


# SECTION 4 CHARTS AND DIAGRAMS

## NOTES OF SCHEMATIC DIAGRAM

### Safety precautions

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

### 1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).

Chip resistors are 1/16 W.

K: K $\Omega$  (1000 $\Omega$ ), M: M $\Omega$  (1000K $\Omega$ )

2) All capacitance values are in  $\mu$ F, (P: PF).

3) All inductance values are in  $\mu$ H, (m: mH).

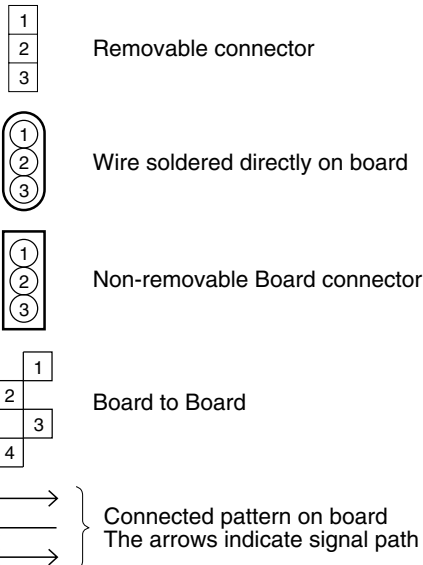
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

### 2. Indications of control voltage

AUX : Active at high

AUX or AUX(L) : Active at low

### 3. Interpreting Connector indications



### 4. Voltage measurement

1) Video circuits

REC : Colour bar signal in SP mode, normal VHS mode

PB : Alignment tape, colour bar SP mode, normal VHS mode

— : Unmeasurable or unnecessary to measure

2) Audio circuits

REC : 1KHz, -8 dBs sine wave signal in SP mode, Normal VHS mode

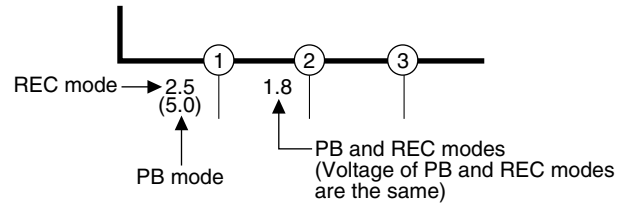
PB : REC then playback it

3) Movie Camera circuits

Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

4) Indication on schematic diagram

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



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

### 5. Waveform measurement

1) Video circuits

REC : Colour bar signal in SP mode, normal VHS mode

PB : Alignment tape, colour bar SP mode, normal VHS mode

2) Audio circuits

REC : 1KHz, -8 dBs sine wave signal in SP mode, normal VHS mode

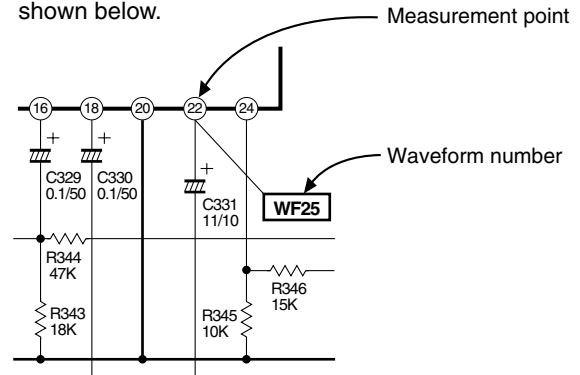
PB : REC then playback it

3) Movie Camera circuits

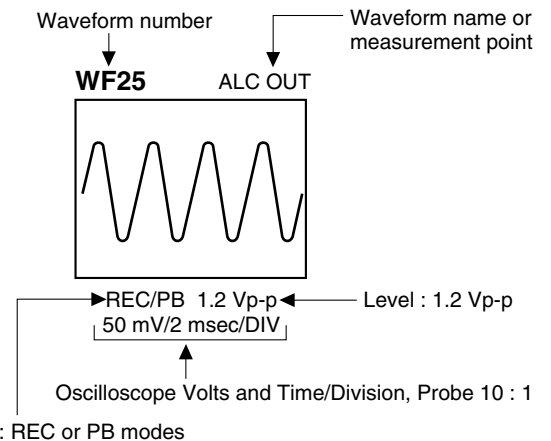
Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

4) Indication on schematic diagram

Waveform indications on the schematic diagram are as shown below.

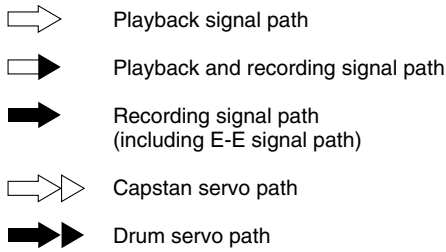


5) Waveform indications

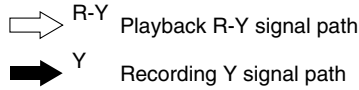


## 6. Signal path Symbols

The arrows indicate the signal path as follows.

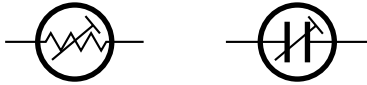


(Example)



## 7. Indication of the parts for adjustments

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



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

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



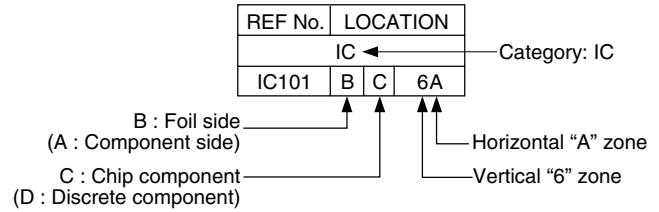
## CIRCUIT BOARD NOTES

### 1. Foil and Component sides

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

### 2. Parts location guides

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



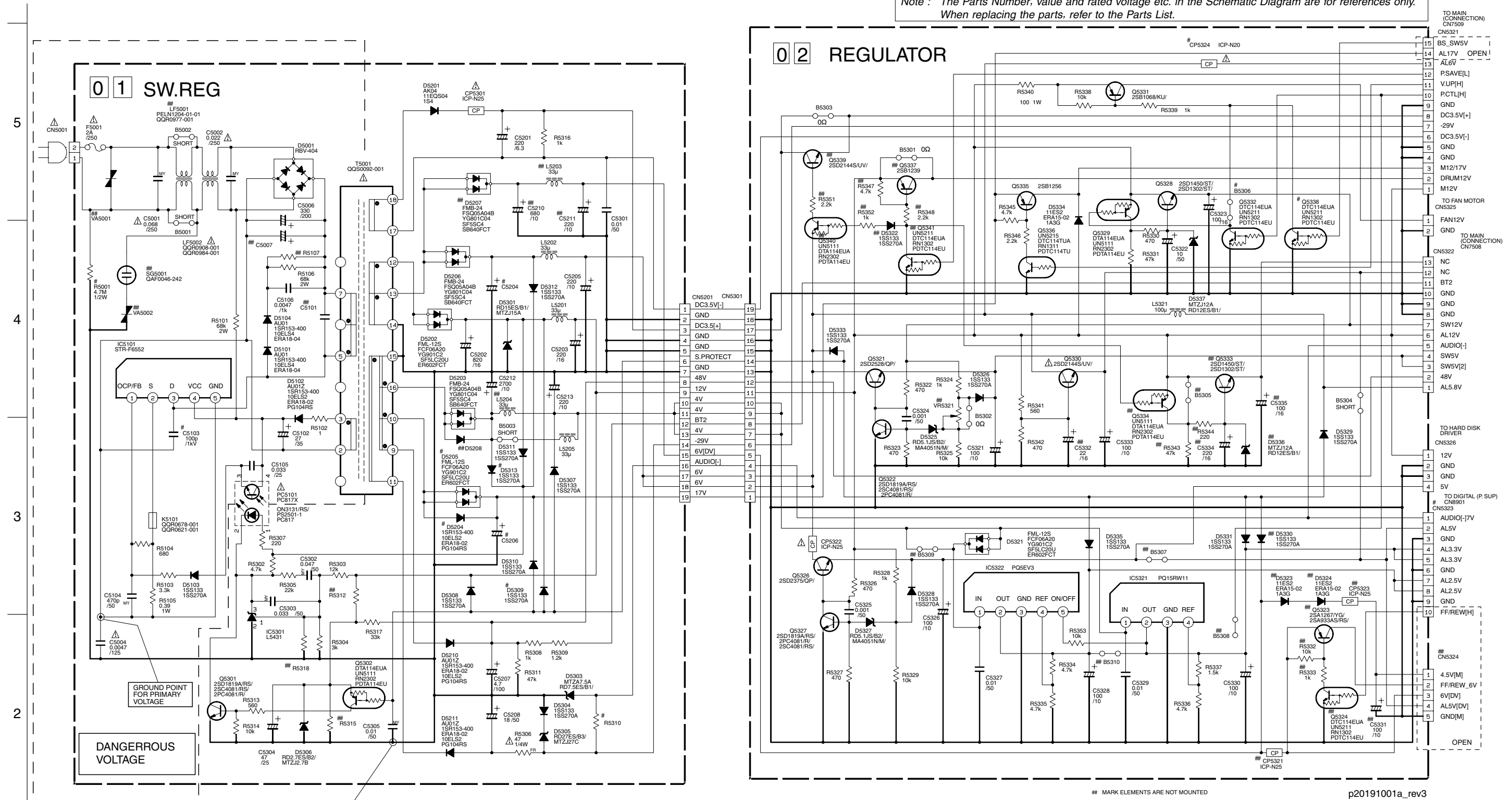
### Note:

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



## 4.2 SWITCHING REGULATOR AND REGULATOR 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.



# DIFFERENCE TABLE

	D5204	D5205	D5309	R5001	R5310	C5103	C5204	C5206	Q5338	CP5324	B5306	CN5321	D5313
DOM	NO	YES	YES	NO	680/2W	100p/1KV	2700/10V	330/25V	YES	YES	NO	1-15	NO
US	YES	NO	NO	YES	820/2W	470p/1KV	2200/10V	180/25V	NO	NO	YES	1-13	YES

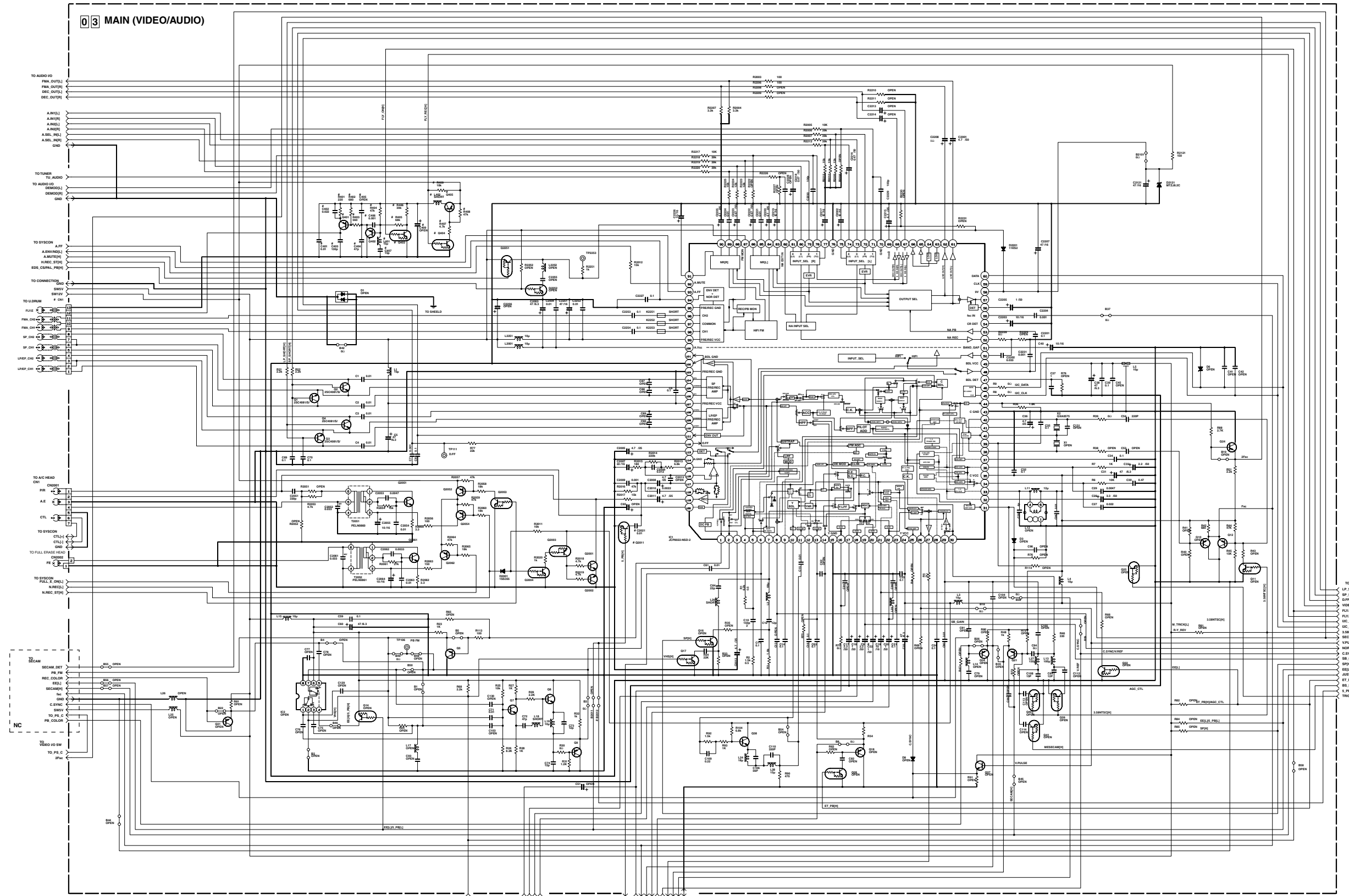
NOTES: UNLESS OTHERWISE SPECIFIED.  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN μH.  
 ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC  
 CERAMIC  
 MYLER  
 NON POLAR

p20191001a\_rev3

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.



p10325001a\_rev0

# DIFFERENCE TABLE

SYMBOL	Q101-Q105 L401-L402 R401-R409 C401-C407,C409	CN1
W/FE HEAD	○	1-13
W/O FE HEAD	×	1-11

SYMBOL	C2011 C2021 B2012
W/XS, PB	○
W/O XS, PB	×

SYMBOL	C82
W/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 pF.  
 ALL NPN TYPE TRANSISTORS ARE 2SC4881/90R5/  
 ALL PNP TYPE TRANSISTORS ARE 2SA1576A/60R.  
 ALL NPN TYPE DIGITAL TRANSISTORS ARE DT0144W0A.  
 ALL PNP TYPE DIGITAL TRANSISTORS ARE DT0144W0A

ELECTROLYTIC  
 CERAMIC  
 MYLAR  
 NON POLAR

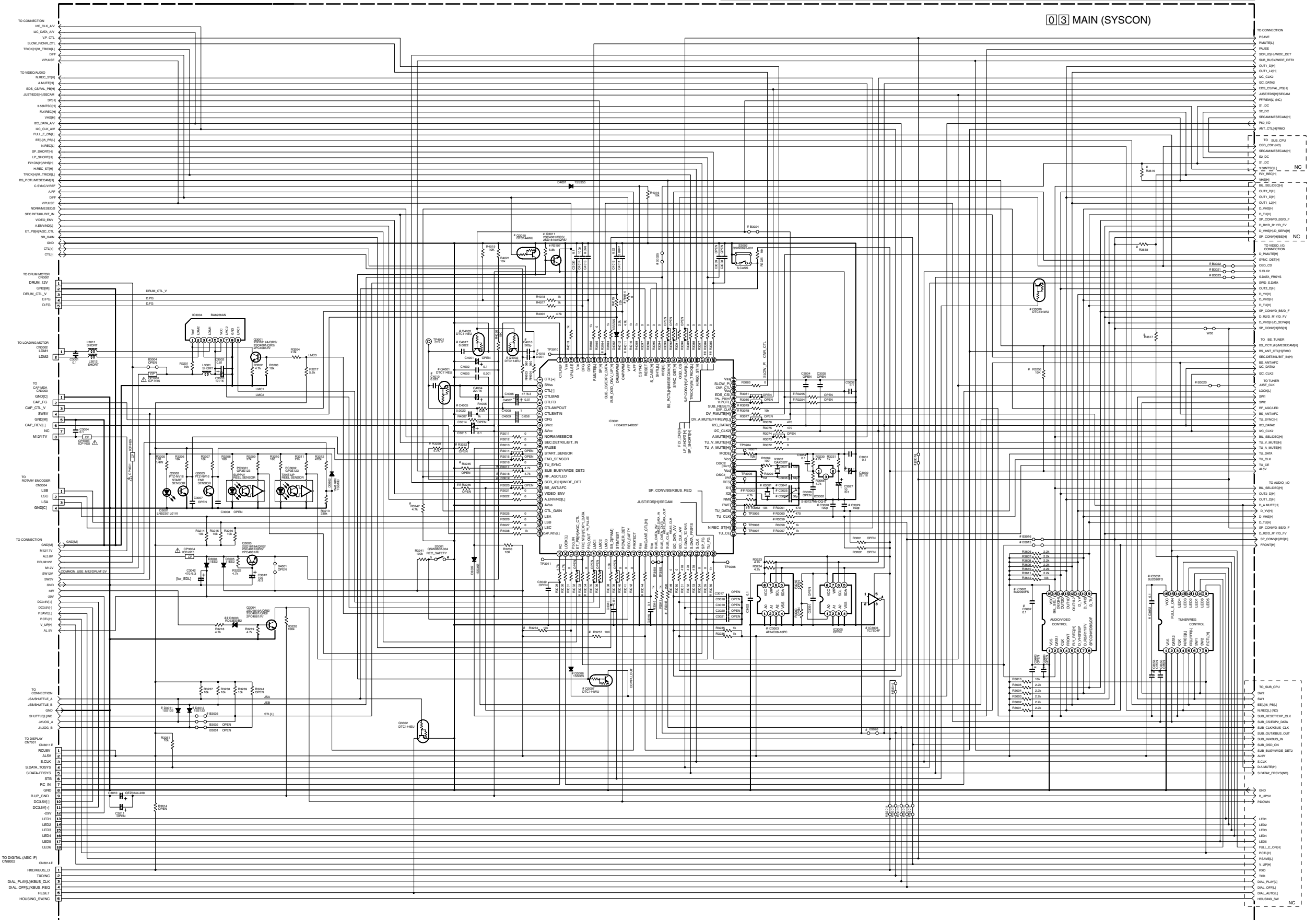
5  
4  
3  
2  
1

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

# 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.

03 MAIN (SYSCON)



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

ELECTROLYTIC  
 CERAMIC  
 MYLER  
 NON POLAR

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

p10290001a\_rev3.1

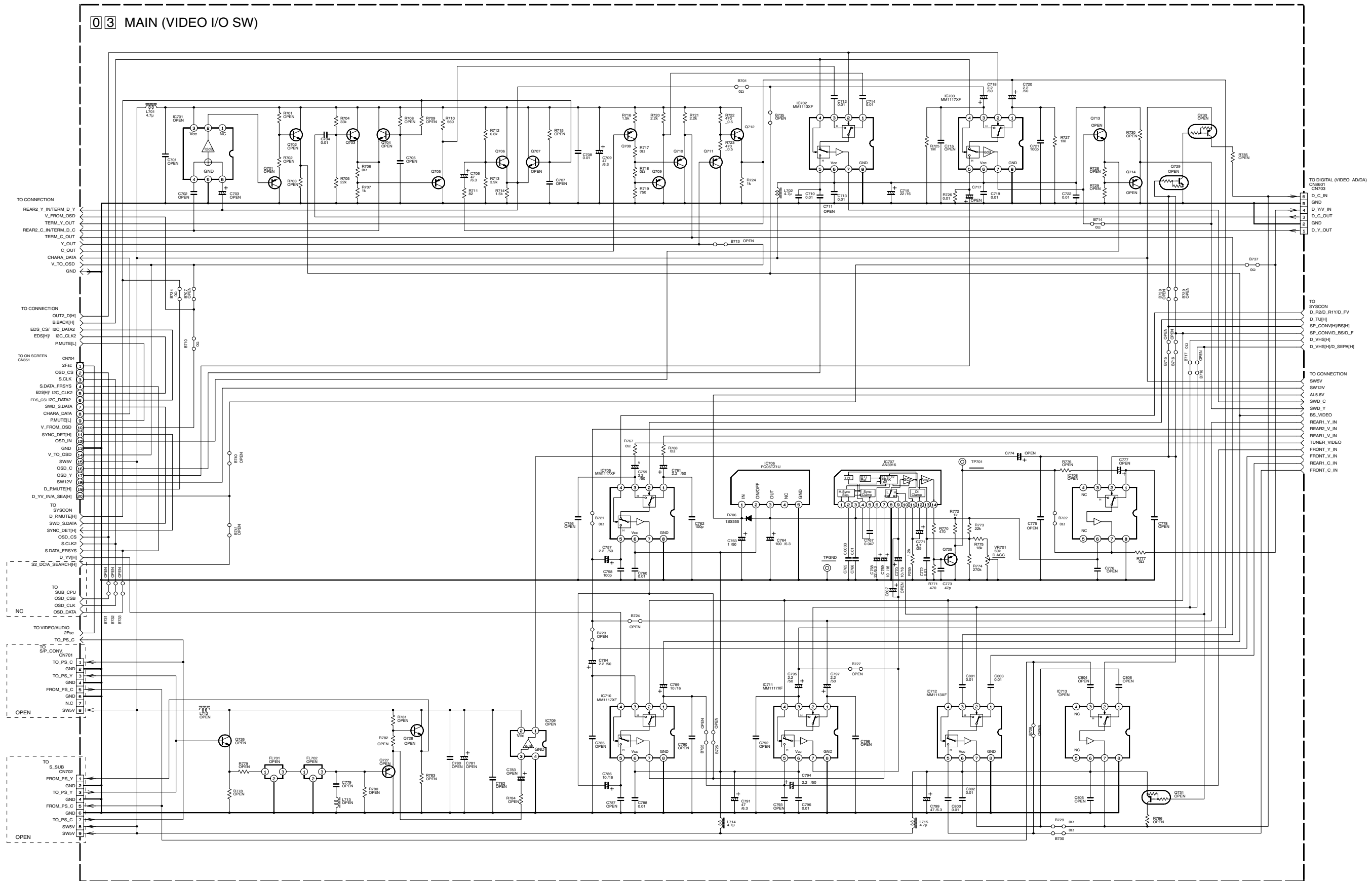
#DIFFERENCE TABLE      ○ : Used  
 X : Not used

ITEM		HR-DVS2 /SR-VS20 EU/EK	MS	US	DOM	HM-HDS1 DOM	PAL	MS	US	
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	○	
SUB_BUSY/W.DET2	R3245	X	X	X	X	X	X	X	4.7k	
	R3017	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k	
RF_AGO/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	4.7k	
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	0Ω	
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	○	○	○	○	○	○	○	○	
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	
	SP_CONV/BS/KBUS_REQ	B3016	○	○	○	○	X	X	X	
	JUST_CLK	B3020	X	X	X	○	○	X	X	
	BS_PCTL	R3256	X	X	X	X	X	X	X	
	SUB_D.IN/KBUS D.IN/RXD	B3011	X	X	X	X	○	○	○	○
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_ONV/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	○	○	○	X	
EDS	Q3009	X	X	○	X	X	X	X	○	
OSD	B3021									
	B3022	X	X	X	X	○	○	○	○	
	B3023									
JBS/STLB/S1_DC	B3025	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	○	○	○	○	○	○	○	X	
	C4005	X	X	X	X	X	X	X	X	
	SUB_CLK/KBUS_CLK	R3048	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 (1k)
R4014		0Ω (2.2k)	0Ω	1.8k	1.8k	0Ω	0Ω	0Ω	0Ω (1.8k)	
VHS(H)	R3016					X			○	
FLY_REC(H)	R3017					X			○	
	R3018					○			X	

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 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.

