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.

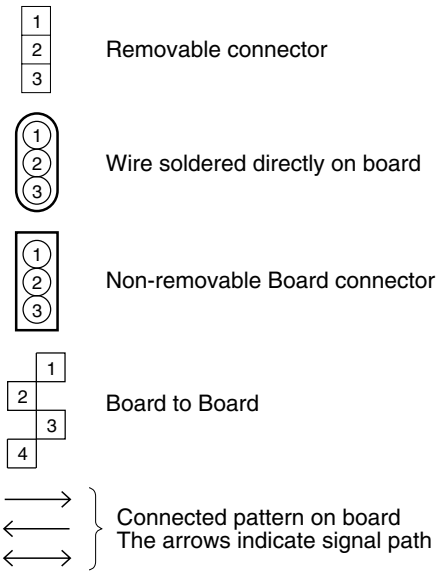
1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ (1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high

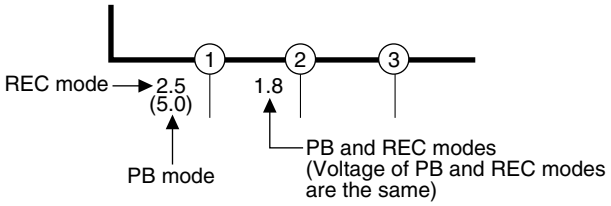
$\overline{\text{AUX}}$ or AUX(L) : Active at low

3. Interpreting Connector indications



4. Voltage measurement

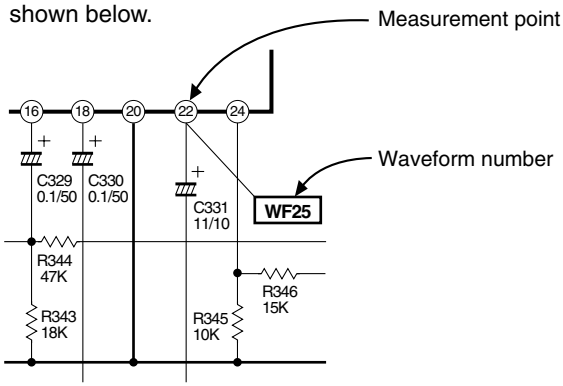
1) Video circuits
   REC : Colour bar signal in SP mode, normal VHS mode
   PB : Alignment tape, colour bar SP mode, normal VHS mode
   — : Unmeasurable or unnecessary to measure
2) Audio circuits
   REC : 1KHz, –8 dBs sine wave signal in SP mode, Normal VHS mode
   PB : REC then playback it
3) Movie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



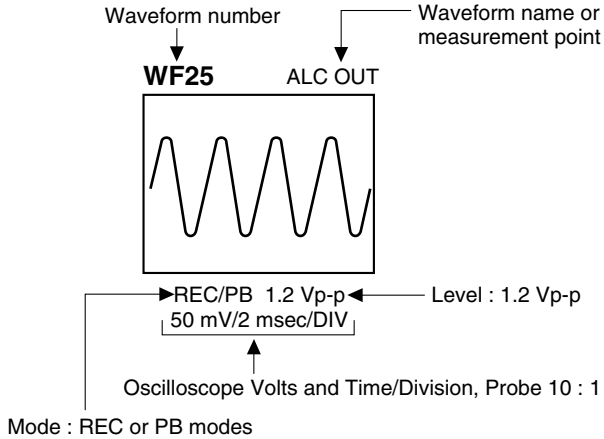
Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

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

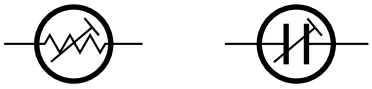
(Example)

R-Y Playback R-Y signal path

Y 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.

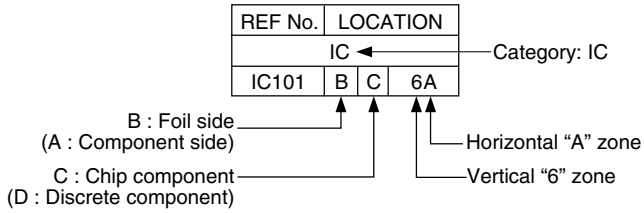
CIRCUIT BOARD NOTES

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

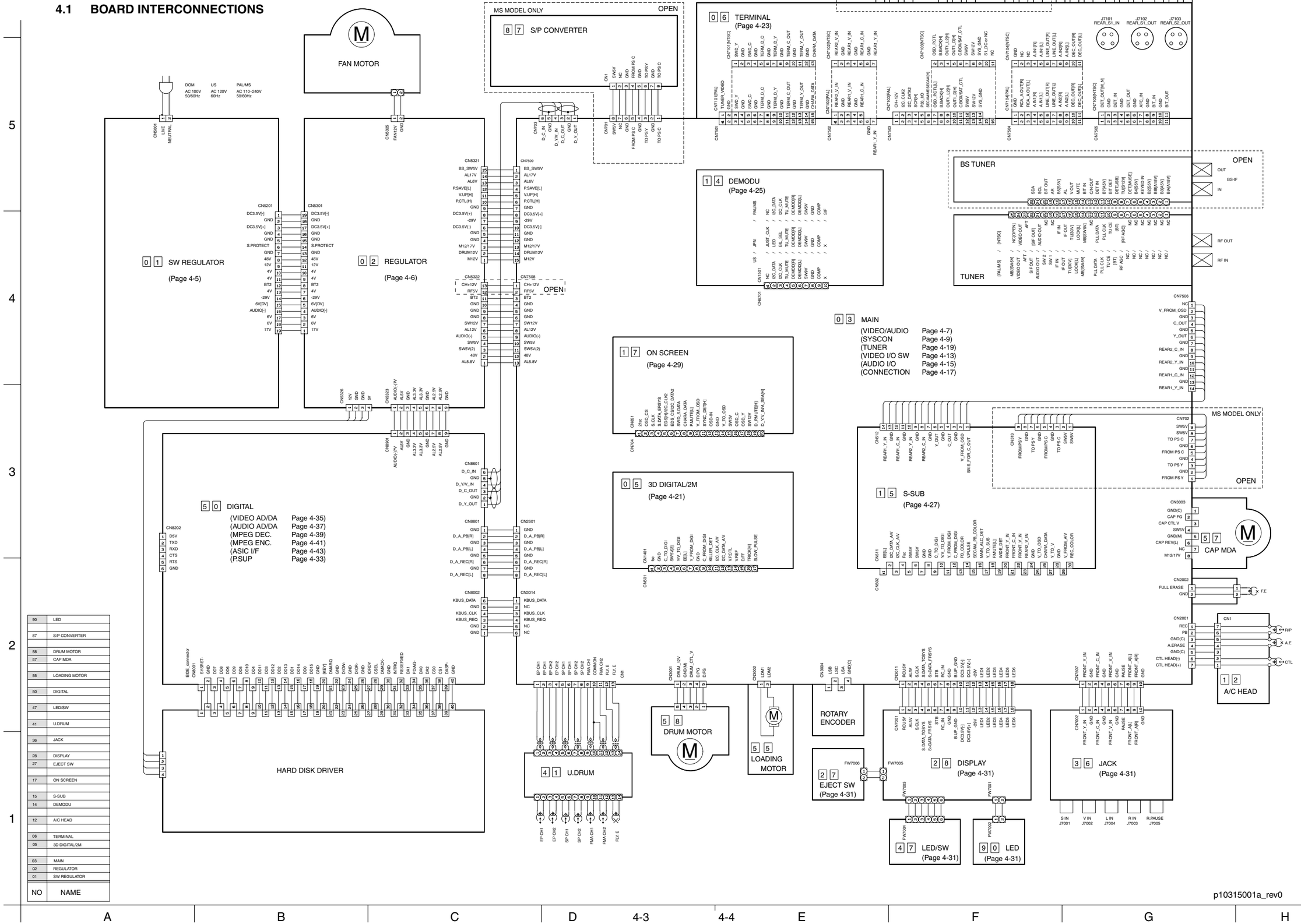
Parts location are indicated by guide scale on the circuit board.



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



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

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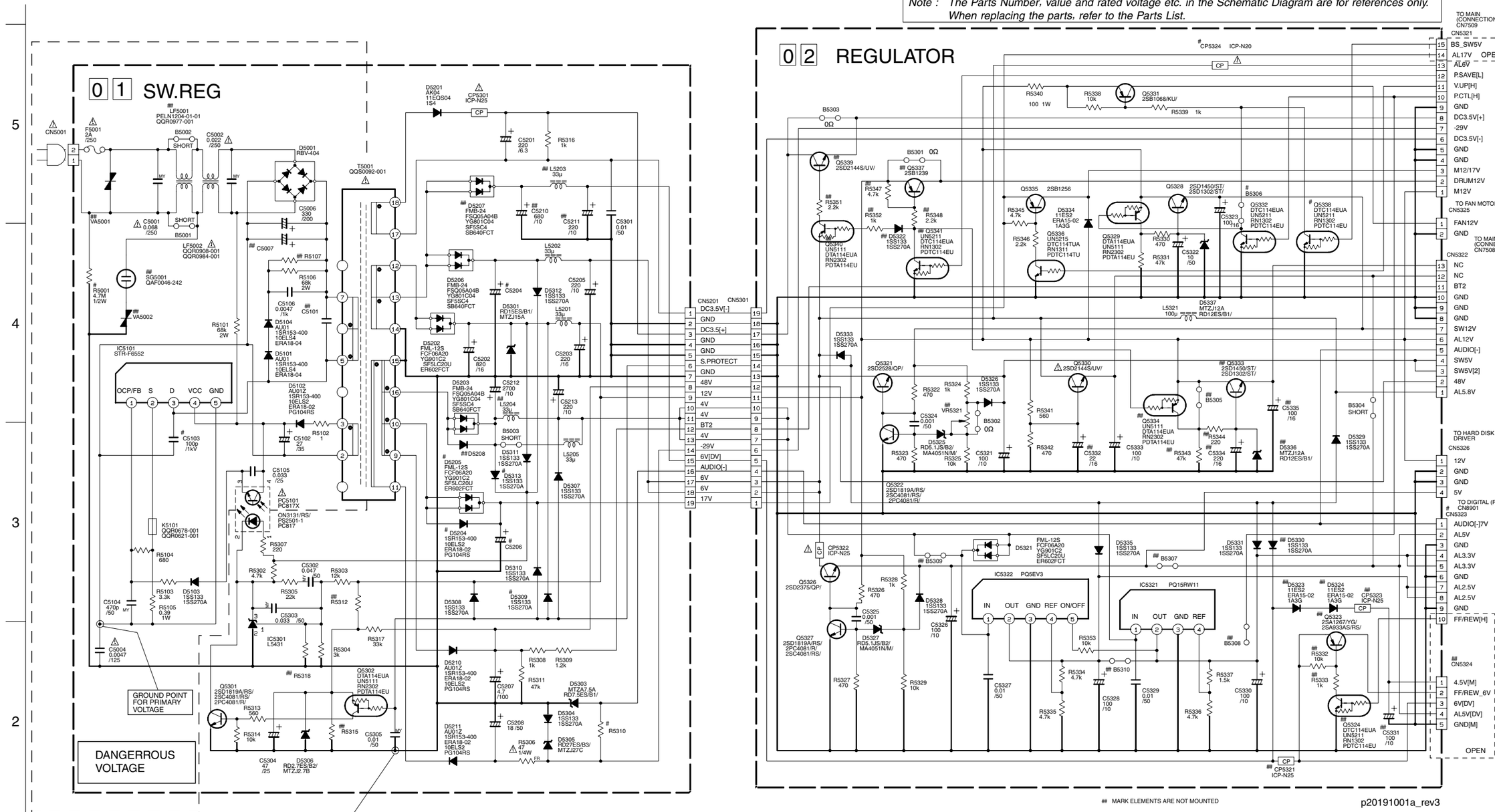
4.2 SWITCHING REGULATOR AND REGULATOR SCHEMATIC DIAGRAMS

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

MARK ELEMENTS ARE NOT MOUNTED

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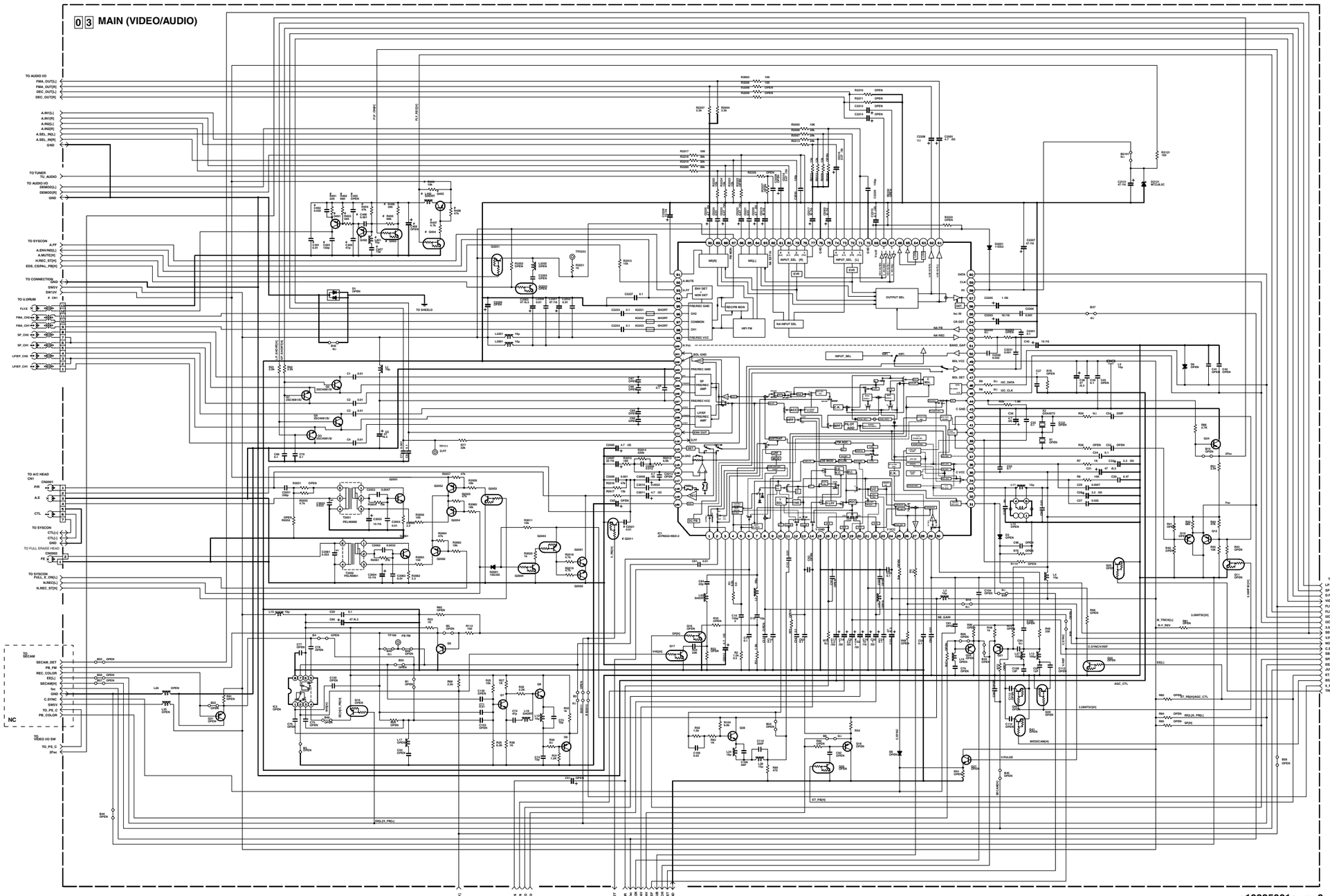
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

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	Q401-Q405 L401,L402 R401-R409 C401-C407,C409	CN1
W/ FE HEAD	○	1- 13
W/O FE HEAD	×	1- 11

SYMBOL / MODEL	Q2011 C2021 B2012
W/ XS_PB	○
W/O XS_PB	×

SYMBOL / MODEL	CS2
W/ BS	○
W/O BS	×

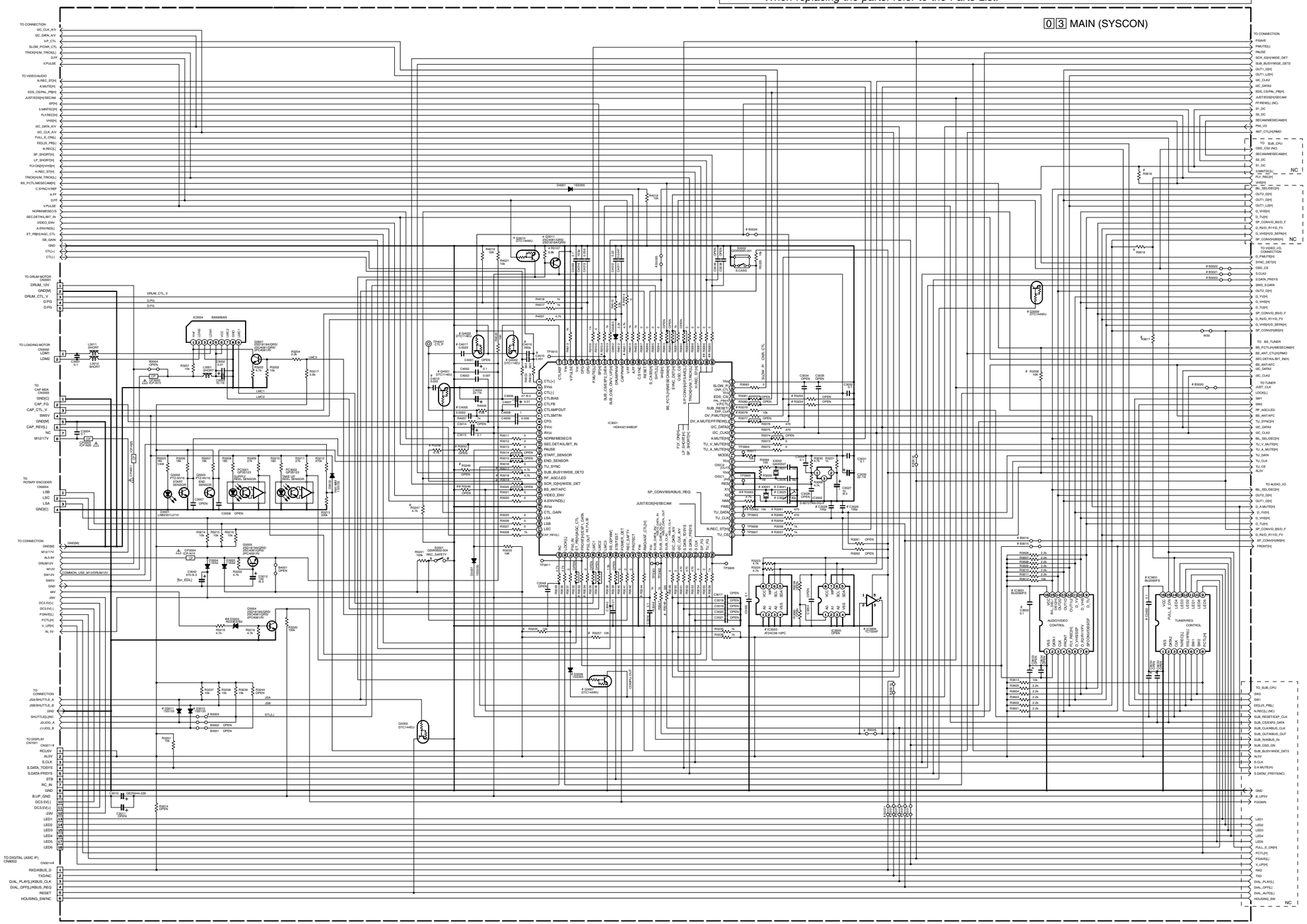
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ALL NPN TYPE TRANSISTORS ARE 2SC4081/QRS/.
ALL PNP TYPE TRANSISTORS ARE 2SA1576A/QR/.
ALL NPN TYPE DIGITAL TRANSISTORS ARE DTC144WUA.
ALL PNP TYPE DIGITAL TRANSISTORS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

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

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.


