >

WF1 IC1-80



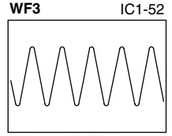
REC 0.4 Vp-p
5 mV/0.5 msec/DIV

WF2 IC1-62



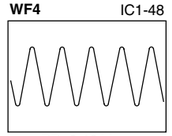
REC/PB 2.0 Vp-p
20 mV/0.5 msec/DIV

WF3 IC1-52



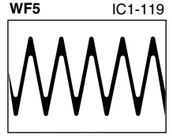
REC 0.22 Vp-p
2 mV/0.5 msec/DIV

WF4 IC1-48



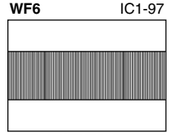
PB 0.48 Vp-p
10 mV/0.5 msec/DIV

WF5 IC1-119



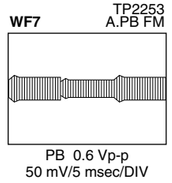
REC 0.7 Vp-p
20 mV/0.5 msec/DIV

WF6 IC1-97



REC 1.4 Vp-p
0.1 V/5 msec/DIV

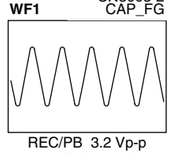
WF7 TP2253 A.PB FM



PB 0.6 Vp-p
50 mV/5 msec/DIV

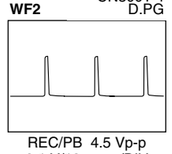
< SYSCON >

WF1 CN3003-2 CAP_FG



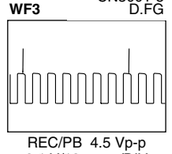
REC/PB 3.2 Vp-p
50 mV/0.5 msec/DIV

WF2 CN3001-4 D.PG



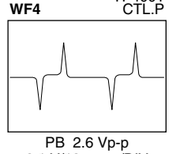
REC/PB 4.5 Vp-p
0.1 V/10 msec/DIV

WF3 CN3001-5 D.FG



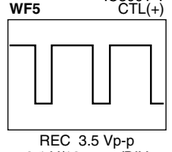
REC/PB 4.5 Vp-p
0.1 V/10 msec/DIV

WF4 TP4001 CTL.P



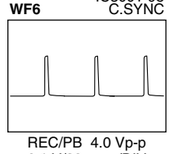
PB 2.6 Vp-p
0.1 V/10 msec/DIV

WF5 IC3001-1 CTL(+)



REC 3.5 Vp-p
0.1 V/10 msec/DIV

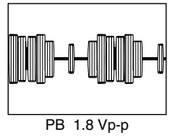
WF6 IC3001-98 C.SYNC



REC/PB 4.0 Vp-p
0.1 V/20 µsec/DIV

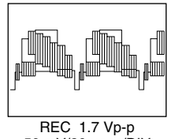
< S-SUB >

WF1 CN511-9



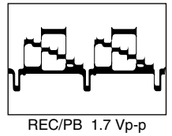
PB 1.8 Vp-p
50 mV/20 µsec/DIV

WF2-1 CN511-10



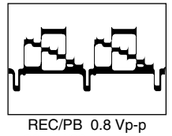
REC 1.7 Vp-p
50 mV/20 µsec/DIV

WF2-2 CN511-10



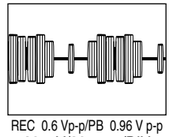
REC/PB 1.7 Vp-p
50 mV/20 µsec/DIV

WF3 CN511-11



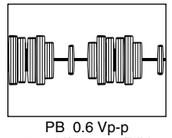
REC/PB 0.8 Vp-p
20 mV/20 µsec/DIV

WF4 CN511-12



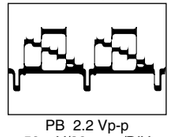
REC 0.6 Vp-p/PB 0.96 V p-p
20 mV/20 µsec/DIV

WF5 CN511-13



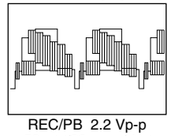
PB 0.6 Vp-p
20 mV/20 µsec/DIV

WF6 CN511-17



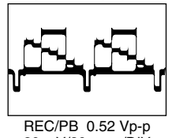
PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF7 CN511-25



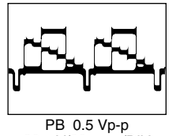
REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF8 CN511-27



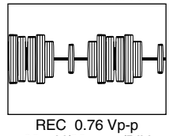
REC/PB 0.52 Vp-p
20 mV/20 µsec/DIV

WF9 CN511-29



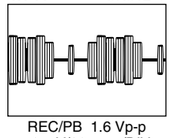
PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF10 CN511-30



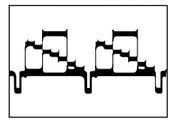
REC 0.76 Vp-p
20 mV/20 µsec/DIV

WF11 CN512-4



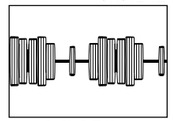
REC/PB 1.6 Vp-p
50 mV/20 µsec/DIV

WF12 CN512-6



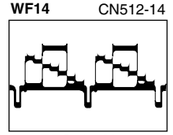
REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF13 CN512-12



REC 0.7 Vp-p
20 mV/20 µsec/DIV

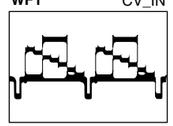
WF14 CN512-14



REC 1.0 Vp-p
20 mV/20 µsec/DIV

< ON SCREEN >

WF1 IC851-21 CV_IN

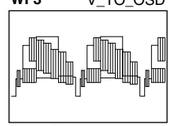


REC/PB 2.0 Vp-p
50 mV/20 µsec/DIV

WF2 IC851-19 CVOUT

REC/PB 2.0 Vp-p
50 mV/20 µsec/DIV

WF3 CN851-14 V_TO_OSD



REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

4.35 VOLTAGE CHARTS

<SW REGULATOR>

MODE PIN NO.	REC	PLAY
IC5101		
1	0.3	0.3
2	0	0
3	302.2	302.2
4	14.6	14.6
5	0	0
IC5301		
1	2.4	2.4
2	0	0
3	10.6	10.6
CN5201		
1	-19.3	-19.3
2	0	0
3	-15.6	-15.6
4	0	0
5	0	0
6	2.2	2.2
7	0	
8	43.3	43.3
9	12.3	12.3
10	4.3	4.3
11	4.3	4.3
12	31.7	31.7
13	4.3	4.3
14	-28.3	-28.3
15	7.2	7.2
16	-7.2	-7.2
17	6.4	6.4
18	6.4	6.4
19	21.4	21.4

<REGULATOR>

MODE PIN NO.	REC	PLAY
IC5321		
1	4.3	4.3
2	3.2	3.2
3	0	0
4	2.6	2.6
CN5301		
1	21.4	21.4
2	6.4	6.4
3	6.4	6.4
4	-7.2	-7.2
5	7.2	7.2
6	-28.3	-28.3
7	4.3	4.3
8	31.7	31.7
9	4.3	4.3
10	4.3	4.3
11	12.3	12.3
12	43.3	43.3
13	0	0
14	2.2	2.2
15	0	0
16	0	0
17	-15.6	-15.6
18	0	0
19	-19.3	-19.3
CN5321		
1	12.2	12.2
2	11.6	11.6
3	11.5	11.5
4	0	0
5	0	0
6	-19.3	-19.3
7	-28.4	-28.4
8	-15.8	-15.8
9	0	0
10	4.8	4.8
11	0	0
12	4.8	4.8
13	0	0
14	22.6	22.6
15	0	0
CN5322		
1	5.6	5.6
2	43.3	43.3
3	5.0	5.0
4	4.9	4.9
5	-7.3	-7.3
6	12.2	12.2
7	11.4	11.4
8	0	0
9	0	0
10	0	0
11	31.9	31.9
12	5.2	5.2
13	10.9	10.9
CN5323		
1	-7.2	-7.2
2	5.1	5.1
3	0	0
4	3.2	3.2
5	3.2	3.2
6	0	0
7	3.2	3.2
8	3.2	3.2
9	0	0
10	0	0

MODE PIN NO.	REC	PLAY
CN5324		
1	6.7	5.8
2	0	0
3	7.1	7.1
4	5.1	5.1
5	0	0
CN5325		
1	11.2	11.2
2	0	0

<VIDEO/AUDIO>

MODE PIN NO.	REC	PLAY
IC1		
1	4.2	2.1
2	2.8	2.8
3	2.6	2.6
4	1.9	1.4
5	1.9	1.4
6	2.4	2.4
7	2.1	0.7
8	0	0
9	2.7	2.7
10	2.2	2.2
11	3.1	3.1
12	2.8	2.8
13	3.1	3.1
14	3.5	2.4
15	0	0
16	2.8	2.8
17	1.5	1.5
18	2.8	2.8
19	2.9	4.7
20	0	2.8
21	0	1.9
22	2.8	2.8
23	0	2.9
24	4.8	4.8
25	0.3	0.3
26	0	0
27	1.3	2.3
28	2.3	2.3
29	0	1.9
30	2.1	2.1
31	0	0
32	2.6	2.6
33	4.9	4.9
34	2.7	2.2
35	4.8	4.8
36	2.6	2.6
37	2.3	2.3
38	-	-
39	1.2	1.2
40	-	-
41	2.5	2.5
42	-	-
43	0	0
44	2.1	2.1
45	4.6	4.6
46	4.2	4.2
47	2.9	2.9
48	2.6	2.6
49	4.9	4.9
50	2.5	2.5
51	2.8	2.8
52	2.3	2.3
53	2.3	2.3
54	2.5	2.5
55	2.1	2.1
56	0.5	0.5
57	2.3	2.3
58	8.4	8.4
59	4.6	4.6
60	4.2	4.2
61	4.2	4.2
62	4.2	4.2
63	2.3	2.3
64	2.3	2.3
65	1.4	1.7
66	2.8	3.2
67	4.2	4.2
68	4.2	4.2
69	2.3	2.3
70	0	0
71	0.3	0.3
72	0.2	0.2
73	0.2	0.2
74	2.2	2.2
75	2.4	2.4
76	0	0
77	2.5	2.5
78	0.3	0.3
79	0.2	0.2
80	0.2	0.2
81	2.2	2.2
82	0.7	0.7
83	0	0
84	2.3	2.3
85	2.3	2.3
86	2.2	2.2
87	1.5	1.5
88	2.2	2.2
89	2.2	2.2
90	2.3	2.3
91	0.1	0.1
92	0	0
93	0	2.6
94	0	1.4
95	0	0
96	2.4	2.4
97	2.7	2.3
98	2.4	2.4
99	4.9	4.9
100	4.9	4.9
101	0	0
102	0	0
103	0	0
104	2.4	2.4
105	2.3	2.3
106	2.3	2.3
107	4.9	4.9
108	0	0
109	0	0
110	0	0
111	0	2.5
112	2.6	2.6
113	0.5	0.5
114	0	0
115	2.5	2.5
116	2.5	2.5
117	2.5	2.5
118	0	0
119	2.4	2.4
120	4.6	4.6
CN1		
1	0	0
2	0	0
3	0	0
4	0	0
5	2.3	2.3
6	2.3	2.3
7	2.3	2.3
8	2.3	2.3
9	2.7	2.3
10	2.7	2.3
11	2.7	2.3
12	0	0
13	0	0
CN2001		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	2.1	2.4
7	2.4	2.4
CN2002		
1	0	0
2	0	0