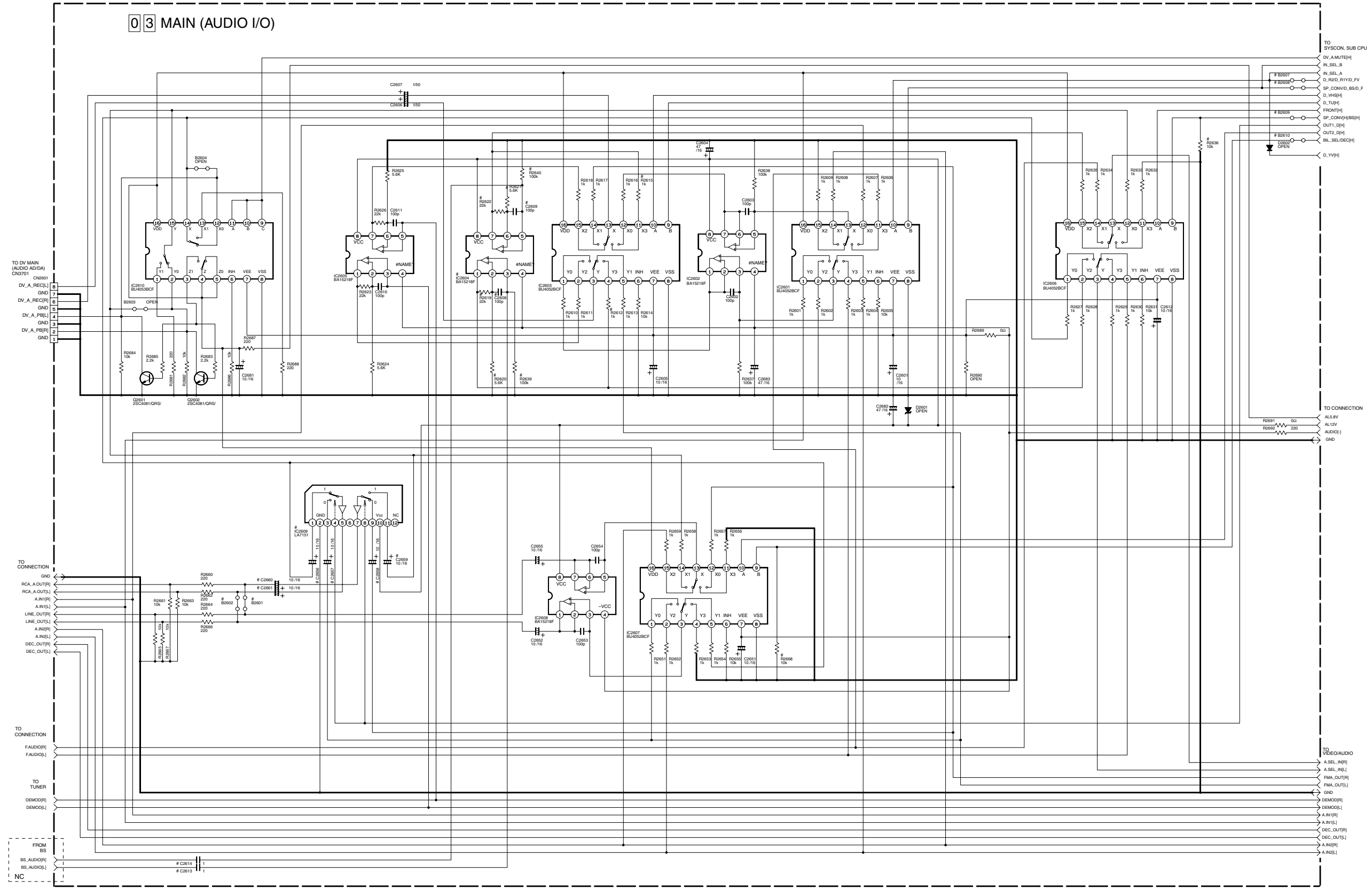


NOTES: UNLESS OTHERWISE SPECIFIED:  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN H.  
 ALL CAPACITANCE VALUES ARE IN µF.  
 — ELECTROLYTIC  
 — CERAMIC  
 — MYLER  
 — NON POLAR



4.6 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.



p10336001a\_rev0

# DIFFERENCE TABLE

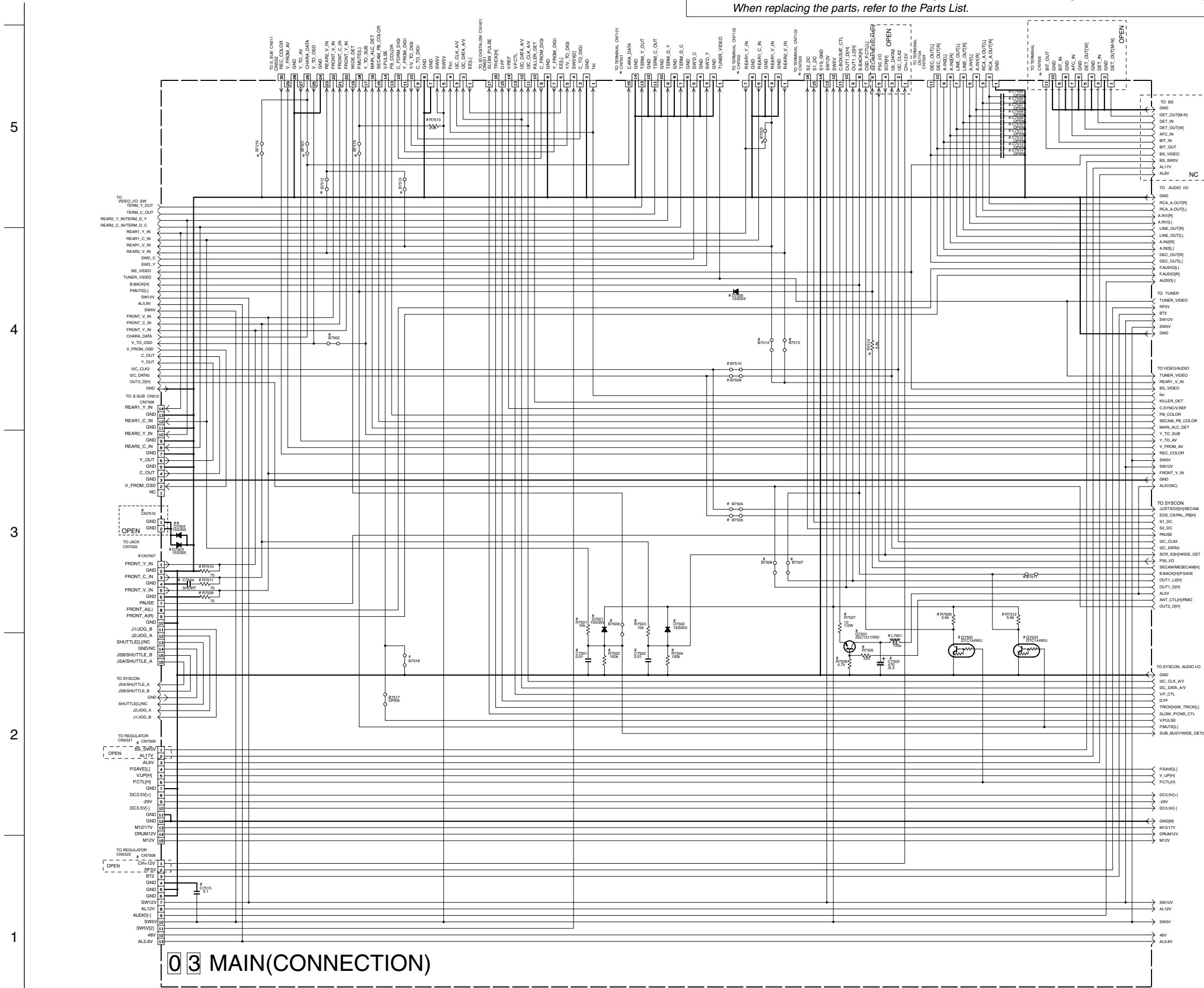
SYMBOL	MODEL	SYMBOL	MODEL	SYMBOL	MODEL
B2601, B2602	C2605-C2607	B2609	B2610	IC2604	R2612, R2615
With DVC	With HDD	NTSC	PAL/MS	With BS	With BS
X	O	X	X	O	X

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

4.7 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.



03 MAIN(CONNECTION)

p10308001a\_rev0

DIFFERENCE TABLE

○ Used  
× Not used

	ONS2V520	EU	EK	MS	DOM	US	HM-HDS1	DOM	US
B7501	X	X	X	X	X	X	○	○	○
B7502	X	X	X	X	X	X	X	X	X
B7503	○	○	○	○	X	X	X	X	X
B7504	X	X	X	X	X	○	X	○	○
B7505	X	X	X	X	X	X	X	X	X
B7506	X	X	X	X	X	X	X	X	X
B7507	X	X	X	X	X	X	X	X	X
B7508	X	X	X	X	X	X	X	X	X
B7509	○	○	○	○	X	X	X	X	X
B7510	○	○	○	○	X	X	X	X	X
B7511	○	○	○	○	○	○	X	X	X
B7512	○	○	○	○	X	X	X	X	X
B7513	X	X	X	X	○	○	○	○	○
B7514	○	○	○	○	X	X	X	X	X
B7515	X	X	X	X	○	○	○	○	○
B7516	○	○	○	○	○	○	X	X	X
B7517	X	X	X	X	X	X	X	X	X
B7518	○	○	○	○	○	○	○	○	○
B7519	X	X	X	X	○	○	○	○	○
B7513	○	○	○	○	X	X	X	X	X
R7501									
R7502									
R7503									
R7504									
C7501	X	X	X	X	X	X	○	○	X
C7502									
D7501									
D7502									
C7514	X	X	X	X	X	X	X	X	X
C7515	X	X	X	X	○	○	○	○	○
Q7501									
R7505									
R7506									
R7507	○	○	○	○	X	○	○	X	○
L7501									
C7503									
R7508									
R7509									
R7510									
R7511	X	X	X	X	X	X	X	X	X
C7504									
CN7510	X	X	X	X	X	X	X	X	X
CN7501	1-15	1-15	1-15	3-15	3-15	3-8	3-8	3-15	3-15
CN7502	1-5	1-5	1-5	1-7	1-7	1-7	1-7	1-7	1-7
CN7503	1-14	1-14	1-14	7-16	7-16	8-15	7-16	7-16	7-16
CN7505	X	X	X	X	X	X	X	X	X
CN7507	1-16	1-16	1-16	1-16	1-16	1-10	1-10	1-10	1-10
CN7508	1-13	1-13	1-13	3-13	3-13	3-13	3-13	3-13	3-13
CN7509	3-15	3-15	3-15	1-15	3-15	1-15	3-15	3-15	3-15
D7505	○	○	○	○	X	X	X	X	X
R7514	○	○	○	○	X	X	X	X	X

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

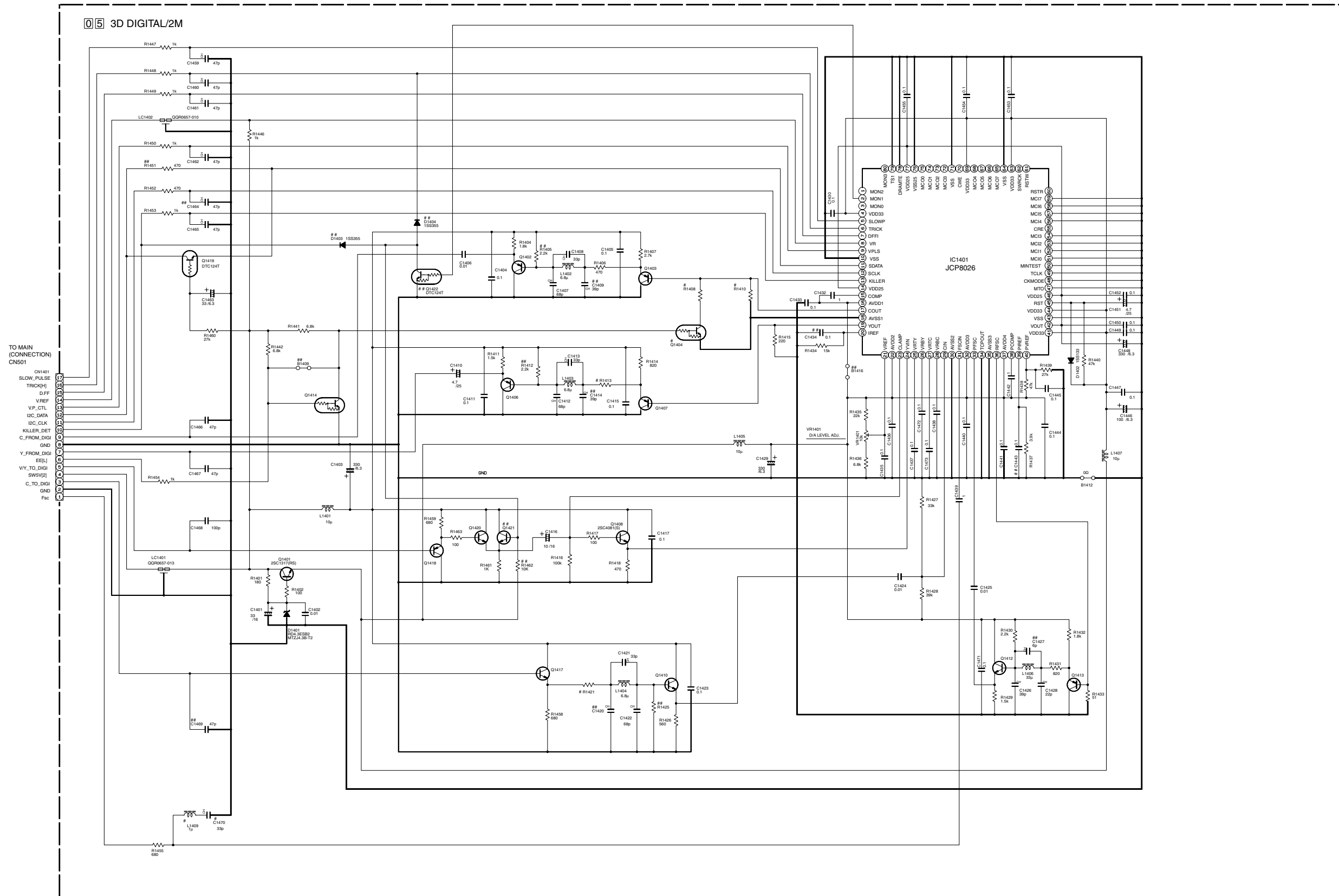
NOTES: UNLESS OTHERWISE SPECIFIED:  
 ALL RESISTANCE VALUES ARE IN OHMS.  
 ALL INDUCTANCE VALUES ARE IN H.  
 ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC  
 CERAMIC  
 MYLER  
 NON POLAR



4.9 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  $\mu$ F.

ELECTROLYTIC  
 CERAMIC  
 MYLAR  
 NON POLAR

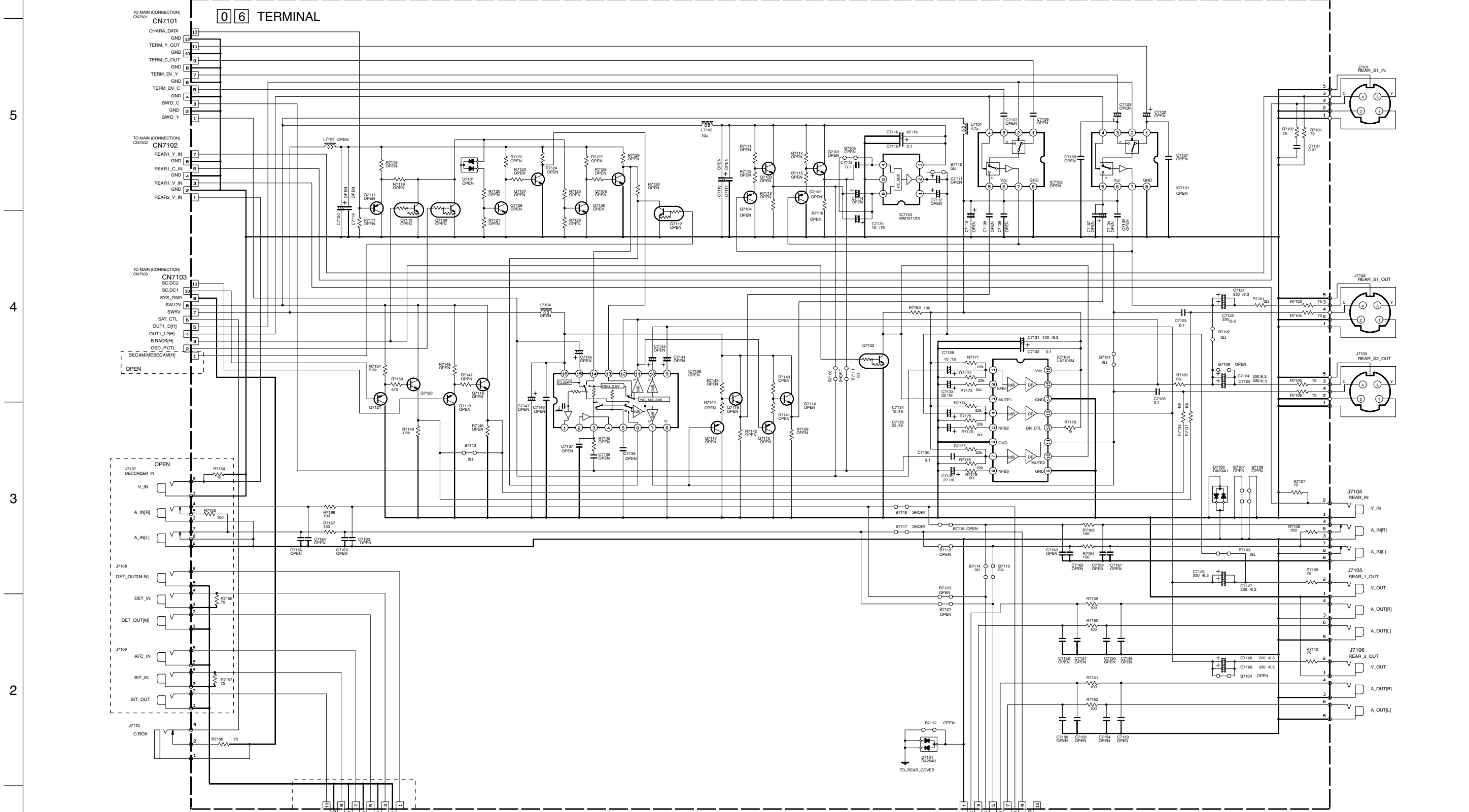
# MARK ELEMENTS ARE NOT MOUNTED.  
 ALL SINGLE DIODE: 1N5133 OR 1N4148.  
 ALL PNP TRANSISTOR: 2SA1578A(QR) OR 2SB1218A(QR) OR 2PA1578(R)  
 ALL NPN TRANSISTOR: 2SC4081(QRS) OR 2SD1619A(QRS) OR 2PC4081(R)  
 ALL NPN DIGITAL TRANSISTOR: DTC144WUA OR UN21E OR RN1309

# DIFFERENCE TABLE

	Q1404	R1408	R1410	R1413	R1421	C1470	L1409
PLMS	○	1.2k	390	330	390	33p	Iu
NTSC	×	OPEN	240	470	330	OPEN	OPEN

# 4.10 TERMINAL SCHEMATIC DIAGRAM

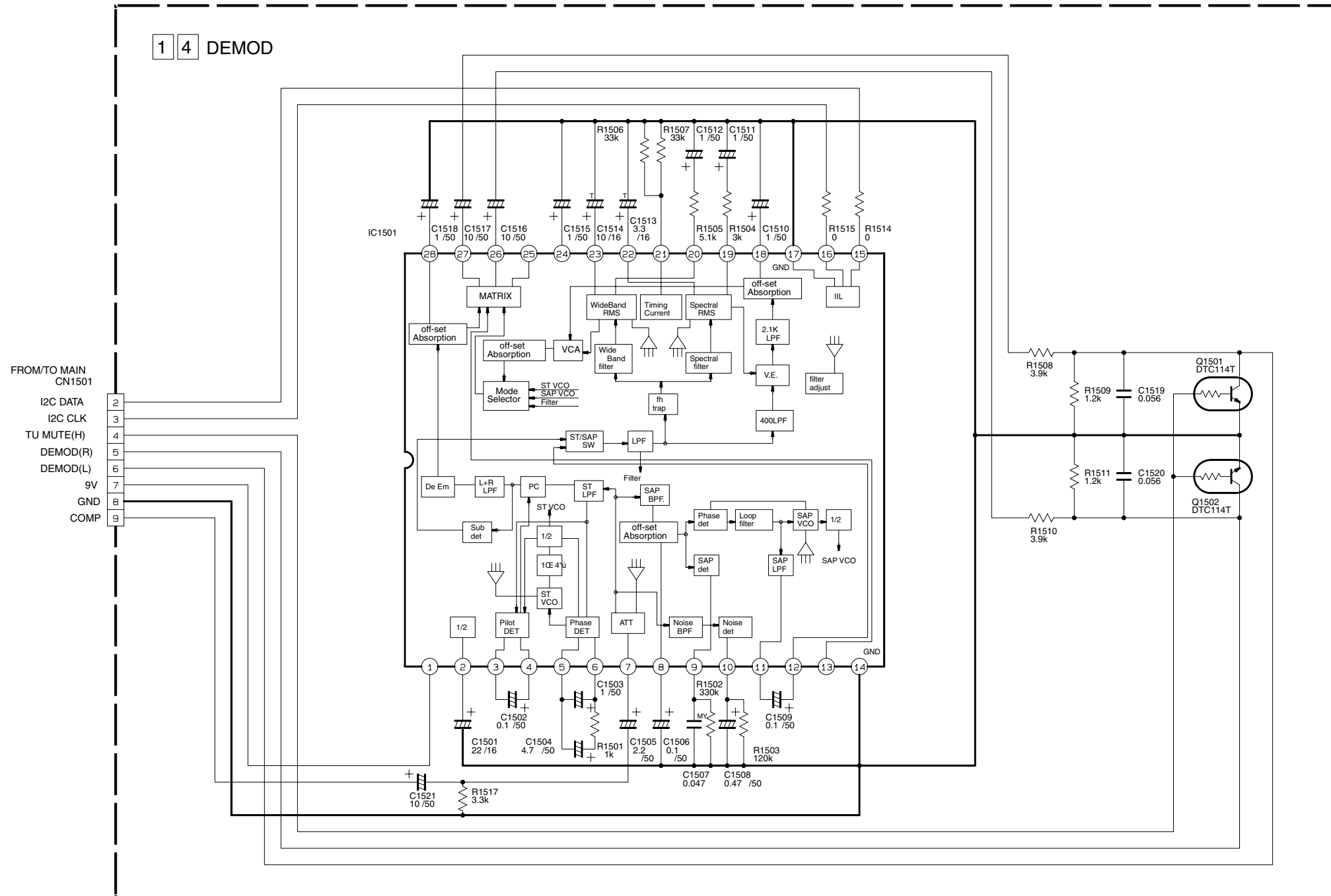
Note : The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.