0 3 MAIN (SYSCON)
TO CONNECTION
TO VIDEO/AUDIO
TO DRUM MOTOR CN3003
TO LOADING MOTOR CN3002
TO CAP MDA CN3003
TO ROTARY ENCODER CN3004
TO CONNECTION
TO CONNECTION
TO DISPLAY CN7001
TO DIGITAL (ASIC IF) CN8002
TO SUB_CPU
TO VIDEO_I/O CONNECTION
TO TUNER
TO AUDIO_I/O
NC
IC3001 HD64321948I3F
IC3004 BA6956AN
IC3501 BU2090FS
IC3502 AT24C08-10PC
IC3503 BU2090FS
IC3505 BU2090FS
IC3506 VCT5564F
Q3001 DTC114EU
Q3002 DTC114EU
Q3004 2SD1819A/QRS/ 2SC4081QRS/ 2PC4081R
Q3005 2SD1819A/QRS/ 2SC4081QRS/ 2PC4081R
Q3006 2SD1819A/QRS/ 2SC4081QRS/ 2PC4081R
Q3007 2SD1819A/QRS/ 2SC4081QRS/ 2PC4081R
Q3008 2SD1819A/QRS/ 2SC4081QRS/ 2PC4081R
Q3009 2SD1819A/QRS/ 2SC4081QRS/ 2PC4081R
Q3010 DTC114WEU
Q3011 2SD2011QRS/ 2SC4116QRS/ 2PC4116R
Q3012 DTC114WEU
Q3013 DTC114WEU
Q3014 DTC114WEU
Q3015 DTC114WEU
Q3016 DTC114WEU
Q3017 DTC114WEU
Q3018 DTC114WEU
Q3019 DTC114WEU
Q3020 DTC114WEU
Q3021 DTC114WEU
Q3022 DTC114WEU
Q3023 DTC114WEU
Q3024 DTC114WEU
Q3025 DTC114WEU
Q3026 DTC114WEU
Q3027 DTC114WEU
Q3028 DTC114WEU
Q3029 DTC114WEU
Q3030 DTC114WEU
Q3031 DTC114WEU

#DIFFERENCE TABLE

○ : Used
X : Not used

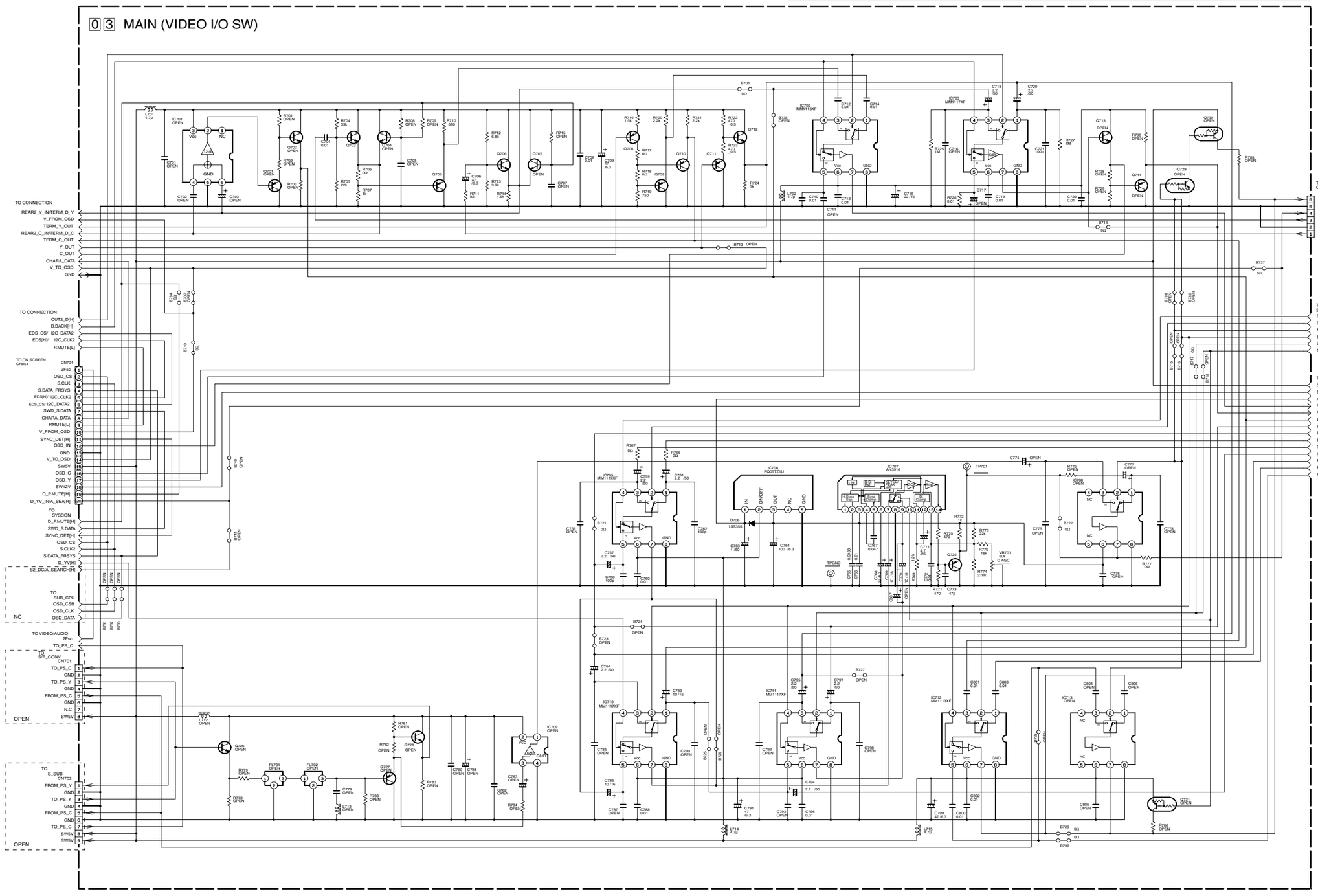
ITEM		HR-DVS2 /SR-VS20 EU/EK	MS	US	DOM	HM-HDS1 DOM	PAL	MS	US
JOG/S	B3003 D3011 D3012	○	○	○	○	X	X	X	X
CTL_GAIN	C4010 Q4001	○	○	○	○	○	○	○	○
SEC.DET/KIL/BIT_IN	R3252	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	○
SUB_BUSY/W.DET2	R3245	X	X	X	X	X	X	X	4.7k
	R3017	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k	4.7k
RF_AGC/LED	R3018	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	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	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 D.IN/RXD	B3011 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	○	○	○	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	○
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	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

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 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.

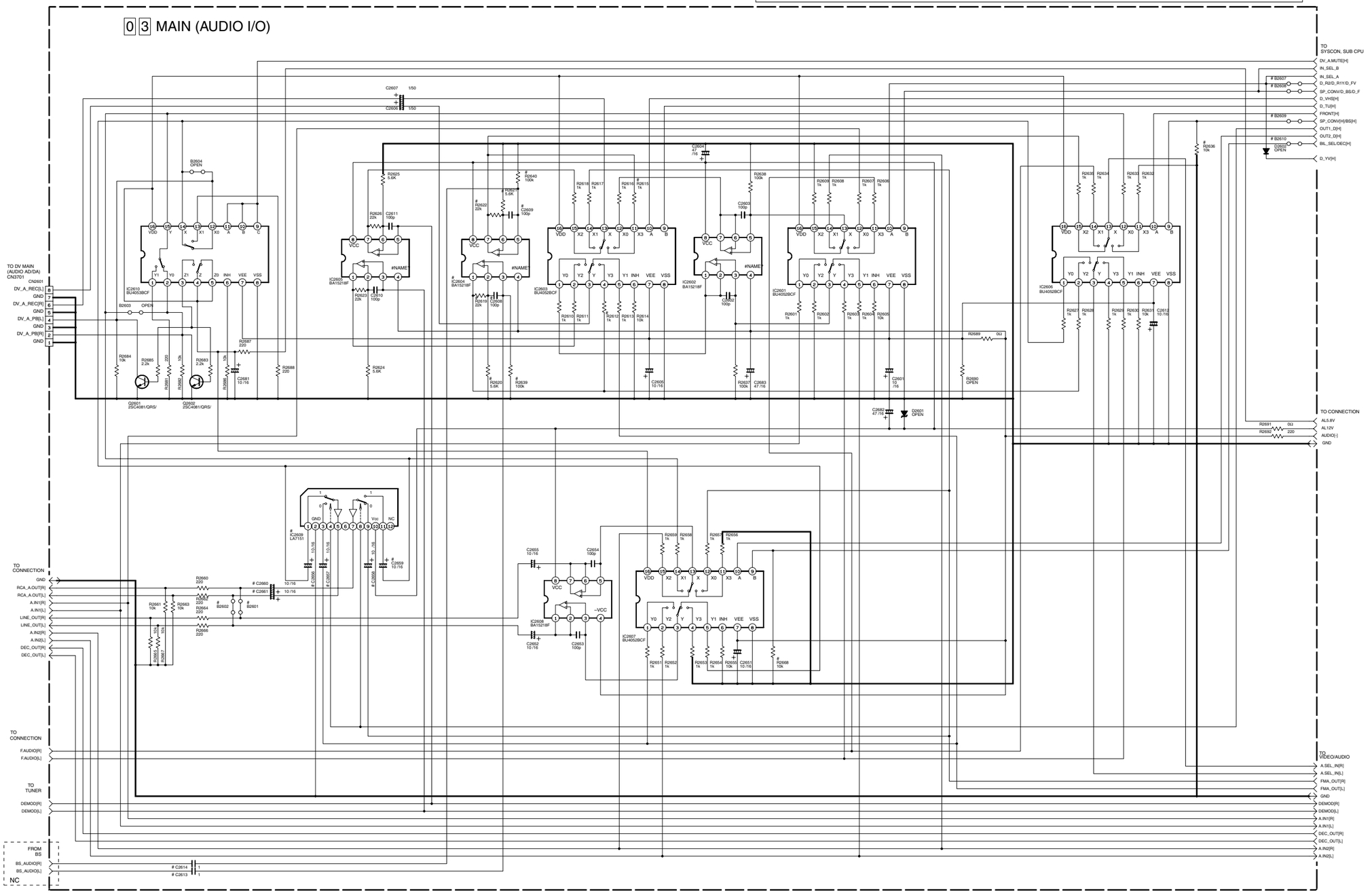


p10339001a_rev0

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

4.6 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.



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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	×	○

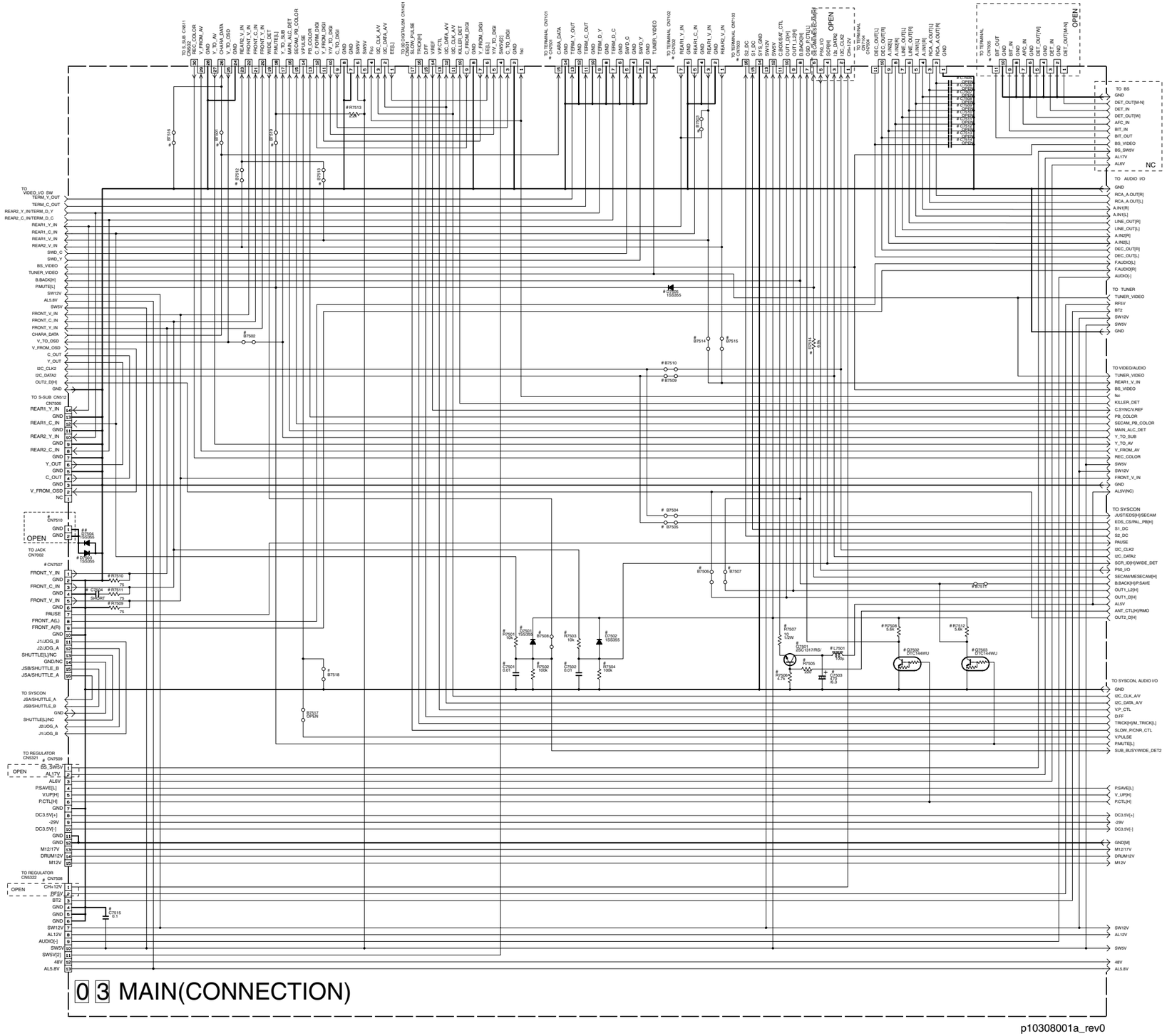
SYMBOL / MODEL	IC2604 _R2612,R2615 R2619-R2622,R2638,R2640 C2608,C2609,C2613,C2614
With BS	○
W/O BS	×

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

4.7 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.


TO S-SUB CN611
CN602
REC_COLOR
REC_FROM_AV
GND
TO_AV
CHARA_DATA
V_TO_OSD
GND
FRONT_V_IN
FRONT_C_IN
FRONT_Y_IN
WIDE_DET
FMUTE[L]
MAIN_ALC_DET
SECAM_PB_COLOR
PB_COLOR
C_FORM_DIGI
CHARA_DIGI
YV_TO_DIGI
C_TO_DIGI
GND
SW5V
SW5V
GND
I2C_CLK_A/V
I2C_DATA_A/V
KILLER_DET
TO S-SUB CN612
CN601
OSD_PULSE
TRICK[H]
D.FF
V.P.CTL
I2C_DATA_A/V
I2C_CLK_A/V
KILLER_DET
C_FROM_DIGI
GND
Y_FROM_DIGI
EEE[L]
YV_TO_DIGI
SW1[Q]
C_TO_DIGI
GND
5V
TO TERMINAL CN7101
CN7004
CARA_DATA
GND
FRONT_Y_OUT
GND
TERM_C_OUT
GND
TERM_D_Y
GND
TERM_D_C
GND
SW5V
SW5V
SW5V
SW12V
S-VE GND
SW5V
SW5V
OUT1_D[H]
OUT1_L2[H]
REAR_V_IN
OSD_I2CTL[L]
SECAM/MESECAM[H]
SCP[H]
OPEN
TO TERMINAL CN7102
CN7003
REAR1_Y_IN
GND
REAR1_C_IN
GND
REAR1_V_IN
GND
TUNER_VIDEO
TO TERMINAL CN7103
CN7002
SJ_DC
S2_DC
S-VE GND
SW12V
SW5V
SW5V
OUT1_D[H]
OUT1_L2[H]
REAR_V_IN
OSD_I2CTL[L]
SECAM/MESECAM[H]
SCP[H]
OPEN
TO TERMINAL CN7201
CN7004
DEC_OUT[L]
DEC_OUT[R]
A.IN2[R]
A.IN2[L]
LINE_OUT[R]
A.IN1[R]
A.IN1[L]
LINE_OUT[L]
RCA_A.OUT[L]
GND
TO TERMINAL CN7205
BIT_OUT
GND
BIT_IN
GND
AFC_IN
GND
DET_OUT[W]
GND
BIT_IN
GND
DET_OUT[M-N]
OPEN
TO BS
GND
DET_OUT[M-N]
DET_IN
DET_OUT[W]
AFC_IN
BIT_IN
BIT_OUT
BS_VIDEO
BS_SW5V
AL17V
AL6V
NC
TO AUDIO I/O
GND
RCA_A.OUT[R]
RCA_A.OUT[L]
A.IN1[R]
A.IN1[L]
LINE_OUT[R]
LINE_OUT[L]
A.IN2[R]
A.IN2[L]
DEC_OUT[R]
DEC_OUT[L]
F.AUDIO[L]
F.AUDIO[R]
AUDIO[-]
TO TUNER
TUNER_VIDEO
RF5V
BT2
SW12V
SW5V
GND
TO VIDEO/AUDIO
TUNER_VIDEO
REAR1_V_IN
BS_VIDEO
fsc
KILLER_DET
C.SYNC/V.REF
PB_COLOR
SECAM_PB_COLOR
MAIN_ALC_DET
Y_TO_SUB
Y_TO_AV
V_FROM_AV
REC_COLOR
SW5V
SW12V
FRONT_V_IN
GND
AL5V(NC)
TO SYSCON
JUST/EDS[H]/SECAM
EDS_CS/PAL_PB[H]
S1_DC
S2_DC
PAUSE
I2C_CLK2
I2C_DATA2
SCR_ID[H]/WIDE_DET
P50_I/O
SECAM/MESECAM[H]
B.BACK[H]/P.SAVE
OUT1_L2[H]
OUT1_D[H]
AL5V
ANT_CT(H)/RMO
OUT2_D[H]
TO SYSCON, AUDIO I/O
GND
I2C_CLK_A/V
I2C_DATA_A/V
V.P._CTL
D.FF
TRICK[H]/M_TRICK[L]
SLOW_P/CNR_CTL
V.PULSE
P.MUTE[L]
SUB_BUSY/WIDE_DET2
P.SAVE[L]
V_LIF[H]
P.CTL[H]
DC3.5V[+]
-29V
DC3.5V[-]
GND(M)
M12/17V
DRUM12V
M12V
SW12V
AL12V
SW5V
48V
AL5.8V
TO VIDEO_I/O_SW
TERM_Y_OUT
TERM_C_OUT
REAR2_Y_IN/TERM_D_Y
REAR2_C_IN/TERM_D_C
REAR1_Y_IN
REAR1_C_IN
REAR1_V_IN
REAR2_V_IN
SWD_C
SWD_Y
BS_VIDEO
TUNER_VIDEO
B.BACK[H]
P.MUTE[L]
SW12V
AL6.8V
SW5V
FRONT_V_IN
FRONT_C_IN
FRONT_Y_IN
CHARA_DATA
V_TO_OSD
V_FROM_OSD
C_OUT
Y_OUT
I2C_CLK2
I2C_DATA2
OUT2_D[H]
GND
TO S-SUB CN512
CN7506
REAR1_Y_IN
REAR1_C_IN
REAR2_Y_IN
REAR2_C_IN
Y_OUT
C_OUT
V_FROM_OSD
NC
CN7510
OPEN
TO JACK
CN7002
CN7507
FRONT_Y_IN
FRONT_C_IN
FRONT_V_IN
PAUSE
FRONT_A(L)
FRONT_A(R)
J1/JOG_B
J2/JOG_A
SHUTTLE[L]/NC
GND/NC
JSB/SHUTTLE_B
JSA/SHUTTLE_A
TO SYSCON
JSA/SHUTTLE_A
JSB/SHUTTLE_B
GND
SHUTTLE[L]/NC
J2/JOG_A
J1/JOG_B
TO REGULATOR
CN5321
CN7509
OPEN
BS_SW5V
AL17V
AL6V
P.SAVE[L]
V.UP[H]
P.CTL[H]
GND
DC3.5V[+]
-29V
DC3.5V[-]
GND
GND
M12/17V
DRUM12V
M12V
TO REGULATOR
CN5322
CN7508
OPEN
CH-12V
BF5V
BT2
GND
GND
GND
SW12V
AL12V
AUDIO[-]
SW5V
SW5V[2]
48V
AL5.8V
BF516
BF501
BF519
BF512
BF513
R7513
B7502
B7518
R7517
OPEN
B7504
B7505
B7510
B7509
B7514
B7515
B7506
B7507
R7510
C2502
R7511
R7512
C7515
D7501
1SS355
D7502
1SS355
D7503
1SS355
C7501
0.01
R7501
10K
B7508
R7502
100K
C7502
0.01
R7503
10K
R7504
100K
R7507
10
1/2W
Q7501
2SC1317RS/
L7501
150u
R7505
68K
C7503
47
16.3
R7508
4.7K
R7509
5.6K
Q7502
2SA1048RU
R7510
5.6K
Q7503
2SA1048RU
R7515
5.6K
R7516
L7502
D7505
1SS355
B7511
B7512
B7513
B7517
B7516
B7519
B7520
B7521
B7522
B7523
B7524
B7525
B7526
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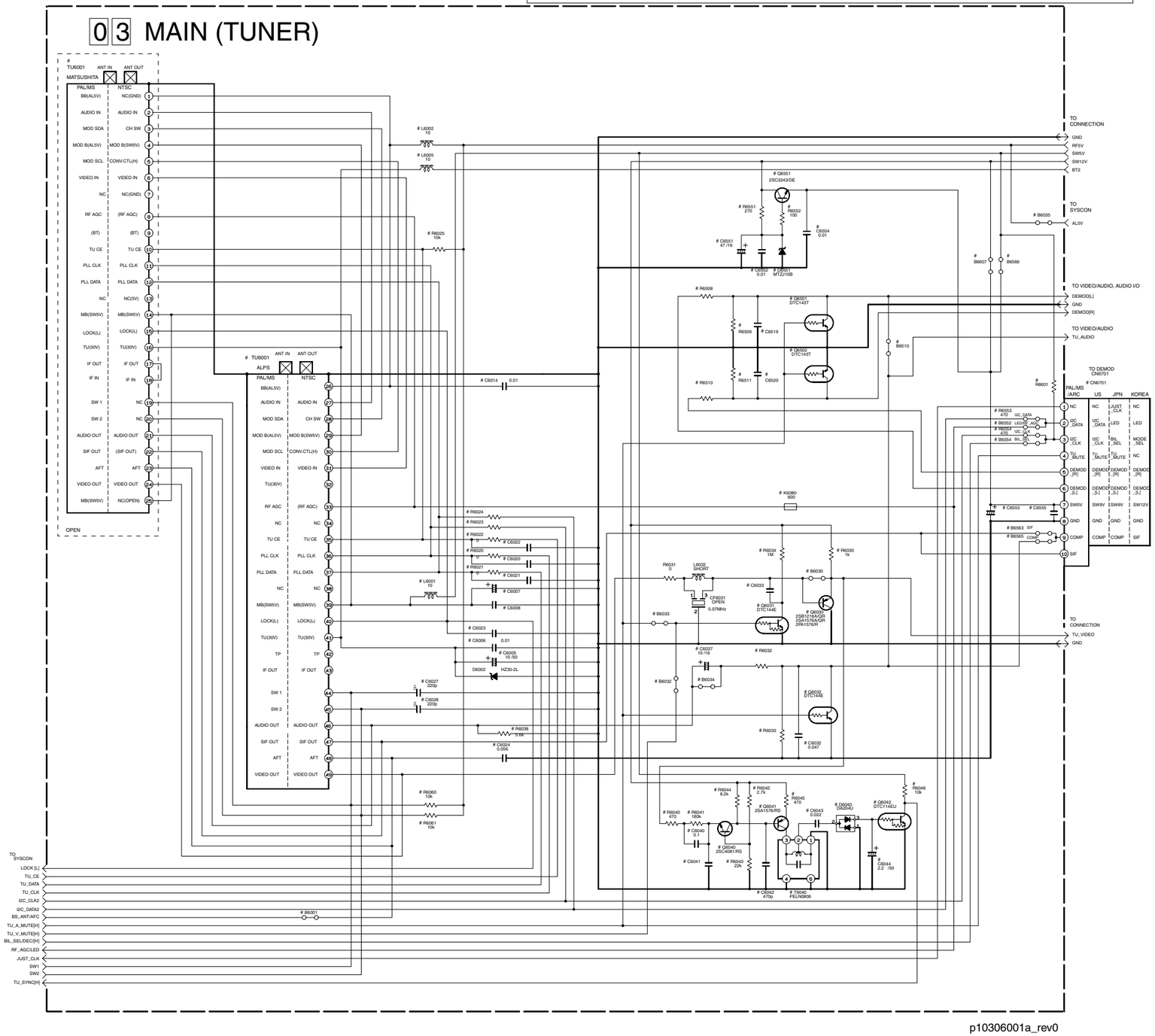
B7545
B7546
B7547
B7548
B7549
B7550
B7551
B7552
B7553
B7554
B7555
B7556
B7557
B7558