<SYSCON>

MODE PIN NO.	REC	PLAY
IC3001		
1	2.7	2.7
2	0	0
3	1.8	2.4
4	2.4	2.4
5	0	0.6
6	2.5	2.5
7	2.4	2.4
8	2.4	2.4
9	4.9	4.9
10	4.8	4.8
11	0	0
12	0	0
13	0	0
14	4.3	4.3
15	4.4	4.4
16	0.6	0.6
17	2.7	2.7
18	3.9	3.9
19	0	0
20	4.5	4.5
21	0	2.5
22	0	1.4
23	0	0
24	4.8	4.8
25	0	0
26	4.9	4.9
27	4.9	4.9
28	4.8	4.8
29	4.8	4.8
30	4.8	4.8
31	4.8	4.8
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	0	4.8
39	4.2	4.2
40	0	0
41	4.7	4.7
42	4.5	4.5
43	0	0
44	0	0
45	4.8	4.8
46	4.7	4.7
47	0	0
48	4.8	4.8
49	4.2	4.2
50	4.6	4.6
51	4.8	4.8
52	4.4	3.8
53	4.3	4.3
54	-	-
55	-	-
56	0	0
57	0	0
58	4.8	0
59	4.8	4.8
60	0	0
61	0	0
62	0	0
63	0	0
64	-	-
65	-	-
66	-	-
67	-	-
68	0	0
69	-	-
70	4.8	4.8
71	4.8	4.8
72	4.8	4.8
73	4.8	4.8
74	0	0
75	4.5	4.5
76	4.5	4.5
77	0	0
78	0	0
79	4.8	4.8
80	0	0
81	4.8	4.8
82	4.8	4.8
83	2.5	2.5
84	0	0
85	0	0
86	4.5	4.5
87	4.8	0
88	4.8	4.8
89	0	0
90	0	0
91	2.7	2.8
92	0	0
93	0	0
94	4.8	4.8
95	0	0
96	0	0
97	4.9	4.9
98	0.4	0.4
99	0	2.7
100	2.5	2.5
101	2.5	2.5
102	1.2	1.2
103	0	0
104	0	0
105	4.8	4.8
106	4.8	4.8
107	0.1	0.1
108	1.5	1.5
109	4.8	4.8
110	0	0
111	0	0
112	2.4	2.4
IC3002		
1	4.8	4.8
2	4.8	4.8
3	0	0
IC3003		
1	0	0
2	0	0
3	0	0
4	0	0
5	4.5	4.5
6	4.5	4.5
7	0	0
8	4.9	4.9
IC3004		
1	12.2	12.2
2	0	0
3	0	0
4	0	0
5	12.2	12.2
6	12.2	12.2
7	0	0
8	0	0
9	0	0
CN3001		
1	11.6	11.6
2	0	0
3	1.4	1.4
4	0.1	0.1
5	1.5	1.5
CN3002		
1	0	0
2	0	0
CN3003		
1	0	0
2	2.4	2.4
3	2.5	2.4
4	4.9	4.9
5	0	0
6	4.8	4.8
7	-	-
8	11.4	11.4
CN3004		
1	4.9	4.9
2	4.9	4.9
3	0	0
4	0	0
CN3011		
1	4.9	4.9
2	4.9	4.9
3	4.3	4.3
4	4.8	4.8
5	4.4	3.7
6	4.2	4.2
7	4.8	4.8
8	0	0
9	0	0
10	-19.3	-19.3
11	-15.8	-15.8
12	-28.4	-28.4
13	3.8	3.8
14	3.5	3.5
15	3.8	3.8
16	3.5	3.5
17	4.8	4.8
18	0	0
CN3014		
1	3.8	3.8
2	2.8	2.8
3	0	0
4	3.0	3.0
5	3.0	3.0
6	0	0

<SUB CPU>

MODE PIN NO.	REC	PLAY
IC3301		
1	0	4.8
2	4.8	4.8
3	0	0
4	0	0
5	0	0
6	0	0
7	4.8	4.8
8	3.5	3.5
9	4.0	4.0
10	0	0
11	4.8	4.8
12	0	0
13	4.8	4.8
14	0	0
15	2.8	2.8
16	0	0
17	4.7	4.7
18	4.8	4.8
19	4.8	4.8
20	4.8	4.8
21	0	0
22	0	0
23	4.8	4.8
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	0	0
31	0	0
32	0	0
33	0	0
34	4.8	4.8
35	4.8	4.8
36	3.9	3.9
37	3.7	3.7
38	0	3.8
39	3.7	3.7
40	4.8	0
41	4.8	0
42	4.8	0
43	0	0
44	0	0
45	0	0
46	0	0
47	0	0
48	0	0
49	0	0
50	0	0
51	0	0
52	0	0
53	0	0
54	0	0
55	0	0
56	0	0
57	0	0
58	0	0
59	4.8	4.8
60	4.8	4.8
61	0	0
62	0	0
63	0	0
64	0.1	0.1
65	0	0
66	0	0
67	0	0
68	4.8	4.8
69	-	-
70	-	-
71	0	0
72	0	0
73	4.8	4.8
74	4.8	4.8
75	0	0
76	0	0
77	0	0
78	0	0
79	2.9	2.9
80	0	0
IC3302		
1	4.8	4.8
2	4.3	4.3
3	0	0
4	4.4	3.8
5	4.4	3.8
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	2.9	2.9
13	4.8	4.8
14	2.9	2.9
15	4.3	4.3
16	4.8	4.8

<TUNER>

MODE PIN NO.	REC	PLAY
CN6701		
1	0	0
2	4.5	4.5
3	4.5	4.5
4	4.8	4.8
5	0.3	0.3
6	0.3	0.3
7	4.9	4.9
8	0	0
9	1.2	1.2
10	0	0

<VIDEO I/O SW>

MODE PIN NO.	REC	PLAY
IC702		
1	6.4	6.4
2	0	0
3	6.4	6.4
4	0	0
5	6.4	6.4
6	11.3	11.3
7	5.6	5.6
8	0	0
IC703		
1	3.1	3.1
2	0	0
3	3.1	3.1
4	0	0
5	3.0	3.0
6	11.4	11.4
7	3.4	3.4
8	0	0
IC705		
1	1.7	1.7
2	0	0
3	1.6	1.6
4	0	0
5	1.6	1.6
6	4.9	4.9
7	1.0	1.0
8	0	0
IC706		
1	5.6	5.6
2	4.9	4.9
3	4.9	4.9
4	0	0
5	0	0
IC707		
1	4.5	4.5
2	2.9	2.9
3	5.0	5.0
4	1.9	1.9
5	1.5	1.5
6	2.1	2.1
7	2.9	2.9
8	0	0
9	2.9	2.9
10	0	0
11	2.5	2.5
12	3.1	3.1
13	2.9	2.9
14	2.2	2.2
IC712		
1	2.7	2.7
2	0	0
3	2.7	2.7
4	0	0
5	0	0
6	4.9	4.9
7	4.1	4.1
8	0	0
CN703		
1	0	0
2	0	0
3	0	0
4	1.7	1.7
5	0	0
6	4.1	4.1
CN704		
1	2.8	2.8
2	2.9	2.9
3	4.3	4.3
4	4.4	3.8
5	4.4	4.8
6	4.5	4.8
7	0	0
8	0	0
9	4.8	4.8
10	2.2	2.2
11	0	0
12	1.5	1.5
13	0	0
14	2.3	2.3
15	4.9	4.9
16	1.8	1.8
17	2.9	2.9
18	11.4	11.4
19	0	0
20	1.2	1.2

<AUDIO I/O>

MODE PIN NO.	REC	PLAY
IC2601		
1	0.2	0.2
2	0	0
3	0.2	0.2
4	0	0
5	0	0
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	5.6	5.6
IC2602		
1	0.2	0.2
2	0.2	0.2
3	0.2	0.2
4	-4.9	-4.9
5	0	0
6	0	0
7	0	0
8	12.2	12.2
IC2603		
1	0.2	0.2
2	1.5	1.5
3	0.2	0.2
4	0	0
5	0	0
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	1.5	1.5
16	5.6	5.6
IC2605		
1	1.4	1.4
2	0.3	0.3
3	0.3	0.3
4	-4.9	-4.9
5	0.3	0.3
6	0.3	0.3
7	1.5	1.5
8	12.2	12.2
IC2606		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	5.6	5.6
IC2607		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	5.6	5.6
IC2608		
1	0	0
2	0	0
3	0	0
4	-4.9	-4.9
5	0	0
6	0	0
7	0	0
8	12.2	12.2
IC2609		
1	8.1	8.1
2	0	0
3	8.1	8.1
4	0	0
5	7.5	7.5
6	0	0
7	7.5	7.5
8	0	0
9	8.1	8.1
10	12.2	12.2
11	8.1	8.1
12	0	0
IC2610		
1	0	0
2	0	0
3	-0.2	-0.2
4	5.6	5.6
5	5.6	5.6
6	0	0
7	-4.9	-4.9
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	5.6	5.6
CN2601		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0