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

4.11 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.



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

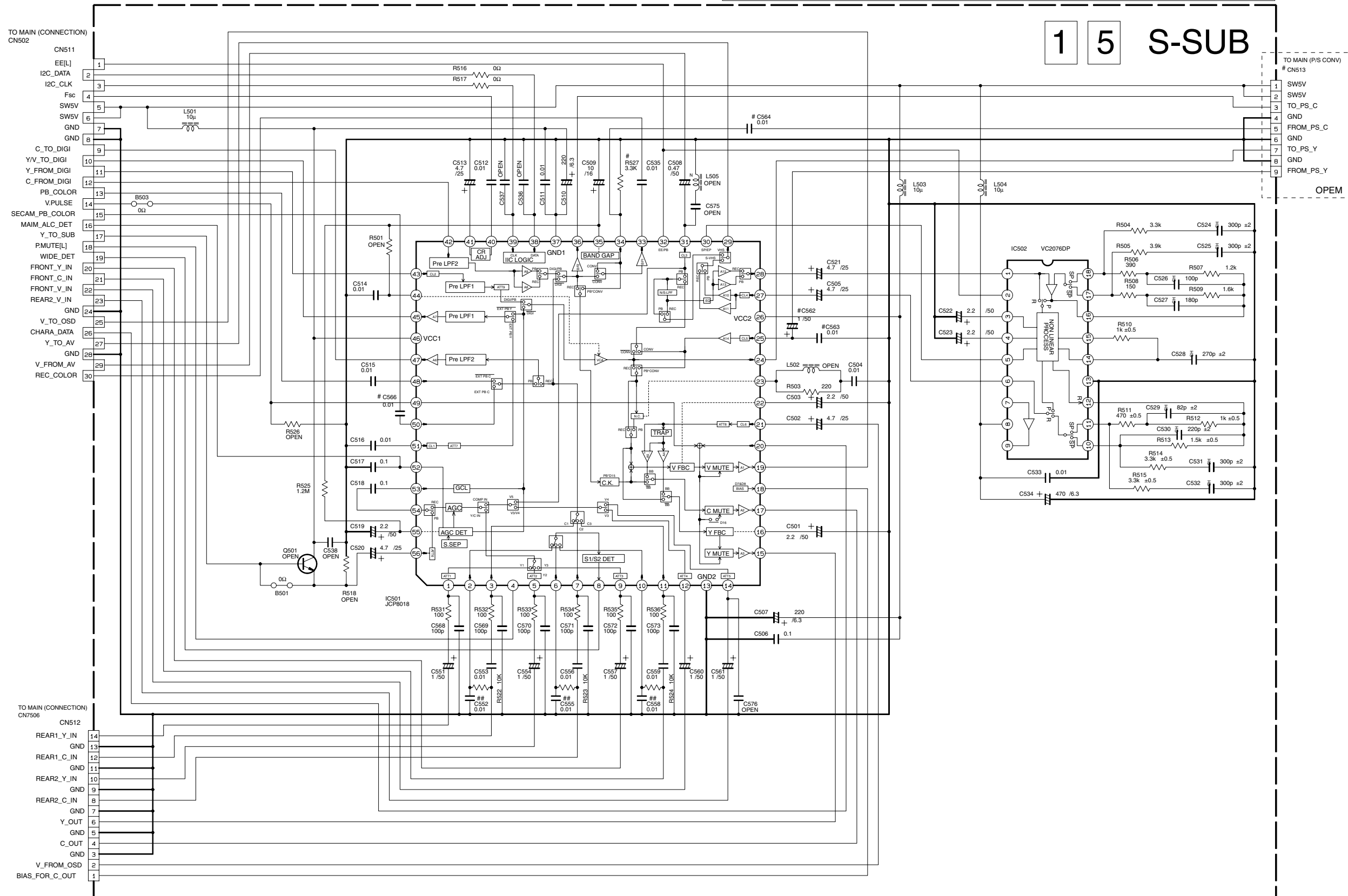
ELECTROLYTIC  
 CERAMIC  
 TANTAL

p97596\_rev0

4.12 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.

1 5 S-SUB



p20168001a\_rev0

# DIFFERENCE TABLE

	Used	Not used
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.

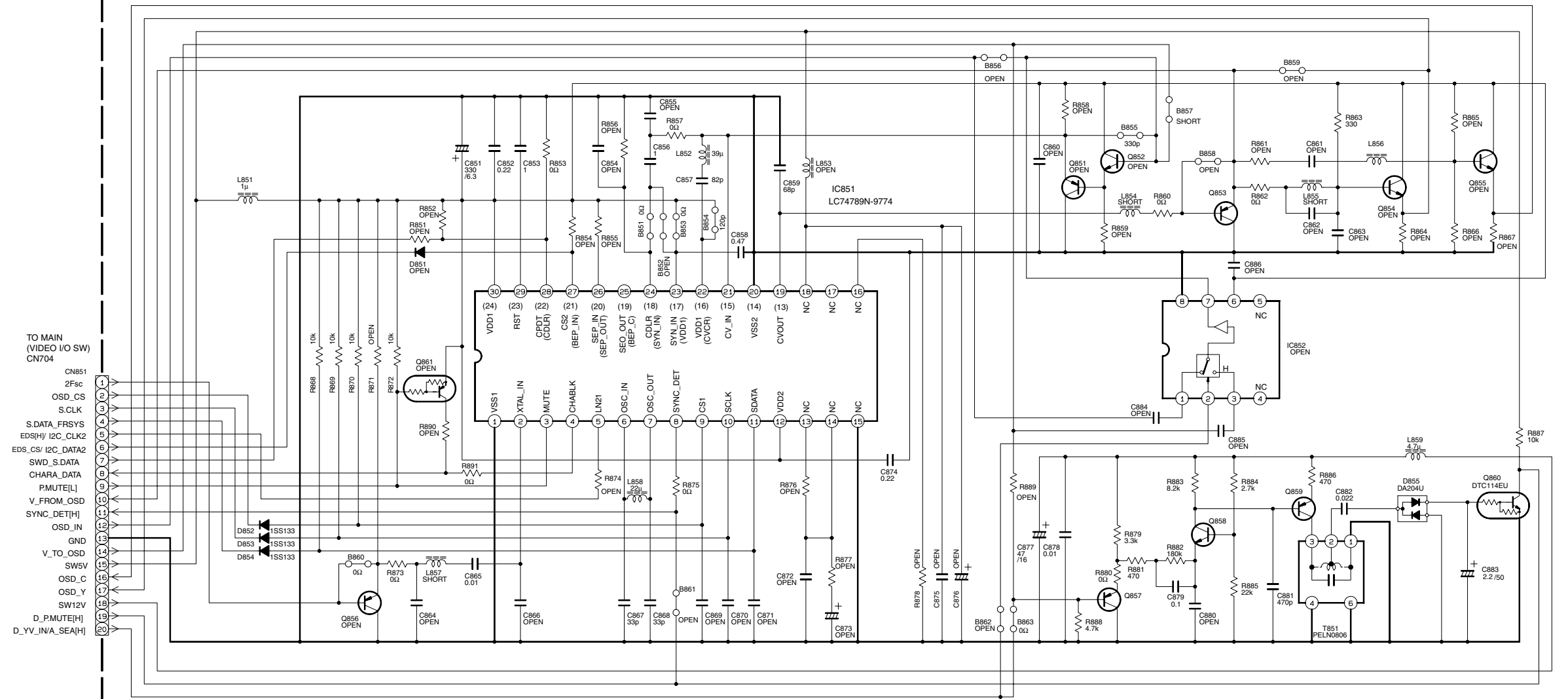
- ELECTROLYTIC
- CERAMIC
- MYLER
- NON POLAR

5  
4  
3  
2  
1

A B C D 4-27 4-28 E F G H

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



TO MAIN  
(VIDEO I/O SW)  
CN704

1 CN851  
2 2Fsc  
3 OSD\_CS  
4 S.CLK  
5 S.DATA\_FRSYS  
6 EDS(H) I2C\_CLK2  
7 EDS\_CS/ I2C\_DATA2  
8 SWD\_SDATA  
9 CHARA\_DATA  
10 P.MUTE[L]  
11 V\_FROM\_OSD  
12 SYNC\_DET[H]  
13 OSD\_IN  
14 GND  
15 V\_TO\_OSD  
16 SW5V  
17 OSD\_C  
18 OSD\_Y  
19 SW12V  
20 D\_P.MUTE[H]  
D\_YV\_INA\_SEA[H]

p20200001a\_rev0

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

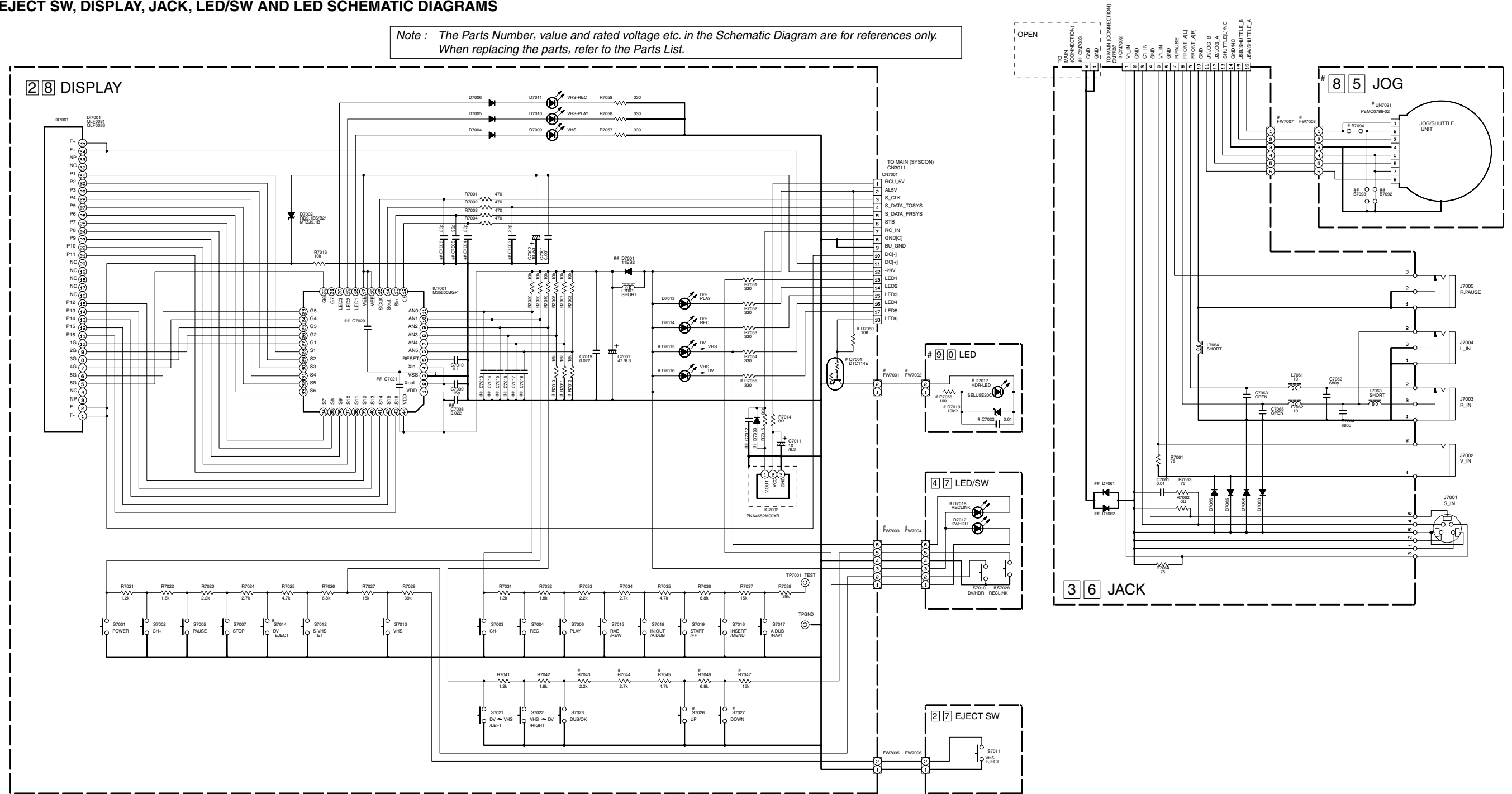
ELECTROLYTIC  
 CERAMIC  
 MYLER  
 NON POLAR

ALL NPN TYPE TRANSISTORS ARE 2SC4081/QR5.  
 ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR1.



4.14 EJECT SW, DISPLAY, JACK, LED/SW AND LED 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

# DIFFERENCE TABLE					
	Used	Not used			
		CN7002	D7018	S7014	FW7003
		UN7091	FW7001	FW7004	FW7004
		S7004	S7026	D7015	
		FW7007	R7044	D7016	
		FW7008	R7045	D7017	
			R7046	D7018	
			R7047	D7019	
DVS2 /VS20	○	1-16	X	○	1-4
HDS1	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  
 MYLER  
 NON POLAR  
 ##NOT USED

5

4

3

2

1

A

B

C

D

4-31

4-32

E

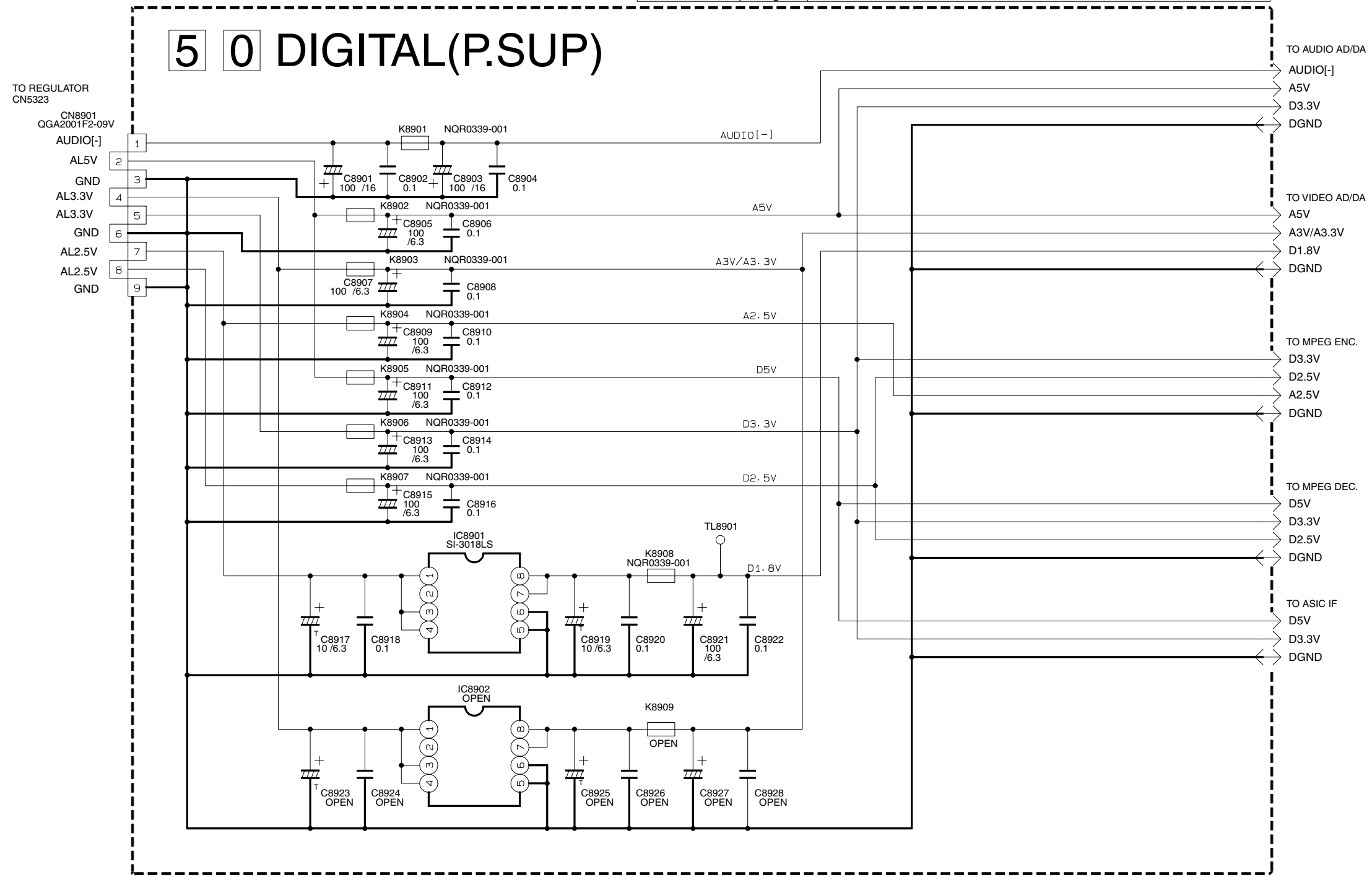
F

G

H

4.15 DIGITAL P.SUP 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.



p30080001a\_rev1

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

- ELECTROLYTIC
- CERAMIC
- TANTAL

LAST NO		VACANT NO	
C	8928	1-8900	
K	8909	1-8900	

A

B

C

D 4-33

4-34

E

F

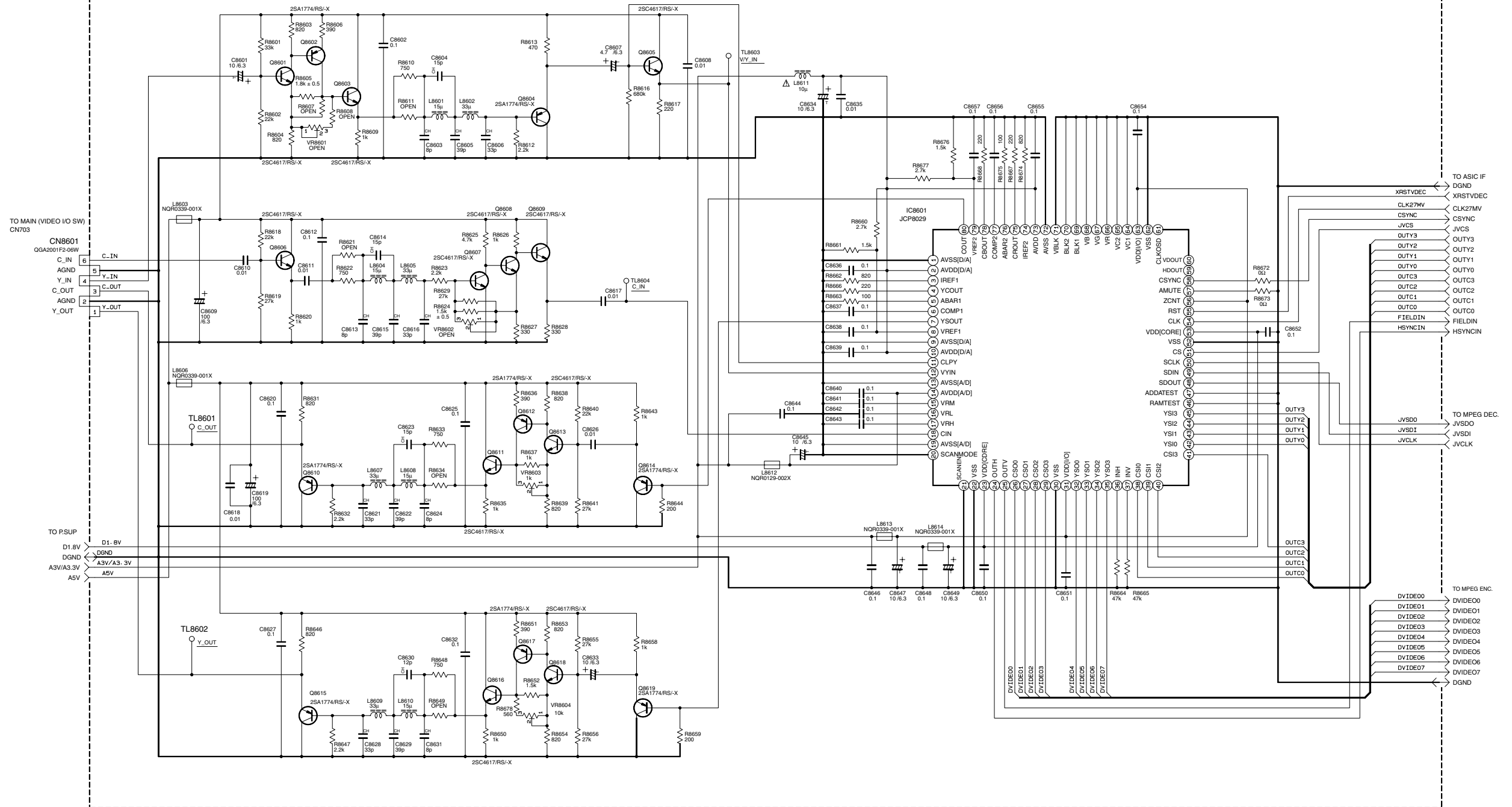
G

H

4.16 DIGITAL VIDEO 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.

5 0 DIGITAL(VIDEO AD/DA)



p10313001a\_rev1.1

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

LAST NO	VACANT NO
R 8677	1-8600, 8614, 8615, 8630, 8642, 8645, 8657, 8669-8671
C 8657	1-8600-8653
Q 8619	1-8600
L 8614	1-8600
TL 8604	1-8600
VR 8604	1-8600