4.8 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

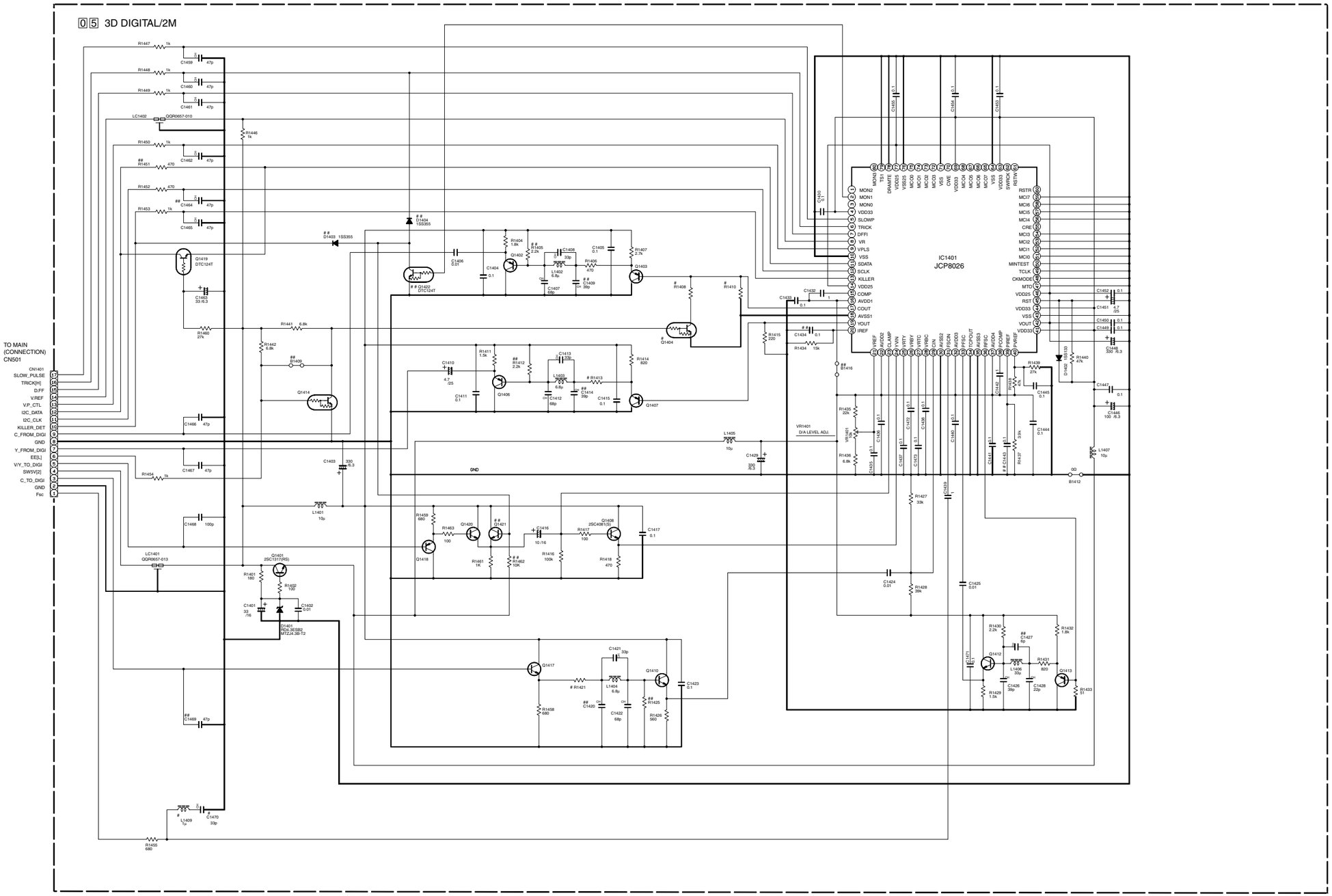
○ Used
× Not Used

TUNER	SYMBOL	EU/EK	FRANCE MS	JAPAN		US	
				DVS2	HDS1	DVS2/VS20	HDS1
TUNER	TU6001	ALPS QAU0151	ALPS QAU0152	MATSUSHITA QAU0198	MATSUSHITA QAU0198	ALPS QAU0163	ALPS QAU0163
	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	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	SHORT
MB(SW5V)	C6007	330/10	330/10	×	×	×	×
	C6008	×	×	×	×	×	×
	L6001	○	○	SHORT	SHORT	SHORT	SHORT
BB(ALSV)	C6014,L6002	○	○	×	×	×	×
PLL CLK	R6020	470	470	1k	1k	1k	1k
	R6023	×	×	×	×	×	×
	C6020	×	×	×	×	×	×
PLL DATA	R6021	470	470	1k	1k	1k	1k
	R6024	×	×	×	×	×	×
	C6021	×	×	×	×	×	×
TU CE	R6022	470	470	1k	1k	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	HDS1	DVS2/VS20	HDS1
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	0
	R6509,R6511	×	×	×	×	×	×
	C6519,C6520	×	×	×	×	×	×
MUTE	Q6501,Q6502	×	×	×	×	○	○
TUNER MONO	B6510	×	×	×	×	×	×
DEMOD SELECTION	R6553,R6554	0	0	×	×	0	0
	B6552,B6554	×	×	○	○	×	×
	B6563	×	×	×	×	×	×
	B6565	×	×	○	○	○	○
	B6566	○	○	×	×	×	×
	R6601	×	×	×	×	×	×

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.



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

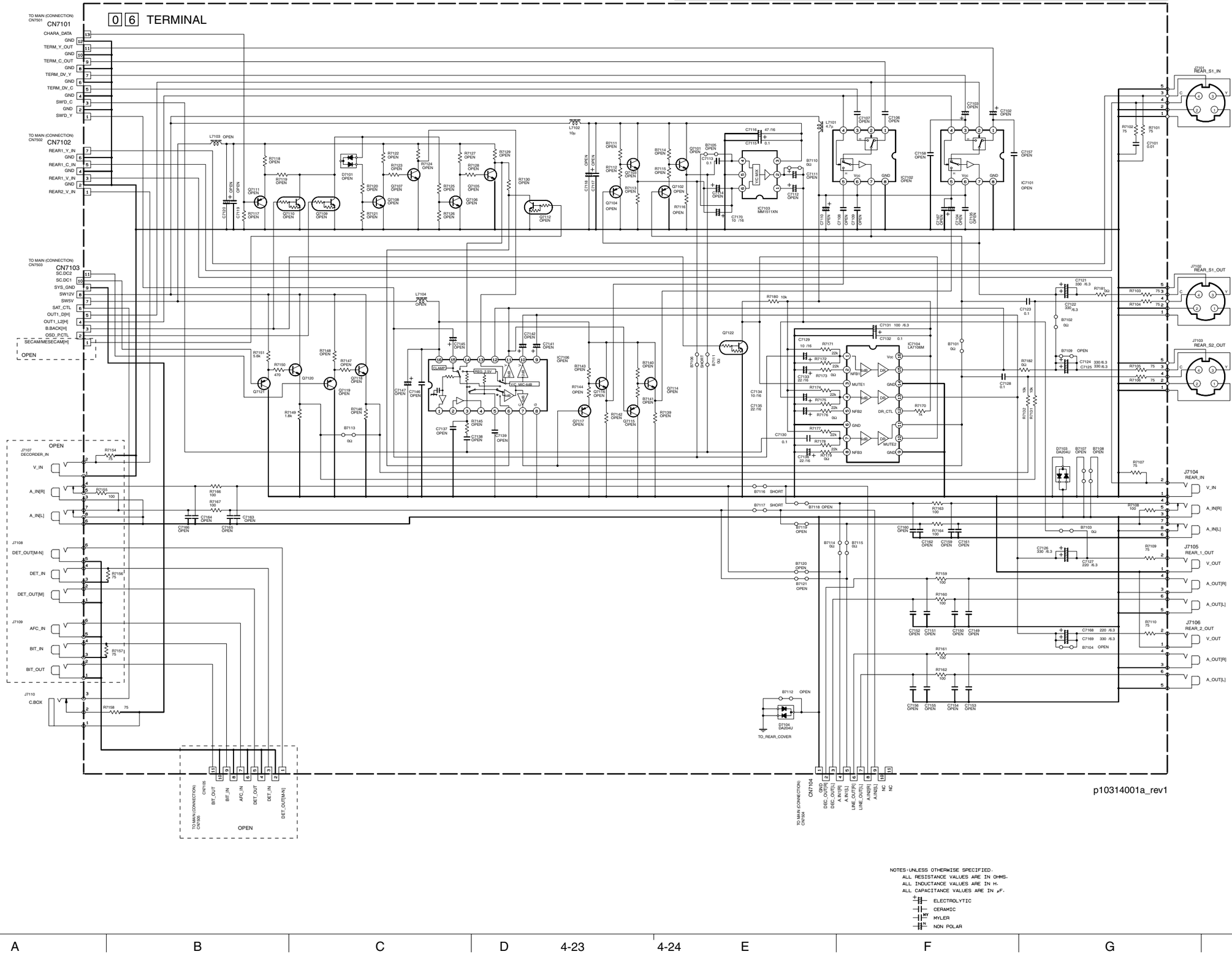
MARK ELEMENTS ARE NOT MOUNTED.
ALL SINGLE DIODE:1SS133 OR 1N4148.
ALL PNP TRANSISTOR:2SA1576A(QR) OR 2SB1218A(QR) OR 2PA1576(R)
ALL NPN TRANSISTOR:2SC4081(QRS) OR 2SD1819A(QRS) OR 2PC4081(R)
ALL NPN DIGITAL TRANSISTOR:DTC144WUA OR UN521E OR RN1309

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		

4.10 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.

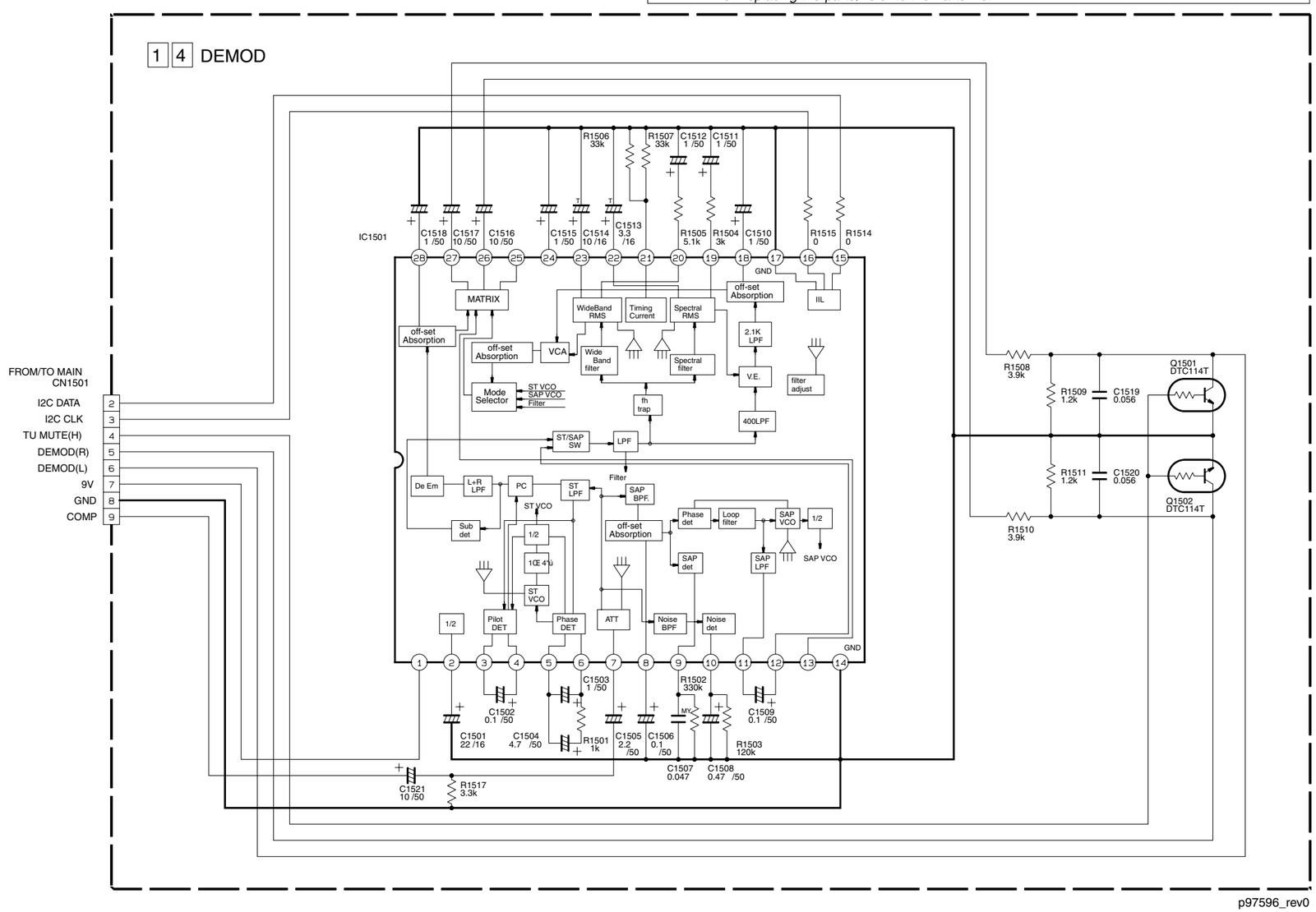


NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
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.



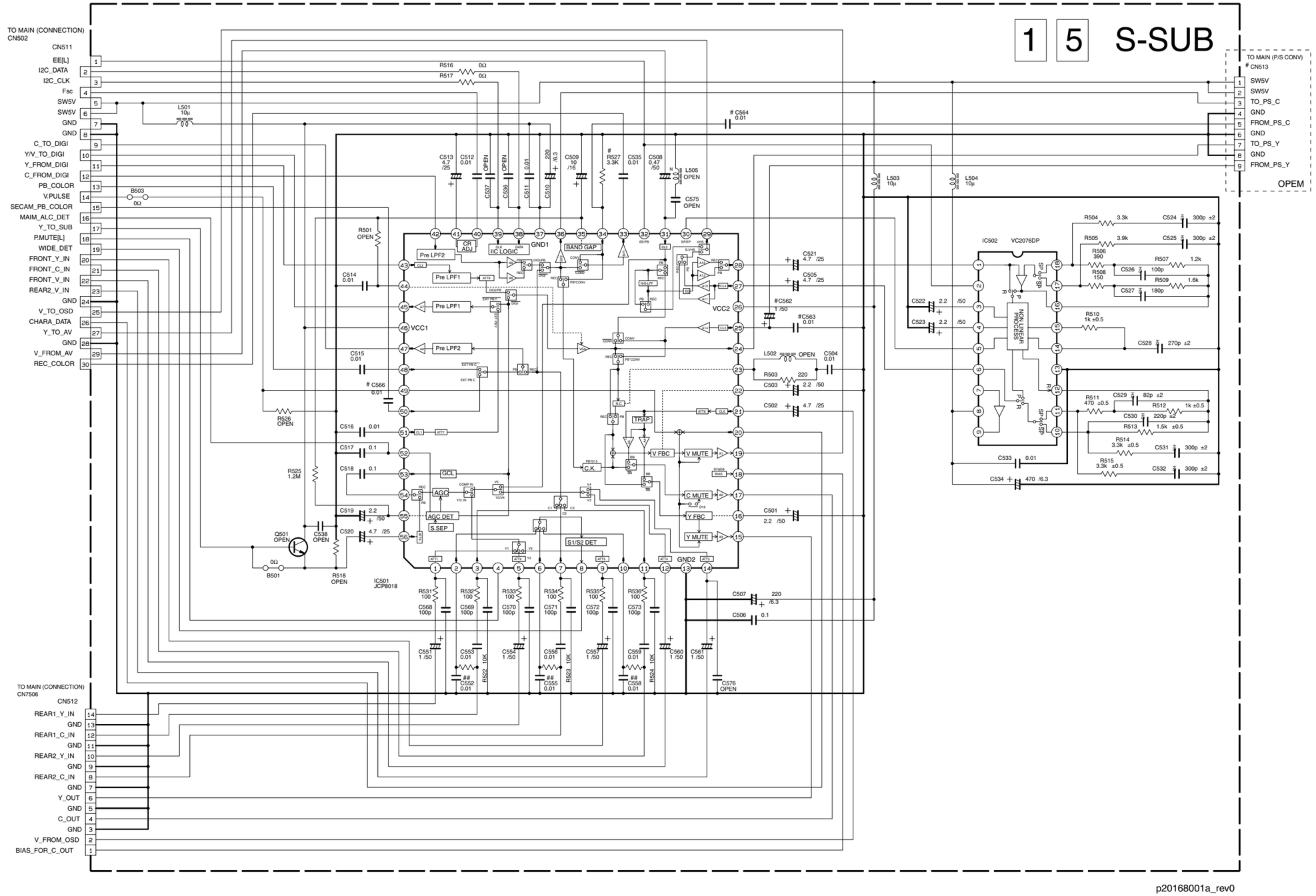
p97596_rev0

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

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.



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.