<CONNECTION>

MODE PIN NO.	REC	PLAY
CN501		
1	2.4	2.4
2	0	0
3	2.3	2.3
4	5.0	5.0
5	2.1	2.1
6	0.3	4.5
7	3.3	3.3
8	0	0
9	2.8	2.8
10	0	0
11	4.6	4.6
12	4.2	4.2
13	0	0
14	0.8	0.8
15	2.5	2.5
16	0	0
17	2.5	2.5
CN502		
1	0.3	4.5
2	4.2	4.2
3	4.6	4.6
4	2.4	2.4
5	4.9	4.9
6	4.9	4.9
7	0	0
8	0	0
9	2.3	2.3
10	2.1	2.1
11	3.3	3.3
12	2.9	2.9
13	2.8	2.8
14	0	0
15	0	0
16	2.4	2.1
17	1.3	2.3
18	4.8	4.8
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	2.3	2.3
26	0	0
27	2.5	2.5
28	0	0
29	3.4	2.4
30	2.8	2.8
CN7501		
1	1.1	1.1
2	0	0
3	2.0	2.0
4	0	0
5	5.6	5.6
6	0	0
7	1.3	1.3
8	0	0
9	1.1	1.1
10	0	0
11	1.5	1.5
12	0	0
13	3.3	3.3
14	0	0
15	0	0
CN7502		
1	0	0
2	0	0
3	0	0
4	0	0
5	0.7	0.7
CN7503		
1	10.9	10.9
2	4.4	4.8
3	4.5	4.5
4	0	0
5	4.9	4.9
6	0	0
7	0	0
8	0	0
9	4.3	4.3
10	0	0
11	0	0
12	4.9	4.9
13	11.4	11.4
14	0	0
CN7504		
1	0	0
2	0	0
3	0	0
4	0	0
5	0.2	0.2
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
CN7506		
1	0	0
2	2.4	2.4
3	0	0
4	2.4	2.4
5	0	0
6	2.3	2.3
7	0	0
8	1.3	1.3
9	0	0
10	1.1	1.1
11	0	0
12	0.7	0.7
13	0	0
14	0.1	0.1
CN7507		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	5.0	5.0
12	5.0	5.0
13	0	0
14	0	0
15	4.9	4.9
16	4.9	4.9
CN7508		
1	10.9	10.9
2	5.2	5.2
3	31.9	31.9
4	0	0
5	0	0
6	0	0
7	11.4	11.4
8	12.2	12.2
9	-7.3	-7.3
10	4.9	4.9
11	5.0	5.0
12	43.3	43.3
13	5.6	5.6
CN7509		
1	0	0
2	22.6	22.6
3	0	0
4	4.8	4.8
5	0	0
6	4.8	4.8
7	0	0
8	-15.8	-15.8
9	-28.4	-28.4
10	-19.3	-19.3
11	0	0
12	0	0
13	11.5	11.5
14	11.6	11.6
15	12.2	12.2

<3D DIGITAL/2M>

MODE PIN NO.	REC	PLAY
IC1401	-	-
CN1401		
1	2.4	2.4
2	0	0
3	2.3	2.3
4	5.0	5.0
5	2.1	2.1
6	0.3	4.5
7	3.3	3.3
8	0	0
9	2.8	2.8
10	0	0
11	4.6	4.6
12	4.2	4.2
13	0	0
14	0.8	0.8
15	2.5	2.5
16	0	0
17	2.5	2.5

<TERMINAL>

MODE PIN NO.	REC	PLAY
IC7101		
1	5.2	5.2
2	0	0
3	5.2	5.2
4	4.3	4.3
5	5.1	5.1
6	11.4	11.4
7	6.8	6.8
8	0	0
IC7102		
1	3.2	3.2
2	0	0
3	3.3	3.3
4	4.3	4.3
5	3.2	3.2
6	11.4	11.4
7	3.6	3.6
8	0	0
IC7103		
1	0.3	0.3
2	1.1	1.1
3	1.9	1.9
4	0	0
5	0	0
6	0	0
7	2.0	0
8	0	0
9	2.0	2.0
10	2.0	2.0
11	2.0	2.0
12	2.0	2.0
13	0	0
14	0	0
15	2.4	2.4
16	4.9	4.9
IC7104		
1	1.6	1.6
2	0	0
3	1.6	1.6
4	10.8	10.8
5	1.9	1.9
6	0	0
7	4.8	4.8
8	10.8	10.8
9	4.8	4.8
10	0.1	0.1
11	4.8	4.8
12	0	0
13	4.5	4.5
14	4.4	4.4
15	4.8	4.8
16	4.8	4.8
17	4.8	4.8
18	4.8	4.8
19	10.8	10.8
20	2.3	2.3
21	1.3	1.3
22	1.4	1.4
23	2.6	2.6
24	2.0	2.0
CN7101		
1	1.1	1.1
2	0	0
3	2.0	2.0
4	0	0
5	5.6	5.6
6	0	0
7	1.3	1.3
8	0	0
9	1.1	1.1
10	0	0
11	1.5	1.5
12	0	0
13	3.3	3.3
14	0	0
15	0	0
CN7102		
1	0	0
2	0	0
3	0	0
4	0	0
5	0.7	0.7
CN7103		
1	10.9	10.9
2	4.4	4.8
3	4.5	4.5
4	0	0
5	4.9	4.9
6	0	0
7	0	0
8	0	0
9	4.3	4.3
10	0	0
11	0	0
12	4.9	4.9
13	11.4	11.4
14	0	0
CN7104		
1	0	0
2	0	0
3	0	0
4	0	0
5	0.2	0.2
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0

<DEMODULATOR>

MODE PIN NO.	REC	PLAY
IC6701	-	-
CN6701		
1	0	0
2	4.5	4.5
3	4.5	4.5
4	4.8	4.8
5	0.3	0.3
6	0.3	0.3
7	4.9	4.9
8	0	0
9	1.2	1.2
10	0	0

<S-SUB>

MODE PIN NO.	REC	PLAY
IC501	-	-
IC502		
1	2.0	2.0
2	0.3	4.5
3	3.3	3.3
4	3.4	3.4
5	4.9	4.9
6	2.2	2.2
7	2.0	2.0
8	4.9	4.9
9	1.4	1.4
10	2.9	2.9
11	2.9	2.9
12	2.9	2.9
13	0	0
14	2.8	2.8
15	2.8	2.8
16	1.9	1.9
17	1.9	1.9
18	1.9	1.9
CN511		
1	0.3	4.5
2	4.2	4.2
3	4.6	4.6
4	2.4	2.4
5	4.9	4.9
6	4.9	4.9
7	0	0
8	0	0
9	2.3	2.3
10	2.1	2.1
11	3.3	3.3
12	2.9	2.9
13	2.8	2.8
14	0	0
15	0	0
16	2.4	2.1
17	1.3	2.3
18	4.8	4.8
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	2.3	2.3
26	0	0
27	2.5	2.5
28	0	0
29	3.4	2.4
30	2.8	2.8
CN512		
1	0	0
2	2.4	2.4
3	0	0
4	2.4	2.4
5	0	0
6	2.3	2.3
7	0	0
8	1.3	1.3
9	0	0
10	1.1	1.1
11	0	0
12	0.7	0.7
13	0	0
14	0.1	0.1

<MDA>

MODE PIN NO.	REC	PLAY
IC5501		
1	0	0
2	1.0	1.0
3	5.0	5.0
4	1.0	1.0
5	0	0
6	4.5	4.5
7	1.0	1.0
8	0	0
9	0	0
10	0	0
11	0	0
12	6.6	6.6
13	0	0
14	0.6	0.6
15	0	0
16	0	0
17	0.5	0.5
18	5.0	5.0
19	0.5	0.5
20	4.6	4.6
21	4.6	4.6
22	4.6	4.6
23	2.6	2.6
24	2.6	2.6
25	2.6	2.6
26	2.6	2.6
27	2.6	2.6
28	2.6	2.6
29	1.6	1.6
30	2.6	2.6
31	-	-
32	2.6	2.6
33	5.1	5.1
34	0.2	0.2
35	0.5	0.5
36	0.5	0.5
37	1.2	1.2
38	1.5	1.5
39	5.1	5.1
40	0	0
41	0	0
42	3.1	3.1
43	0	0
44	3.1	3.1
45	0	0
46	0	0
47	0	0
48	0	0
49	0	0
50	0	0
51	0	0
52	0	0
53	1.6	1.6
54	1.5	1.7
55	0.5	0.5
56	3.0	3.0
57	2.2	2.2
58	0	0
59	0.7	0.7
60	0	0
61	2.6	2.6
62	2.8	2.8
63	2.3	2.3
64	2.6	2.6
65	2.5	2.5
66	2.5	2.5
67	2.5	2.5
68	1.5	1.5
69	0	0
70	1.1	1.1
71	1.1	1.1
72	1.0	1.0
73	1.1	1.1
74	2.6	2.6
75	2.6	2.6
76	2.6	2.6
77	0.8	0.8
78	4.7	4.7
79	4.7	4.7
80	4.7	4.7
IC5502	-	-
CN5501		
1	6.7	5.8
2	0	0
3	7.1	7.1
4	5.1	5.1
5	0	0
CN5502		
1	0	0
2	0	0
CN5503		
1	2.6	2.6
2	2.5	2.5
3	1.0	1.0
4	1.0	1.0
5	1.0	1.0
6	1.0	1.0
7	1.0	1.0
8	1.0	1.0
9	1.0	1.0
10	2.5	2.5
11	0	0
CN5504		
1	0.6	0.6
2	0.6	0.6
3	0.6	0.6
4	0.6	0.6
5	0.6	0.6
6	0.6	0.6
7	5.1	5.1
8	2.3	2.3
9	2.5	2.5
10	2.5	2.5
11	2.5	2.5
12	2.8	2.8
13	2.5	2.5
14	2.5	2.5
15	2.5	2.5
16	2.5	2.5
17	0	0
18	2.5	2.5
CN5505		
1	3.1	3.1
2	3.1	3.1
3	0	0
4	0	0
CN5506		
1	3.1	3.1
2	3.1	3.1
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	1.5	1.5
9	1.7	1.7
10	0	0
11	0	0
12	3.1	3.1
13	3.1	3.1
14	0	0
15	0	0
16	3.1	3.1
17	1.6	1.6
18	1.6	1.6
19	2.8	2.8
20	0	0
CN5507		
1	0	0
2	0	0
3	0	0
4	0	0