A

B

C

D

4-35

4-36

E

F

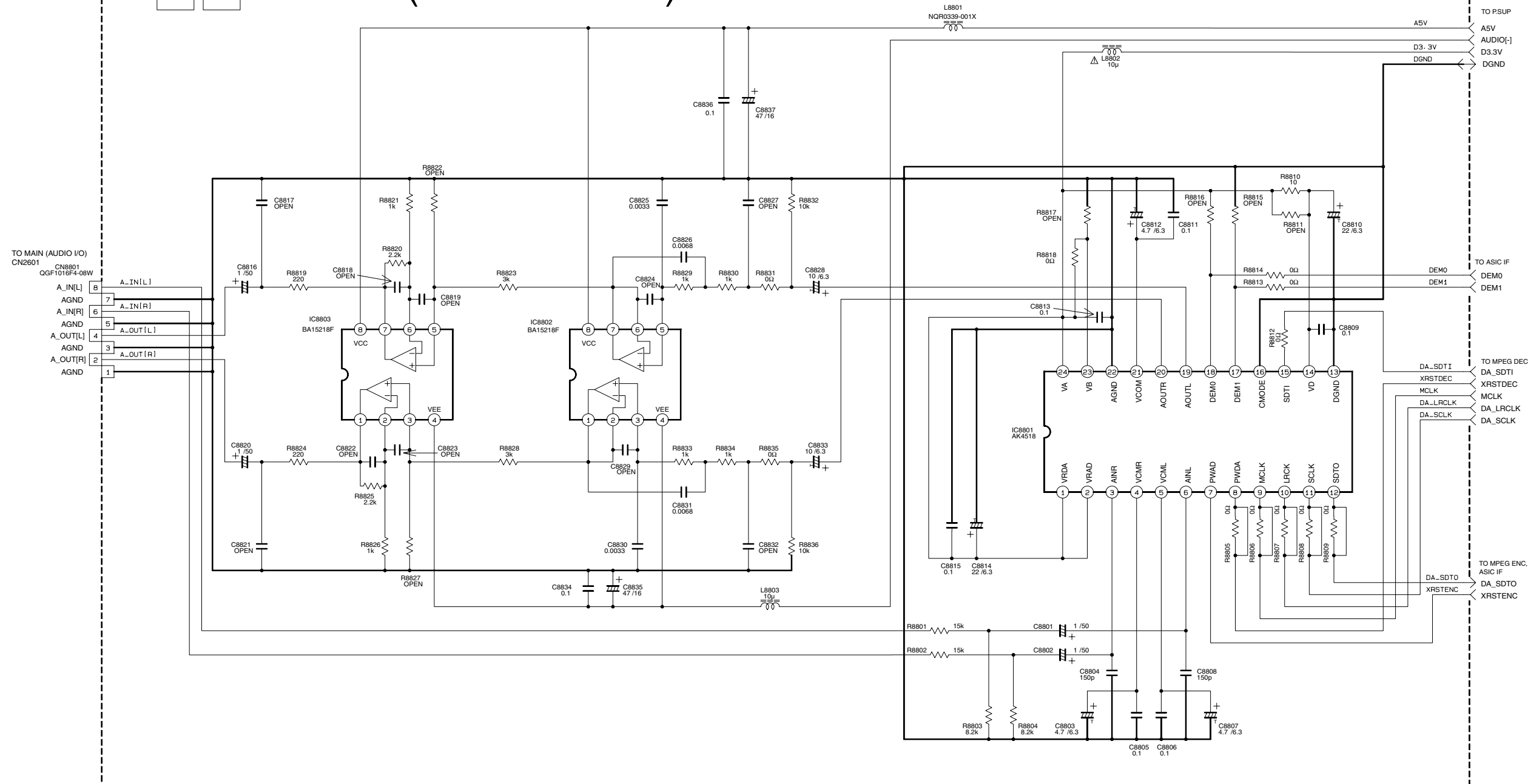
G

H

4.17 DIGITAL 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.

5 0 DIGITAL(AUDIO AD/DA)



p20193001a\_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
- TANTAL

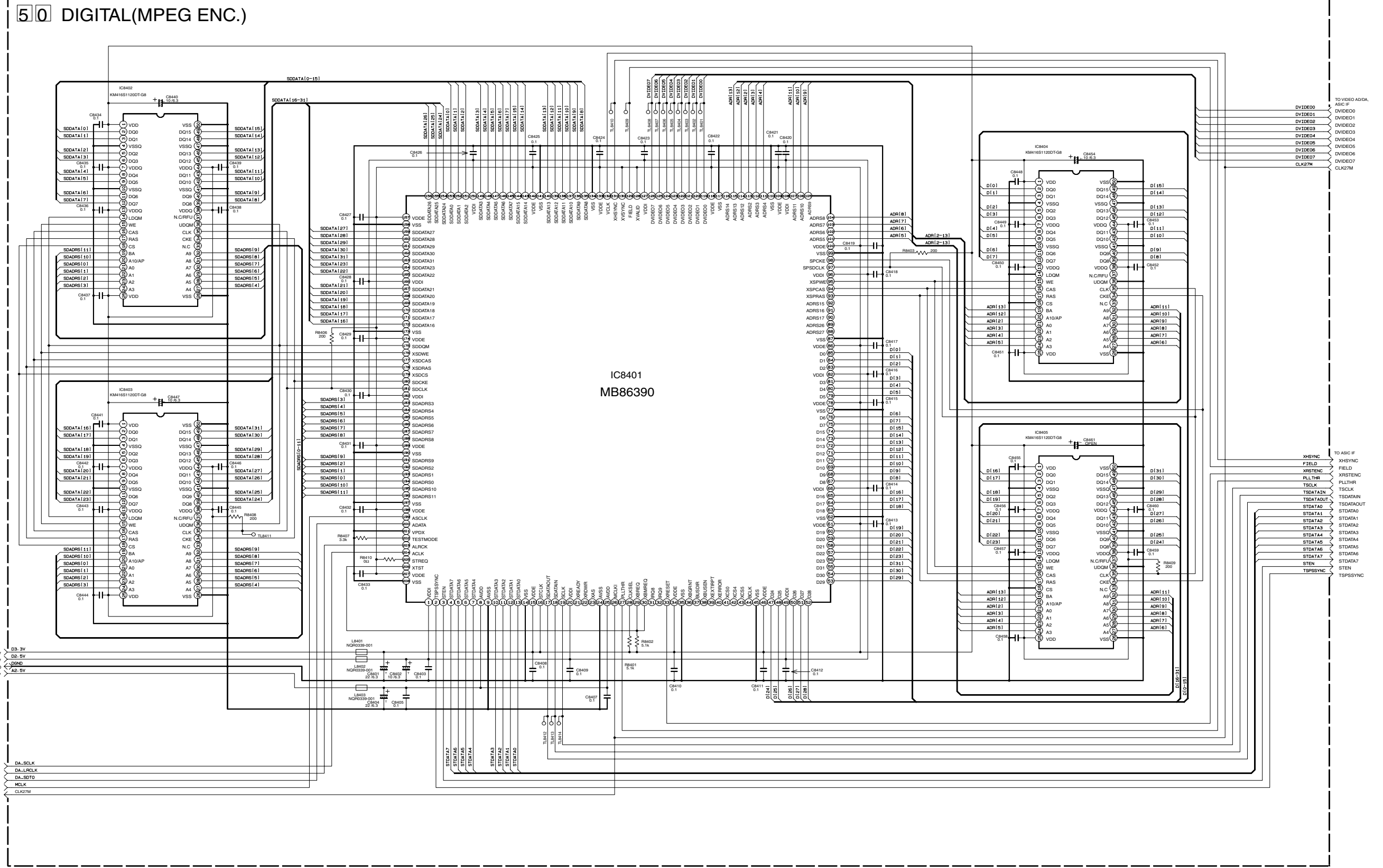
LAST NO	VACANT NO
R 8836	1-8800
C 8837	1-8800
L 8803	1-8800

5  
4  
3  
2  
1

A B C D 4-37 4-38 E F G H

4.18 DIGITAL MPEG DEC 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.



p10312001a\_rev0

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

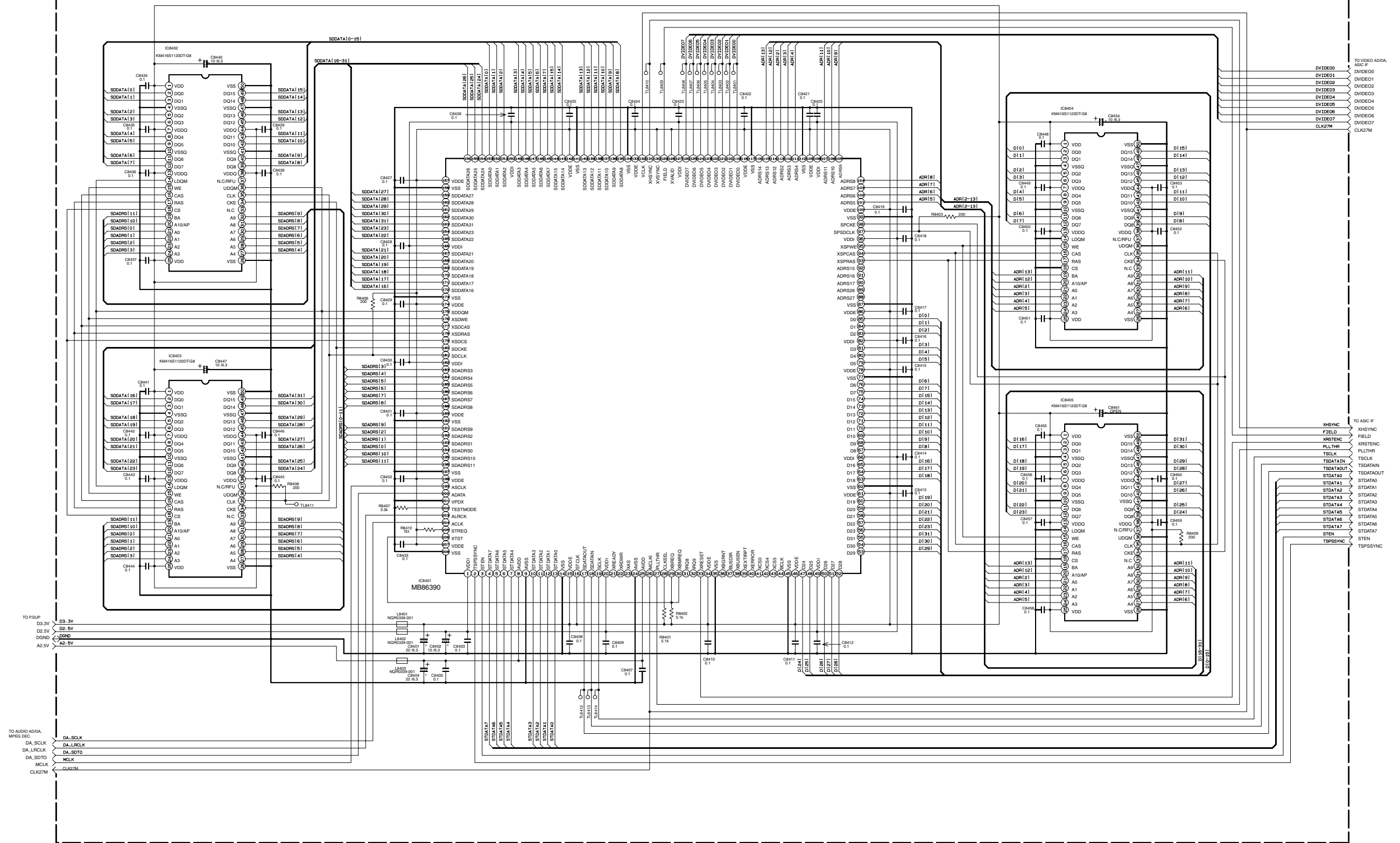
LAST NO	VACANT NO
R 8410	1-8400,8404,8405
C 8461	1-8400,8406
L 8403	1-8400
IC 8405	1-8400
TL 8414	1-8400

□ ELECTROLYTIC  
 □ CERAMIC  
 □ TANTAL

4.19 DIGITAL MPEG ENC 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.

50 DIGITAL(MPEG ENC.)



p10312001a\_rev0

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

LAST NO	VACANT NO
R 8410	1-8400,8404,8405
C 8461	1-8400,8406
L 8403	1-8400
IC 8405	1-8400
TL 8414	1-8400

□ ELECTROLYTIC  
 □ CERAMIC  
 □ TANTAL

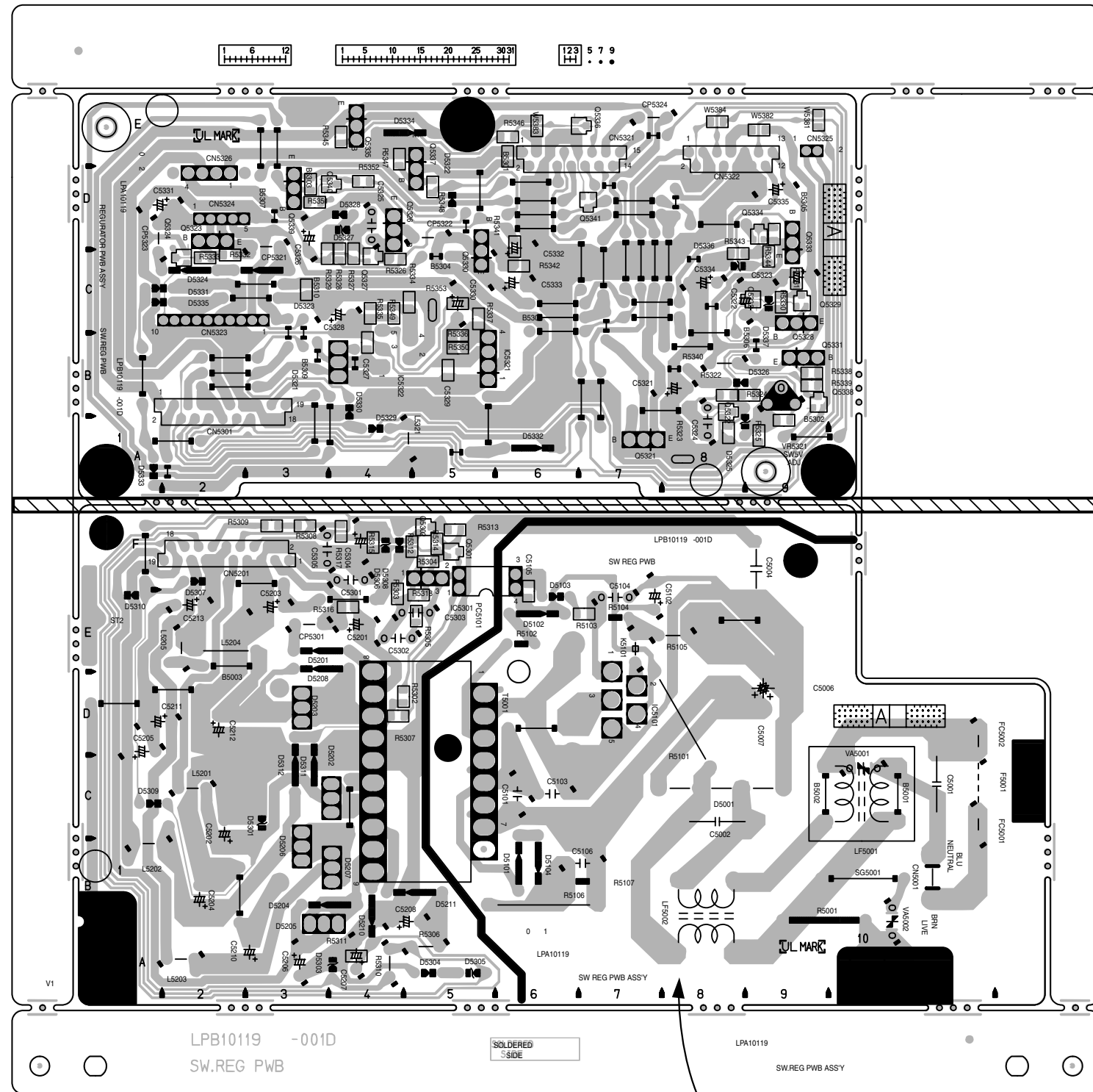


## 4.21 SWITCHING REGULATOR AND REGULATOR CIRCUIT BOARDS

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



CAUTION :  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE CP(S) MANUFACTURED BY ROHM.  
ATTENTION :  
REPLACER PAR DES FUSIBLE DE MEME TYPE.



#### COMPONENT PARTS LOCATION GUIDE <SWITCHING REGULATOR>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
<b>CAPACITOR</b>		<b>CONNECTOR</b>		D5311	A D 3C	R5306	A D 5A
C5001	A D 11D	CN5001	A D 11B	D5312	A D 3C	R5307	B C 4D
C5002	A D 8C	CN5201	A D 3F	<b>IC</b>			
C5004	A D 9E	<b>DIODE</b>				IC5101	A D 7E
C5006	A D 8D	D5001	A D 7C	IC5301	A D 5F	R5309	B C 3F
C5007	A D 9D	D5101	A D 6B	<b>COIL</b>			
C5101	A D 6C	D5102	A D 6E	L5201	A D 2C	R5311	B C 4A
C5102	A D 7E	D5103	A D 6E	L5202	A D 2B	R5312	B C 5F
C5103	A D 6C	D5104	A D 6C	L5203	A D 2A	R5313	B C 5F
C5104	A D 7E	D5201	A D 4E	L5204	A D 3E	R5314	B C 5F
C5105	B C 6E	D5202	A D 4C	L5205	A D 2E	R5315	B C 4F
C5106	A D 6B	D5203	A D 3D	<b>TRANSISTOR</b>			
C5201	A D 4E	D5204	A D 4B	Q5301	B C 5F	R5316	B C 4E
C5202	A D 2B	D5205	A D 3A	Q5302	B C 5F	R5317	B C 4F
C5203	A D 3E	D5206	A D 3B	<b>OTHER</b>			
C5204	A D 2B	D5207	A D 4B	CP5301	A D 3E	R5318	B C 5E
C5205	A D 1D	D5208	A D 4E	F5001	A D 11C		
C5206	A D 3A	D5210	A D 4B	FC5001	A D 11C		
C5207	A D 4A	D5211	A D 5B	FC5002	A D 11D		
C5208	A D 4B	D5301	A D 3C	K5101	A D 7E		
C5210	A D 3A	D5303	A D 4A	LF5001	A D 10C		
C5211	A D 2D	D5304	A D 5A	LF5002	A D 8B		
C5212	A D 2D	D5305	A D 5A	PC5101	A D 5F		
C5213	A D 2E	D5306	A D 4F	SG5001	A D 9B		
C5301	A D 4F	D5307	A D 2F	T5001	A D 5D		
C5302	A D 5E	D5308	A D 4F	VA5001	A D 10C		
C5303	A D 5E	D5309	A D 1C	VA5002	A D 10A		
C5304	A D 4F	D5310	A D 1E				
C5305	A D 3F						