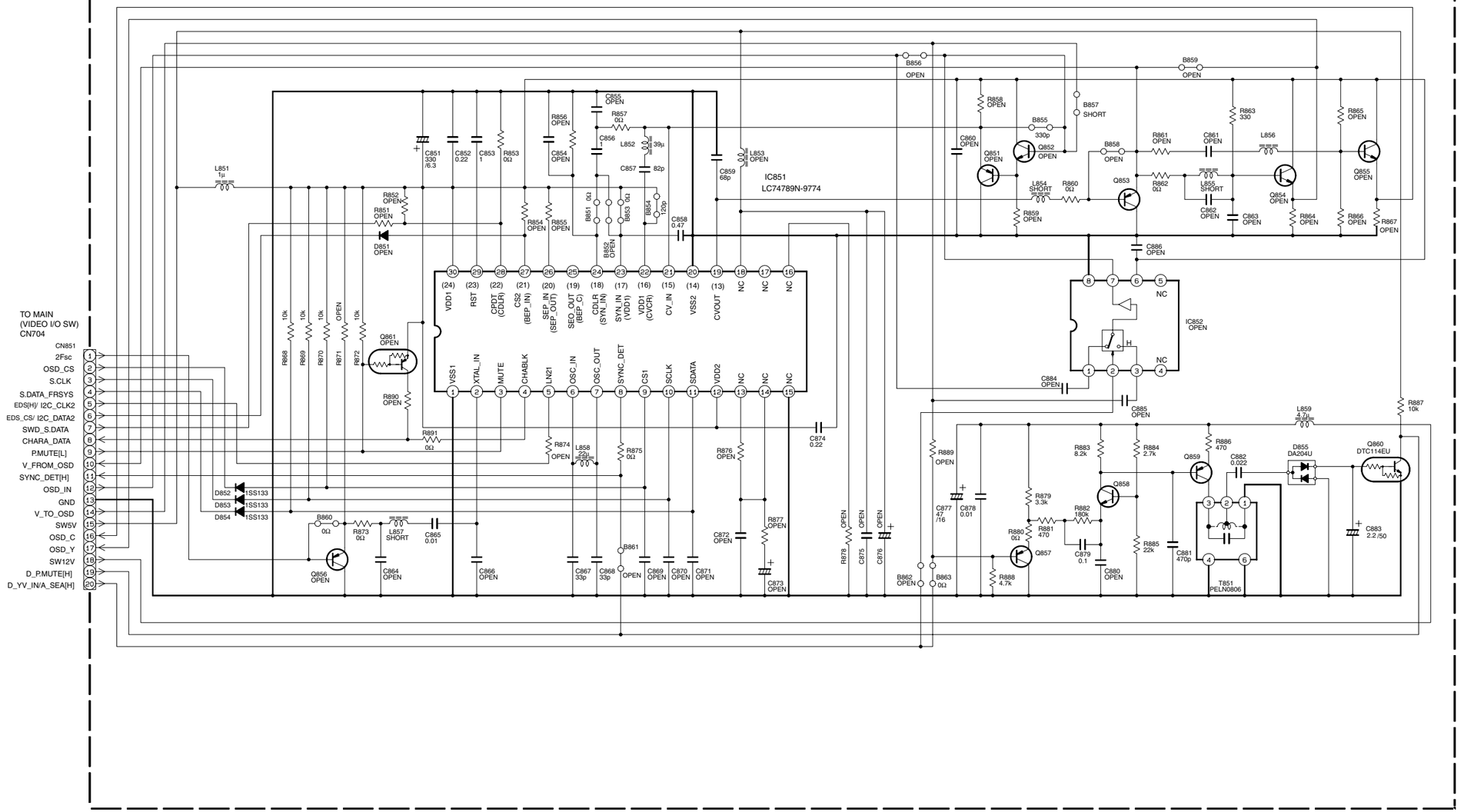
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

4.13 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



p20200001a_rev0

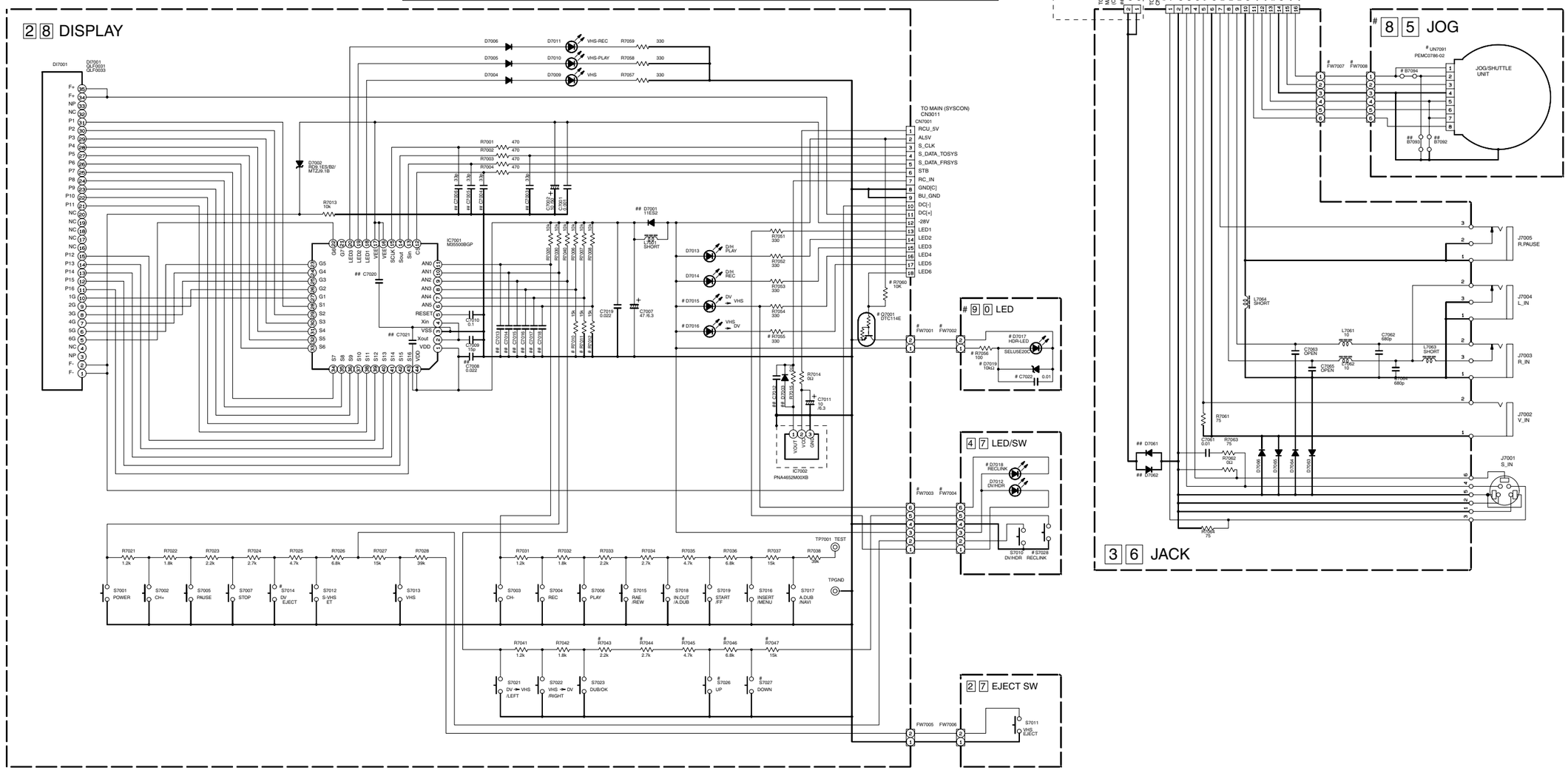
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

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

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

○ Used
X Not used

DIFFERENCE TABLE

	8 5 JOG UN7091 B7094 FW7007 FW7008	CN7002	9 0 LED D7017 FW7001 FW7002 R7060 Q7001	D7018 S7026 S7027 S7028	R7043 R7044 R7045 R7046 R7047	S7014 D7015 D7016 R7055	FW7003 FW7004
DVS2 /VS20	○	1-16	X			○	1-4
HDS1	X	1-10	○			X	1-6

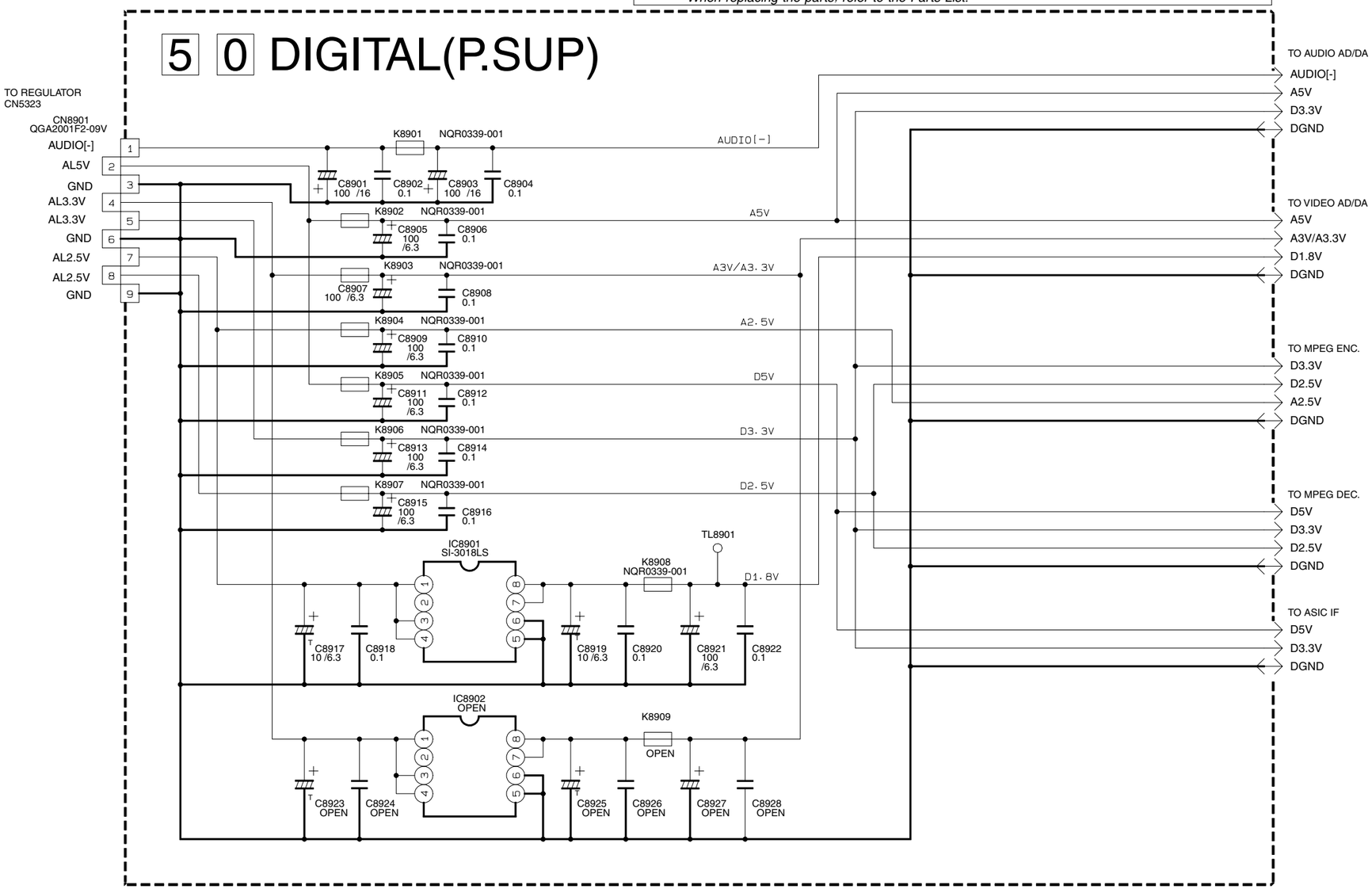
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL DIODES ARE 1N4148M OR 1SS133
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

##:NOT USED

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

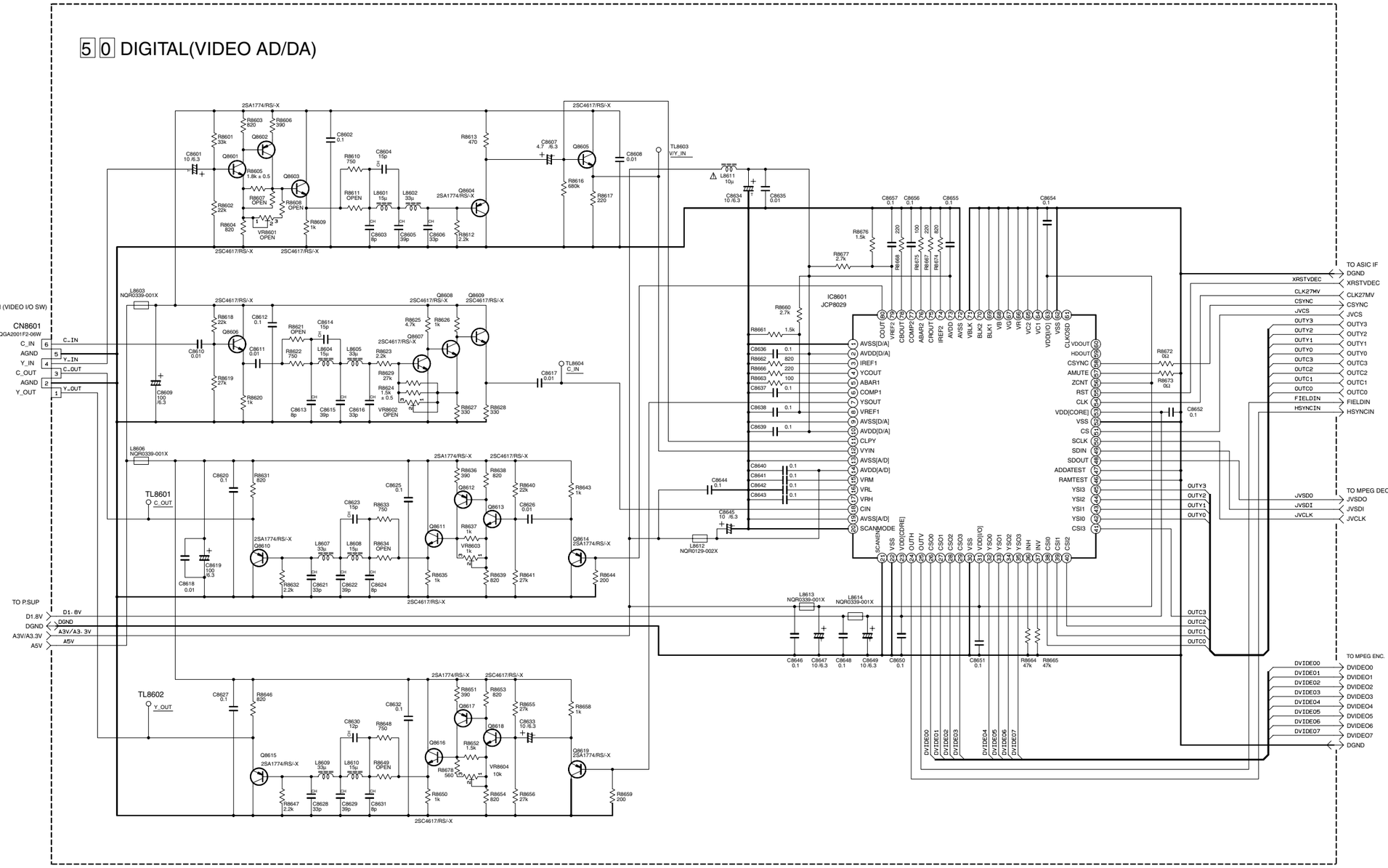
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
TANTAL

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

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.



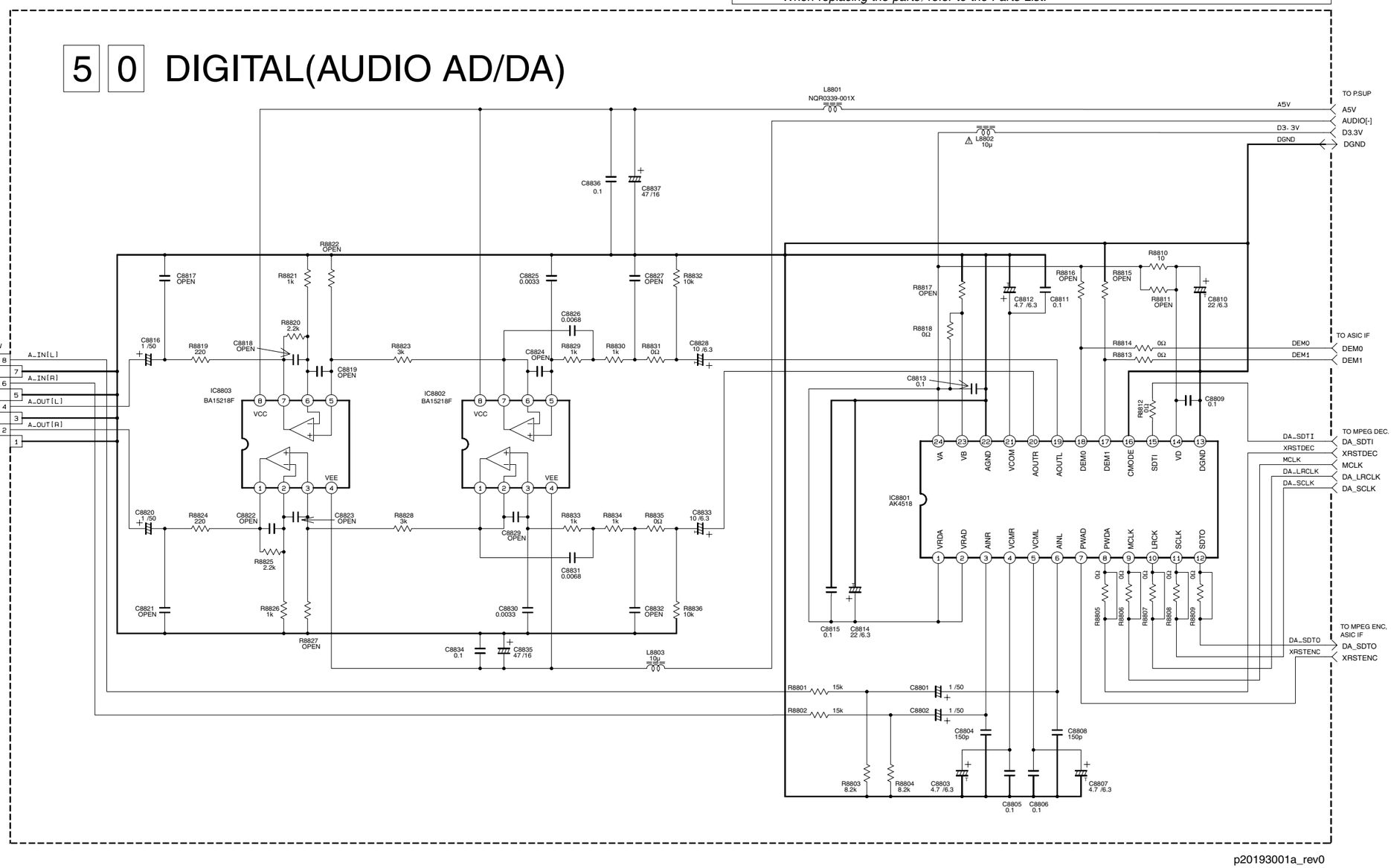
p10313001a_rev1.1

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

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

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.



p20193001a_rev0

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

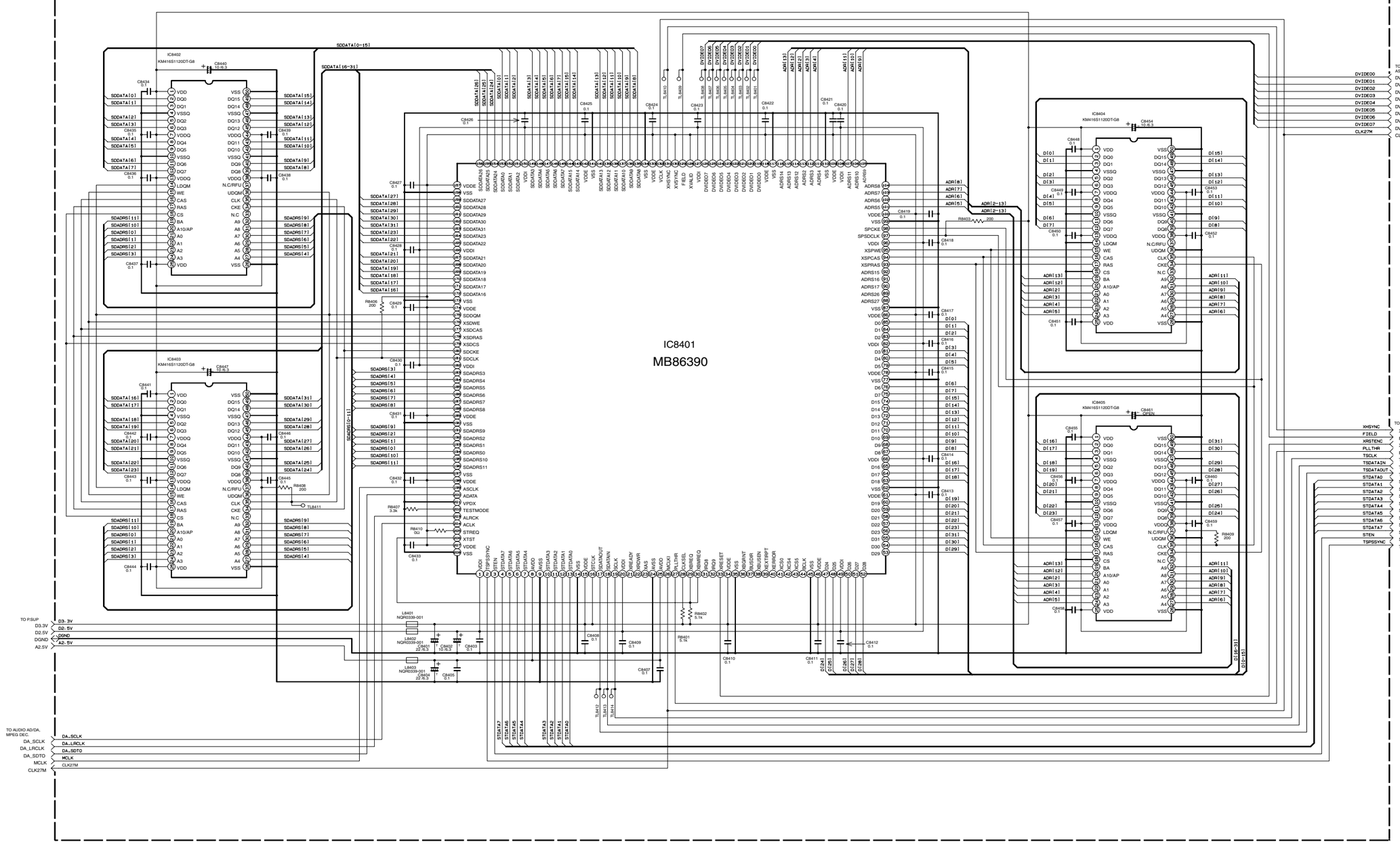
ELECTROLYTIC
CERAMIC
TANTAL

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

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.