<PRE/REC>

MODE PIN NO.	REC	PLAY
IC5001	-	-
IC5002	-	-
CN5001	-	-
CN5002		
1	0	0
2	3.1	0
3	3.1	0
4	0	3.1
5	1.5	1.5
6	0	3.1
7	0	0
8	0.7	0.7
9	1.5	1.5
10	1.1	1.1
11	2.5	1.9
12	2.5	1.3
13	1.2	1.2
14	2.5	1.3
15	2.5	1.9
16	0	0
17	0.4	0.4
18	0.5	0
19	1.4	0
20	1.2	1.2
21	0	0
22	0	0
23	3.1	3.1
24	5.1	5.1
25	3.1	3.1
26	2.5	2.5

<ON SCREEN>

MODE PIN NO.	REC	PLAY
IC851		
1	0	0
2	2.5	2.5
3	4.8	4.8
4	0	0
5	4.4	4.4
6	2.4	2.4
7	2.5	2.5
8	4.9	4.9
9	0	3.2
10	4.3	4.3
11	4.4	3.8
12	4.9	4.9
13	2.9	2.9
14	2.9	2.9
15	0	0
16	1.2	1.2
17	0	0
18	4.9	4.9
19	1.6	1.6
20	0	0
21	1.6	1.5
22	0.4	0.2
23	4.9	4.9
24	2.9	2.9
25	2.5	2.5
26	4.9	4.9
27	4.5	4.5
28	0	3.5
29	4.9	4.9
30	4.9	4.9
IC852	-	-
CN851		
1	2.8	2.8
2	2.9	2.9
3	4.3	4.3
4	4.4	3.8
5	4.4	4.8
6	4.5	4.8
7	0	0
8	0	0
9	4.8	4.8
10	2.2	2.2
11	0	0
12	1.5	1.5
13	0	0
14	2.3	2.3
15	4.9	4.9
16	1.8	1.8
17	2.9	2.9
18	11.4	11.4
19	0	0
20	1.2	1.2

<DISPLAY>

MODE PIN NO.	REC	PLAY
IC7001		
1	4.8	4.8
2	2.2	2.2
3	0	0
4	2.2	2.2
5	4.8	4.8
6	4.8	4.8
7	4.8	4.8
8	4.9	4.9
9	4.8	4.8
10	4.9	4.9
11	4.8	4.8
12	4.2	4.2
13	4.4	3.8
14	4.8	4.8
15	4.3	4.3
16	-28.3	-28.3
17	-28.3	-28.3
18	4.6	4.6
19	-28.1	4.6
20	4.6	-28.0
21	-23.9	-23.9
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44	4.9	4.9
IC7002		
1	0	4.8
2	4.8	4.8
3	0	0
CN7001		
1	4.9	4.9
2	4.9	4.9
3	4.3	4.3
4	4.8	4.8
5	4.4	3.7
6	4.2	4.2
7	4.8	4.8
8	0	0
9	0	0
10	-19.3	-19.3
11	-15.8	-15.8
12	-28.4	-28.4
13	3.8	3.8
14	3.5	3.5
15	3.8	3.8
16	3.5	3.5
17	4.8	4.8
18	0	0
FW7003		
1	3.6	3.6
2	4.8	4.8
3	4.8	4.8
4	0	0
FW7005		
1	0	0
2	4.8	4.8

<JACK>

MODE PIN NO.	REC	PLAY
CN7002		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	5.0	5.0
12	5.0	5.0
13	0	0
14	0	0
15	4.9	4.9
16	4.9	4.9
FW7007		
1	4.9	4.9
2	4.8	4.8
3	0	0
4	0	0
5	4.7	4.7
6	4.7	4.7

<DV SYSCON>

MODE PIN NO.	REC	PLAY
IC1001		
1	0	0
2	3.1	3.1
3	0	0
4	3.0	3.0
5	1.6	1.6
6	3.1	3.1
7	3.1	3.1
8	0	0
9	2.7	2.7
10	1.2	1.2
11	1.5	1.5
12	0	0
13	1.5	1.5
14	2.7	2.7
15	1.2	1.2
16	3.1	3.1
17	1.4	1.4
18	0	0
19	0	0
20	1.1	1.1
21	1.1	1.1
22	1.2	1.2
23	0	0
24	0	0
25	3.1	3.1
26	1.6	1.6
27	0	0
28	0	0
29	3.1	3.1
30	-	-
31	-	-
32	0	0
33	0	0
34	0.2	0.2
35	3.1	3.1
36	0	0
37	0	0
38	2.5	2.5
39	0	0
40	0	0
41	0	0
42	3.1	3.1
43	0	0
44	3.1	3.1
45	0	0
46	0	0
47	0	0
48	3.1	3.1
49	3.1	3.1
50	3.1	3.1
51	1.4	1.4
52	0	0
53	0	0
54	3.1	3.1
55	0	0
56	2.6	2.6
57	3.1	3.1
58	3.0	3.0
59	0	0
60	3.1	3.1
61	3.1	3.1
62	2.7	2.7
63	2.7	2.7
64	0	0
65	0	0
66	3.1	3.1
67	3.1	3.1
68	3.1	3.1
69	0	0
70	0	0
71	0	0
72	3.1	3.1

MODE PIN NO.	REC	PLAY
73	0	0
74	0	0
75	0	0
76	0	0
77	0	0
78	0	0
79	0	0
80	0	0
81	3.1	3.1
82	0	0
83	0	0
84	0	0
85	0	0
86	3.1	3.1
87	3.1	3.1
88	0	0
89	3.1	3.1
90	0	0
91	0	0
92	0	0
93	0	0
94	3.1	3.1
95	3.1	3.1
96	3.1	3.1
97	0	0
98	3.1	3.1
99	0	0
100	3.1	3.1
101	3.1	3.1
102	3.1	3.1
103	3.1	3.1
104	3.1	3.1
105	0	0
106	0	0
107	0	0
108	3.1	3.1
109	3.1	3.1
110	3.1	3.1
111	0	0
112	3.1	3.1
113	3.1	3.1
114	3.1	3.1
115	3.1	3.1
116	0	0
117	0	0
118	0	0
119	3.0	3.0
120	0.2	0.2
121	3.1	3.1
122	0	0
123	3.1	3.1
124	3.1	3.1
125	0.2	0.2
126	3.1	3.1
127	0	0
128	0.2	0.2
IC1002		
1	0	0
2	0.5	0.5
3	3.1	3.1
4	0	0
5	0	0
6	2.6	2.6
7	3.1	3.1
8	3.1	3.1
IC1005		
1	3.1	3.1
2	3.1	3.1
3	0	0
4	0	0
IC1006		
1	0	0
2	3.1	3.1
3	2.6	2.6
4	0	0
5	3.1	3.1
6	0.5	0.5
7	0.4	0.4
8	3.1	3.1
IC1007		
1	3.1	3.1
2	2.6	2.6
3	3.1	3.1
4	0	0
5	3.1	3.1
6	3.1	3.1
7	3.1	3.1
8	3.1	3.1
IC1008		
1	3.1	3.1
2	3.1	3.1
3	3.1	3.1
4	0	0
5	3.1	3.1
6	3.1	3.1
7	3.1	3.1
8	3.1	3.1
IC1009		
1	3.1	3.1
2	0	0
3	0	0

MODE PIN NO.	REC	PLAY
4	1.8	1.8
5	3.1	3.1
IC1010		
1	3.1	3.1
2	0	0
3	0	0
4	1.8	1.8
5	3.1	3.1
CN1001		
1	-7.2	-7.2
2	5.1	5.1
3	0	0
4	3.2	3.2
5	3.2	3.2
6	0	0
7	3.2	3.2
8	3.2	3.2
9	0	0
10	0	0
CN1002		
1	0	0
2	3.0	3.0
3	3.0	3.0
4	0	0
5	2.8	2.8
6	3.8	3.8
CN1101		
1	0	0
2	5.1	5.1
3	3.1	3.1
4	0	0
5	3.1	3.1
6	3.1	3.1
7	3.1	3.1
8	0	0
9	1.3	1.3
10	0	0
11	1.5	1.5
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	3.0	3.0
18	3.1	3.1
19	3.4	3.4
20	2.7	2.7
21	0	0
22	0	0
23	2.5	1.9
24	1.6	1.6
25	0	0
26	0	0

<DV MSD>

MODE PIN NO.	REC	PLAY
IC1501		
1	0	0
2	3.1	3.1
3	3.1	3.1
4	0	0
5	0	0
6	0.2	0.2
7	3.1	3.1
8	0	0
9	0.2	0.2
10	0	0
11	0	0
12	0	0
13	0	0
14	3.1	3.1
15	0	0
16	3.1	3.1
17	2.9	2.9
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	3.1	3.1
30	3.1	3.1
31	0.2	0.2
32	0.2	0.2
33	0.4	0.4
34	0.6	0.6
35	0.6	0.6
36	0.6	0.6
37	0.6	0.6
38	0.6	0.6
39	0	0
40	0.2	0.2
41	0.2	0.2
42	0.3	0.3
43	0.2	0.2