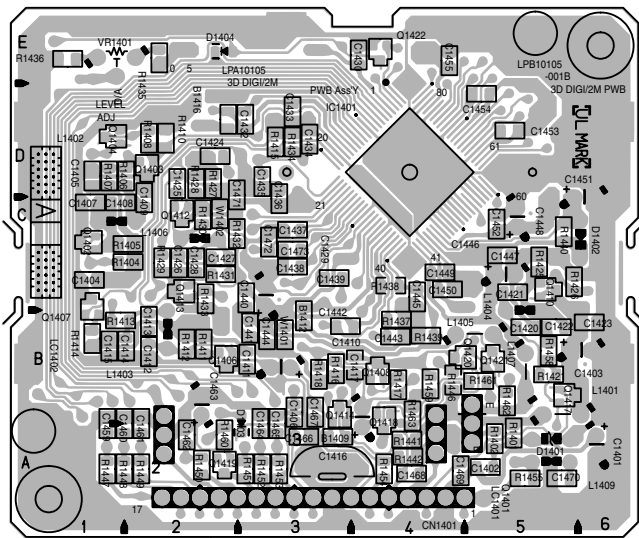
#### COMPONENT PARTS LOCATION GUIDE <REGULATOR>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
<b>CAPACITOR</b>		D5323	A D 3C	Q5328	A D 9C	R5335	B C 4C
C5321	A D 7B	D5324	A D 2C	Q5329	B C 9C	R5336	B C 5B
C5322	A D 9C	D5325	A D 9B	Q5330	A D 5C	R5337	B C 5C
C5323	A D 9C	D5326	A D 9B	Q5331	A D 9B	R5338	B C 9B
C5324	A D 8A	D5327	A D 4D	Q5332	B C 9C	R5339	B C 9B
C5325	A D 4D	D5328	A D 4D	Q5333	A D 9C	R5340	A D 8B
C5326	A D 3D	D5329	A D 4A	Q5334	B C 9D	R5341	B C 6D
C5327	B C 4B	D5330	A D 4A	Q5335	A D 4E	R5342	B C 6C
C5328	A D 3C	D5331	A D 1C	Q5336	B C 7E	R5343	B C 8C
C5329	B C 5B	D5332	A D 6A	Q5337	A D 5E	R5344	B C 9C
C5330	A D 5C	D5333	A D 1A	Q5338	B C 9B	R5345	B C 4E
C5331	A D 2D	D5334	A D 4E	Q5339	A D 3D	R5346	B C 6E
C5332	A D 6D	D5335	A D 1C	Q5340	B C 4D	R5347	B C 4E
C5333	A D 6C	D5336	A D 8C	Q5341	B C 7D	R5348	B C 5D
C5334	A D 8C	D5337	A D 9C	<b>RESISTOR</b>			
C5335	A D 9D	<b>IC</b>				R5349	B C 4C
<b>CONNECTOR</b>		IC5321	A D 5B	R5322	B C 8B	R5350	B C 5B
CN5301	A D 1B	IC5322	A D 4B	R5323	B C 8A	R5351	B C 3D
CN5321	A D 6E	<b>COIL</b>				R5324	B C 9B
CN5322	A D 8E	L5321	A D 4A	R5325	B C 9A	R5352	B C 4D
CN5323	A D 3C	<b>TRANSISTOR</b>				R5326	B C 4C
CN5324	A D 2D	Q5321	A D 7A	R5327	B C 4C	R5327	B C 4C
CN5325	A D 9E	Q5322	B C 8B	R5328	B C 4C	CP5321	A D 3D
CN5326	A D 2D	Q5323	A D 2D	R5329	B C 3C	CP5322	A D 5D
<b>DIODE</b>		Q5324	B C 2C	R5330	B C 9C	CP5323	A D 1C
D5321	A D 4B	Q5326	A D 4D	R5331	B C 9C	CP5324	A D 8E
D5322	A D 5D	Q5327	B C 4C	R5332	B C 2C		
				R5333	B C 2C		
				R5334	B C 4C		



## 4.22 3D DIGITAL/2M AND S-SUB CIRCUIT BOARDS

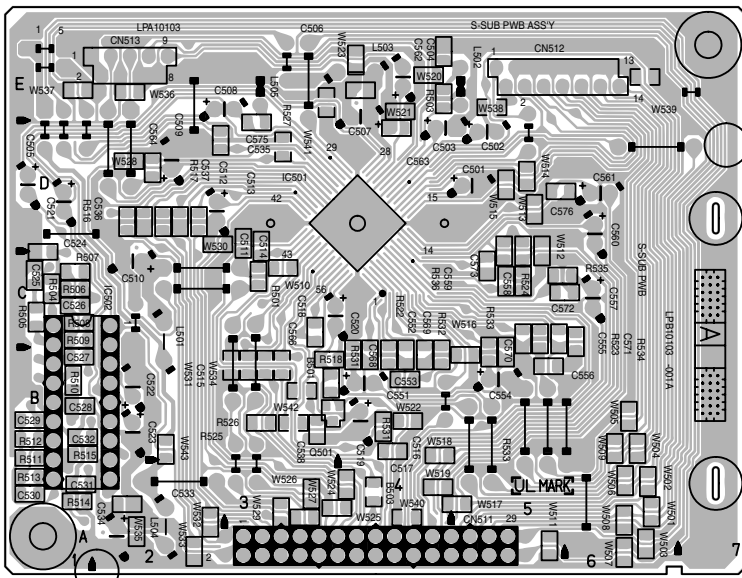
### <05> 3D DIGITAL/2M LPB10105-001B



### COMPONENT PARTS LOCATION GUIDE <3D DIGITAL/2M>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
<b>CAPACITOR</b>							
C1401	A D 6A	C1446	A D 5C	L1407	A D 5B	R1429	B C 2C
C1402	A B C 5A	C1447	B C 5C	L1409	A D 5A	R1430	B C 2C
C1403	A D 5B	C1448	A D 5C	<b>TRANSISTOR</b>			
C1404	A B C 1C	C1449	B C 4C	Q1401	A D 5B	R1431	B C 2C
C1405	B C 1D	C1450	B C 4C	Q1402	B C 1C	R1432	B C 2C
C1406	B C 3B	C1451	A D 5D	Q1403	B C 2D	R1433	B C 2C
C1407	B C 1C	C1452	B C 5C	Q1404	B C 1D	R1434	B C 3D
C1408	B C 1C	C1453	B C 5D	Q1406	B C 2B	R1435	B C 2E
C1409	B C 2C	C1454	B C 5D	Q1407	B C 1C	R1436	B C 1E
C1410	A D 3B	C1455	B C 4E	Q1408	B C 4B	R1437	B C 4B
C1411	A B C 3B	C1459	B C C 1B	Q1410	B C 4B	R1438	B C C 4C
C1412	B C 2B	C1460	B C C 2B	Q1412	B C 2C	R1439	B C C 4B
C1413	B C 2B	C1461	B C C 2B	Q1413	B C 2C	R1440	B C C 5C
C1414	B C 2B	C1462	B C 2A	Q1414	B C 3B	R1441	B C C 4A
C1415	B C 1B	C1463	A D 2B	Q1417	B C 5B	R1442	B C C 4B
C1416	A D 4A	C1464	B C C 3B	Q1418	B C 4B	R1443	B C 1A
C1417	B C 4B	C1465	B C C 3B	Q1419	B C 2A	R1444	B C 2A
C1420	B C 5B	C1466	B C C 3A	Q1420	B C 4B	R1449	B C 2A
C1421	B C 5C	C1467	B C C 3B	Q1421	B C 5B	R1450	B C 2A
C1422	B C 5B	C1468	B C C 4A	Q1422	B C 4E	R1451	B C 3A
C1423	B C 6B	C1469	B C C 4A	<b>RESISTOR</b>			
C1424	B C 2D	C1470	B C 5A	R1401	B C 5A	R1452	B C 3A
C1425	B C 2C	C1471	B C 2D	R1402	B C 5A	R1453	B C 3A
C1426	B C 2C	C1472	B C 3C	R1404	B C 2C	R1454	B C 4A
C1427	B C 2C	C1473	B C 3C	R1405	B C 2C	R1455	B C 5A
C1428	B C 2C	<b>CONNECTOR</b>				R1456	B C 5B
C1429	A D 3C	CN1401	A D 5A	R1406	B C 2D	R1459	B C 4B
C1430	B C 4E	<b>DIODE</b>				R1470	B C 1D
C1432	B C 3D	D1401	A D 5A	R1408	B C 2D	R1461	B C 5B
C1433	B C 3D	D1402	A D 6C	R1410	B C 2D	R1462	B C 5B
C1434	B C 3D	D1403	B C 3C	R1411	B C 2B	R1463	B C 4B
C1435	B C 3D	D1404	B C 2E	R1412	B C 2B	VR1401	A D 1E
C1436	B C 3C	<b>IC</b>				<b>OTHER</b>	
C1437	B C 3C	IC1401	B C 4D	R1413	B C 1B	LC1401	A D 4A
C1438	B C 3C	<b>COIL</b>				LC1402	A D 2A
C1439	B C 3C	L1401	A D 5B	R1414	B C 3B		
C1440	B C 3C	L1402	A D 2C	R1415	B C 3D		
C1441	B C 3B	L1403	A D 2B	R1416	B C 3B		
C1442	B C 3B	L1404	A D 5C	R1417	B C 4B		
C1443	B C 4B	L1405	A D 4B	R1418	B C 3B		
C1444	B C 3B	L1406	A D 2C	R1421	B C 5B		
C1445	B C 4C			R1425	B C 5C		
				R1426	B C 5C		
				R1427	B C 2D		
				R1428	B C 2D		

### <15> S-SUB LPB10103-001A

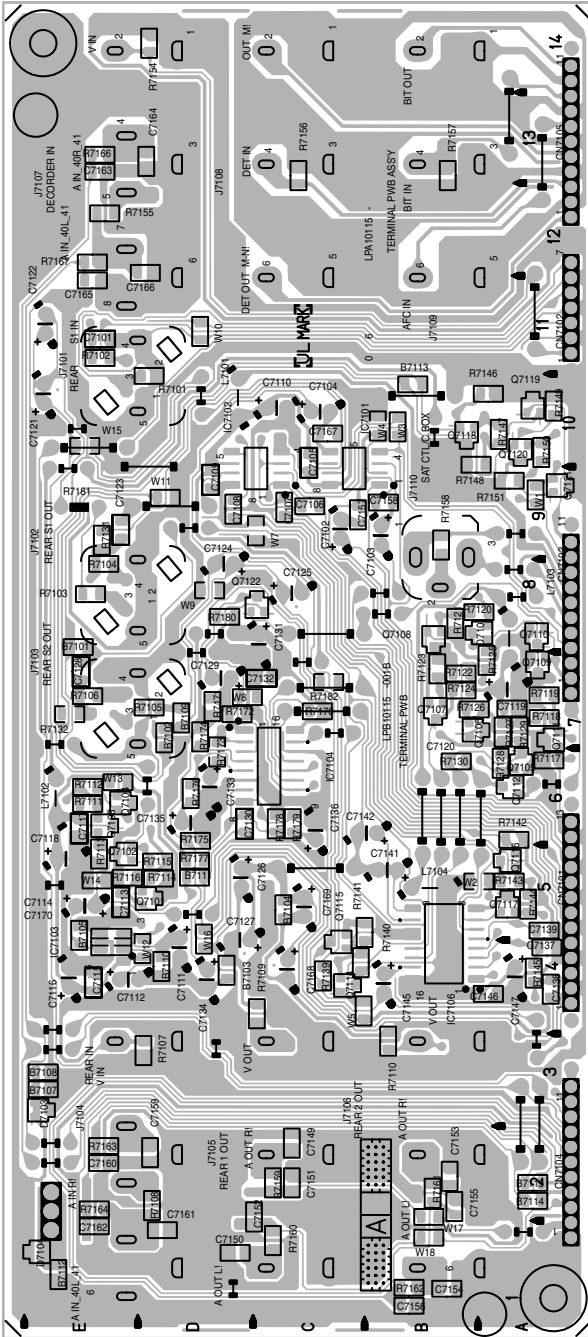


### COMPONENT PARTS LOCATION GUIDE <S-SUB>

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

## 4.23 TERMINAL CIRCUIT BOARD

### <06> TERMINAL LPB10114-001C



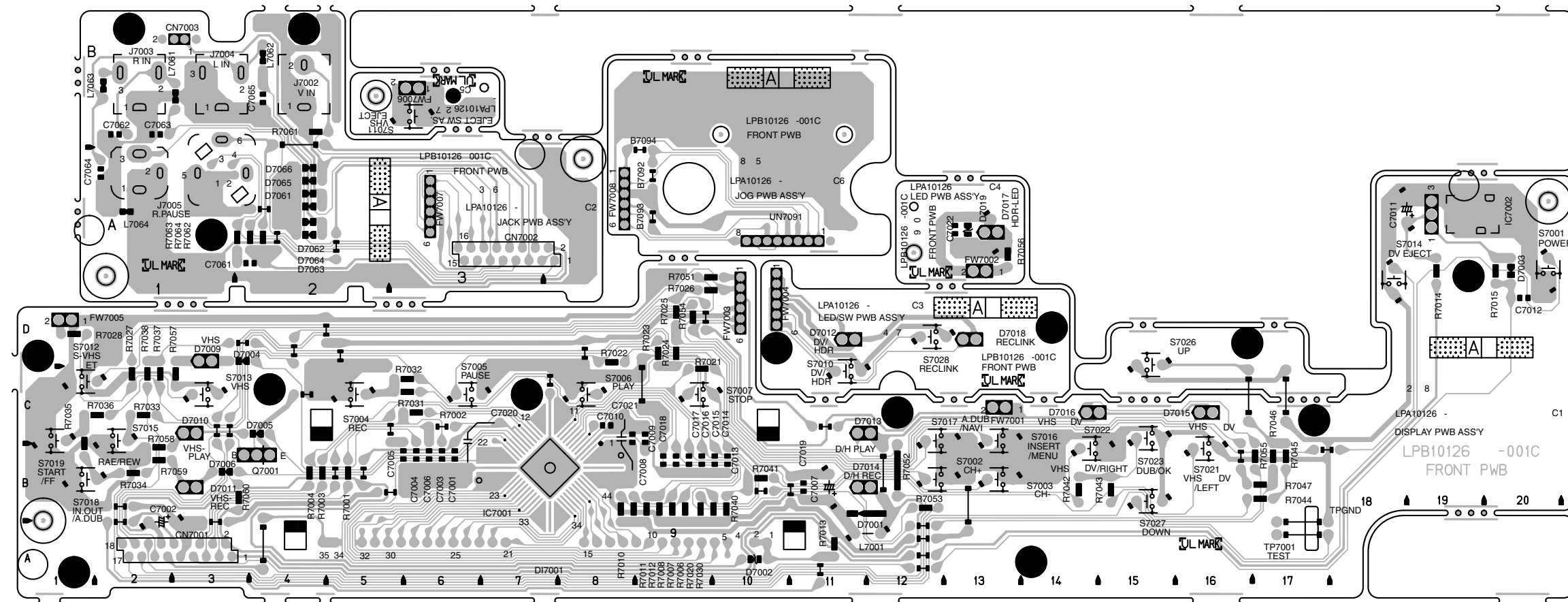
## COMPONENT PARTS LOCATION GUIDE

### <TERMINAL>

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
<b>CAPACITOR</b>		<b>CONNECTOR</b>		R7111	B C 6E
C7101	B C 10E	CN7101	A D 4A	R7112	B C 6E
C7102	A D 8C	CN7102	A D 10A	R7113	B C 5E
C7103	A D 8B	CN7103	A D 7A	R7114	B C 5D
C7104	A D 10C	CN7104	A D 1A	R7115	B C 5D
C7105	B C 9C	CN7105	A D 11A	R7116	B C 5E
C7106	B C 9C	<b>DIODE</b>		R7117	B C 6A
C7107	B C 9C	D7101	B C 7A	R7118	B C 7A
C7108	B C 9D	D7103	B C 3E	R7119	B C 7A
C7109	B C 9D	D7104	B C 1E	R7120	B C 8A
C7110	A D 10C	<b>IC</b>		R7121	B C 7B
C7111	A D 4D	IC7101	B C 9C	R7122	B C 7B
C7112	A D 4E	IC7102	B C 9C	R7123	B C 7B
C7113	B C 5E	IC7103	B C 4E	R7124	B C 7B
C7114	A D 5E	IC7104	B C 6C	R7125	B C 7A
C7115	B C 4E	IC7106	B C 4B	R7126	B C 7B
C7116	A D 4E	<b>JACK</b>		R7127	B C 6A
C7117	B C 5E	J7101	A D 10E	R7128	B C 6A
C7118	A D 5E	J7102	A D 8E	R7129	B C 6A
C7119	B C 7A	J7103	A D 7E	R7130	B C 6B
C7120	A D 7A	J7104	A D 2E	R7131	B C 8E
C7121	A D 10E	J7105	A D 2C	R7132	B C 7E
C7122	A D 10E	J7106	A D 2B	R7139	B C 4C
C7123	B C 8E	J7107	A D 12E	R7140	B C 4C
C7124	A D 8D	J7108	A D 12C	R7141	B C 4C
C7125	A D 8C	J7109	A D 12B	R7142	B C 5A
C7126	A D 5D	J7110	A D 8B	R7143	B C 5A
C7127	A D 4D	<b>COIL</b>		R7144	B C 5A
C7128	B C 7E	L7101	A D 10D	R7145	B C 4A
C7129	A D 7D	L7102	A D 6E	R7146	B C 10A
C7130	B C 6D	L7103	A D 8A	R7147	B C 9A
C7131	A D 7C	L7104	A D 5B	R7148	B C 9B
C7132	B C 7C	<b>TRANSISTOR</b>		R7149	B C 10A
C7133	A D 6D	Q7101	B C 5D	R7150	B C 9A
C7134	A D 4D	Q7102	B C 5E	R7151	B C 9A
C7135	A D 6D	Q7103	B C 6E	R7154	B C 13D
C7136	A D 5C	Q7104	B C 6E	R7155	B C 12E
C7137	B C 4A	Q7105	B C 6A	R7156	B C 12C
C7138	B C 4A	Q7106	B C 6B	R7157	B C 12B
C7139	B C 4A	Q7107	B C 7B	R7158	B C 8B
C7141	A D 5B	Q7108	B C 7B	R7159	B C 2C
C7142	A D 5B	Q7109	B C 7A	R7160	B C 1C
C7145	A D 4B	Q7110	B C 7A	R7161	B C 2B
C7146	B C 4A	Q7111	B C 6A	R7162	B C 1B
C7147	A D 4A	Q7112	B C 6A	R7163	B C 2E
C7149	B C 2C	Q7114	B C 4C	R7164	B C 2E
C7150	B C 1D	Q7115	B C 4C	R7166	B C 12E
C7151	B C 2C	Q7116	B C 5A	R7167	B C 11E
C7152	B C 2C	Q7117	B C 5A	R7170	B C 7C
C7153	B C 2B	Q7118	B C 9B	R7171	B C 7D
C7154	B C 1B	Q7119	B C 10A	R7172	B C 7D
C7155	B C 2B	Q7120	B C 9A	R7173	B C 6D
C7156	B C 1B	Q7121	B C 9A	R7174	B C 6D
C7157	B C 9C	Q7122	B C 8C	R7175	B C 5D
C7158	B C 9B	<b>RESISTOR</b>		R7176	B C 6D
C7159	B C 2D	R7101	B C 10D	R7177	B C 5D
C7160	B C 2E	R7102	B C 10E	R7178	B C 6C
C7161	B C 2D	R7103	B C 8E	R7179	B C 6C
C7162	B C 2E	R7104	B C 8E	R7180	B C 8D
C7163	B C 12E	R7105	B C 7D	R7181	A D 9E
C7164	B C 12D	R7106	B C 7E	R7182	B C 7C
C7165	B C 11E	R7107	B C 3D		
C7166	B C 11D	R7108	B C 2D		
C7167	B C 9C	R7109	B C 4C		
C7168	A D 4C	R7110	B C 3B		
C7169	A D 5C				
C7170	A D 5E				