5 0 DIGITAL(MPEG ENC.)



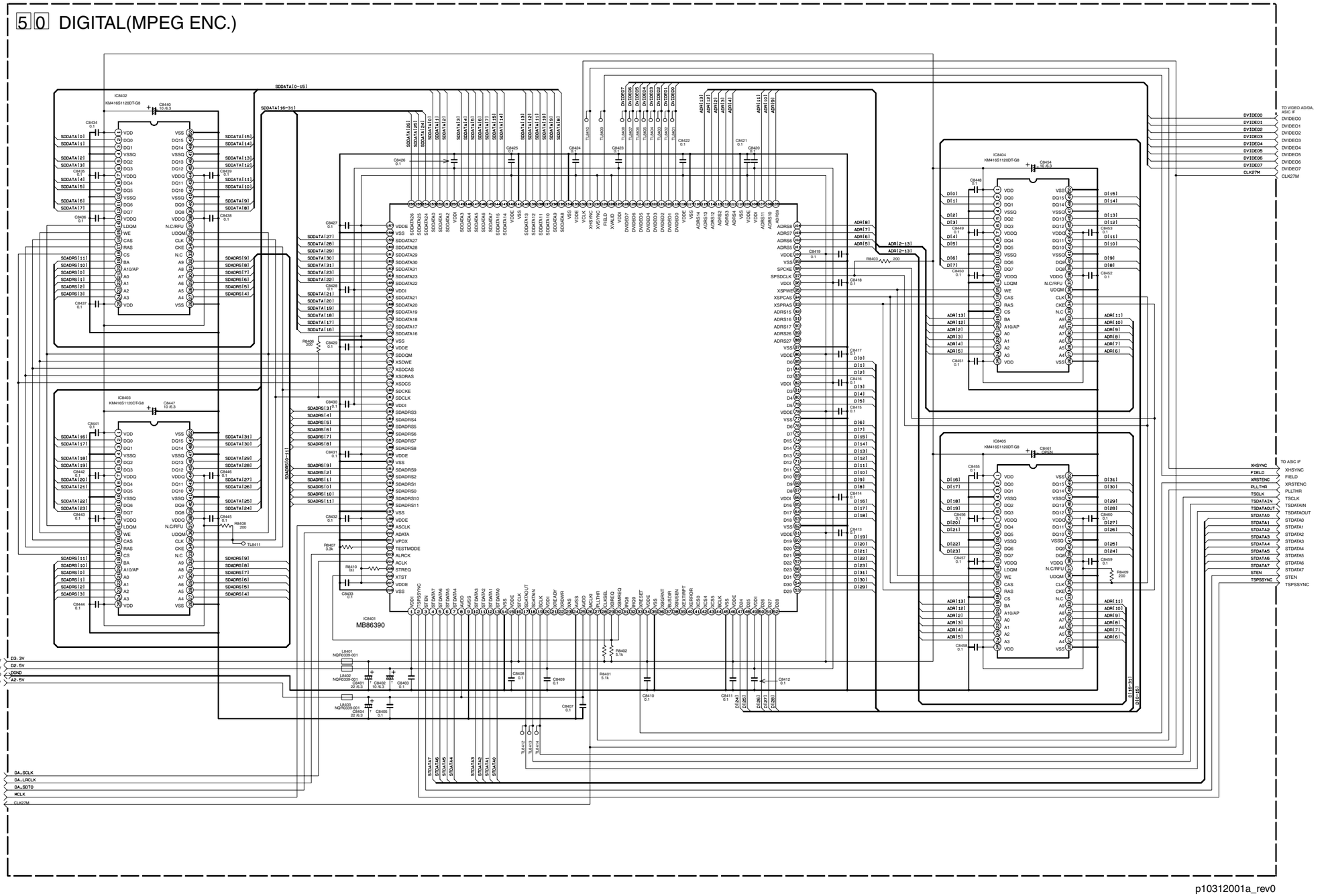
p10312001a_rev0

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

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

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.



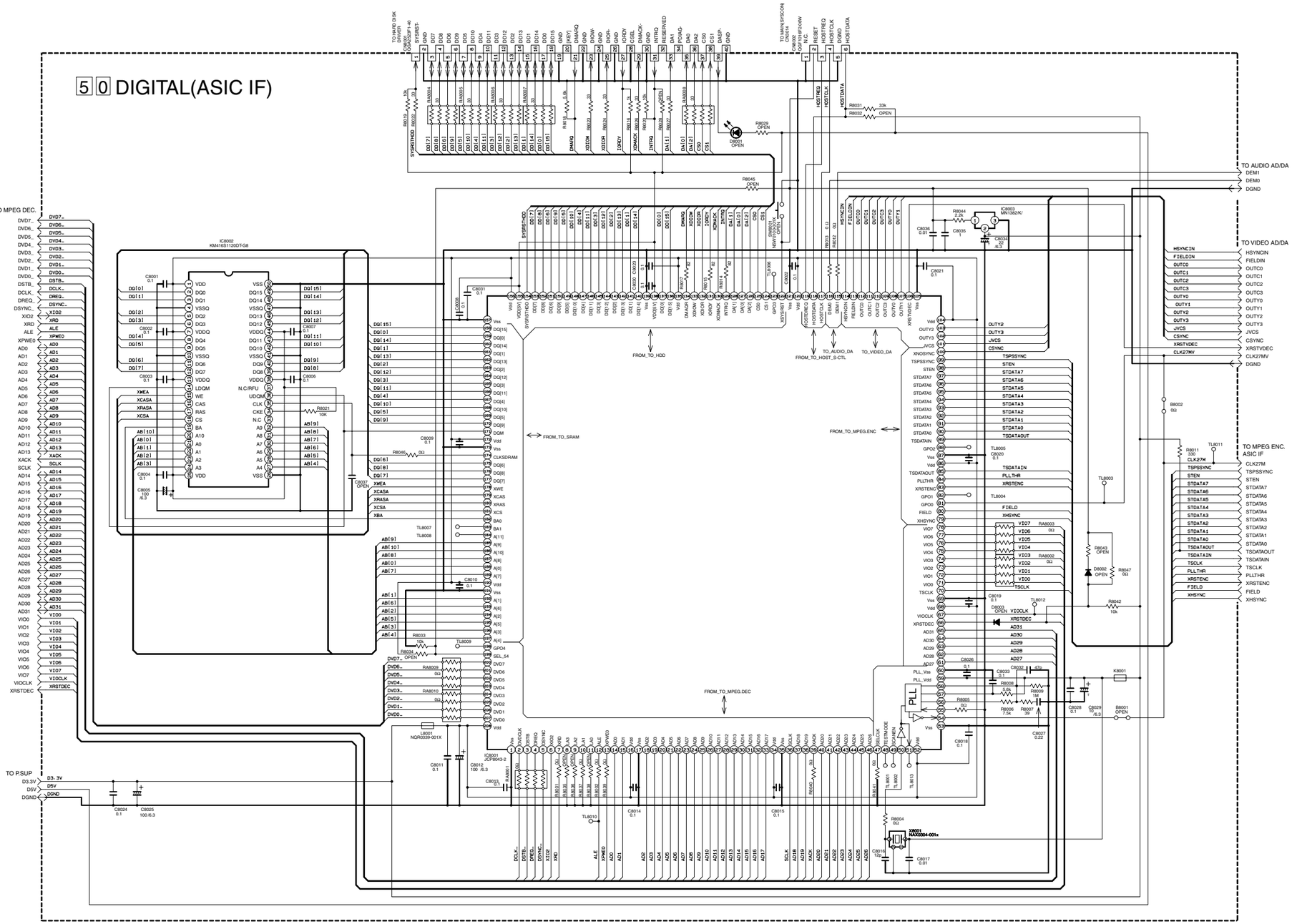
p10312001a_rev0

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	8410	1-8400,8404,8405
C	8461	1-8400,8406
L	8403	1-8400
IC	8405	1-8400
TL	8414	1-8400

4.20 DIGITAL ASIC IF 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.

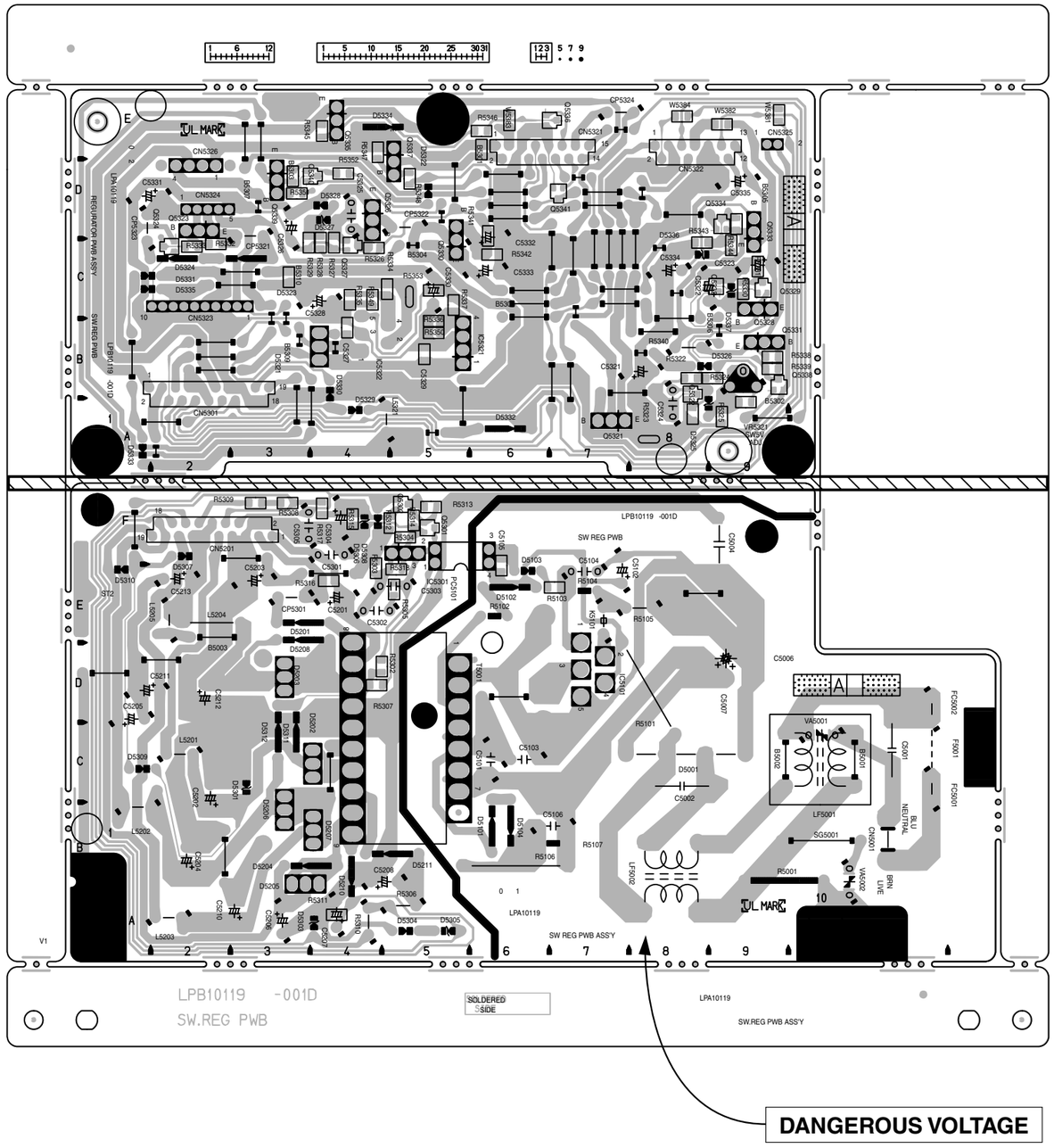
ELECTROLYTIC
CERAMIC
TANTAL

LAST NO		VACANT NO
R	8047	1-8000,8003,8010,8025,8030
C	8037	1-8000
D	8003	1-8000
RA	8010	1-8000
TL	8013	1-8000

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		
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

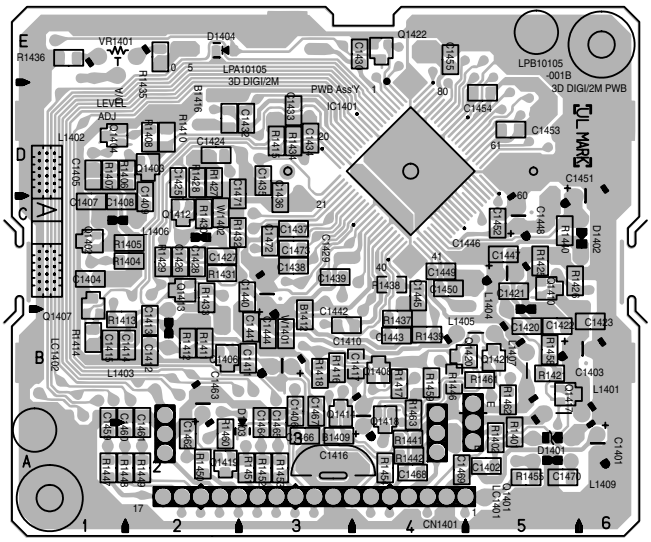
REF.NO.	LOCATION		
D5323	A	D	3C
D5324	A	D	2C
D5325	A	D	9B
D5326	A	D	9B
D5327	A	D	4D
D5328	A	D	4D
D5329	A	D	4A
D5330	A	D	4A
D5331	A	D	1C
D5332	A	D	6A
D5333	A	D	1A
D5334	A	D	4E
D5335	A	D	1C
D5336	A	D	8C
D5337	A	D	9C
IC			
IC5321	A	D	5B
IC5322	A	D	4B
COIL			
L5321	A	D	4A
TRANSISTOR			
Q5321	A	D	7A
Q5322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

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

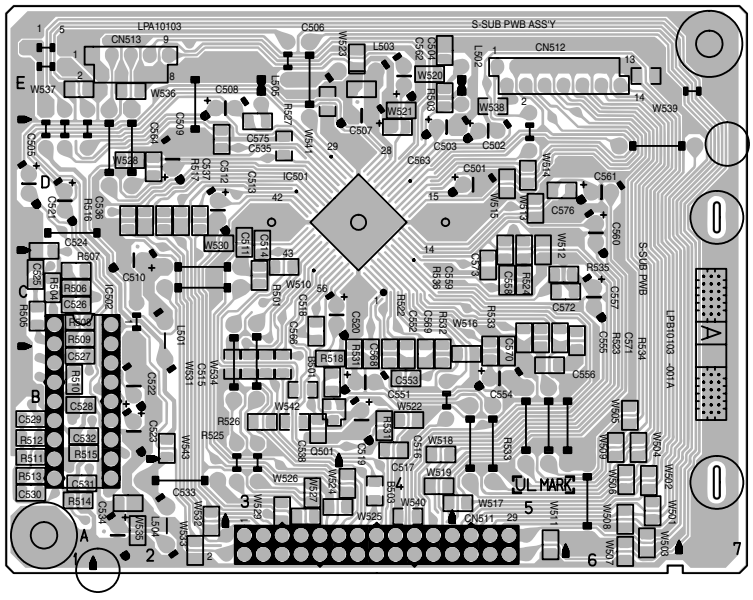
<05> 3D DIGITAL/2M
LPB10105-001B



COMPONENT PARTS LOCATION GIDE <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

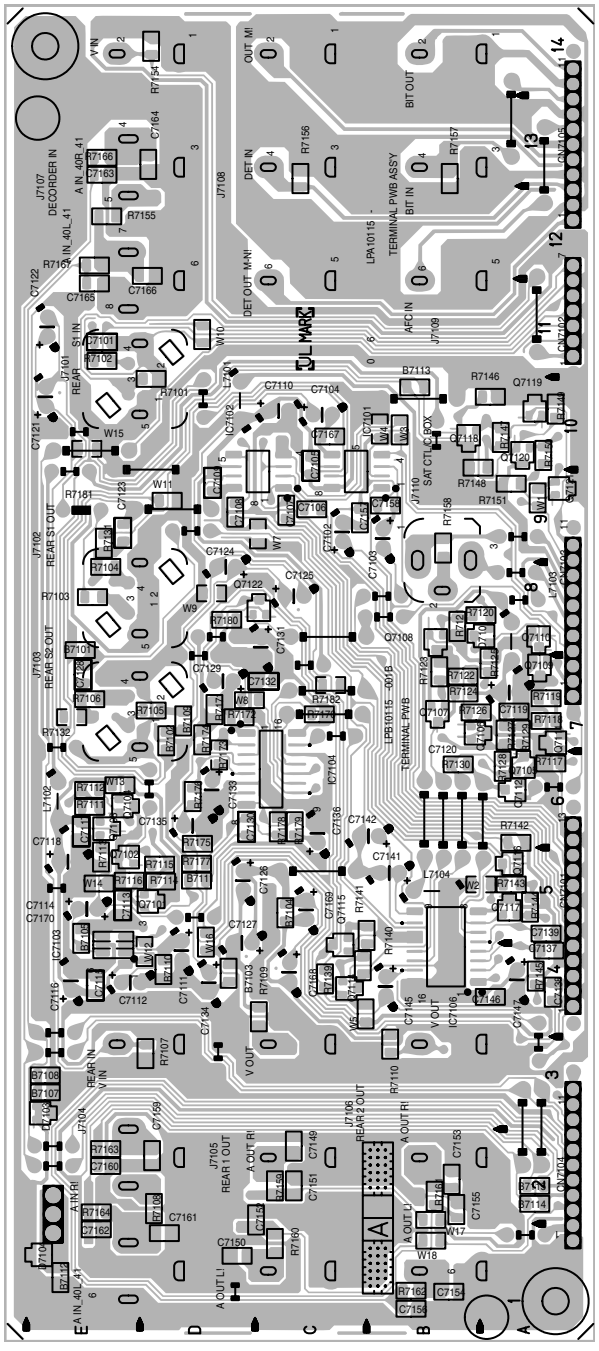


COPMONENT PARTS LOCATION GUIDE <S-SUB>

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

4.23 TERMINAL CIRCUIT BOARD

<06> TERMINAL
LPB10114-001C



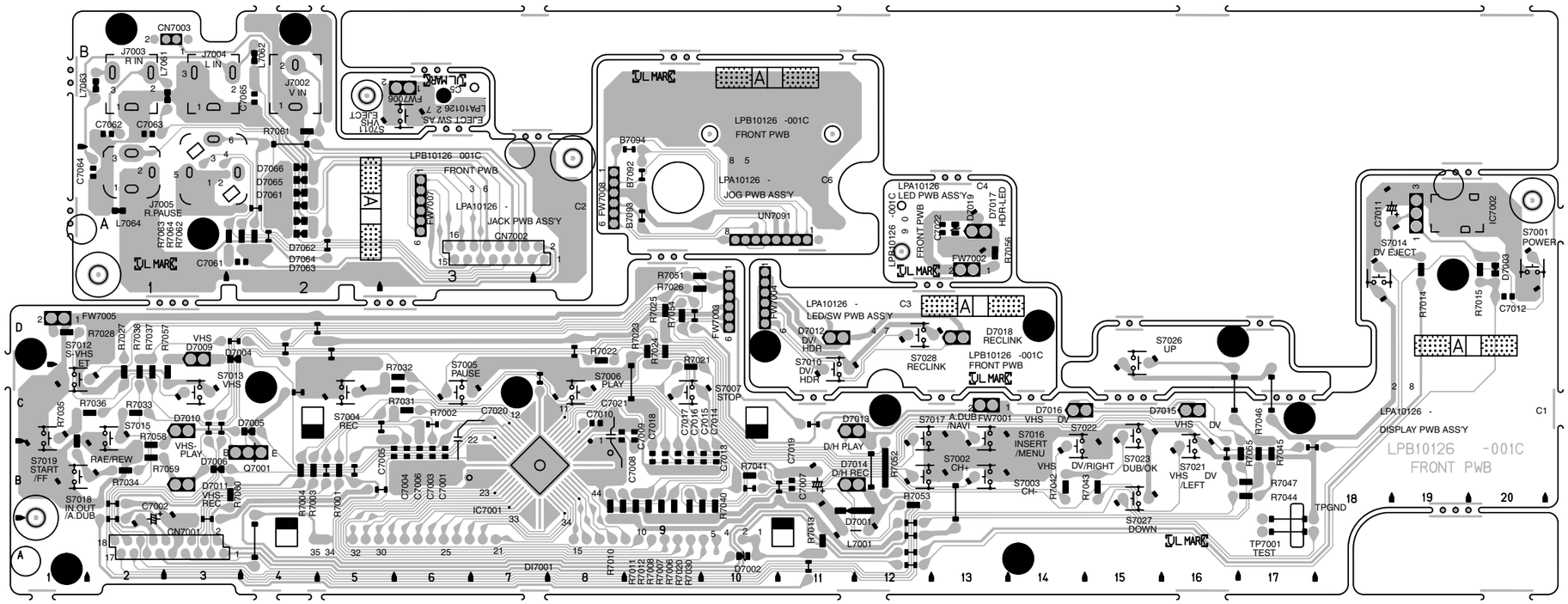
COMPONENT PARTS LOCATION GUIDE
<TERMINAL>