MODE PIN NO.	REC	PLAY
44	0.2	0.2
45	0.3	0.3
46	0.2	0.2
47	0.5	0.5
48	3.1	3.1
49	0.4	0.4
50	2.9	2.9
51	0	0
52	3.0	3.0
53	3.1	3.1
54	0	0
55	0	0
56	3.1	3.1
57	-	-
58	0	0
59	0	0
60	3.1	3.1
61	3.1	3.1
62	1.5	1.5
63	1.1	1.1
64	3.1	3.1
65	0	0
66	3.1	3.1
67	2.7	2.7
68	0	0
69	0	0
70	3.1	3.1
71	0	0
72	3.1	3.1
73	3.1	3.1
74	0	0
75	0	0
76	0	0
77	0	3.1
78	3.1	0
79	0	3.1
80	3.1	3.1
81	0	0
82	3.1	3.1
83	3.1	3.1
84	3.1	3.1
85	0	0
86	0	0
87	0	0
88	0	0
89	0	0
90	0	0
91	0	0
92	0	0
93	0	0
94	0	0
95	0	0
96	0	0
97	3.1	3.1
98	3.1	3.1
99	3.1	3.1
100	0	0
101	3.1	3.1
102	3.1	3.1
103	3.1	3.1
104	3.1	3.1
105	3.1	3.1
106	3.1	3.1
107	0	0
108	0	0
109	0	0
110	0	0
111	0	0
112	0	0
113	2.7	2.7
114	1.5	1.5
115	1.6	1.6
116	3.1	3.1
117	0	0
118	0	0
119	0	0
120	0.2	0.2
121	0.3	0.3
122	3.1	3.1
123	3.1	3.1
124	3.1	3.1
125	0	0
126	0	0
127	3.1	3.1
128	0	0
129	0	0
130	3.1	3.1
131	0	0
132	0	0
133	0	0
134	0	0
135	3.1	3.1
136	1.6	1.6
137	0	0
138	0	0
139	1.9	1.9
140	1.5	1.5
141	0	0
142	1.5	1.5
143	0	0
144	0	0

MODE PIN NO.	REC	PLAY
145	0	0
146	1.6	1.6
147	1.7	1.7
148	0.3	0.3
149	1.5	1.5
150	1.6	1.6
151	3.1	3.1
152	-	-
153	-	-
154	1.6	1.6
155	1.6	1.6
156	1.6	1.6
157	0	0
158	1.5	1.5
159	0.2	0.2
160	0	0
161	0.2	0.2
162	0	0
163	0	0
164	0	0
165	0	0
166	3.1	3.1
167	0	0
168	0	0
169	0.2	0.2
170	3.1	0
171	0	0
172	0	0
173	3.1	3.1
174	3.1	3.1
175	3.0	0.3
176	0.2	0.2
177	0	0
178	3.1	3.1
179	3.1	3.1
180	3.1	3.1
181	3.1	3.1
182	0	0
183	2.7	2.7
184	5.1	5.1
185	0	0
186	0	0
187	0.2	0.2
188	3.1	0
189	0.2	0.2
190	3.1	3.1
191	3.1	3.1
192	3.1	3.1
193	0	0
194	3.1	3.1
195	2.3	2.3
196	3.1	3.1
197	1.4	1.4
198	0	0
199	3.1	3.1
200	0	0
201	2.8	2.8
202	2.8	2.8
203	0	0
204	3.1	3.1
205	3.1	3.1
206	3.1	3.1
207	3.1	3.1
208	0	0.3
IC1502		
1	-	-
2	3.1	3.1
3	-	-
4	0	0
5	-	-
6	0.1	0.1
7	-	-
8	3.1	3.1
IC1601		
1	3.1	3.1
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	3.1	3.1
8	3.1	3.1
CN1501		
1	3.1	3.1
2	3.1	3.1
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	1.5	1.5
9	1.7	1.7
10	0	0
11	0	0
12	3.1	3.1
13	3.1	3.1
14	0	0
15	0	0
16	3.1	3.1
17	1.6	1.6
18	1.6	1.6

MODE PIN NO.	REC	PLAY
19	2.8	2.8
20	0	0
CN1502		
1	0	0
2	3.1	3.1
3	0	0
4	1.2	1.2
5	-	-
6	3.1	3.1
7	1.2	1.2
8	-	-
9	3.1	3.1
10	3.1	3.1
11	0	0
12	0	0
13	3.1	3.1
14	0	0
15	0	0

<DV MAIN>

MODE PIN NO.	REC	PLAY
IC2001	-	-
IC2002		
1	0	0.4
2	0	0.4
3	0	0
4	1.4	1.4
5	0.1	0
6	3.1	0
7	0	0
8	2.9	2.9
IC2003		
1	3.1	3.1
2	0	0
3	1.2	1.2
4	2.5	2.5
5	3.1	3.1
IC2004		
1	5.1	5.1
2	0	0
3	1.2	1.2
4	2.9	2.9
5	5.1	5.1
IC2007		
1	3.1	3.1
2	0.9	0.9
3	0	0
4	0	0
5	0	0
6	1.4	1.4
7	2.4	2.4
8	3.1	3.1
CN2001		
1	0	0
2	3.1	0
3	3.1	0
4	0	3.1
5	1.5	1.5
6	0	3.1
7	0	0
8	0.7	0.7
9	1.5	1.5
10	1.1	1.1
11	2.5	1.9
12	2.5	1.3
13	1.2	1.2
14	2.5	1.3
15	2.5	1.9
16	0	0
17	0.4	0.4
18	0.5	0
19	1.4	0
20	1.2	1.2
21	0	0
22	0	0
23	3.1	3.1
24	5.1	5.1
25	3.1	3.1
26	2.5	2.5

<DV I/O>

MODE PIN NO.	REC	PLAY
IC3001		
1	0	0
2	3.0	3.0
3	1.1	1.1
4	0.5	0.5
5	0.8	0.8
6	1.6	1.6
7	0.5	0.5
8	1.0	1.0
9	0	0
10	2.9	2.9
11	1.7	1.1
12	1.1	0.5
13	0	0
14	3.0	3.0
15	1.4	1.4
16	0.4	0.4

MODE PIN NO.	REC	PLAY
17	2.4	2.4
18	1.3	1.3
19	0	0
20	0	0
21	0	0
22	0	0
23	1.8	1.8
24	3.1	3.1
25	1.6	1.6
26	1.0	0
27	1.0	0
28	0.9	0
29	1.5	1.3
30	0	0
31	3.1	3.1
32	1.7	1.3
33	1.0	0
34	0.7	0
35	0.5	0
36	3.1	3.1
37	1.5	1.5
38	1.0	1.0
39	1.0	1.0
40	0.9	0.9
41	1.5	1.5
42	1.7	1.7
43	1.1	1.1
44	0.8	0.8
45	0.6	0.6
46	0	0
47	0	0
48	0	0
49	3.1	3.1
50	3.1	3.1
51	2.7	2.7
52	0	0
53	1.8	1.8
54	1.6	1.6
55	3.1	3.1
56	3.1	3.1
57	0	0
58	0	0
59	2.9	2.9
60	3.1	3.1
61	1.5	1.5
62	0	0
63	3.1	3.1
64	0	0
65	0	0
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	3.0	3.0
74	1.1	1.1
75	3.0	3.0
76	0.8	0.8
77	1.7	1.7
78	3.0	3.0
79	1.1	1.1
80	0.9	0.9
IC3101		
1	0	0
2	-	-
3	0	0
4	1.4	1.4
5	3.1	3.1
IC3102		
1	0	0
2	1.4	1.4
3	0	0
4	1.6	1.6
5	3.1	3.1
IC3151		
1	0	0
2	2.3	2.3
3	1.4	1.4
4	0.7	0.7
5	1.5	1.5
6	1.7	1.7
7	2.0	2.0
8	3.0	2.1
9	0	0
10	3.0	3.0
11	3.0	3.0
12	0	0
13	0	0
14	1.6	1.6
15	0	0
16	3.1	3.1
17	3.1	3.1
18	1.2	1.2
19	1.2	1.2
20	0	0

<DV V OUT>

MODE PIN NO.	REC	PLAY
IC3501		
1	1.7	1.7
2	1.8	1.8
3	1.3	1.3
4	1.1	1.1
5	0	0
6	0	0
7	0	0
8	0	0
9	2.6	2.6
10	2.4	2.4
11	1.6	1.6
12	1.9	1.9
13	0	0
14	2.0	2.0
15	5.1	5.1
16	3.0	3.0
17	0	0
18	2.0	2.0
19	1.8	1.8
20	1.8	1.8
IC3502		
1	5.1	5.1
2	0	0
3	1.2	1.2
4	3.0	3.0
5	5.1	5.1
CN3501		
1	0	0
2	0	0
3	0	0
4	1.7	1.7
5	0	0
6	4.1	4.1

<AUDIO AD/DA>

MODE PIN NO.	REC	PLAY
IC3701		
1	3.1	3.1
2	3.1	3.1
3	1.6	1.6
4	2.9	2.9
5	0.6	0.6
6	1.6	1.6
7	3.1	3.1
8	3.1	3.1
9	1.5	1.5
10	1.5	1.5
11	1.5	1.5
12	1.5	1.5
13	0	0
14	3.1	3.1
15	1.4	1.4
16	3.1	3.1
17	0	0
18	3.1	3.1
19	1.6	1.6
20	1.6	1.6
21	1.6	1.6
22	0	0
23	3.1	3.1
24	3.1	3.1
IC3702		
1	0	0
2	0	0
3	0	0
4	-6.0	-6.0
5	0	0
6	0	0
7	0	0
8	5.1	5.1
IC3703		
1	0	0
2	0	0
3	0	0
4	-6.0	-6.0
5	0	0
6	0	0
7	0	0
8	5.1	5.1
CN3701		
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0