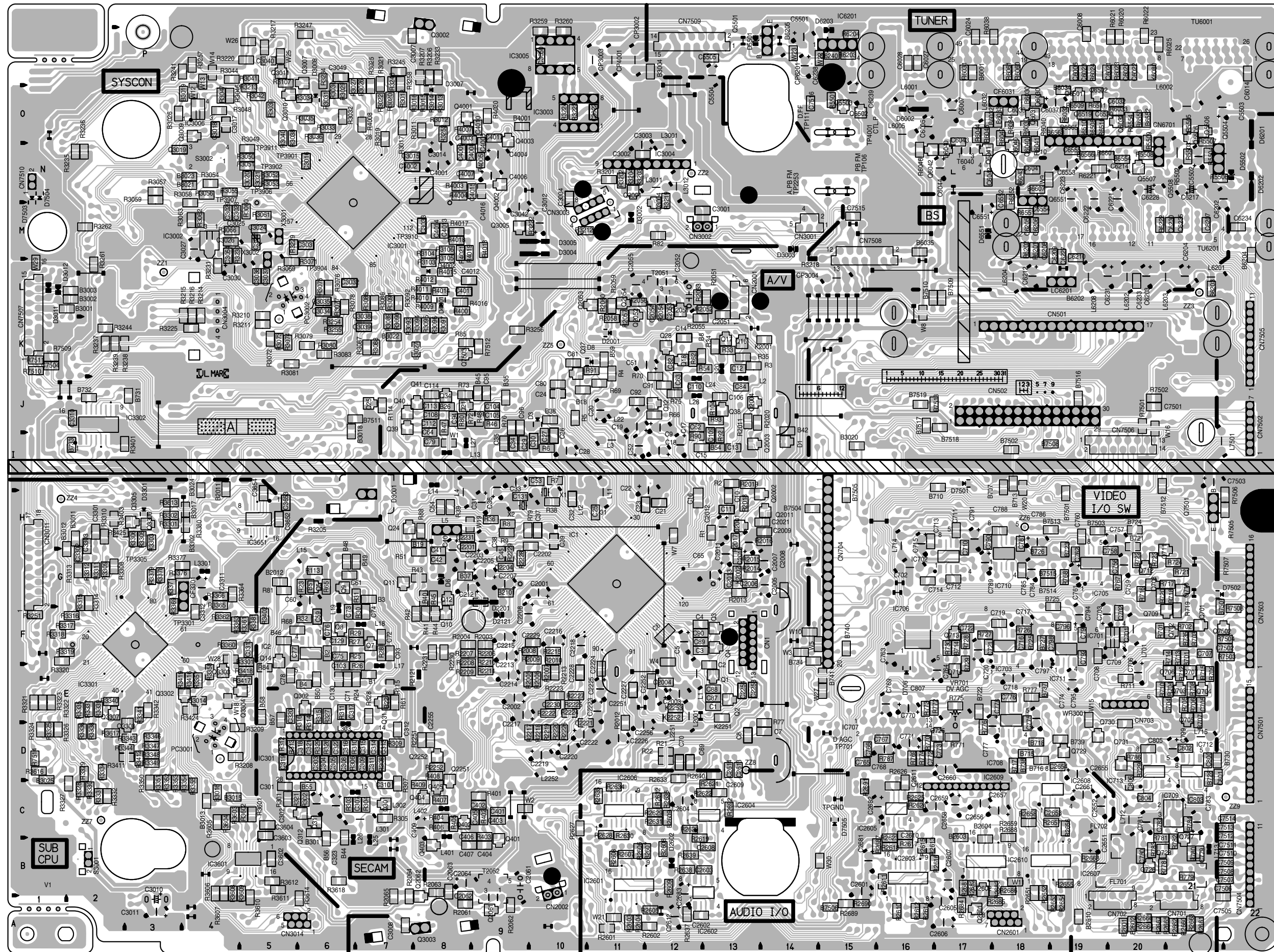
4.24 EJECT SW, DISPLAY, LED SW, JACK AND LED CIRCUIT BOARDS

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4.25 MAIN CIRCUIT BOARD

<03> MAIN  
LPB10113-001D



COMPONENT PARTS LOCATION GUIDE <MAIN>

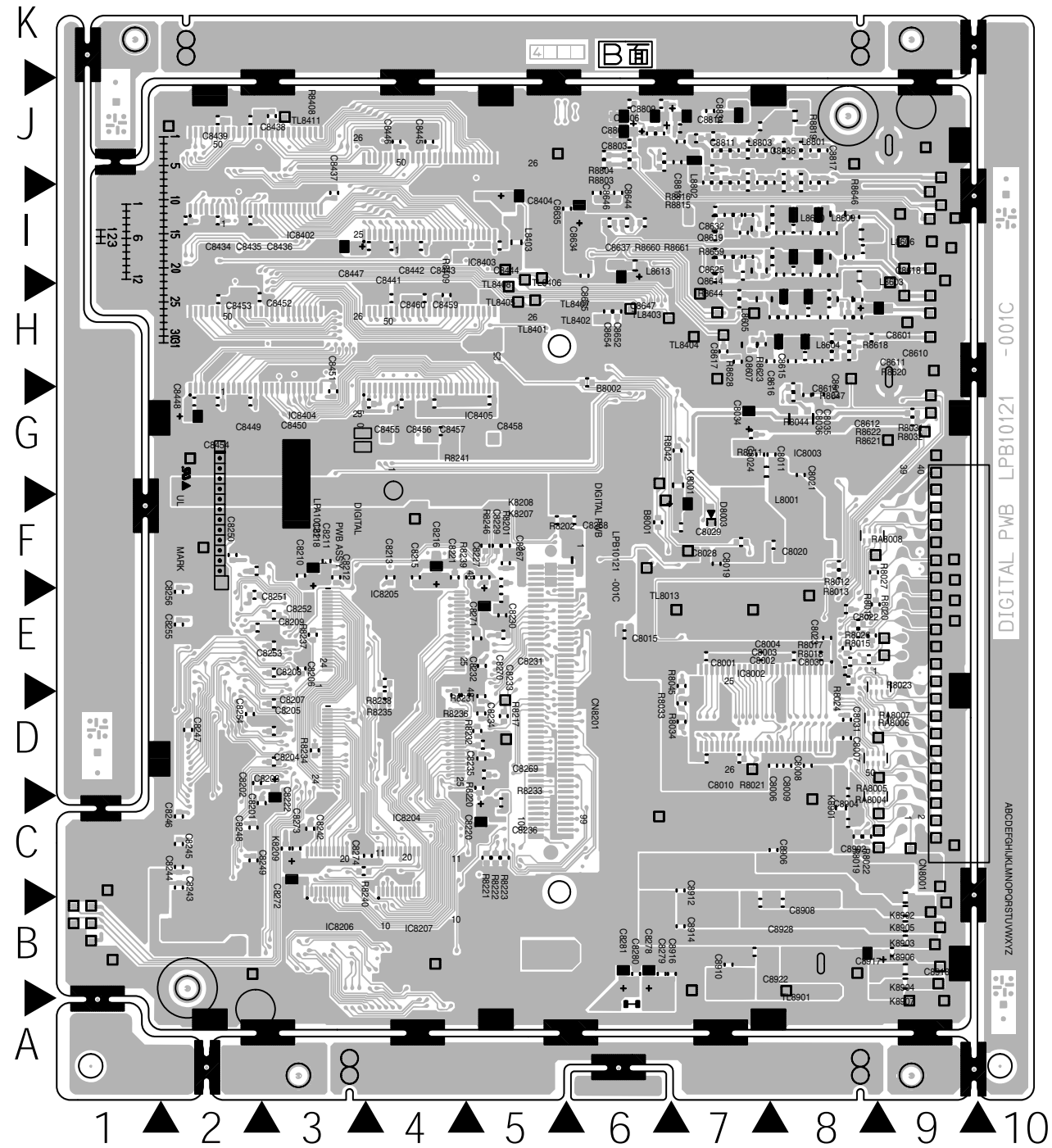
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<b>CAPACITOR</b>																	
C1	B C	C13E	C713	B C	C16H	C852	A D	C19C	C850	A D	C18O	L15	A D	6G	Q5504	A D	21H
C2	B C	C13E	C714	B C	C16H	C853	A D	C19C	C851	A D	C18M	L17	A D	7E	Q5505	A D	21G
C3	B C	C12F	C715	B C	C16H	C854	A D	C19D	C852	A D	C18N	L18	A D	7F	Q5506	A D	21H
C4	B C	C12F	C716	B C	C16H	C855	A D	C19E	C853	A D	C18O	L19	A D	8G	Q5507	A D	21I
C5	B C	C12F	C717	B C	C16H	C856	A D	C19F	C854	A D	C18P	L20	A D	9H	Q5508	A D	21J
C6	B C	C12F	C718	B C	C16H	C857	A D	C19G	C855	A D	C18Q	L21	A D	10I	Q5509	A D	21K
C7	B C	C12F	C719	B C	C16H	C858	A D	C19H	C856	A D	C18R	L22	A D	11J	Q5510	A D	21L
C8	B C	C12D	C720	B C	C16H	C859	A D	C19I	C857	A D	C18S	L23	A D	12K	Q5511	A D	21M
C9	B C	C12D	C721	B C	C16H	C860	A D	C19J	C858	A D	C18T	L24	A D	13L	Q5512	A D	21N
C10	B C	C13H	C722	B C	C16H	C861	A D	C19K	C859	A D	C18U	L25	A D	14M	Q5513	A D	21O
C11	B C	C13H	C723	B C	C16H	C862	A D	C19L	C860	A D	C18V	L26	A D	15N	Q5514	A D	21P
C12	B C	C13K	C724	B C	C16H	C863	A D	C19M	C861	A D	C18W	L27	A D	16O	Q5515	A D	21Q
C13	B C	C13K	C725	B C	C16H	C864	A D	C19N	C862	A D	C18X	L28	A D	17P	Q5516	A D	21R
C14	B C	C12K	C726	B C	C16H	C865	A D	C19O	C863	A D	C18Y	L29	A D	18Q	Q5517	A D	21S
C15	B C	C12I	C727	B C	C16H	C866	A D	C19P	C864	A D	C18Z	L30	A D	19R	Q5518	A D	21T
C16	B C	C12H	C728	B C	C16H	C867	A D	C19Q	C865	A D	C18A	L31	A D	20S	Q5519	A D	21U
C17	B C	C12I	C729	B C	C16H	C868	A D	C19R	C866	A D	C18B	L32	A D	21V	Q5520	A D	21V
C18	B C	C12I	C730	B C	C16H	C869	A D	C19S	C867	A D	C18C	L33	A D	22W	Q5521	A D	21W
C19	B C	C12I	C731	B C	C16H	C870	A D	C19T	C868	A D	C18D	L34	A D	23X	Q5522	A D	21X
C20	B C	C12I	C732	B C	C16H	C871	A D	C19U	C869	A D	C18E	L35	A D	24Y	Q5523	A D	21Y
C21	B C	C12H	C733	B C	C16H	C872	A D	C19V	C870	A D	C18F	L36	A D	25Z	Q5524	A D	21Z
C22	B C	C12H	C734	B C	C16H	C873	A D	C19W	C871	A D	C18G	L37	A D	26AA	Q5525	A D	21AA
C23	B C	C12H	C735	B C	C16H	C874	A D	C19X	C872	A D	C18H	L38	A D	27AB	Q5526	A D	21AB
C24	B C	C12H	C736	B C	C16H	C875	A D	C19Y	C873	A D	C18I	L39	A D	28AC	Q5527	A D	21AC
C25	B C	C12H	C737	B C	C16H	C876	A D	C19Z	C874	A D	C18J	L40	A D	29AD	Q5528	A D	21AD
C26	B C	C12H	C738	B C	C16H	C877	A D	C20A	C875	A D	C18K	L41	A D	30AE	Q5529	A D	21AE
C27	B C	C12H	C739	B C	C16H	C878	A D	C20B	C876	A D	C18L	L42	A D	31AF	Q5530	A D	21AF
C28	B C	C12H	C740	B C	C16H	C879	A D	C20C	C877	A D	C18M	L43	A D	32AG	Q5531	A D	21AG
C29	B C	C12H	C741	B C	C16H	C880	A D	C20D	C878	A D	C18N	L44	A D	33AH	Q5532	A D	21AH
C30	B C	C12H	C742	B C	C16H	C881	A D	C20E	C879	A D	C18O	L45	A D	34AI	Q5533	A D	21AI
C31	B C	C12H	C743	B C	C16H	C882	A D	C20F	C880	A D	C18P	L46	A D	35AJ	Q5534	A D	21AJ
C32	B C	C12H	C744	B C	C16H	C883	A D	C20G	C881	A D	C18Q	L47	A D	36AK	Q5535	A D	21AK
C33	B C	C12H	C745	B C	C16H	C884	A D	C20H	C882	A D	C18R	L48	A D	37AL	Q5536	A D	21AL
C34	B C	C12H	C746	B C	C16H	C885	A D	C20I	C883	A D	C18S	L49	A D	38AM	Q5537	A D	21AM
C35	B C	C12H	C747	B C	C16H	C886	A D	C20J	C884	A D	C18T	L50	A D	39AN	Q5538	A D	21AN
C36	B C	C12H	C748	B C	C16H	C887	A D	C20K	C885	A D	C18U	L51	A D	40AO	Q5539	A D	21AO
C37	B C	C12H	C749	B C	C16H	C888	A D	C20L	C886	A D	C18V	L52	A D	41AP	Q5540	A D	21AP
C38	B C	C12H	C750	B C	C16H	C889	A D	C20M	C887	A D	C18W	L53	A D	42AQ	Q5541	A D	21AQ
C39	B C	C12H	C751	B C	C16H	C890	A D	C20N	C888	A D	C18X	L54	A D	43AR	Q5542	A D	21AR
C40	B C	C12H	C752	B C	C16H	C891	A D	C20O	C889	A D	C18Y	L55	A D	44AS	Q5543	A D	21AS
C41	B C	C12H	C753	B C	C16H	C892	A D	C20P	C890	A D	C18Z	L56	A D	45AT	Q5544	A D	21AT
C42	B C	C12H	C754	B C	C16H	C893	A D	C20Q	C891	A D	C18A	L57	A D	46AU	Q5545	A D	21AU
C43	B C	C12H	C755	B C	C16H	C894	A D	C20R	C892	A D	C18B	L58	A D	47AV	Q5546	A D	21AV
C44	B C	C12H	C756	B C	C16H	C895	A D	C20S	C893	A D	C18C	L59	A D	48AW	Q5547	A D	21AW
C45	B C	C12H	C757	B C	C16H	C896	A D	C20T	C894	A D	C18D	L60	A D	49AX	Q5548	A D	21AX
C46	B C	C12H	C758	B C	C16H	C897	A D	C20U	C895	A D	C18E	L61	A D	50AY	Q5549	A D	21AY
C47	B C	C12H	C759	B C	C16H	C898	A D	C20V	C896	A D	C18F	L62	A D	51AZ	Q5550	A D	21AZ
C48	B C	C12H	C760	B C	C16H	C899	A D	C20W	C897	A D	C18G	L63	A D	52BA	Q5551	A D	21BA
C49	B C	C12H	C761	B C	C16H	C900	A D	C20X	C898	A D	C18H	L64	A D	53BB	Q5552	A D	21BA
C50	B C	C12H	C762	B C	C16H	C901	A D	C20Y	C899	A D	C18I	L65	A D	54BC	Q5553	A D	21BB
C51	B C	C12H	C763	B C	C16H	C902	A D	C20Z	C900	A D	C18J	L66	A D	55BD	Q5554	A D	21BB
C52	B C	C12H	C764	B C	C16H	C903	A D	C21A	C901	A D	C18K	L67	A D	56BE	Q5555	A D	21BB
C53	B C	C12H	C765	B C	C16H	C904	A D	C21B	C902	A D	C18L	L68	A D	57BF	Q5556	A D	21BB
C54	B C	C12H	C766	B C	C16H	C905	A D	C21C	C903	A D	C18M	L69	A D	58BG	Q5557	A D	21BB
C55	B C	C12H	C767	B C	C16H	C906	A D	C21D	C904	A D	C18N	L70	A D	59BH	Q5558	A D	21BB
C56	B C	C12H	C768	B C	C16H	C907	A D	C21E	C905	A D	C18O	L71	A D	60BI	Q5559	A D	21BB
C57	B C	C12H	C769	B C	C16H	C908	A D	C21F	C906	A D	C18P	L72	A D	61BJ	Q5560	A D	21BB
C58	B C	C12H	C770	B C	C16H	C909	A D	C21G	C907	A D	C18Q	L73	A D	62BK	Q5561	A D	21BB
C59	B C	C12H	C771	B C	C16H	C910	A D	C21H	C908	A D	C18R	L74	A D	63BL	Q5562	A D	21BB
C60	B C	C12H	C772	B C	C16H	C911	A D	C21I	C909	A D	C18S	L75	A D	64BM	Q5563	A D	21BB
C61	B C	C12H	C773	B C	C16H	C912	A D	C21J	C910	A D	C18T	L76	A D	65BN	Q5564	A D	21BB
C62	B C	C12H	C774	B C	C16H	C913	A D	C21K	C911	A D	C18U	L77	A D	66BO	Q5565	A D	21BB
C63	B C	C12H	C775	B C	C16H	C914	A D	C21L	C912	A D	C18V	L78	A D	67BP	Q5566	A D	21BB
C64	B C	C12H	C776	B C	C16H	C915	A D	C21M	C913	A D	C18W	L79	A D	68BQ	Q5567	A D	21BB
C65	B C	C12H	C777	B C	C16H	C916	A D	C21N	C914	A D	C18X	L80	A D	69BR	Q5568	A D	21BB
C66	B C	C12H	C778	B C	C16H	C917	A D	C21O	C915	A D	C18Y	L81	A D	70BS	Q5569	A D	21BB
C67	B C	C12H	C779	B C	C16H	C918	A D	C21P	C916	A D	C18Z	L82	A D	71BT	Q5570	A D	21BB
C68	B C	C12H	C780	B C	C16H	C919	A D	C21Q	C917	A D	C18A	L83	A D	72BU	Q5571	A D	21BB
C69	B C	C12H	C781	B C	C16H	C920	A D	C21R	C918	A D	C18B	L84	A D	73BV	Q5572	A D	21BB
C70	B C	C12H	C782	B C	C16H	C921	A D	C21S	C919	A D	C18C	L85	A D	74BW	Q5573	A D	21BB
C71	B C	C12H	C783	B C	C16H	C922	A D	C21T	C920	A D	C18D	L86	A D	75BX	Q5574	A D	21BB
C72	B C	C12H	C784	B C	C16H	C923	A D	C21U	C921	A D	C18E	L87	A D	76BY	Q5575	A D	21BB
C73	B C	C12H	C785	B C	C16H	C924	A D	C21V	C922	A D	C18F	L88	A D	77BZ	Q5576	A D	21BB
C74	B C	C12H	C786	B C	C16H	C925	A D	C21W	C923	A D	C18G	L89	A D	78BB	Q5577	A D	21BB
C75	B C	C12H	C787	B C	C16H	C926	A D	C21X	C924	A D	C18H	L90	A D	79BC	Q5578	A D	21BB
C76	B C	C12H	C788	B C	C16H	C927	A D	C21Y	C925	A D	C18I	L91	A D	80BD	Q5579	A D	21BB
C77	B C	C12H	C789	B C	C16H	C928	A D	C21Z	C926	A D	C18J	L92	A D	81BE	Q5580	A D	21BB
C78	B C	C12H	C790	B C	C16H</												