REF.NO.	LOCATION		
CAPACITOR			
C7101	B	C	10E
C7102	A	D	8C
C7103	A	D	8B
C7104	A	D	10C
C7105	B	C	9C
C7106	B	C	9C
C7107	B	C	9C
C7108	B	C	9D
C7109	B	C	9D
C7110	A	D	10C
C7111	A	D	4D
C7112	A	D	4E
C7113	B	C	5E
C7114	A	D	5E
C7115	B	C	4E
C7116	A	D	4E
C7117	B	C	5E
C7118	A	D	5E
C7119	B	C	7A
C7120	A	D	7A
C7121	A	D	10E
C7122	A	D	10E
C7123	B	C	8E
C7124	A	D	8D
C7125	A	D	8C
C7126	A	D	5D
C7127	A	D	4D
C7128	B	C	7E
C7129	A	D	7D
C7130	B	C	6D
C7131	A	D	7C
C7132	B	C	7C
C7133	A	D	6D
C7134	A	D	4D
C7135	A	D	6D
C7136	A	D	5C
C7137	B	C	4A
C7138	B	C	4A
C7139	B	C	4A
C7141	A	D	5B
C7142	A	D	5B
C7145	A	D	4B
C7146	B	C	4A
C7147	A	D	4A
C7149	B	C	2C
C7150	B	C	1D
C7151	B	C	2C
C7152	B	C	2C
C7153	B	C	2B
C7154	B	C	1B
C7155	B	C	2B
C7156	B	C	1B
C7157	B	C	9C
C7158	B	C	9B
C7159	B	C	2D
C7160	B	C	2E
C7161	B	C	2D
C7162	B	C	2E
C7163	B	C	12E
C7164	B	C	12D
C7165	B	C	11E
C7166	B	C	11D
C7167	B	C	9C
C7168	A	D	4C
C7169	A	D	5C
C7170	A	D	5E

REF.NO.	LOCATION		
CONNECTOR			
CN7101	A	D	4A
CN7102	A	D	10A
CN7103	A	D	7A
CN7104	A	D	1A
CN7105	A	D	11A
DIODE			
D7101	B	C	7A
D7103	B	C	3E
D7104	B	C	1E
IC			
IC7101	B	C	9C
IC7102	B	C	9C
IC7103	B	C	4E
IC7104	B	C	6C
IC7106	B	C	4B
JACK			
J7101	A	D	10E
J7102	A	D	8E
J7103	A	D	7E
J7104	A	D	2E
J7105	A	D	2C
J7106	A	D	2B
J7107	A	D	12E
J7108	A	D	12C
J7109	A	D	12B
J7110	A	D	8B
COIL			
L7101	A	D	10D
L7102	A	D	6E
L7103	A	D	8A
L7104	A	D	5B
TRANSISTOR			
Q7101	B	C	5D
Q7102	B	C	5E
Q7103	B	C	6E
Q7104	B	C	6E
Q7105	B	C	6A
Q7106	B	C	6B
Q7107	B	C	7B
Q7108	B	C	7B
Q7109	B	C	7A
Q7110	B	C	7A
Q7111	B	C	6A
Q7112	B	C	6A
Q7114	B	C	4C
Q7115	B	C	4C
Q7116	B	C	5A
Q7117	B	C	5A
Q7118	B	C	9B
Q7119	B	C	10A
Q7120	B	C	9A
Q7121	B	C	9A
Q7122	B	C	8C
RESISTOR			
R7101	B	C	10D
R7102	B	C	10E
R7103	B	C	8E
R7104	B	C	8E
R7105	B	C	7D
R7106	B	C	7E
R7107	B	C	3D
R7108	B	C	2D
R7109	B	C	4C
R7110	B	C	3B

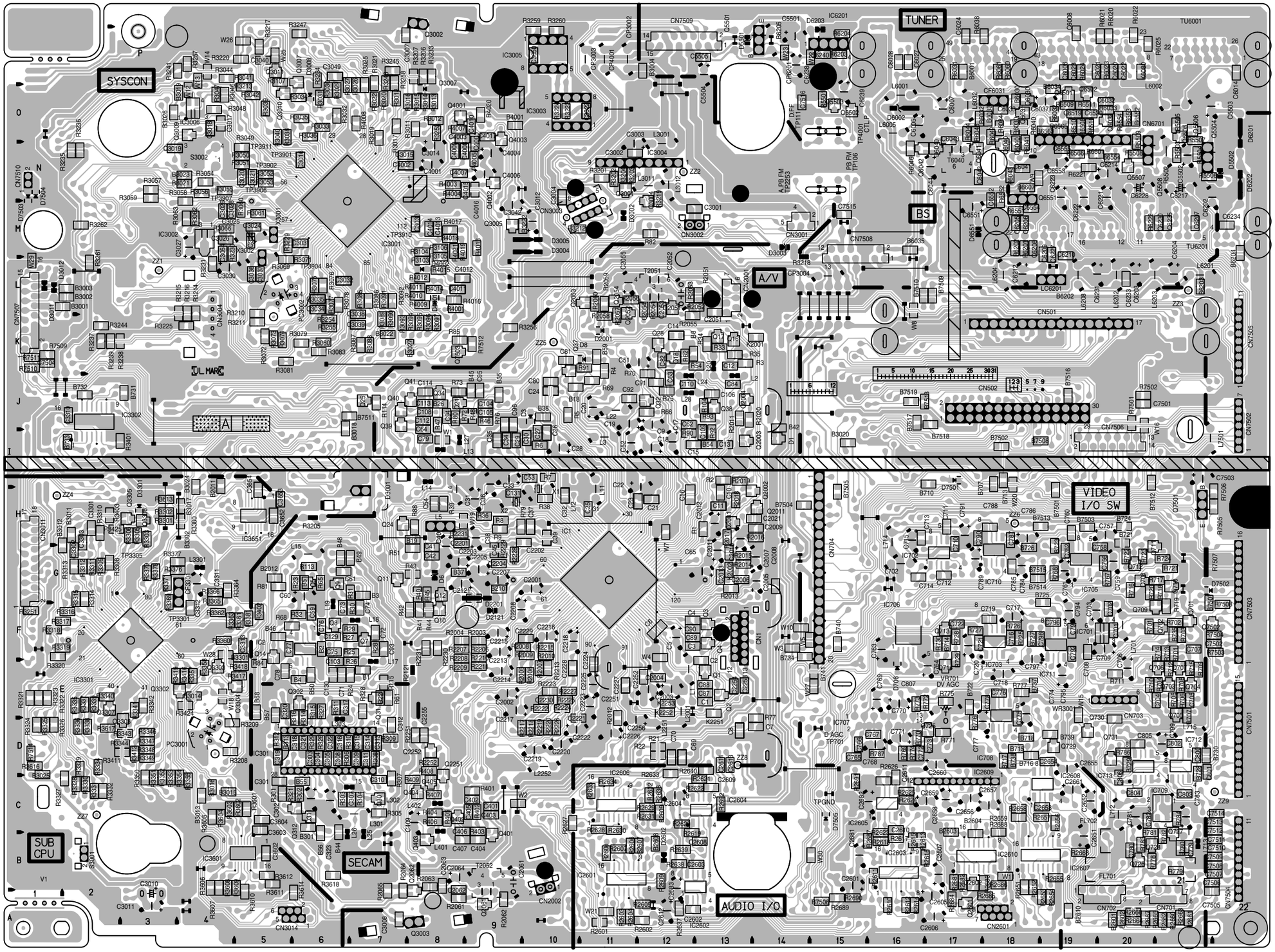
REF.NO.	LOCATION		
R7111	B	C	6E
R7112	B	C	6E
R7113	B	C	5E
R7114	B	C	5D
R7115	B	C	5D
R7116	B	C	5E
R7117	B	C	6A
R7118	B	C	7A
R7119	B	C	7A
R7120	B	C	8A
R7121	B	C	7B
R7122	B	C	7B
R7123	B	C	7B
R7124	B	C	7B
R7125	B	C	7A
R7126	B	C	7B
R7127	B	C	6A
R7128	B	C	6A
R7129	B	C	6A
R7130	B	C	6B
R7131	B	C	8E
R7132	B	C	7E
R7139	B	C	4C
R7140	B	C	4C
R7141	B	C	4C
R7142	B	C	5A
R7143	B	C	5A
R7144	B	C	5A
R7145	B	C	4A
R7146	B	C	10A
R7147	B	C	9A
R7148	B	C	9B
R7149	B	C	10A
R7150	B	C	9A
R7151	B	C	9A
R7154	B	C	13D
R7155	B	C	12E
R7156	B	C	12C
R7157	B	C	12B
R7158	B	C	8B
R7159	B	C	2C
R7160	B	C	1C
R7161	B	C	2B
R7162	B	C	1B
R7163	B	C	2E
R7164	B	C	2E
R7166	B	C	12E
R7167	B	C	11E
R7170	B	C	7C
R7171	B	C	7D
R7172	B	C	7D
R7173	B	C	6D
R7174	B	C	6D
R7175	B	C	5D
R7176	B	C	6D
R7177	B	C	5D
R7178	B	C	6C
R7179	B	C	6C
R7180	B	C	8D
R7181	A	D	9E
R7182	B	C	7C

<27> EJECT SW, <28> DISPLAY, <36> JACK, <47> LED/SW, <90> LED
LPB10126-001C



4.25 MAIN CIRCUIT BOARD

<03> MAIN
LPB10113-001D



COMPONENT 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 13J
C14	B C 12K
C15	B C 12I
C16	B C 12H
C17	A D 12I
C18	A D 12I
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R6	B C 10I
R7	B C 10I
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R9	B C 9H
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R26	B C 7E
R27	B C 7F
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R29	B C 7F
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R40	B C 8G
R41	B C 8F
R43	B C 8G
R44	B C 8F
R45	B C 8G
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R47	B C 8J
R48	B C 9J
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R53	B C 13K
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R2015	B C 13G
R2016	B C 14H
R2017	B C 13H
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R3202	B C 11N
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R3204	B C 11N
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R3207	B C 8P
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R3214	B C 4L
R3215	B C 4L
R3216	B C 4L
R3217	B C 5P
R3218	A D 14M
R3219	B C 12N
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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
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R3239	B C 2K
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R3245	B C 7P
R3246	B C 7P
R3247	B C 6P
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R3252	B C 6O
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R3255	B C 6K
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R3258	B C 7P
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R3261	B C 2L
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R3325	B C 1D
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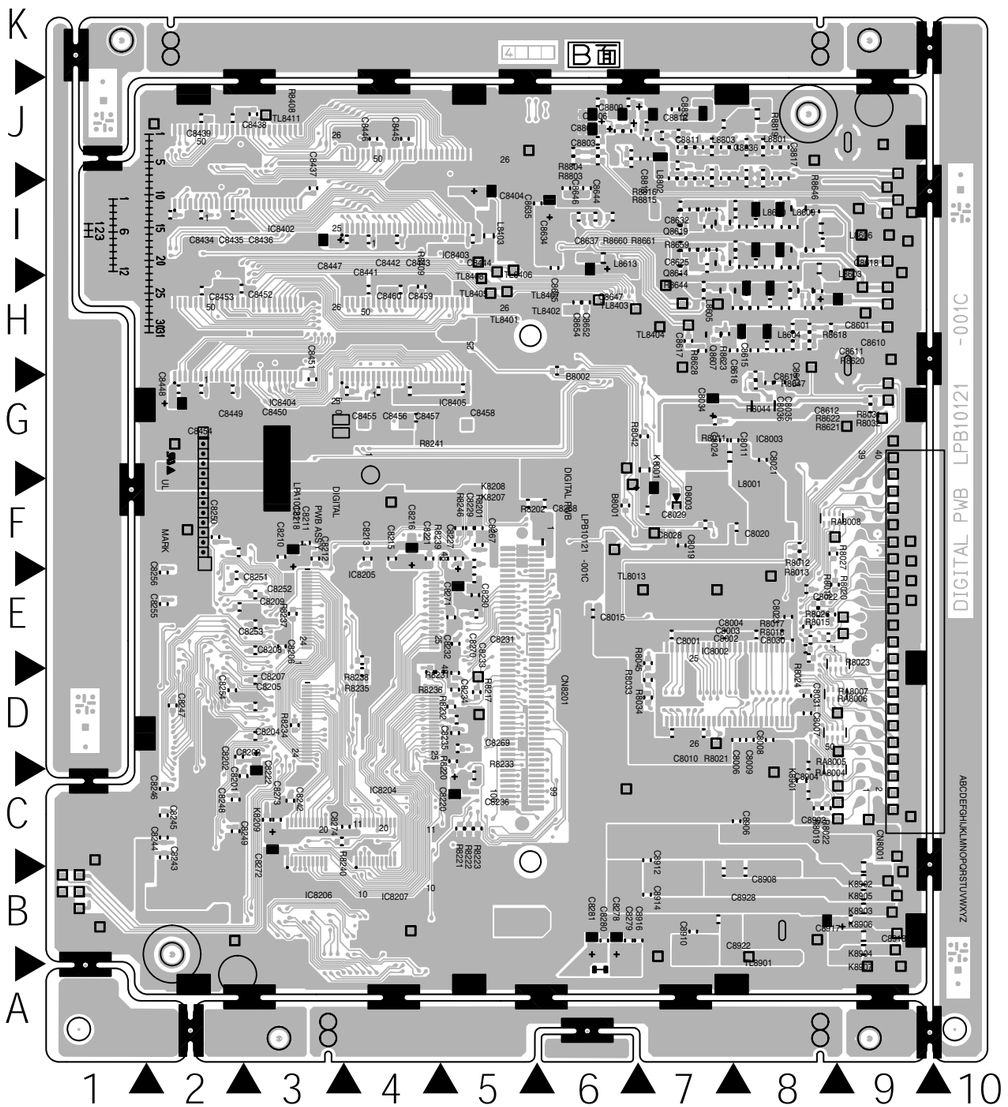
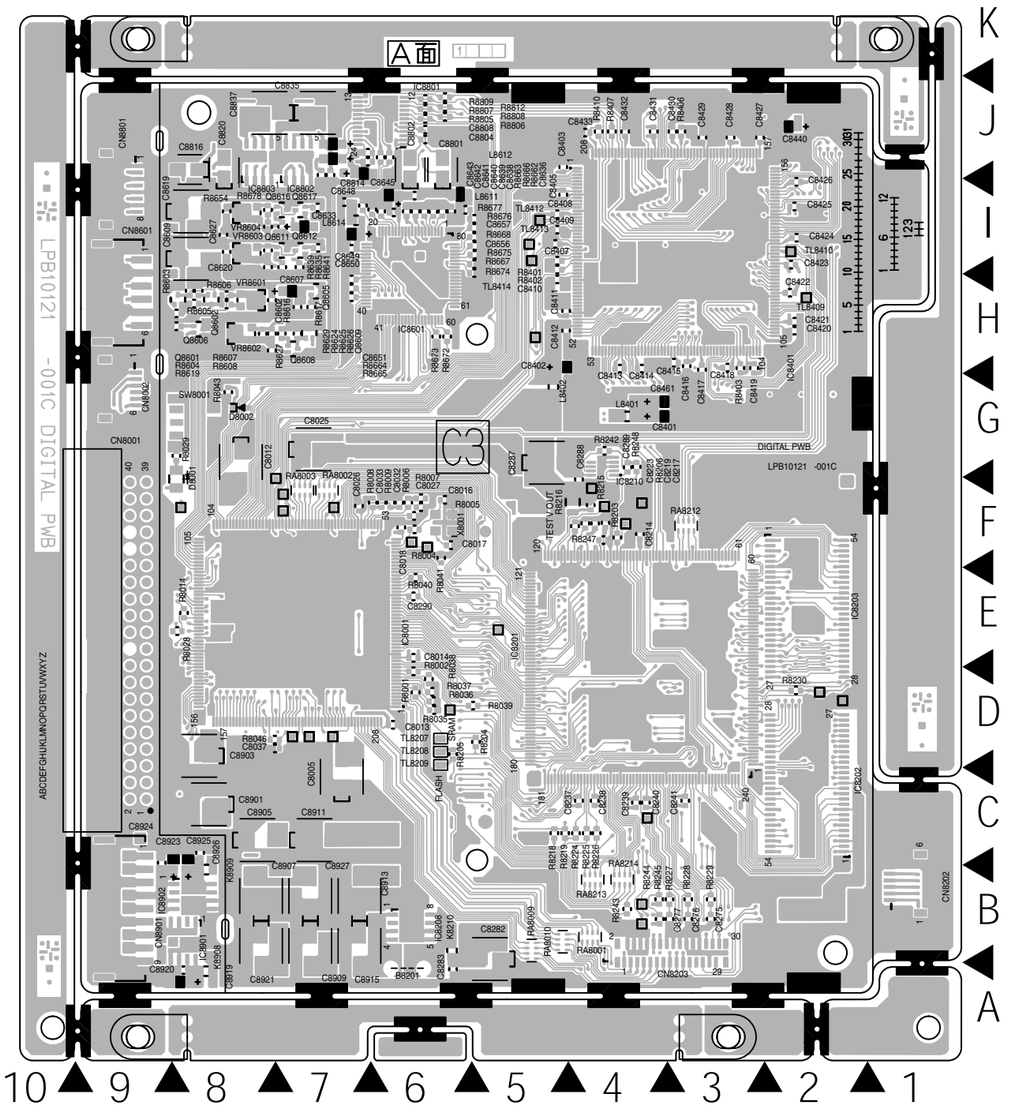