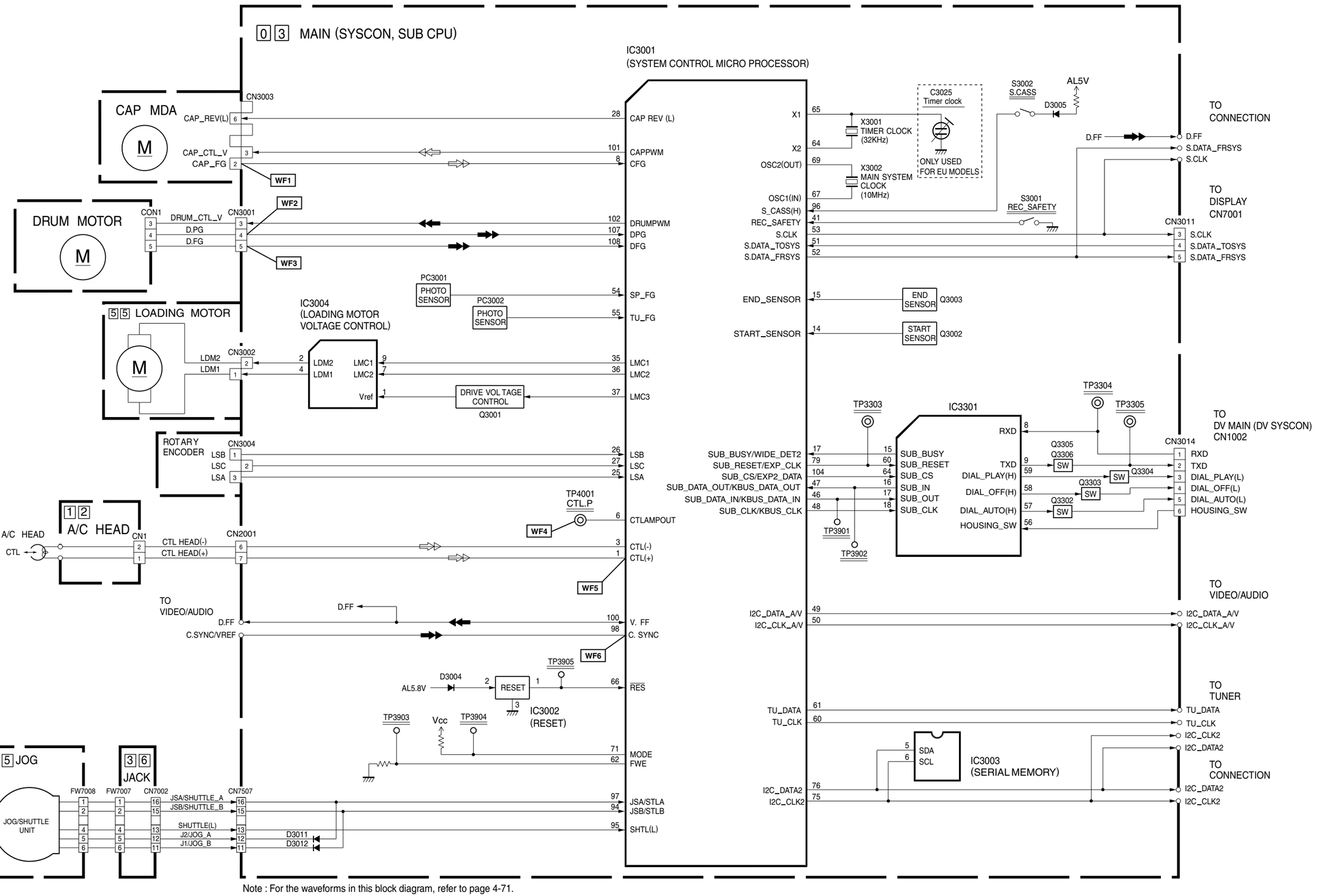
4.36 CPU PIN FUNCTION

<SYSCON IC3001>

PIN NO.	LABEL	IN/OUT	FUNCTION
1	CTL(+)	IN/OUT	CTL(+) SIGNAL
2	SVSS	-	GND
3	CTL(-)	IN/OUT	CTL(-) SIGNAL
4	CTLBIAS	-	CTL BIAS VOLTAGE
5	CTLFB	IN	CTL PULSE FEEDBACK
6	CTLAMPOUT	OUT	CTL PULSE OUTPUT
7	CTLSMTIN	IN	CTL PULSE INPUT
8	CFG	IN	CAPSTAN FG PULSE INPUT
9	SVCC	-	SYSTEM POWER
10	AVCC	-	SYSTEM POWER FOR ANALOG CIRCUIT
11	NORM/MESEC/S	IN	SVHS MODE:H
12	SECAM_DET(H)/KILLER_DET/BIT_IN(H)	IN	NC/COLOR KILLER DETECT/NC
13	PAUSE	IN	PAUSE CONTROL
14	START_SENSOR	IN	START SENSOR
15	END_SENSOR	IN	END SENSOR
16	TU_SYNC	-	NC
17	SUB_BUSY/WIDE_DET2	IN	SERIAL TRANSMISSION SIGNAL FOR SUB CPU/NC
18	RF_AGC_LED	IN	CHANGES IN ATS+IC OUTPUT AS CAUSED BY CHANGES IN RECEIVER SENSITIVITY WHEN THE SAME CHANNEL IS RECEIVED MORE THAN ONCE ARE INPUT./NC
19	SCR_ID(H)/WIDE_DET	IN	SCRAMBLECONTROL INPUT (SCRAMBLE:H)/NC
20	BS_ANT/AFC	IN	NC/TUNING CLOCK
21	VIDEO_ENV	IN	AUTO TRACKING DETECT/INPUT THE AVERAGE OF PLAYBACK VIDEO SIGNAL
22	A.ENV/ND(L)	IN	AUDIO PB FM ENV.INPUT/NON HiFi MODE:L
23	AVSS	-	GND FOR ANALOG CIRCUIT
24	CTL_GAIN	OUT	CONTROL AMP OUT FREQUENCY RESPONSE SWITCHING
25	LSA	IN	MECHANISM MODE DETECT(A)
26	LSB	IN	MECHANISM MODE DETECT(B)
27	LSC	IN	MECHANISM MODE DETECT(C)
28	CAP_REV(L)	OUT	CAPSTAN MOTOR REVERSE CONTROL (FWD:H/REV:L)
29	RC	IN	REMOTE CONTROL DATA INPUT
30	LOCK(L)	IN	TUNING PLL LOCK DETECT:L
31	P50_IN	IN	CONTROL SIGNAL FOR TV LINK
32	ET_PB(H)/AGC_CTL	IN	NC
33	FRONT(H)/EXP1_DATA	OUT	FRONT INPUT:H/NC
34	P50_OUT/M_PULSE	OUT	CONTROL SIGNAL FOR TV LINK/NC
35	LMC1	OUT	LOADING MOTOR DRIVE(1)
36	LMC2	OUT	LOADING MOTOR DRIVE(2)
37	LMC3	OUT	LOADING MOTOR DRIVE(3)
38	SB_G(PWM)	OUT	VOLTAGE CONTROL SIGNAL FOR VIDEO FREQUENCY RESPONSE
39	STB/TEST	OUT	STROBE SIGNAL (FOR FDP DRIVER)
40	POWER_DET	IN	DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY
41	REC_SAFETY	IN	REC SAFETY SWITCH DETECT (SW ON:L)
42	PROTECT	IN	DETECTION SIGNAL FOR SW POWER SUPPLY
43	VSS	-	GND
44	RMO/ANT_CTL(H)	OUT	REMOTE CONTROL OUTPUT FOR SATELLITE RECEIVER/NC
45	VCC	-	SYSTEM POWER
46	SUB_DATA_IN/KBUS_DATA_IN	IN/OUT	SERIAL DATA TRANSFER INPUT FOR SUB CPU/NC
47	SUB_DATA_OUT/KBUS_DATA_OUT	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR SUB CPU/NC
48	SUB_CLK/KBUS_CLK	OUT	SERIAL DATA TRANSFER CLOCK FOR SUB CPU/NC
49	I2C_DATA_A/V	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR THE VIDEO/AUDIO IC
50	I2C_CLK_A/V	OUT	SERIAL DATA TRANSFER CLOCK FOR THE VIDEO/AUDIO IC
51	S.DATA_TOSYS	IN	SERIAL DATA TRANSFER OUTPUT FROM THE ON-SCREEN IC TO THE FDP DRIVER
52	S.DATA_FRSYS	OUT	SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO THE ON-SCREEN IC
53	S.CLK	OUT	SERIAL DATA TRANSMISSION CLOCK FROM THE FDP DRIVER TO THE ON-SCREEN IC
54	SP_FG	IN	DETECTION SIGNAL FOR SUPPLY REEL ROTATION/TAPE REMAIN
55	TU_FG	IN	DETECTION SIGNAL FOR TAKE-UP REEL ROTATION/TAPE REMAIN
56	JUST/EDS(H)/SECAM	-	NC