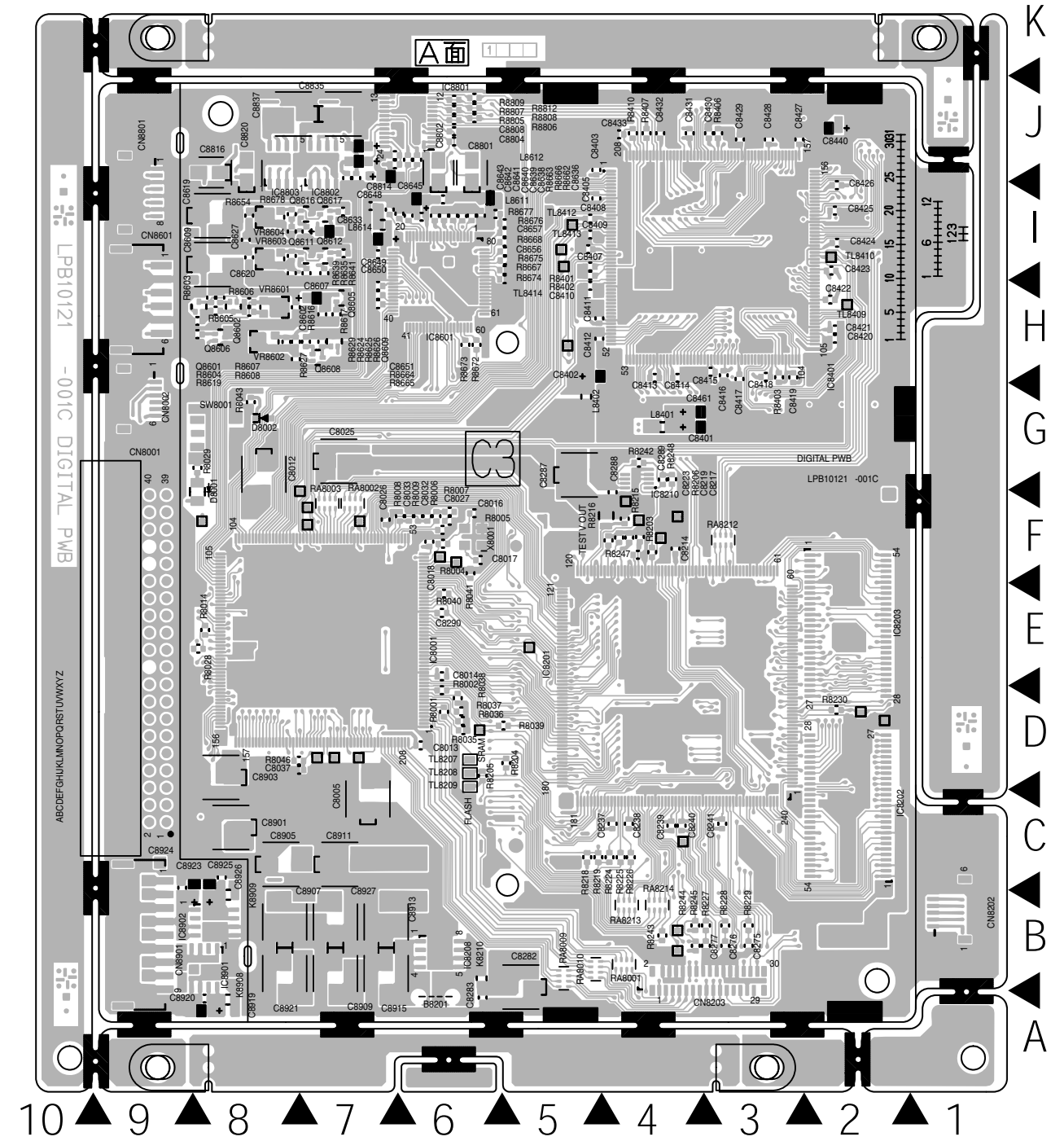
4.27 DIGITAL CIRCUIT BOARD

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— FOIL SIDE(B)—



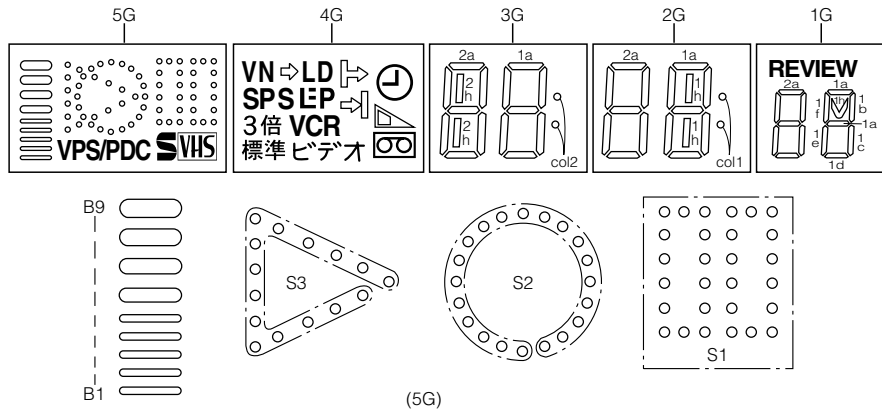
— COMPONENT SIDE(A)—



**COMPONENT PARTS LOCATION GUIDE <DIGITAL>**

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<b>CAPACITOR</b>															
C8001	B C 7E	C8272	B C 3C	C8620	A C 8I	C8922	B C 7B	R8007	A C 6F	R8610	B C 8H	VR8601	A C 8H		
C8002	B C 7E	C8273	B C 3C	C8621	B C 8I	C8923	A C 9C	R8008	A C 6F	R8611	B C 8H	VR8602	A C 8H		
C8003	B C 8E	C8274	B C 4C	C8622	B C 8I	C8924	A C 9C	R8009	A C 6F	R8612	B C 8H	VR8603	A C 8I		
C8004	B C 8E	C8275	A C 3B	C8623	B C 8I	C8925	A C 8C	R8010	B C 7G	R8613	B C 7H	VR8604	A C 8I		
C8005	A C 7C	C8276	A C 3B	C8624	B C 8I	C8926	A C 8C	R8012	B C 8F	R8616	A C 7H	<b>RESISTOR ARRAY</b>			
C8006	B C 8D	C8277	A C 3B	C8625	B C 7I	C8927	A C 7B	R8013	B C 8F	R8617	A C 7H	RA8001	A C 4B		
C8007	B C 8D	C8278	B C 6B	C8626	B C 7I	C8928	B C 7B	R8014	A C 8E	R8618	B C 8H	RA8002	A C 7F		
C8008	B C 8D	C8279	B C 6B	C8627	A C 8I	<b>CONNECTOR</b>		R8015	B C 8E	R8619	A C 8H	RA8003	A C 7F		
C8009	B C 8D	C8280	B C 6B	C8628	B C 8I	CN8001	A D 9C	R8016	B C 8E	R8620	B C 8H	RA8004	B C 9C		
C8010	B C 7D	C8281	B C 6B	C8629	B C 8I	CN8002	A C 9G	R8017	B C 8E	R8621	B C 8H	RA8005	B C 9C		
C8011	B C 7G	C8282	A C 5B	C8630	B C 8I	CN8201	B C 5D	R8018	B C 8E	R8622	B C 8H	RA8006	B C 9D		
C8012	A C 8G	C8283	A C 6A	C8631	B C 8I	CN8202	A C 1B	R8019	B C 8C	R8623	B C 7H	RA8007	B C 9E		
C8013	A C 6D	C8287	A C 5G	C8632	B C 7I	CN8203	A C 4B	R8020	B C 9E	R8624	A C 8H	RA8008	B C 8F		
C8014	A C 6E	C8288	A C 4F	C8633	A C 7I	CN8601	A C 9I	R8021	B C 7D	R8625	A C 7H	RA8009	A C 5B		
C8015	A C 6E	C8289	A C 4G	C8634	B C 6I	CN8801	A C 9I	R8022	B C 8C	R8626	A C 7H	RA8010	A C 5B		
C8016	A C 6F	C8290	A C 6E	C8635	B C 5I	CN8901	A C 9C	R8023	B C 8E	R8627	A C 8H	RA8212	A C 3F		
C8017	A C 6F	C8401	A C 4G	C8636	A C 6I	<b>DIODE</b>		R8024	B C 8E	R8628	A C 7H	RA8213	A C 4B		
C8018	A C 6F	C8402	A C 5H	C8637	B C 6I	D8001	A C 8F	R8026	B C 8E	R8629	A C 8H				
C8019	B C 7F	C8403	A C 5J	C8638	A C 6I	D8002	A C 8G	R8027	B C 9F	R8631	B C 8I	<b>OTHER</b>			
C8020	B C 8F	C8404	B C 5I	C8639	A C 6I	D8003	B C 7F	R8028	A C 8E	R8632	B C 8I	K8001	B C 7G		
C8021	B C 8G	C8405	A C 5I	C8640	A C 6I	<b>IC</b>		R8029	A C 8G	R8633	B C 8I	K8207	B C 5E		
C8022	B C 8E	C8407	A C 5I	C8641	A C 6I	IC8001	A C 7E	R8031	B C 9G	R8634	B C 8I	K8208	B C 5F		
C8023	B C 8E	C8408	A C 5I	C8642	A C 6I	IC8002	B C 7D	R8032	B C 9G	R8635	A C 7I	K8209	B C 3C		
C8024	B C 7G	C8409	A C 5I	C8643	A C 7I	IC8003	B C 8G	R8033	B C 7D	R8636	A C 7I	K8210	A C 6B		
C8025	A C 7G	C8410	A C 5H	C8644	B C 6I	IC8004	B C 8G	R8034	B C 7D	R8637	A C 8I	K8901	B C 8C		
C8026	A C 7F	C8411	A C 5H	C8645	A C 6I	IC8201	A C 4D	R8035	A C 6D	R8638	B C 7I	K8902	B C 9B		
C8027	A C 6F	C8412	A C 5H	C8646	B C 6I	IC8202	A C 2C	R8036	A C 6D	R8639	A C 8I	K8903	B C 9B		
C8028	B C 7F	C8413	A C 4H	C8647	B C 6I	IC8203	A C 2E	R8037	A C 6D	R8640	B C 7I	K8904	B C 9B		
C8029	B C 7F	C8414	A C 4H	C8648	A C 7I	IC8204	B C 4D	R8038	A C 6D	R8641	A C 7I	K8905	B C 9B		
C8030	B C 8E	C8415	A C 3H	C8649	A C 7I	IC8205	B C 4E	R8039	A C 5D	R8642	B C 7I	K8906	B C 9B		
C8031	B C 8D	C8416	A C 3H	C8650	A C 7I	IC8206	B C 3C	R8040	A C 6E	R8643	B C 7I	K8907	B C 9B		
C8032	A C 6F	C8417	A C 3H	C8651	A C 7H	IC8207	B C 4C	R8041	A C 6F	R8644	B C 8I	K8907	B C 9B		
C8033	A C 6F	C8418	A C 3H	C8652	B C 6H	IC8208	A C 6B	R8042	B C 7G	R8647	B C 8I	K8908	A C 8A		
C8034	B C 7G	C8419	A C 3H	C8653	B C 6H	IC8210	A C 4G	R8043	A C 8G	R8648	B C 8I	K8909	A C 8B		
C8035	B C 8G	C8420	A C 2H	C8654	B C 6I	IC8401	A C 3I	R8044	B C 8G	R8649	B C 8I	PC0177	A C 10A		
C8036	B C 8G	C8421	A C 2H	C8655	A C 5I	IC8402	B C 2J	R8045	B C 7E	R8650	A C 7I	PC0179	A C 1J		
C8037	A C 7D	C8422	A C 2H	C8656	A C 5I	IC8403	B C 4I	R8046	A C 7D	R8651	A C 7I	PC0180	A C 1J		
C8201	B C 3C	C8423	A C 2I	C8801	A C 6J	IC8404	B C 2H	R8047	B C 8G	R8652	A C 8I	PC0248	A C 10A		
C8202	B C 2D	C8424	A C 2I	C8802	A C 6J	IC8405	B C 4H	R8201	B C 5F	R8653	B C 7I	SW8001	A C 8G		
C8203	B C 3D	C8425	A C 2I	C8803	B C 6J	IC8601	A C 6H	R8202	B C 5F	R8654	A C 8I	TL8001	A C 6F		
C8204	B C 3D	C8426	A C 2I	C8804	A C 6J	IC8801	A C 6J	R8203	A C 4F	R8655	B C 7I	TL8002	A C 6F		
C8205	B C 3D	C8427	A C 3J	C8805	B C 6J	IC8802	A C 7J	R8204	A C 5D	R8656	B C 7I	TL8003	A C 7F		
C8206	B C 3E	C8428	A C 3J	C8806	B C 6J	IC8803	A C 8J	R8205	A C 6D	R8658	B C 7I	TL8004	A C 7F		
C8207	B C 3E	C8429	A C 3J	C8807	B C 6J	IC8901	A C 8B	R8206	A C 4F	R8659	B C 7I	TL8005	A C 7F		
C8208	B C 3E	C8430	A C 3J	C8808	A C 6J	IC8902	A C 8B	R8215	A C 4F	R8660	B C 6I	TL8006	A C 8F		
C8209	B C 3E	C8431	A C 4J	C8809	B C 6J	IC8902	A C 8B	R8216	A C 4F	R8661	B C 6I	TL8007	A C 7D		
C8210	B C 3F	C8432	A C 4J	C8810	B C 6J	<b>COIL</b>		R8217	B C 5D	R8662	A C 6I	TL8008	A C 7D		
C8211	B C 3F	C8433	A C 4J	C8811	B C 7J	L8001	B C 7G	R8218	A C 5C	R8663	A C 6I	TL8009	A C 7D		
C8212	B C 3F	C8434	B C 2I	C8812	B C 7J	L8401	A C 4G	R8219	A C 5C	R8664	A C 7H	TL8010	A C 6D		
C8213	B C 4F	C8435	B C 2I	C8813	B C 7J	L8402	A C 5G	R8220	B C 5D	R8665	A C 7H	TL8011	A C 5H		
C8214	A C 4F	C8436	B C 2I	C8814	A C 7J	L8403	B C 5I	R8221	B C 5C	R8666	A C 6I	TL8012	A C 7F		
C8215	B C 4F	C8437	B C 3I	C8815	B C 7J	L8601	B C 8H	R8222	B C 5C	R8667	A C 5I	TL8013	B C 6F		
C8216	B C 4F	C8438	B C 2J	C8816	A C 8J	L8602	B C 8H	R8223	B C 5C	R8668	A C 5I	TL8201	A C 5E		
C8217	A C 4F	C8439	B C 2J	C8817	B C 8J	L8603	B C 8I	R8224	A C 4C	R8672	A C 6H	TL8202	A C 4F		
C8218	B C 3F	C8440	A C 2J	C8818	B C 8J	L8604	B C 8H	R8225	A C 4C	R8673	A C 6H	TL8203	A C 4B		
C8219	A C 4F	C8441	B C 4I	C8819	B C 8J	L8605	B C 8H	R8226	A C 4C	R8674	A C 5H	TL8204	A C 4B		
C8220	B C 5C	C8442	B C 4I	C8820	A C 8J	L8606	B C 8I	R8227	A C 3B	R8675	A C 5I	TL8205	A C 4F		
C8221	B C 4F	C8443	B C 4I	C8821	B C 8I	L8607	B C 8I	R8228	A C 3B	R8676	A C 5I	TL8207	A C 6D		
C8222	B C 3C	C8444	B C 5I	C8822	B C 8I	L8608	B C 8I	R8229	A C 3B	R8677	A C 6I	TL8208	A C 6D		
C8223	A C 4F	C8445	B C 4J	C8823	B C 8J	L8609	B C 8I	R8230	A C 2D	R8801	B C 6J	TL8209	A C 6D		
C8227	B C 5F	C8446	B C 4J	C8824	B C 7J	L8610	B C 8I	R8231	B C 5D	R8802	B C 6J	TL8211	A C 4F		
C8229	B C 5F	C8447	B C 3I	C8825	B C 7J	L8611	A C 6I	R8232	B C 5D	R8803	B C 6J	TL8212	A C 2D		
C8230	B C 5E	C8448	B C 2G	C8826	B C 7J	L8612	A C 6I	R8233	B C 5D	R8804	B C 6J	TL8213	A C 2D		
C8231	B C 5E	C8449	B C 2G	C8827	B C 7J	L8613	B C 6I	R8234	B C 3D	R8805	A C 6J	TL8214	A C 4F		
C8232	B C 5E	C8450	B C 2G	C8828	A C 7J	L8614	A C 7I	R8235	B C 4D	R8806	A C 6J	TL8215	A C 4C		
C8233	B C 5D	C8451	B C 3G	C8829	B C 7J	L8801	B C 8J	R8236	B C 4D	R8807	A C 6J	TL8401	B C 5H		
C8234	B C 5D	C8452	B C 2H	C8830	B C 7I	L8802	B C 7J	R8237	B C 3E	R8808	A C 6J	TL8402	B C 5H		
C8235	B C 5D	C8453	B C 2H	C8831	B C 7I	L8803	B C 7J	R8238	B C 4E	R8809	A C 6J	TL8403	B C 6H		
C8236	B C 5C	C8454	B C 2G	C8832	B C 7I	<b>TRANSISTOR</b>		R8239	B C 5F	R8810	B C 6J	TL8404	B C 6H		
C8237	A C 4C	C8455	B C 4G	C8833	A C 7J	Q8601	A C 8H	R8240	B C 4C	R8811	B C 6J	TL8405	B C 5H		
C8238	A C 4C	C8456	B C 4G	C8834	B C 7J	Q8602	A C 8H	R8241	B C 4G	R8812	A C 6J	TL8406	B C 5I		
C8239	A C 4C	C8457	B C 4G	C8835	A C 7J	Q8603	B C 8H	R8242	A C 4G	R8813	A C 6J	TL8407	B C 5I		
C8240	A C 4C	C8458	B C 5G	C8836	B C 7J	Q8604	B C 7H	R8243	A C 4B	R8814	A C 6J	TL8408	B C 5I		
C8241	A C 3C	C8459	B C 4H	C8837	A C 8J	Q8605	A C 7H	R8244	A C 4B	R8815	B C 6J	TL8409	A C 2H		
C8242	B C 3C	C8460	B C 4H	C8891	A C 8C	Q8606	A C 8H	R8245	A C 4B	R8816	B C 6J	TL8410	A C 2I		
C8243	B C 2C	C8461	A C 4G	C8902	B C 8C	Q8607	B C 7H	R8246	B C 5F	R8817	A C 7J	TL8411	B C 3J		
C8244	B C 2C	C8462	B C 9H	C8903	A C 8D	Q8608	A C 7H	R8247	A C 4F	R8818	A C 7J	TL8412	A C 5I		
C82															

## 4.28 FDP GRID ASSIGNMENT AND ANODE CONNECTION

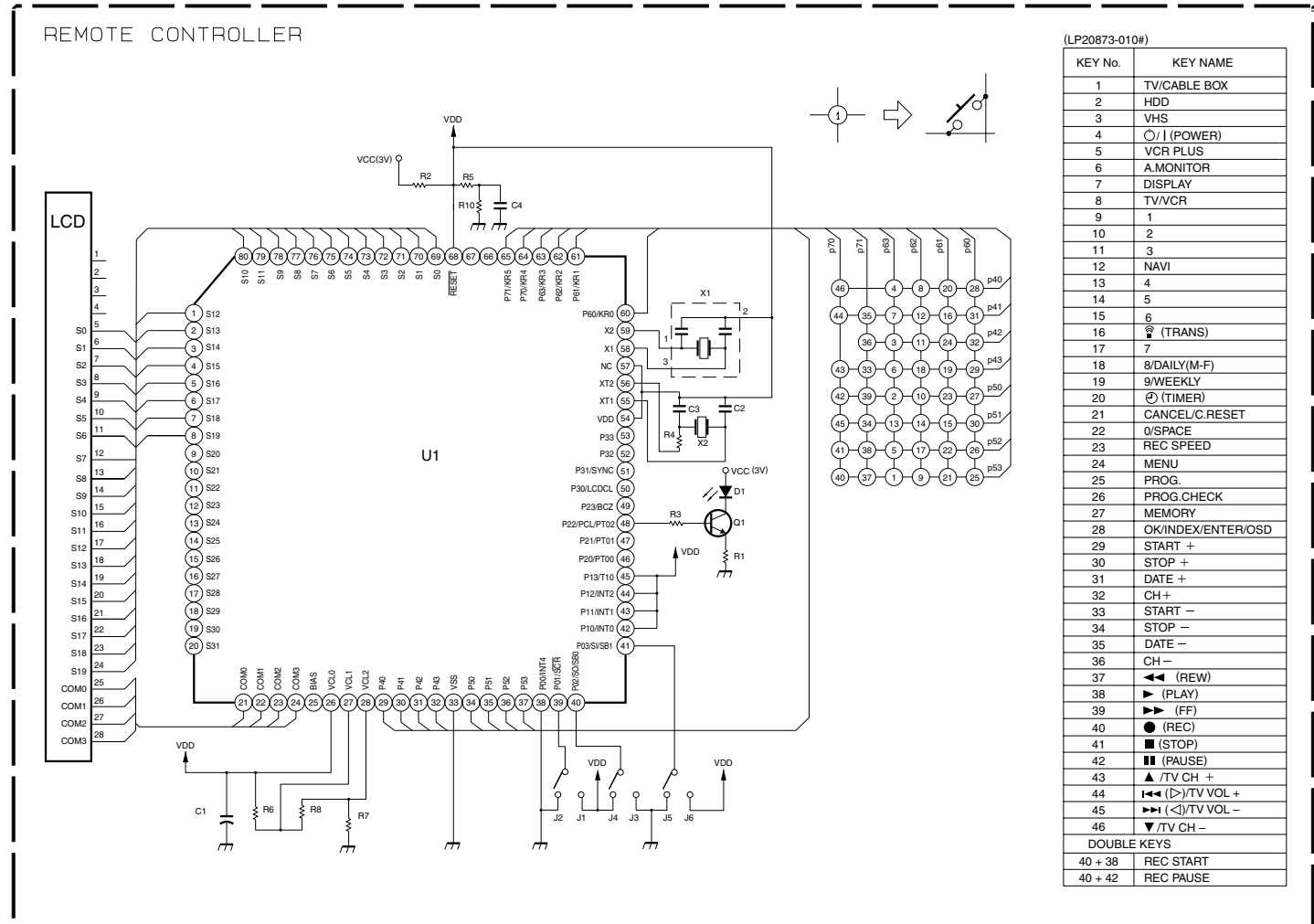


## ANODE CONNECTION

	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	↔	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

## 4.29 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.



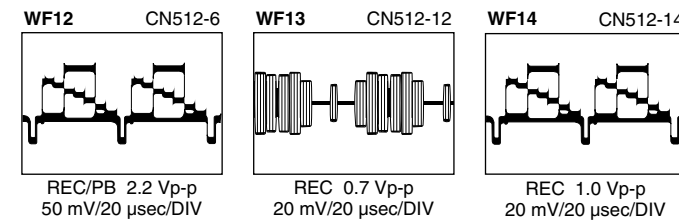
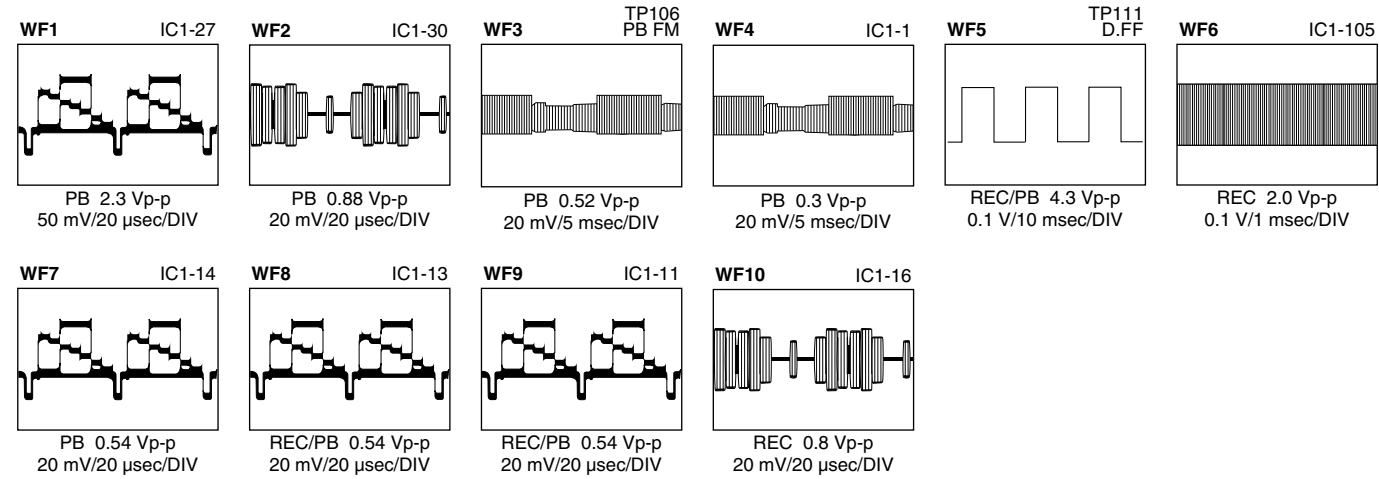
(LP20873-010#)

KEY No.	KEY NAME
1	TV/CABLE BOX
2	HDD
3	VHS
4	⊙/I (POWER)
5	VCR PLUS
6	A.MONITOR
7	DISPLAY
8	TV/VCR
9	1
10	2
11	3
12	NAVI
13	4
14	5
15	6
16	⚡ (TRANS)
17	7
18	8/DAILY(M-F)
19	9/WEEKLY
20	⊙ (TIMER)
21	CANCEL/C.RESET
22	0/SPACE
23	REC SPEED
24	MENU
25	PROG.
26	PROG.CHECK
27	MEMORY
28	OK/INDEX/ENTER/OSD
29	START +
30	STOP +
31	DATE +
32	CH +
33	START -
34	STOP -
35	DATE -
36	CH -
37	◀◀ (REW)
38	▶▶ (PLAY)
39	▶▶ (FF)
40	● (REC)
41	■ (STOP)
42	▢ (PAUSE)
43	▲ /TV CH +
44	◀ /TV VOL +
45	▶▶ /TV VOL -
46	▼ /TV CH -
DOUBLE KEYS	
40 + 38	REC START
40 + 42	REC PAUSE