— COMPONENT SIDE(A) —



COMPONENT PARTS LOCATION GUIDE <DIGITAL>

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C8002	B	C	7E
C8003	B	C	8E
C8004	B	C	8E
C8005	A	C	7C
C8006	B	C	8D
C8007	B	C	8D
C8008	B	C	8D
C8009	B	C	8D
C8010	B	C	7D
C8011	B	C	7G
C8012	A	C	8G
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C8014	A	C	6E
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C8016	A	C	6F
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C8027	A	C	6F
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C8272	B	C	3C
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CONNECTOR			
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CN8002	A	C	9G
CN8201	B	C	5D
CN8202	A	C	1B
CN8203	A	C	4B
CN8601	A	C	9I
CN8801	A	C	9I
CN8901	A	C	9C
DIODE			
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D8002	A	C	8G
D8003	B	C	7F
IC			
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IC8002	B	C	7D
IC8003	B	C	8G
IC8201	A	C	4D
IC8202	A	C	2C
IC8203	A	C	2E
IC8204	B	C	4D
IC8205	B	C	4E
IC8206	B	C	3C
IC8207	B	C	4C
IC8208	A	C	6B
IC8210	A	C	4G
IC8401	A	C	3I
IC8402	B	C	2J
IC8403	B	C	4I
IC8404	B	C	2H
IC8405	B	C	4H
IC8601	A	C	6H
IC8801	A	C	6J
IC8802	A	C	7J
IC8803	A	C	8J
IC8901	A	C	8B
IC8902	A	C	8B
COIL			
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L8401	A	C	4G
L8402	A	C	5G
L8403	B	C	5I
L8601	B	C	8H
L8602	B	C	8H
L8603	B	C	8I
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L8606	B	C	8I
L8607	B	C	8I
L8608	B	C	8I
L8609	B	C	8I
L8610	B	C	8I
L8611	A	C	6I
L8612	A	C	6I
L8613	B	C	6I
L8614	A	C	7I
L8801	B	C	8J
L8802	B	C	7J
L8803	B	C	7J
TRANSISTOR			
Q8601	A	C	8H
Q8602	A	C	8H
Q8603	B	C	8H
Q8604	B	C	7H
Q8605	A	C	7H
Q8606	A	C	8H
Q8607	B	C	7H
Q8608	A	C	7H
Q8609	A	C	7H
Q8610	B	C	8I
Q8611	A	C	7I
Q8612	A	C	7I
Q8613	B	C	7I
Q8614	B	C	7I
Q8615	B	C	8I
Q8616	A	C	7I
Q8617	A	C	7I
Q8618	B	C	7I
Q8619	B	C	7I
RESISTOR			
R8001	A	C	6D
R8002	A	C	6D
R8004	A	C	6F
R8005	A	C	6F
R8006	A	C	6F
R8007	A	C	6F
R8008	A	C	6F
R8009	A	C	6F
R8011	B	C	7G
R8012	B	C	8F
R8013	B	C	8F
R8014	A	C	8E
R8015	B	C	8E
R8016	B	C	8E
R8017	B	C	8E
R8018	B	C	8E
R8019	B	C	8C
R8020	B	C	9E
R8021	B	C	7D
R8022	B	C	8C
R8023	B	C	8E
R8024	B	C	8E
R8026	B	C	8E
R8027	B	C	9F
R8028	A	C	8E
R8029	A	C	8G
R8031	B	C	9G
R8032	B	C	9G
R8033	B	C	7D
R8034	B	C	7D
R8035	A	C	6D
R8036	A	C	6D
R8037	A	C	6D
R8038	A	C	6D
R8039	A	C	5D
R8040	A	C	6E
R8041	A	C	6F
R8042	B	C	7G
R8043	A	C	8G
R8044	B	C	8G
R8045	B	C	7E
R8046	A	C	7D
R8047	B	C	8G
R8201	B	C	5F
R8202	B	C	5F
R8203	A	C	4F
R8204	A	C	5D
R8205	A	C	6D
R8206	A	C	4F
R8215	A	C	4F
R8216	A	C	4F
R8217	B	C	5D
R8218	A	C	5C
R8219	A	C	5C
R8220	B	C	5D
R8221	B	C	5C
R8222	B	C	5C
R8223	B	C	5C
R8224	A	C	4C
R8225	A	C	4C
R8226	A	C	4C
R8227	A	C	3B
R8228	A	C	3B
R8229	A	C	3B
R8230	A	C	2D
R8231	B	C	5D
R8232	B	C	5D
R8233	B	C	5D
R8234	B	C	3D
R8235	B	C	4D
R8236	B	C	4D
R8237	B	C	3E
R8238	B	C	4E
R8239	B	C	5F
R8240	B	C	4C
R8241	B	C	4G
R8242	A	C	4G
R8243	A	C	4B
R8244	A	C	4B
R8245	A	C	4B
R8246	B	C	5F
R8247	A	C	4F
R8248	A	C	4G
R8401	A	C	5I
R8402	A	C	5I
R8403	A	C	3H
R8406	A	C	3J
R8407	A	C	4J
R8408	B	C	3J
R8409	B	C	4H
R8410	A	C	4J
R8601	B	C	8H
R8602	B	C	8H
R8603	A	C	8H
R8604	A	C	8H
R8605	A	C	8H
R8606	A	C	8H
R8607	A	C	8H
R8608	A	C	8H
R8609	B	C	8H
R8610	B	C	8H
R8611	B	C	8H
R8612	B	C	8H
R8613	B	C	7H
R8614	A	C	7H
R8615	B	C	8H
R8616	A	C	7H
R8617	A	C	7H
R8618	B	C	8H
R8619	A	C	8H
R8620	B	C	8H
R8621	B	C	8H
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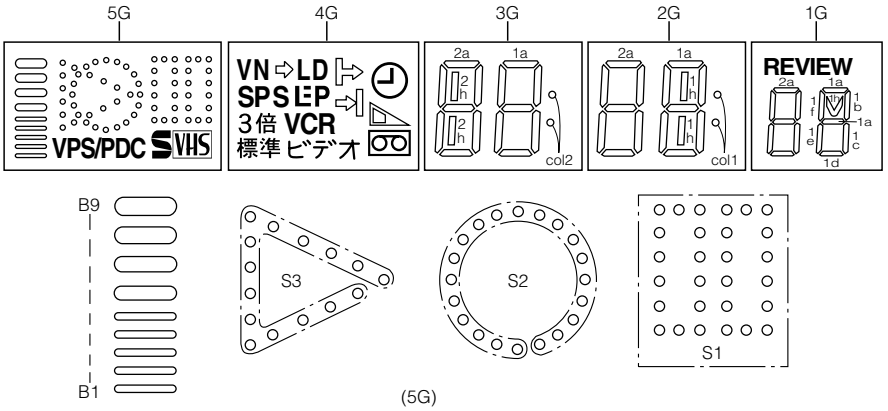
R8623	B	C	7H
R8624	A	C	8H
R8625	A	C	7H
R8626	A	C	7H
R8627	A	C	8H
R8628	B	C	7H
R8629	A	C	8H
R8631	B	C	8I
R8632	B	C	8I
R8633	B	C	8I
R8634	B	C	8I
R8635	A	C	7I
R8636	A	C	7I
R8637	A	C	8I
R8638	B	C	7I
R8639	A	C	8I
R8640	B	C	7I
R8641	A	C	7I
R8643	B	C	7I
R8644	B	C	7I
R8646	B	C	8I
R8647	B	C	8I
R8648	B	C	8I
R8649	B	C	8I
R8650	A	C	7I
R8651	A	C	7I
R8652	A	C	8I
R8653	B	C	7I
R8654	A	C	8I
R8655	B	C	7I
R8656	B	C	7I
R8658	B	C	7I
R8659	B	C	7I
R8660	B	C	6I
R8661	B	C	6I
R8662	A	C	6I
R8663	A	C	6I
R8664	A	C	7H
R8665	A	C	7H
R8666	A	C	6I
R8667	A	C	5I
R8668	A	C	5I
R8672	A	C	6H
R8673	A	C	6H
R8674	A	C	5H
R8675	A	C	5I
R8676	A	C	5I
R8677	A	C	6I
R8801	B	C	6J
R8802	B	C	6J
R8803	B	C	6J
R8804	B	C	6J
R8805	A	C	6J
R8806	A	C	6J
R8807	A	C	6J
R8808	A	C	6J
R8809	A	C	6J
R8810	B	C	6J
R8811	B	C	6J
R8812	A	C	6J
R8813	A	C	6J
R8814	A	C	6J
R8815	B	C	6J
R8816	B	C	6J
R8817	A	C	7J
R8818	A	C	7J
R8819	B	C	8J
R8820	B	C	8J
R8821	B	C	8J
R8822	B	C	7J
R8823	B	C	7J
R8824	B	C	8I
R8825	B	C	8J
R8826	B	C	8I
R8827	B	C	7I
R8828	B	C	7I
R8829	B	C	7J
R8830	B	C	7J
R8831	B	C	7J
R8832	A	C	7I
R8833	B	C	7I
R8834	B	C	7I
R8835	B	C	7J
R8836	A	C	7I
VR8601	A	C	8H
VR8602	A	C	8H
VR8603	A	C	8I
VR8604	A	C	8I
RESISTOR ARRAY			
RA8001	A	C	4B
RA8002	A	C	7F
RA8003	A	C	7F
RA8004	B	C	9C
RA8005	B	C	9D
RA8006	B	C	9D
RA8007	B	C	9E
RA8008	B	C	8F
RA8009	A	C	5B
RA8010	A	C	5B
RA8212	A	C	3F
RA8213	A	C	4B
RA8214	A	C	4B
OTHER			
K8001	B	C	7G
K8207	B	C	5E
K8208	B	C	5F
K8209	B	C	3C
K8210	A	C	6B
K8901	B	C	8C
K8902	B	C	9B
K8903	B	C	9B
K8904	B	C	9B
K8905	B	C	9B
K8906	B	C	9B
K8907	B	C	9B
K8908	A	C	8A
K8909	A	C	8B
PC0177	A	C	10A
PC0179	A	C	1J
PC0180	A	C	1J
PC0248	A	C	10A
SW8001	A	C	8G
TL8001	A	C	6F
TL8002	A	C	6F
TL8003	A	C	7F
TL8004	A	C	7F
TL8005	A	C	7F
TL8006	A	C	8F
TL8007	A	C	7D
TL8008	A	C	7D
TL8009	A	C	7D
TL8010	A	C	6D
TL8011	A	C	5H
TL8012	A	C	7F
TL8013	B	C	6F
TL8201	A	C	5E
TL8202	A	C	4F
TL8203	A	C	4B
TL8204	A	C	4B
TL8205	A	C	4F
TL8207	A	C	6D
TL8208	A	C	6D
TL8209	A	C	6D
TL8211	A	C	4F
TL8212	A	C	2D
TL8213	A	C	2D
TL8214	A	C	4F
TL8215	A	C	4C
TL8401	B	C	5H
TL8402	B	C	5H
TL8403	B	C	6H
TL8404	B	C	6H
TL8405	B	C	5H
TL8406	B	C	5I
TL8407	B	C	5I
TL8408	B	C	5I
TL8409	A	C	2H
TL8410	A	C	2I
TL8411	B	C	3J
TL8412	A	C	5I
TL8413	A	C	5I
TL8414	A	C	5I
TL8601	B	C	9H
TL8602	B	C	9I
TL8603	B	C	7H
TL8604	B	C	7H
TL8901	B	C	8B
X8001	A	C	6F

4.28 FDP GRID ASSIGNMENT AND ANODE CONNECTION

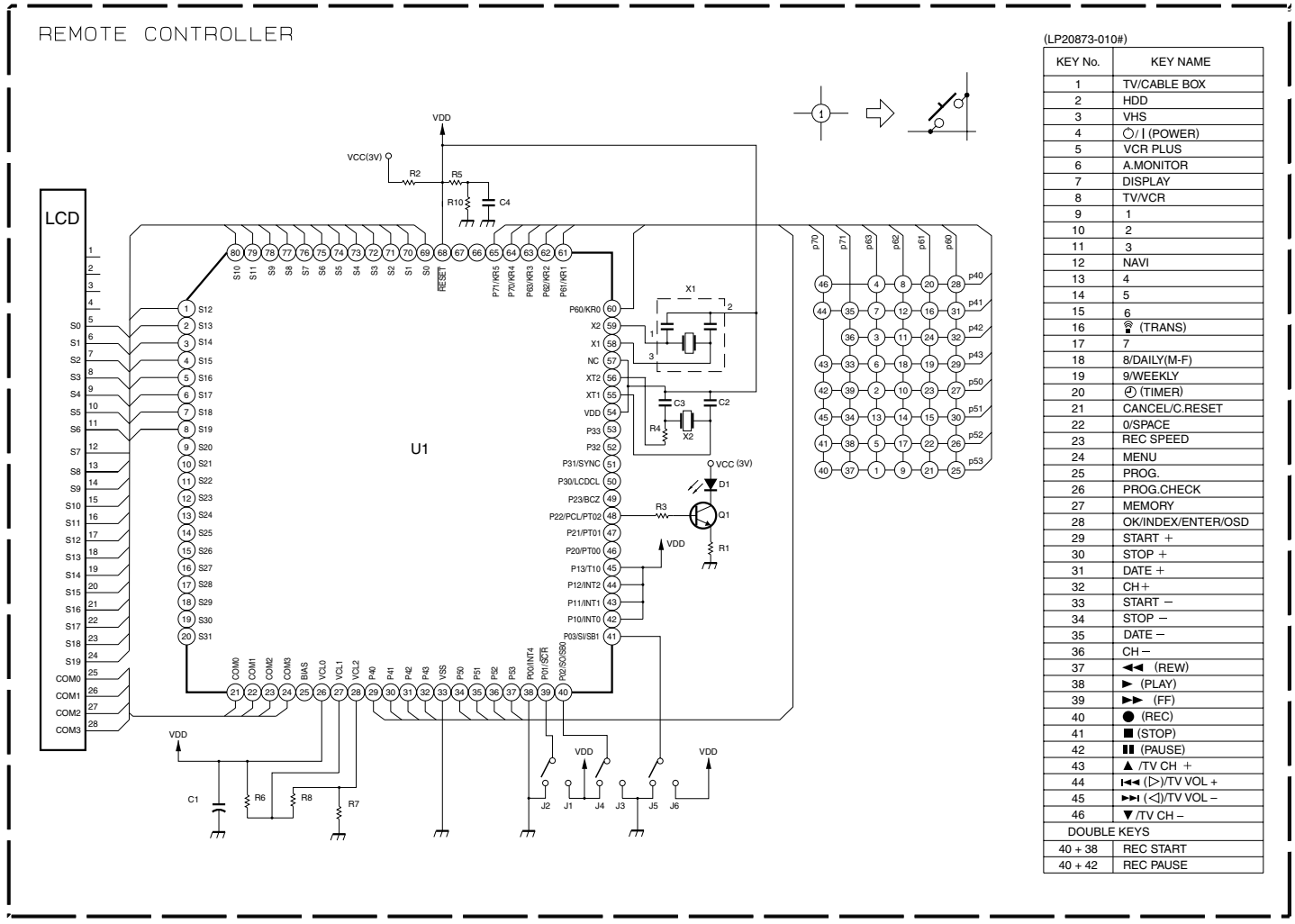


ANODE CONNECTION

	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	S-VHS	◷	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

4.29 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.



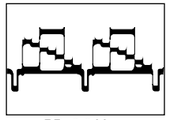
(LP20873-010#)

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

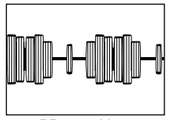
< VIDEO >

WF1 IC1-27



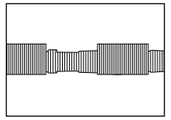
PB 2.3 Vp-p
50 mV/20 µsec/DIV

WF2 IC1-30



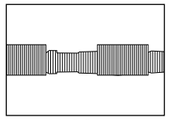
PB 0.88 Vp-p
20 mV/20 µsec/DIV

WF3 TP106 PB FM



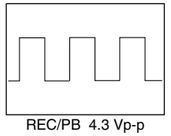
PB 0.52 Vp-p
20 mV/5 msec/DIV

WF4 IC1-1



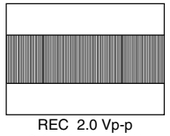
PB 0.3 Vp-p
20 mV/5 msec/DIV

WF5 TP111 D.FF



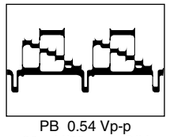
REC/PB 4.3 Vp-p
0.1 V/10 msec/DIV

WF6 IC1-105



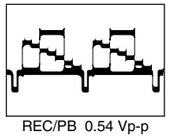
REC 2.0 Vp-p
0.1 V/1 msec/DIV

WF7 IC1-14



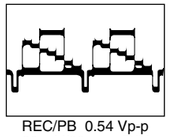
PB 0.54 Vp-p
20 mV/20 µsec/DIV

WF8 IC1-13



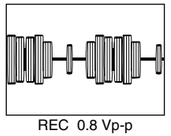
REC/PB 0.54 Vp-p
20 mV/20 µsec/DIV

WF9 IC1-11



REC/PB 0.54 Vp-p
20 mV/20 µsec/DIV

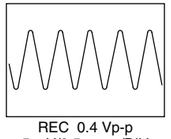
WF10 IC1-16



REC 0.8 Vp-p
20 mV/20 µsec/DIV

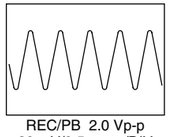
< AUDIO >

WF1 IC1-80



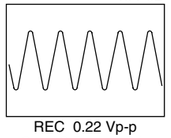
REC 0.4 Vp-p
5 mV/0.5 msec/DIV

WF2 IC1-62



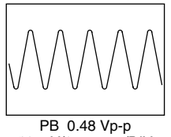
REC/PB 2.0 Vp-p
20 mV/0.5 msec/DIV

WF3 IC1-52



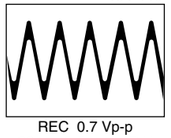
REC 0.22 Vp-p
2 mV/0.5 msec/DIV

WF4 IC1-48



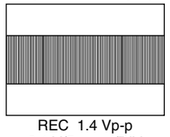
PB 0.48 Vp-p
10 mV/0.5 msec/DIV

WF5 IC1-119



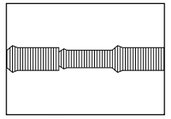
REC 0.7 Vp-p
20 mV/0.5 msec/DIV

WF6 IC1-97



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

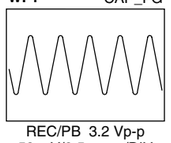
WF7 TP2253 A.PB FM



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

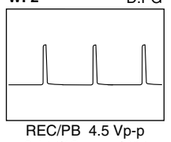
< SYSCON >

WF1 CN3003-2 CAP_FG



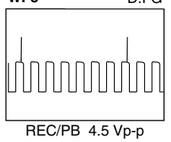
REC/PB 3.2 Vp-p
50 mV/0.5 msec/DIV

WF2 CN3001-4 D.PG



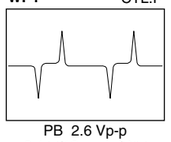
REC/PB 4.5 Vp-p
0.1 V/10 msec/DIV

WF3 CN3001-5 D.FG



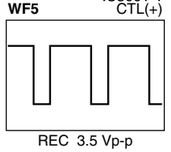
REC/PB 4.5 Vp-p
0.1 V/10 msec/DIV

WF4 TP4001 CTL.P



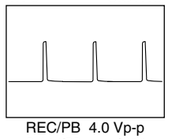
PB 2.6 Vp-p
0.1 V/10 msec/DIV

WF5 IC3001-1 CTL(+)



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

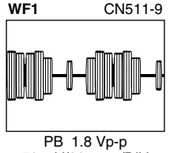
WF6 IC3001-98 C.SYNC



REC/PB 4.0 Vp-p
0.1 V/20 µsec/DIV

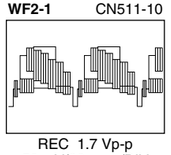
< S-SUB >

WF1 CN511-9



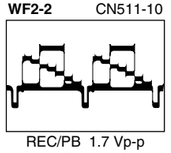
PB 1.8 Vp-p
50 mV/20 µsec/DIV

WF2-1 CN511-10



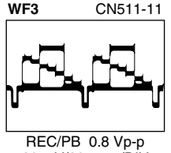
REC 1.7 Vp-p
50 mV/20 µsec/DIV

WF2-2 CN511-10



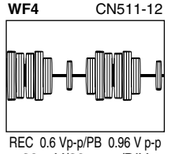
REC/PB 1.7 Vp-p
50 mV/20 µsec/DIV

WF3 CN511-11



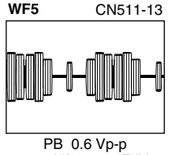
REC/PB 0.8 Vp-p
20 mV/20 µsec/DIV

WF4 CN511-12



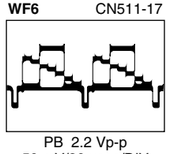
REC 0.6 Vp-p/PB 0.96 V p-p
20 mV/20 µsec/DIV

WF5 CN511-13



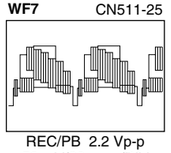
PB 0.6 Vp-p
20 mV/20 µsec/DIV

WF6 CN511-17



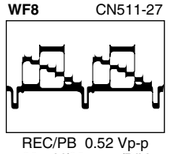
PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF7 CN511-25



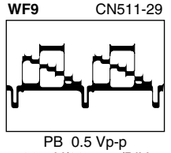
REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF8 CN511-27