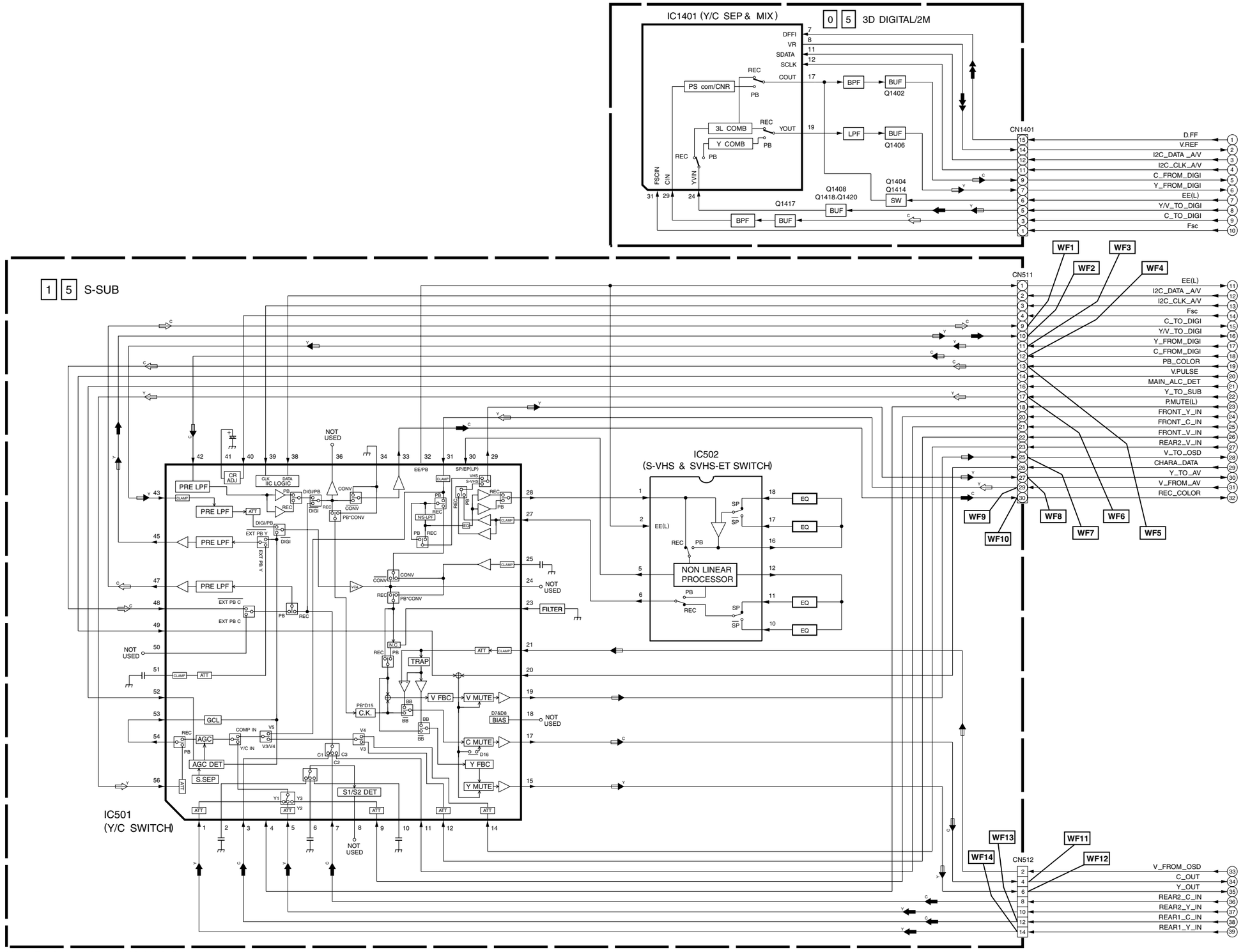
PIN NO.	LABEL	IN/OUT	FUNCTION
57	TU_CE	OUT	CHIP ENABLE OF THE TUNER UNIT
58	N.REC_ST(H)	OUT	NORMAL AUDIO SOUND RECORDING START
59	SP_CONV/BS/KBUS_REQ	IN	AUDIO INPUT SWITCHING FOR DV
60	TU_CLK	OUT	CLOCK FOR DATA TRANSFER TO THE TUNER UNIT
61	TU_DATA	OUT	TUNING DATA
62	FWE	-	NC
63	NMI(L)	-	NC
64	X2	-	TIMER CLOCK (32.768KHz)
65	X1	-	TIMER CLOCK (32.768KHz)
66	RES(L)	-	RESET TERMINAL (RESET ON:L)
67	OSC1(IN)	-	MAIN SYSTEM CLOCK(10MHz)
68	VSS	-	GND
69	OSC2(OUT)	-	MAIN SYSTEM CLOCK(10MHz)
70	VCC	-	SYSTEM POWER
71	MODE	-	NC
72	TU_A_MUTE(H)	OUT	TUNER AUDIO MUTE CONTROL (MUTE:H)
73	TU_V_MUTE(H)	OUT	TUNER VIDEO CONTROL (MUTE:H)
74	A.MUTE(H)	OUT	AUDIO MUTE CONTROL (MUTE:H)
75	I2C_CLK2	OUT	SERIAL DATA TRANSFER CLOCK FOR MEMORY IC
76	I2C_DATA2	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC
77	DV_A.MUTE/FF/REW(L)	OUT	DV AUDIO MUTE CONTROL (MUTE:H)/NC/NC
78	DV_P.MUTE(H)	OUT	DV PICTURE MUTE CONTROL (MUTE:H)
79	SUB_RESET/EXP_CLK	OUT	SUB CPU RESET/NC
80	V.P.CTL	OUT	V.PULSE CONTROL, V COMPENSATION DURING SPECIAL PLAYBACK
81	EDS_CS/PAL.PB(H)	OUT	NC/PLAYBACK MODE FOR PAL:H
82	VCC	-	SYSTEM POWER
83	SLOW_P/CNR_CTL	OUT	MEMORY TIMING CONTROL IN THE SLOW MODE / NC
84	VSS	-	GND
85	SP_SHORT(H)	OUT	MODE SELECT
86	LP_SHORT(H)	OUT	MODE SELECT
87	FLY_ON(H)/VHS(H)	OUT	FLYING ERASE ON:H/NC
88	H.REC_ST(H)	OUT	HIFI AUDIO SOUND RECORDING START
89	TRICK(H)/M_TRICK(L)	OUT	SPECIAL PLAYBACK: H/REC AFC FILTER, PB APC FILTER, BURST ACC FILTER, COLOR KILLER DET FILTER
90	B.BACK(H)/P.SAVE(L)	OUT	BLUE BACK MODE:H/NC
91	OSD_CS	OUT	CHIP SELECT FOR THE ON-SCREEN IC
92	SYNC_DET(H)	IN	DETECTION OF VIDEO SYNC SIGNAL (DETECTED:H)
93	BS_P.CTL(H)/MESECAM(H)	OUT	NC/MESECAM:H
94	JSB/STLB/S1_DC	IN	INPUT FOR THE JOG SHUTTLE/NC
95	SHTL(L)/JOGA	IN	INPUT FOR THE JOG SHUTTLE
96	S_CASS(H)	IN	DETECTION SIGNAL FOR S VHS CASSETTE(S VHS:H)
97	JSA/STLA	IN	INPUT FOR THE JOG SHUTTLE
98	C.SYNC	IN	COMPOSITE SYNC
99	A.FF	OUT	AUDIO FF OUTPUT
100	V.FF	OUT	ROTATION DETECTION SIGNAL FOR DRUM MOTOR/TIMING CONTROL SIGNAL FOR REC
101	CAPPWM	OUT	CAPSTAN MOTOR CONTROL
102	DRUMPWM	OUT	DRUM MOTOR CONTROL
103	SUB_OSD_ON/V_UP(H)	OUT	OSD IC CONTROL FOR MULTI DUBBING DISPLAY MODE:H/NC
104	SUB_CS/EXP2_DATA	OUT	TRANSMISSION START SIGNAL TO SUB CPU/NC
105	SP(H)	-	NC
106	P.MUTE(L)	OUT	PICTURE CONTROL (MUTE:L)
107	DPG	IN	DRUM PICKUP PULSE INPUT (SWITCHING PULSE)
108	DFG	IN	DRUM FG PULSE INPUT
109	VCC	-	SYSTEM POWER
110	V.PULSE	OUT	V.PULSE ADDITION TIMING CONTROL
111	VSS	-	GND
112	CTLREF	-	CTL REFERENCE VOLTAGE