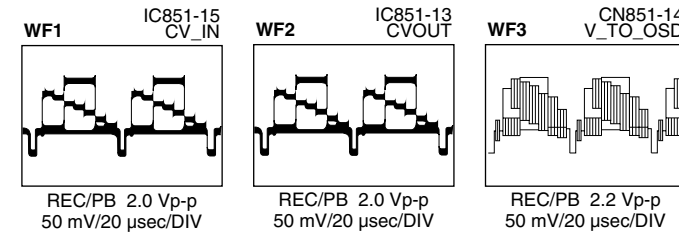


### 4.30 WAVEFORMS

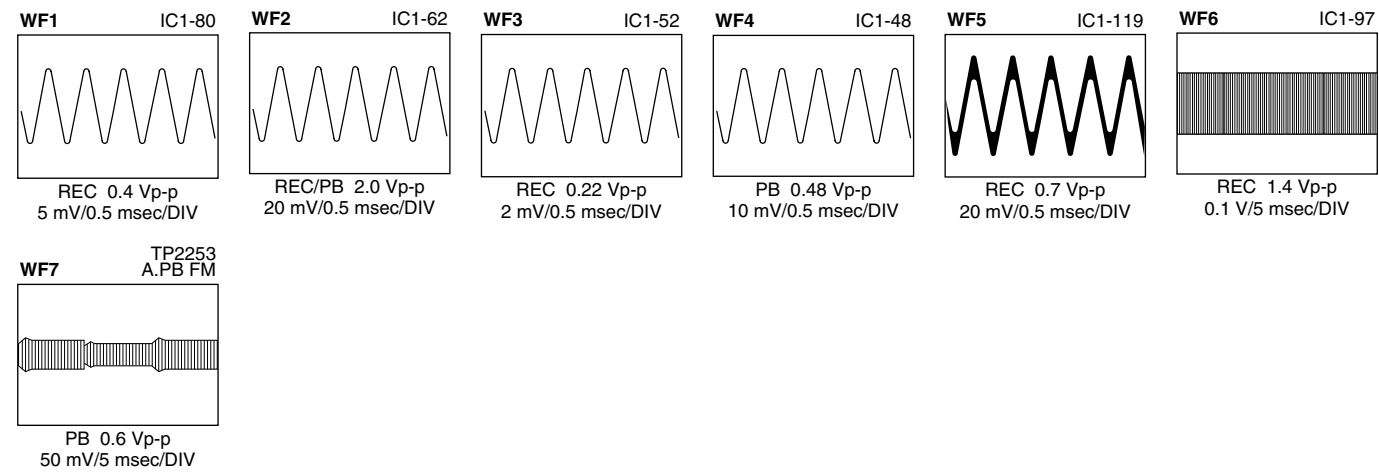
#### < VIDEO >



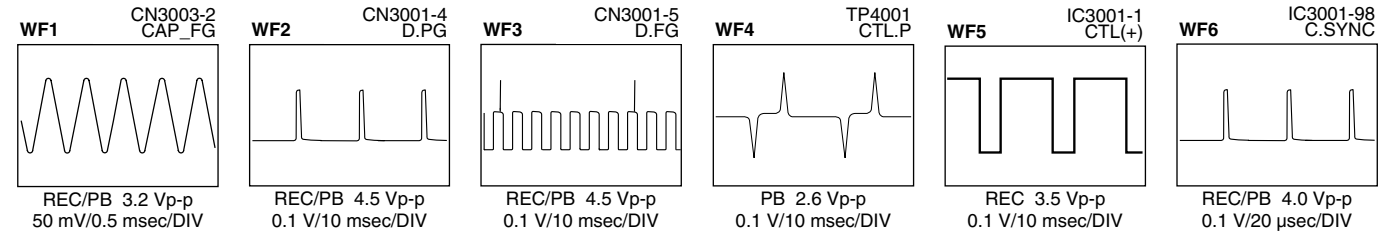
#### < ON SCREEN >



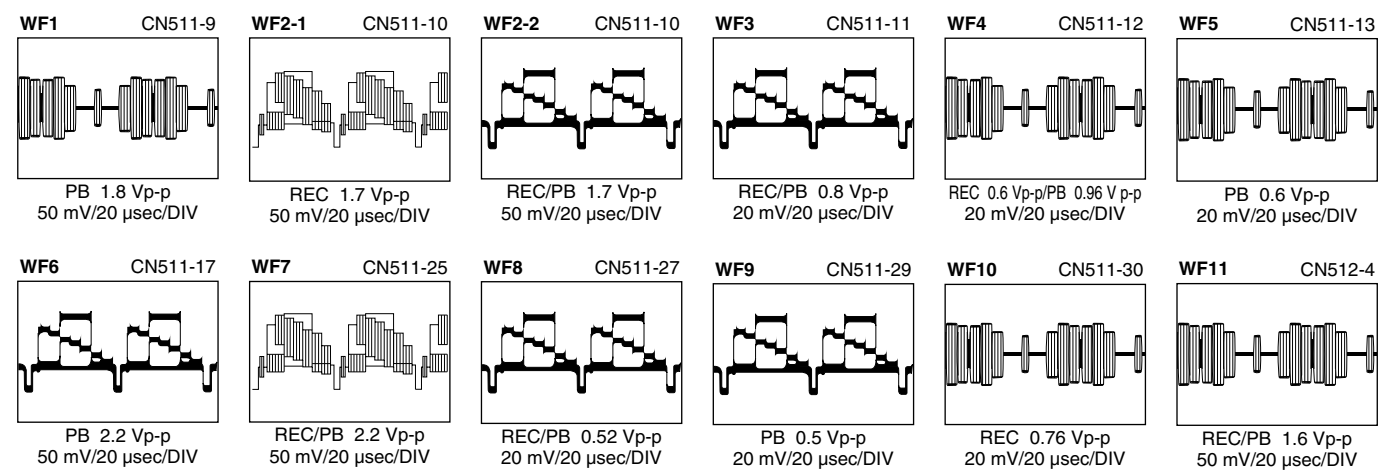
#### < AUDIO >



#### < SYSCON >



#### < S-SUB >



### 4.31 VOLTAGE CHARTS

#### <SW REGULATOR>

MODE PIN NO.	REC	PLAY
IC5101	1 0.3	0.3
2	0	0
3	133.3	133.3
4	14.6	14.6
5	0	0
IC5301	1 2.4	2.4
2	0	0
3	10.6	10.6
IC5201	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	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	19.1	19.1

MODE PIN NO.	REC	PLAY
6	0	0
7	2.4	2.4
8	2.4	2.4
9	0	0
CN5325	1 11.2	11.2
2	0	0
CN5326	1 12.2	12.2
2	0	0
3	0	0
4	5.0	5.0

#### <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	1.9	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	2.4	2.4
56	2.4	2.4
57	2.4	2.4
58	0.5	0.5
59	4.9	4.9
60	4.2	4.2
61	4.3	4.3
62	4.2	4.2
63	2.3	2.3
64	2.3	2.3
65	2.6	2.6
66	2.3	2.3
67	2.9	2.9
68	2.6	2.6
69	4.9	4.9
70	2.5	2.5
71	2.8	2.8
72	2.3	2.3
73	0	0
74	2.4	2.4
75	0.5	0.5
76	2.3	2.3
77	2.3	2.3
78	2.4	2.4
79	0.2	0.2
80	4.2	4.2
81	4.3	4.3
82	4.2	4.2
83	2.3	2.3
84	2.3	2.3
85	1.4	1.7
86	1.9	1.9
87	3.2	3.2
88	3.2	3.2
89	2.3	2.3
90	2.3	2.3
91	0	1.4
92	0	0
93	0.3	0.3
94	0.2	0.2
95	4.9	4.9
96	4.9	4.9
97	0.2	0.2
98	0.2	0.2
99	0	0
100	0	0
101	0	0
102	0	0
103	0	0
104	2.3	2.3
105	0.6	0.6
106	0	0
107	5.0	5.0
108	1.9	1.9
109	0	0
110	4.2	4.2
111	4.3	4.3
112	4.4	4.4
113	0.6	0.6
114	0	0
115	5.0	5.0
116	1.9	1.9
117	3.2	3.2
118	3.2	3.2
119	2.3	2.3
120	2.3	2.3
121	0	2.5
122	0	1.4
123	0	0
124	4.8	4.8
125	0	0
126	0	0
127	4.9	4.9
128	4.8	4.8
129	4.8	4.8
130	4.8	4.8
131	4.8	4.8
132	0	0
133	0	0
134	0	0
135	0	0
136	0	0
137	0.2	0.2
138	0.2	0.2
139	0.7	0.7
140	0	0
141	0	0
142	0	0
143	2.3	2.3
144	2.3	2.3
145	0.2	0.2
146	0.2	0.2
147	0.2	0.2
148	0.2	0.2
149	0.2	0.2
150	0.2	0.2
151	0.2	0.2
152	0.2	0.2
153	0.2	0.2
154	0.2	0.2
155	0.2	0.2
156	0.2	0.2
157	0.2	0.2
158	0.2	0.2
159	0.2	0.2
160	0.2	0.2
161	0.2	0.2
162	0.2	0.2
163	0.2	0.2
164	0.2	0.2
165	0.2	0.2
166	0.2	0.2
167	0.2	0.2
168	0.2	0.2
169	0.2	0.2
170	0.2	0.2
171	0.2	0.2
172	0.2	0.2
173	0.2	0.2
174	0.2	0.2
175	0.2	0.2
176	0.2	0.2
177	0.2	0.2
178	0.2	0.2
179	0.2	0.2
180	0.2	0.2
181	0.2	0.2
182	0.2	0.2
183	0.2	0.2
184	0.2	0.2
185	0.2	0.2
186	0.2	0.2
187	0.2	0.2
188	0.2	0.2
189	0.2	0.2
190	0.2	0.2
191	0.2	0.2
192	0.2	0.2
193	0.2	0.2
194	0.2	0.2
195	0.2	0.2
196	0.2	0.2
197	0.2	0.2
198	0.2	0.2
199	0.2	0.2
200	0.2	0.2
201	0.2	0.2
202	0.2	0.2
203	0.2	0.2
204	0.2	0.2
205	0.2	0.2
206	0.2	0.2
207	0.2	0.2
208	0.2	0.2
209	0.2	0.2
210	0.2	0.2
211	0.2	0.2
212	0.2	0.2
213	0.2	0.2
214	0.2	0.2
215	0.2	0.2
216	0.2	0.2
217	0.2	0.2
218	0.2	0.2
219	0.2	0.2
220	0.2	0.2
221	0.2	0.2
222	0.2	0.2
223	0.2	0.2
224	0.2	0.2
225	0.2	0.2
226	0.2	0.2
227	0.2	0.2
228	0.2	0.2
229	0.2	0.2
230	0.2	0.2
231	0.2	0.2
232	0.2	0.2
233	0.2	0.2
234	0.2	0.2
235	0.2	0.2
236	0.2	0.2
237	0.2	0.2
238	0.2	0.2

MODE PIN NO.	REC	PLAY
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	3.5
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

#### <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
IC5322	1 3.4	3.4
2	2.4	2.4
3	0	0
4	1.2	1.2
5	3.4	3.4
CN5301	1 19.1	19.1
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	-15.6	-15.6
17	0	0
18	-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	2.7	2.7
11	0	0
12	4.8	4.8
13	6.2	6.2
14	19.0	19.0
15	5.0	5.0
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	5.0	5.0
3	0	0
4	3.3	3.3
5	3.3	3.3

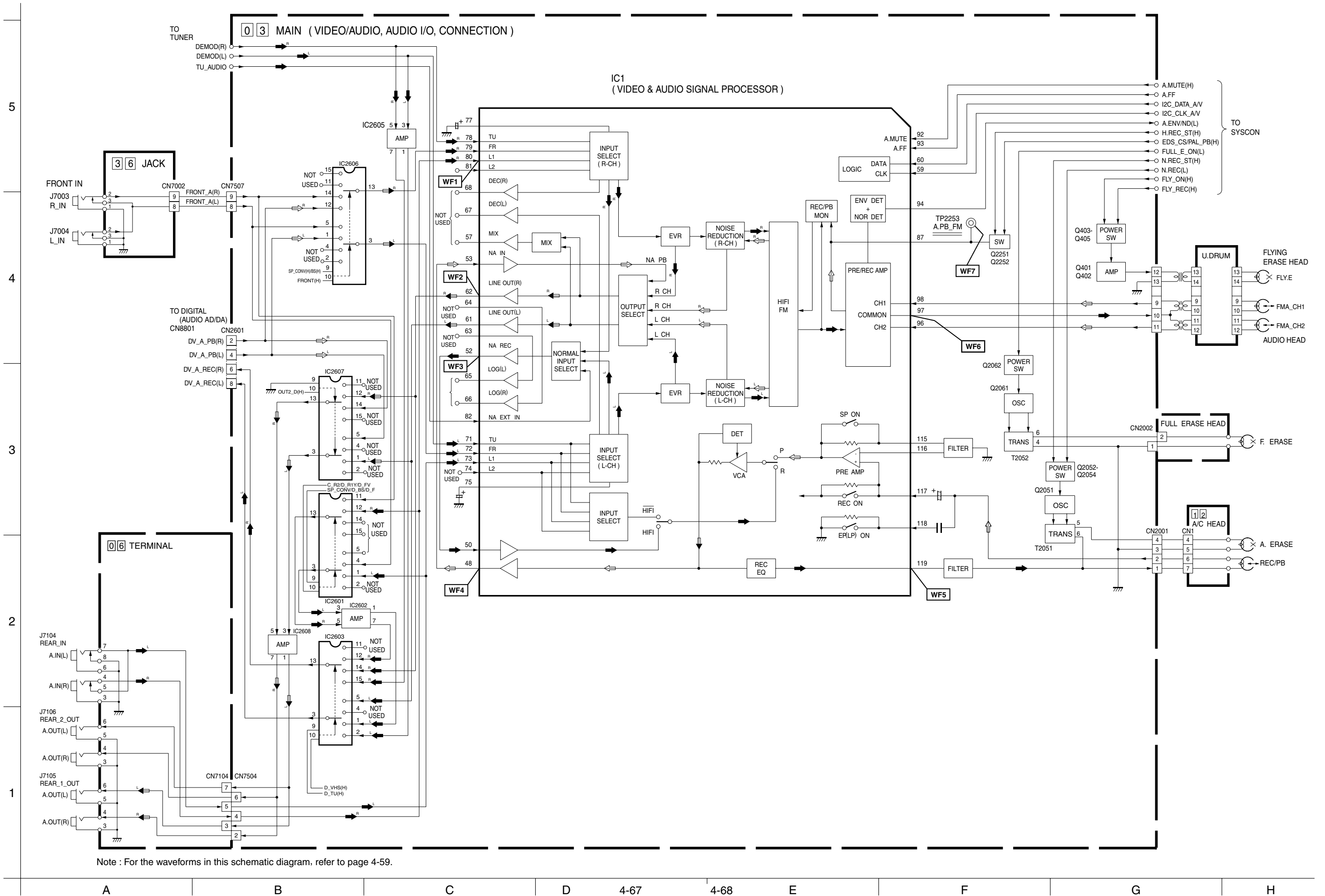
#### <SYSCON>

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	0	0
18	5.0	5.0
19	0	0
20	0	0
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	0
39	0	0
40	0	0
41	0	0
42	0	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





### 4.34 AUDIO BLOCK DIAGRAM



Note : For the waveforms in this schematic diagram, refer to page 4-59.

4.35 VIDEO BLOCK DIAGRAM (VHS)

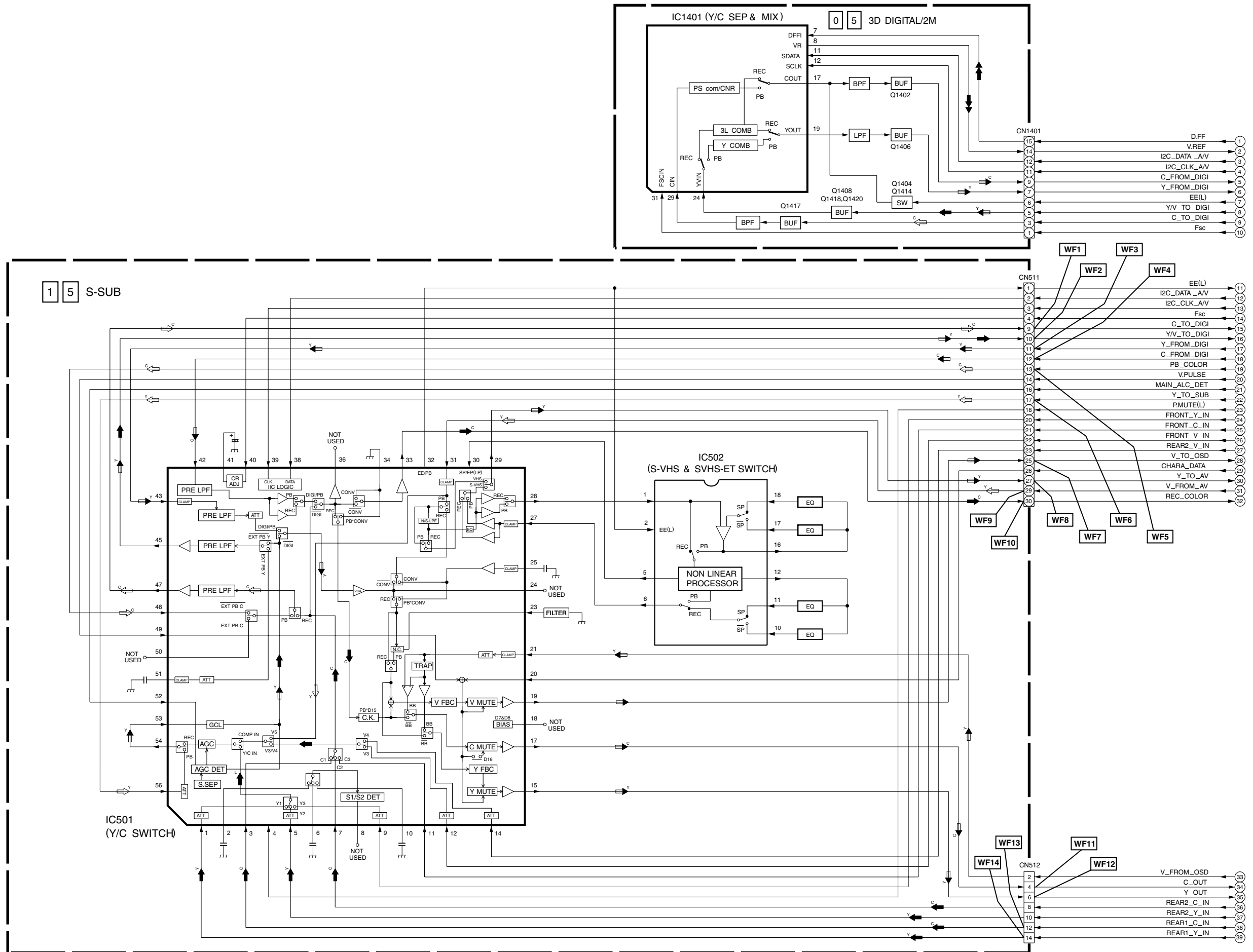
5

4

3

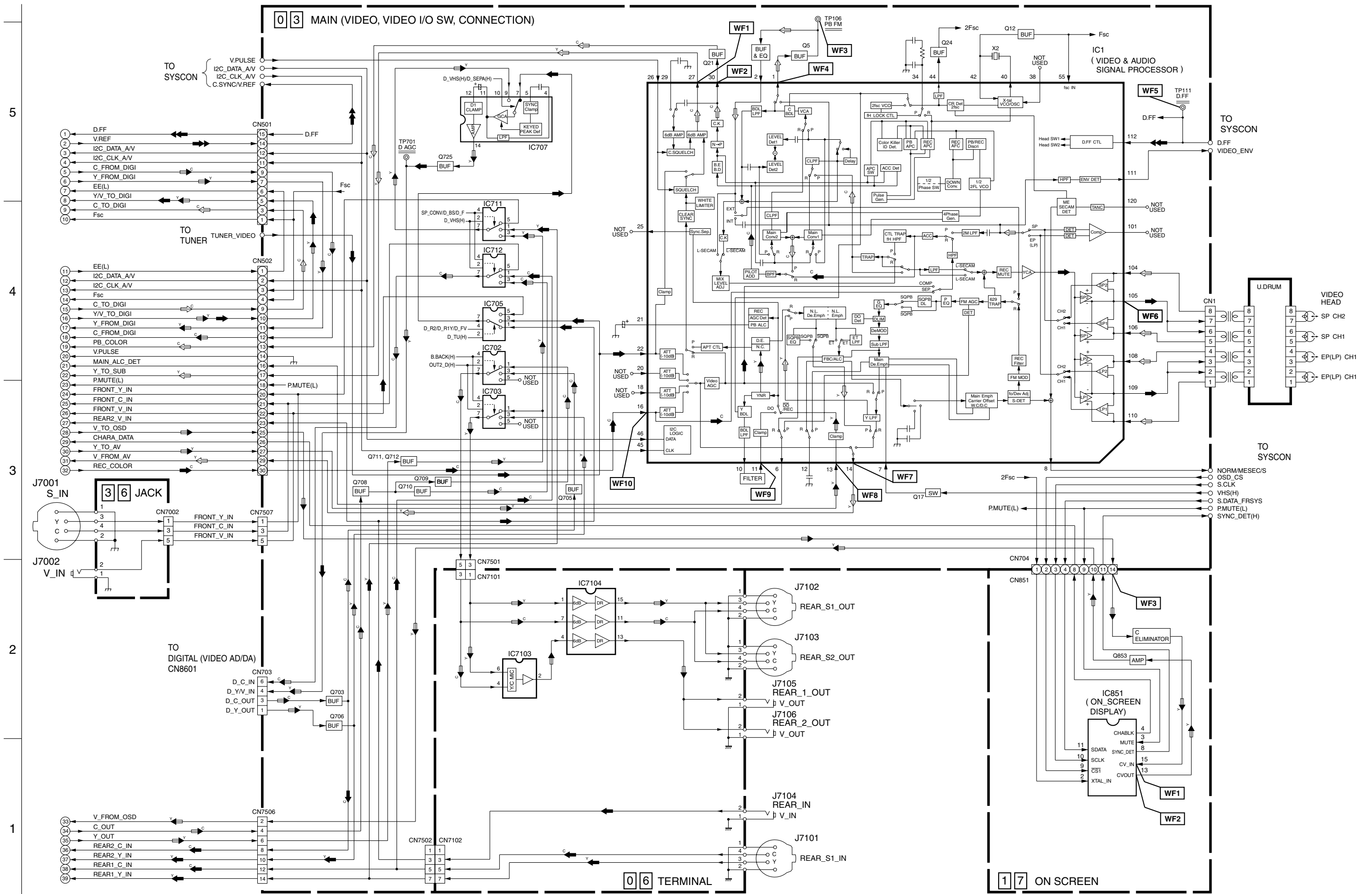
2

1



Note : For the waveforms in this schematic diagram, refer to page 4-59.

**0 3 MAIN (VIDEO, VIDEO I/O SW, CONNECTION)**



Note : For the waveforms in this schematic diagram, refer to page 4-59.

4.36 VIDEO/AUDIO BLOCK DIAGRAM (HDD)