4.37 SYSTEM CONTROL BLOCK DIAGRAM (VHS)

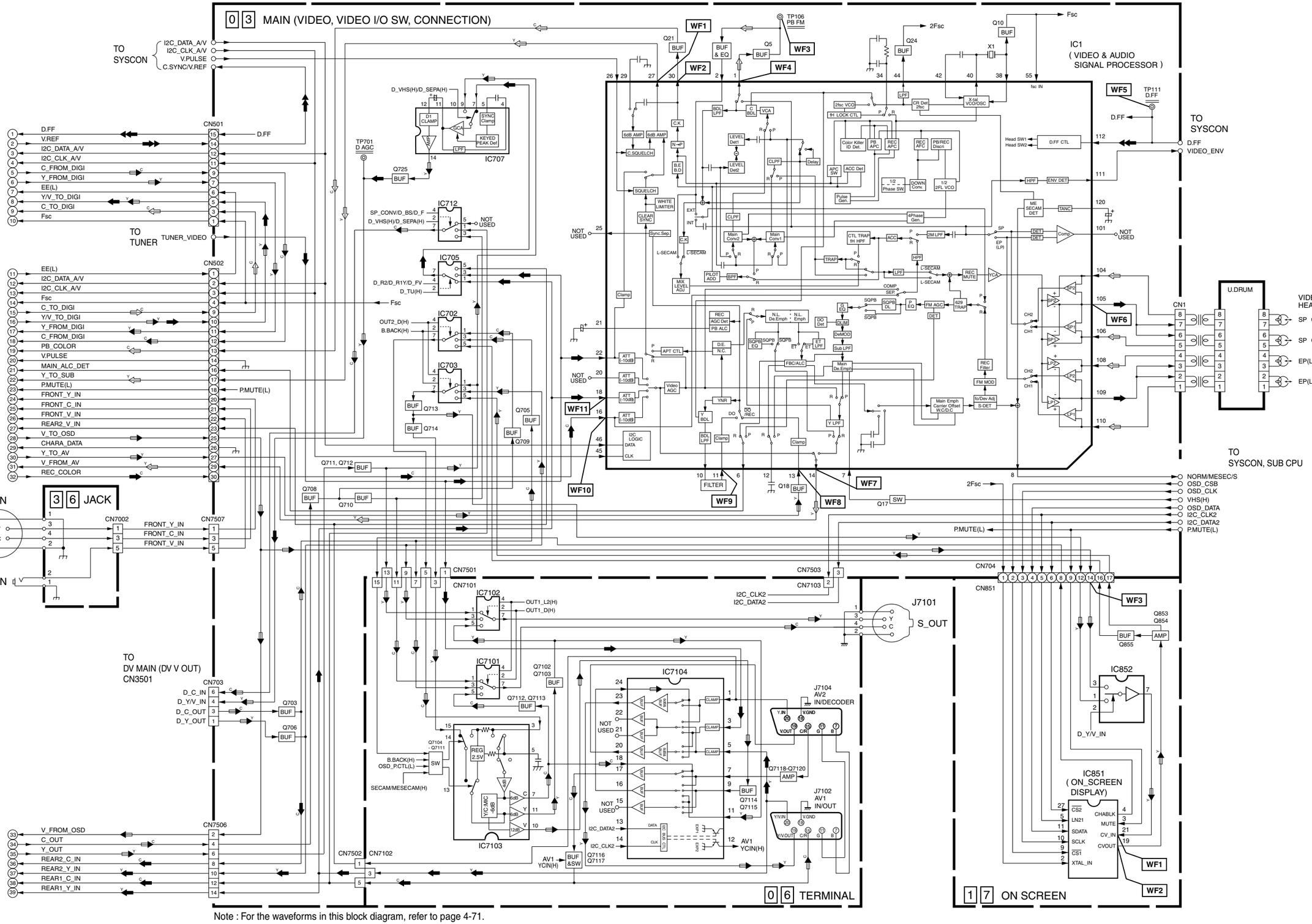


Note : For the waveforms in this block diagram, refer to page 4-71.

4.38 VIDEO BLOCK DIAGRAM (VHS)

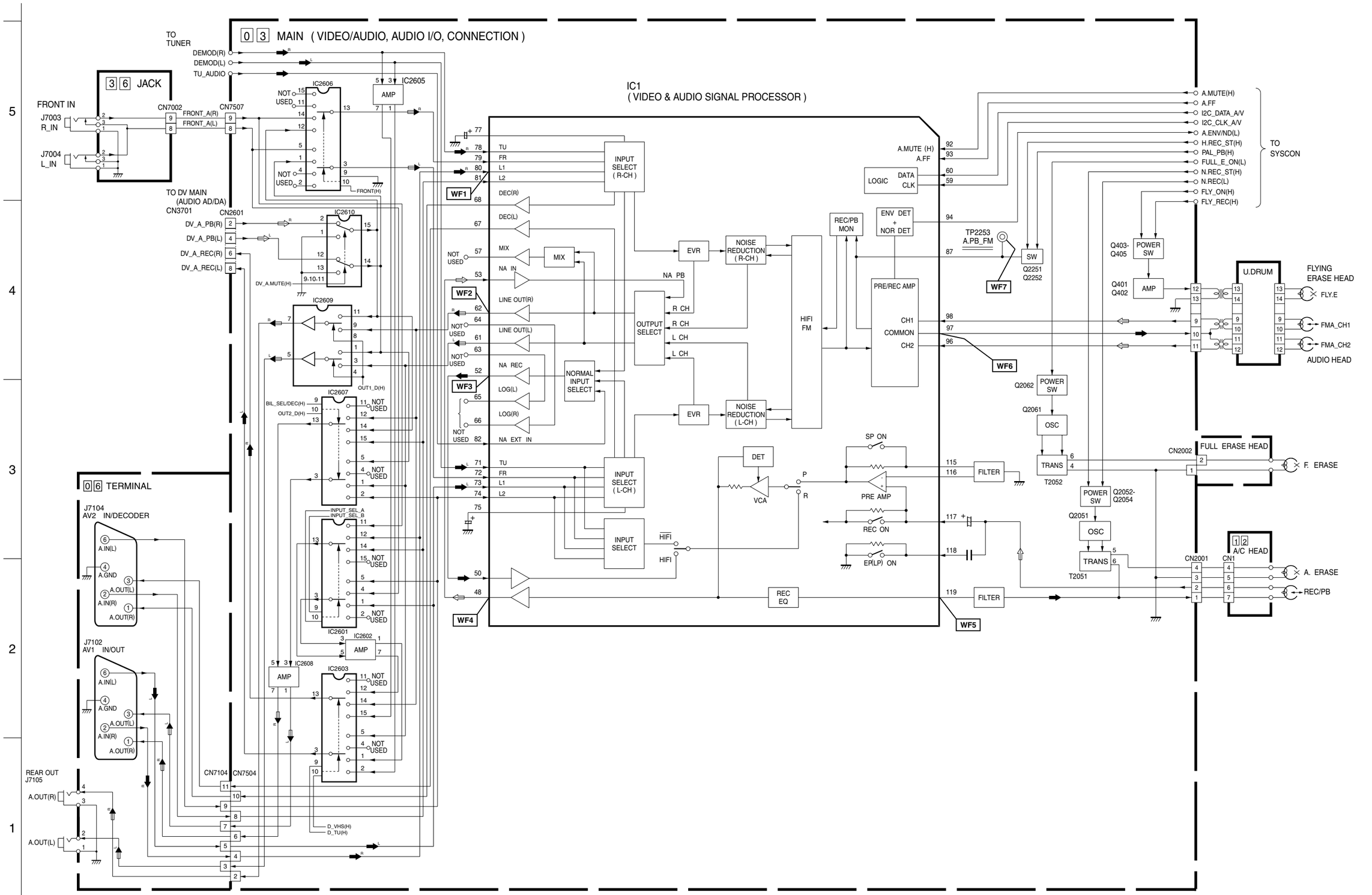


Note : For the waveforms in this block diagram, refer to page 4-71.



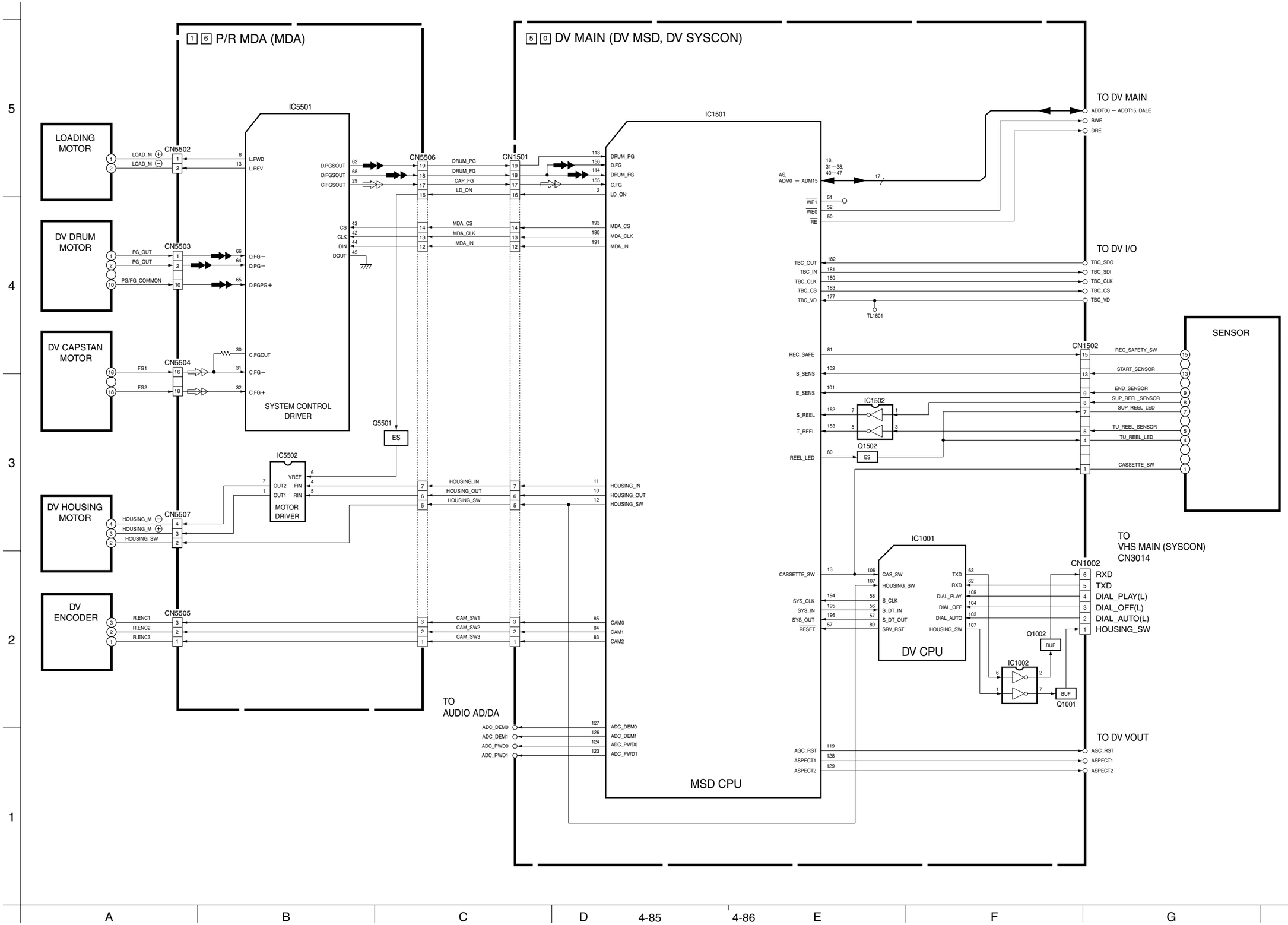
Note : For the waveforms in this block diagram, refer to page 4-71.

4.39 AUDIO BLOCK DIAGRAM (VHS)



Note : For the waveforms in this block diagram, refer to page 4-71.

4.40 SYSTEM CONTROL BLOCK DIAGRAM (DV)



4.41 VIDEO BLOCK DIAGRAM(DV)