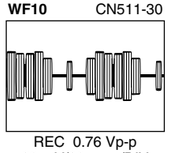
REC/PB 0.52 Vp-p
20 mV/20 µsec/DIV

WF9 CN511-29



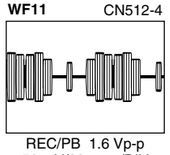
PB 0.5 Vp-p
20 mV/20 µsec/DIV

WF10 CN511-30



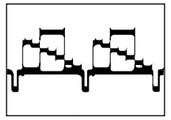
REC 0.76 Vp-p
20 mV/20 µsec/DIV

WF11 CN512-4



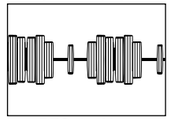
REC/PB 1.6 Vp-p
50 mV/20 µsec/DIV

WF12 CN512-6



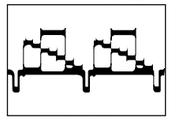
REC/PB 2.2 Vp-p
50 mV/20 µsec/DIV

WF13 CN512-12



REC 0.7 Vp-p
20 mV/20 µsec/DIV

WF14 CN512-14



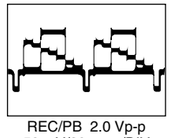
REC 1.0 Vp-p
20 mV/20 µsec/DIV

< ON SCREEN >

WF1 IC851-15 CV_IN

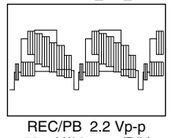
REC/PB 2.0 Vp-p
50 mV/20 µsec/DIV

WF2 IC851-13 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

4.31 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
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	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

<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	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	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

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	2.1	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	1.9	1.9
67	3.2	3.2
68	3.2	3.2
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

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
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
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	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	0
31	4.8	4.8
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0

MODE PIN NO.	REC	PLAY
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	4.9	4.9
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	0	0
74	0	0
75	4.5	4.5
76	4.5	4.5
77	4.8	4.8
78	4.8	4.8
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	4.8
88	4.8	4.8
89	0	0
90	5.0	5.0
91	5.0	5.0
92	5.0	5.0
93	5.0	5.0
94	0	0
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
IC3006		
1	0	0
2	0	0

MODE PIN NO.	REC	PLAY
3	0	0
4	5.0	5.0
5	5.0	5.0
IC3601		
1	0	0
2	0	0
3	0.2	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	4.5	4.5
10	4.0	4.0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	5.0	5.0
IC3651		
1	0	0
2	0	0
3	0.2	0.2
4	0	3.9
5	0	0
6	0	0
7	0	0
8	2.7	2.7
9	0.4	0.2
10	2.9	2.9
11	3.7	3.7
12	3.5	3.5
13	3.8	3.8
14	3.5	3.5
15	0	3.9
16	5.0	5.0
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	0	0
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	0	0
18	3.0	0
CN3014		
1	5.0	5.0
2	0	0
3	5.0	5.0
4	5.0	5.0
5	0	0
6	0	0

<TUNER>

MODE PIN NO.	REC	PLAY
CN6701		
1	2.5	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	9.0	9.0
8	0	0
9	2.2	2.2

<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	2.7	2.7
8	0	0
IC705		
1	1.7	1.7
2	4.5	4.5
3	1.6	1.6
4	0	0
5	3.1	3.1
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	3.5	3.5
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
IC710		
1	1.4	1.4
2	0	0
3	1.5	1.5
4	4.5	4.5
5	2.3	2.3
6	5.0	5.0
7	1.5	1.5
8	0	0
IC711		
1	1.4	1.4
2	0	0
3	1.8	1.8
4	0	0
5	1.6	1.6
6	4.8	4.8
7	0.7	0.7
8	0	0
IC712		
1	2.7	2.7
2	0	0
3	2.7	2.7
4	0	0
5	2.7	2.7
6	4.9	4.9
7	2.0	2.0
8	0	0
CN703		
1	2.2	2.2
2	0	0
3	1.8	1.8
4	1.8	1.8
5	0	0
6	2.0	2.0
CN704		
1	2.8	2.8
2	2.9	2.9
3	4.3	4.3
4	3.3	3.3
5 - 8	0	0
9	4.8	4.8
10	2.2	2.2
11	5.0	5.0
12 - 13	0	0
14	2.3	2.3
15	4.9	4.9
16 - 17	0	0
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 - 6	0	0
7	-4.9	-4.9
8 - 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 - 7	0	0
8	12.2	12.2
IC2603		
1	0	0
2	0.3	0.3
3	0.2	0.2
4 - 6	0	0
7	-4.9	-4.9
8	0	0
9	4.5	4.5
10 - 14	0	0
15	0.3	0.3
16	5.6	5.6
IC2604		
1	0	0
2 - 3	0	0
4	-5.4	-5.4
5 - 7	0	0
8	12.2	12.2
IC2605		
1	0.3	0.3
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	0.3	0.3
8	12.2	12.2
IC2606		
1 - 6	0	0
7	-4.9	-4.9
8 - 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
CN2601		
1 - 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	0.4	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

<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
IC7103		
1	0.3	0.3
2	3.2	3.2
3	11.4	11.4
4	3.7	3.7
5	0	0
6	4.3	4.3
IC7104		
1	5.6	5.6
2	5.6	5.6
3	8.2	8.2
4	5.7	5.7
5	5.7	0
6	0	0
7	5.7	5.7
8	5.7	5.7
9	0	0
10	0.1	0.1
11	5.7	5.7
12 - 15	0	0
16	11.4	11.4
CN7101		
1	2.7	2.7
2	0	0
3	5.6	5.6
4	0	0
5	1.3	1.3
6	0	0
7	1.3	1.3
8	0	0
9	1.6	1.6
10	0	0
11	3.3	3.3
12	0	0
13	3.3	3.3
CN7102		
1	0.7	0.7
2	0	0
3	0.7	0.7
4 - 5	0	0
CN7103		
2 - 6	0	0
7	5.0	5.0
8	11.4	11.4
9 - 11	0	0

<DEMODULATOR>

MODE PIN NO.	REC	PLAY
IC1501		
1	9.2	9.2
2	4.6	4.6
3	4.5	4.5
4	4.6	4.6
5	4.6	4.6
6	4.6	4.6
7	4.5	4.5
8	4.4	4.4
9	5.6	5.6
10	4.0	4.0
11	3.1	3.1
12	4.5	4.5
13	4.6	4.6
14	0	0
15 - 28	-	-
CN1501		
2	4.7	4.7
3	4.8	4.8
4	0	0
5	0	0
6	0	0
7	9.1	9.1
8	0	0
9	3.0	3.0

<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

MODE PIN NO.	REC	PLAY
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 - 15	0	0
16	2.4	2.1
17	1.3	2.3
18	4.8	4.8
19 - 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		
3	2.7	2.7
4	0	0
5	5.6	5.6
6	0	0
7	1.3	1.3
8	0	0
9	1.3	1.3
10	0	0
11	1.6	1.6
12	0	0
13	3.3	3.3
14	0	0
15	3.3	3.3
CN7502		
1	0.7	0.7
2	0	0
3	0.7	0.7
4	0	0
5	0.7	0.7
6	0	0
7	0	0
CN7503		
7 - 11	0	0
12	5.0	5.0
13	11.4	11.4
14 - 16	0	0
CN7504		
1 - 4	0	0
5	0.2	0.2
6 - 11	0	0
CN7505		
1	2.4	2.4
2 - 4	0	0
5	2.3	2.3
6 - 10	0	0
11	2.5	2.5
CN7507		
1 - 10	0	0
CN7508		
1	10.9	10.9
2	5.2	5.2
3	31.9	31.9
4 - 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	5.0	5.0
2	19.0	19.0
3	6.2	6.2
4	4.8	4.8
5	0	0
6	2.7	2.7
7	0	0
8	-15.8	-15.8
9	-28.4	-28.4
10	-19.3	-19.3
11 - 12	0	0
13	11.5	11.5
14	11.6	11.6
15	12.2	12.2

<ON SCREEN>

MODE PIN NO.	REC	PLAY
IC851		
1	0	0
2	2.5	2.5
3	4.8	4.8
4 - 5	0	0
6	2.4	2.4
7	2.5	2.5
8	4.9	4.9
9	3.5	3.2
10	4.3	4.3
11	4.4	3.8
12	4.9	4.9
13	2.9	2.9
14	0	0
15	2.2	2.2
16	0.3	0.3
17	5.0	5.0
18	2.8	2.8
19	0	0
20	5.0	5.0
21	0.1	0.1
22	3.6	3.6
23	4.9	4.9
24	0.5	0.5
IC852	-	-
CN851		
1	2.8	2.8
2	2.9	2.9
3	4.3	4.3
4	3.3	3.3
5 - 8	0	0
9	4.8	4.8
10	2.2	2.2
11	5.0	5.0
12 - 13	0	0
14	2.3	2.3
15	4.9	4.9
16 - 17	0	0
18	11.4	11.4
19	0	5.0
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	0	1.2
14	4.8	4.8
15	0	4.6
16	-28.3	-28.3
17	-28.3	-28.3

MODE PIN NO.	REC	PLAY
18	4.6	4.6
19	-28.1	4.6
20	4.6	-28.0
21	-23.9	-23.9
22 - 43	-	-
44	4.9	4.9
IC7002		
1	4.8	4.8
2	4.8	4.8
3

4.32 CPU PIN FUNCTION

MODE PIN NO.	REC	PLAY
41	3.3	3.3
42	3.3	3.3
43	3.3	3.3
44	3.3	3.3
45	3.3	3.3
46	0	0
47	0	0
48	1.0	1.0
IC8206		
1	0	0
2	3.3	3.3
3	3.3	3.3
4	3.3	3.3
5	3.3	3.3
6	3.3	3.3
7	3.3	3.3
8	3.3	3.3
9	3.3	3.3
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	3.3	3.3
IC8207		
1	0	0
2	3.3	3.3
3	3.3	3.3
4	3.3	3.3
5	3.3	3.3
6	3.3	3.3
7	3.3	3.3
8	3.3	3.3
9	3.3	3.3
10	0	0
11	0	0
12	3.3	2.9
13	3.3	2.9
14	0	0
15	-	-
16	-	-
17	0	0
18	0	0
19	0	0
20	3.3	3.3

<MPEG ENC.>

MODE PIN NO.	REC	PLAY
IC8401		
1	2.4	2.4
2	0	0
3	0	0
4	3.3	3.3
5	3.3	3.3
6	3.3	3.3
7	3.3	3.3
8	2.4	2.4
9	0	0
10	3.3	3.3
11	3.3	3.3
12	3.3	3.3
13	3.3	3.3
14	0	0
15	3.3	3.3
16	3.3	3.3
17	3.3	3.3
18	3.3	3.3
19	3.3	3.3
20	2.4	2.4
21	-	3.3
22	-	3.3
23	-	3.3
24	0	0
25	2.4	2.4
26	1.1	1.0
27	3.3	3.3
28	3.3	3.3
29	3.3	3.3
30	3.3	3.3
31	-	3.3
32	-	3.3
33	3.3	3.3
34	3.3	3.3
35	0	3.3
36	-	3.3
37	-	3.3
38	-	3.3
39	-	3.3
40	-	0
41	-	3.3
42	-	3.3
43	-	3.3
44	-	1.6
45	0	0
46	3.3	3.3

MODE PIN NO.	REC	PLAY
47	0	3.3
48	0	3.3
49	2.4	2.4
50	0	3.0
51	0	3.0
52	0	3.0
53	0	3.0
54	0	3.0
55	0	3.0
56	0	3.0
57	0	3.0
58	0	3.0
59	0	3.0
60	0	3.0
61	3.3	3.0
62	0	0
63	0	3.3
64	0	3.3
65	0	3.3
66	2.4	2.4
67	0	3.0
68	0	3.0
69	0	3.0
70	0	3.0
71	0	3.0
72	0	3.0
73	0	3.0
74	0	3.0
75	0	3.0
76	0	3.0
77	0	0
78	3.3	3.3
79	0	3.0
80	0	3.0
81	0	3.0
82	2.4	2.4
83	0	3.0
84	0	3.0
85	0	3.0
86	3.3	3.3
87	0	0
88	0	3.3
89	3.3	3.3
90	0	3.3
91	0	3.3
92	0	3.3
93	3.3	3.3
94	3.3	3.0
95	3.3	3.0
96	2.4	2.4
97	1.4	1.4
98	3.3	3.3
99	0	0
100	3.3	3.3
101	0	3.0
102	0	3.0
103	0	3.0
104	0	3.0
105	0.2	3.0
106	0.2	3.0
107	0.3	3.0
108	2.4	2.4
109	3.3	3.3
110	0	0
111	0.2	3.0
112	0.2	3.0
113	0.2	3.0
114	0.2	3.0
115	0.2	3.2
116	-	3.0
117	0	0
118	3.3	3.3
119	1.2	1.2
120	1.0	1.0
121	1.0	1.0
122	1.0	0.7
123	1.5	1.7
124	1.0	1.0
125	1.0	0.8
126	1.5	1.5
127	2.4	2.4
128	3.3	3.3
129	2.4	1.7
130	3.3	3.3
131	1.7	3.0
132	3.3	1.0
133	0	3.3
134	2.1	0
135	1.9	3.3
136	1.9	3.3
137	0	3.3
138	2.2	3.3
139	2.0	3.3
140	0	3.3
141	0	0
142	3.3	3.3
143	3.3	3.3
144	3.3	3.3
145	3.3	3.3
146	3.3	3.3
147	3.3	3.3

MODE PIN NO.	REC	PLAY
148	3.3	3.3
149	3.3	3.3
150	2.4	2.4
151	3.3	3.3
152	3.3	3.3
153	3.3	3.3
154	3.3	3.3
155	3.3	3.3
156	3.3	3.3
157	3.3	3.3
158	0	0
159	1.7	3.3
160	2.0	3.3
161	1.7	3.3
162	3.3	3.3
163	3.3	3.3
164	3.3	3.3
165	3.3	3.3
166	2.4	2.4
167	3.3	3.3
168	3.3	3.3
169	3.3	3.3
170	3.3	3.3
171	3.3	3.3
172	3.3	3.3
173	0	0
174	3.3	3.3
175	0	0
176	3.3	3.3
177	3.3	3.3
178	3.3	3.3
179	3.3	3.3
180	0	0
181	1.6	1.4
182	2.4	2.4
183	3.3	3.3
184	3.3	3.3
185	3.3	3.3
186	3.3	3.3
187	3.3	3.3
188	3.3	3.3
189	3.3	3.3
190	0	0
191	3.3	3.3
192	3.3	3.3
193	3.3	3.3
194	3.3	3.3
195	3.3	3.3
196	3.3	3.3
197	0	0
198	3.3	3.3
199	1.7	1.7
200	1.0	0.8
201	0	0
202	0	0
203	1.7	1.7
204	1.7	1.7
205	3.3	3.3
206	3.3	3.3
207	3.3	3.3
208	0	0
IC8402		
1	3.3	3.3
2	3.3	3.3
3	3.3	3.3
4	0	0
5	3.3	3.3
6	3.3	3.3
7	3.3	3.3
8	3.3	3.3
9	3.3	3.3
10	0	0
11	3.3	3.3
12	3.3	3.3
13	3.3	3.3
14	3.3	0
15	0	3.3
16	3.3	3.3
17	3.3	3.3
18	3.3	0
19	3.3	3.3
20	3.3	3.3
21	3.3	0
22	3.3	3.3
23	3.3	3.3
24	3.3	0
25	3.3	3.3
26	0	0
27	3.3	3.3
28	3.3	3.3
29	3.3	3.3
30	3.3	3.3
31	3.3	3.3
32	3.3	3.3
33	0	0
34	0	0
35	1.7	1.7
36	0	0
37	0	0
38	3.3	3.3
39	3.3	3.3

MODE PIN NO.	REC	PLAY
40	3.3	3.3
41	0	0
42	3.3	3.3
43	3.3	3.3
44	3.3	3.3
45	3.3	3.3
46	3.3	3.3
47	0	0
48	3.3	3.3
49	3.3	3.3
50	0	0
IC8403		
1	3.3	3.3
2	3.3	3.3
3	3.3	3.3
4	0	0
5	3.3	3.3
6	3.3	3.3
7	3.3	3.3
8	3.3	3.3
9	3.3	3.3
10	0	0
11	3.3	3.3
12	3.3	3.3
13	3.3	3.3
14	3.3	0
15	3.3	3.3
16	3.3	3.3
17	3.3	3.3
18	3.3	3.3
19	3.3	3.3
20	3.3	3.3
21	3.3	3.2
22	0	0
23	0	0
24	0	0
25	3.3	3.3
26	0	0
27	3.3	3.3
28	3.3	3.3
29	3.3	3.3
30	3.3	3.3
31	3.3	3.3
32	3.3	3.3
33	0	0
34	0	0
35	1.8	1.8
36	0	0
37	0	0
38	3.3	3.3
39	3.3	3.3
40	3.3	3.3
41	0	0
42	3.3	3.3
43	3.3	3.3
44	3.3	3.3
45	3.3	3.3
46	3.3	3.3
47	0	0
48	3.3	3.3
49	3.3	3.3
50	0	0
IC8404		
1	3.3	3.3
2	3.3	3.3
3	3.3	3.3
4	0	0
5	3.0	3.0
6	3.0	3.0
7	3.3	3.3
8	3.2	3.2
9	3.1	3.1
10	0	0
11	3.0	3.0
12	3.0	3.0
13	3.3	3.3
14	0	0
15	3.0	3.0
16	3.0	3.0
17	3.3	3.3
18	3.3	3.3
19	3.3	3.3
20	3.3	3.3
21	3.2	3.2
22	0	0
23	0	0
24	3.1	3.1
25	3.3	3.3
26	0	0
27	3.1	3.1
28	3.1	3.1
29	3.2	3.2
30	3.2	3.2
31	3.0	3.0
32	3.0	3.0
33	0	0
34	3.3	3.3
35	1.7	1.7
36	0	0
37	0	0
38	3.3	3.3

MODE PIN NO.	REC	PLAY
39	3.0	3.0
40	3.0	3.0
41	0	0
42	3.0	3.0
43	3.0	3.0
44	3.3	3.3
45	3.0	3.0
46	3.0	3.0
47	0	0
48	3.0	3.0
49	3.2	3.2
50	0	0
IC8405		
1	3.3	3.3
2	3.2	3.2
3	3.0	3.0
4	0	0
5	3.0	3.0
6	3.2	3.2
7	3.3	3.3
8	3.2	3.2
9	3.0	3.0
10	0	0
11	3.0	3.0
12	3.0	3.0
13	3.3	3.3
14	0	0
15	0	0
16	0	0
17	0	3.3
18	0	0
19	3.3	3.3
20	3.0	3.0
21	3.2	3.2
22	3.1	3.1
23	3.1	3.1
24	3.1	3.1
25	3.3	3.3
26	0	0
27	3.1	3.1
28	3.1	3.1
29	3.1	3.1
30	3.1	3.1
31	3.1	3.1
32	3.1	3.1
33	0	0
34	3.3	3.3
35	1.7	1.7
36	0	0
37	0	0
38	3.3	3.3
39	3.0	3.0

<ASIC IF>

MODE PIN NO.	REC	PLAY
IC8001		
1	0	0
2	1.5	1.5
3	0	0
4	0.2	0.2
5	0	0
6	0	0
7	3.3	3.3
8	0	0
9	0	0
10	0	0
11	3.3	3.3
12	0	0
13	3.3	3.3
14	3.3	0
15	3.3	3.3
16	3.3	3.3
17	0	0
18	3.3	3.3
19	3.3	3.3
20	3.0	3.0
21	3.3	3.2
22	3.3	3.3
23	3.3	3.3
24	3.3	3.3
25	3.3	3.3
26	3.3	3.3
27	3.3	3.3
28	3.3	3.3
29	3.3	3.3
30	3.3	3.3
31	3.3	3.3
32	3.3	3.3
33	3.3	3.3
34	3.3	3.3
35	0	0
36	0	0
37	0	0
38	3.3	3.3
39	3.3	3.3
40	3.3	3.3
41	0	0
42	3.3	3.3
43	3.3	3.3
44	3.3	3.3
45	3.3	3.3
46	3.3	3.3
47	0	0
48	3.3	3.3
49	3.3	3.3
50	0	0
IC8001		
1	3.3	3.3
2	0	0.2
3	0	0.2
4	0	0
5	0	0.1
6	0	0.2
7	3.3	3.3
8	0	0.1
9	0	0.2
10	0	0
11	0	0
12	0	0
13	3.3	3.3
14	3.3	3.3
15	3.3	3.0
16	3.3	3.2
17	3.3	3.2
18	3.3	3.3
19	0	0
20	3.3	3.2
21	0	0
22	0	0
23	0	0
24	0	0
25	3.3	3.3
26	0	0

<P.SUP>

MODE PIN NO.	REC	PLAY
IC8901		
1	2.4	2.4
2	-	-
3	2.4	2.4
4	2.4	2.4
5	0	0
6	0	0
7	1.8	1.8
8	1.8	1.8
CN8901		
1	-7.2	-7.2
2	5.0	5.0
3	0	0
4	3.3	3.3
5	3.3	3.3
6	0	0
7	2.4	2.4
8	2.4	2.4
9	0	0

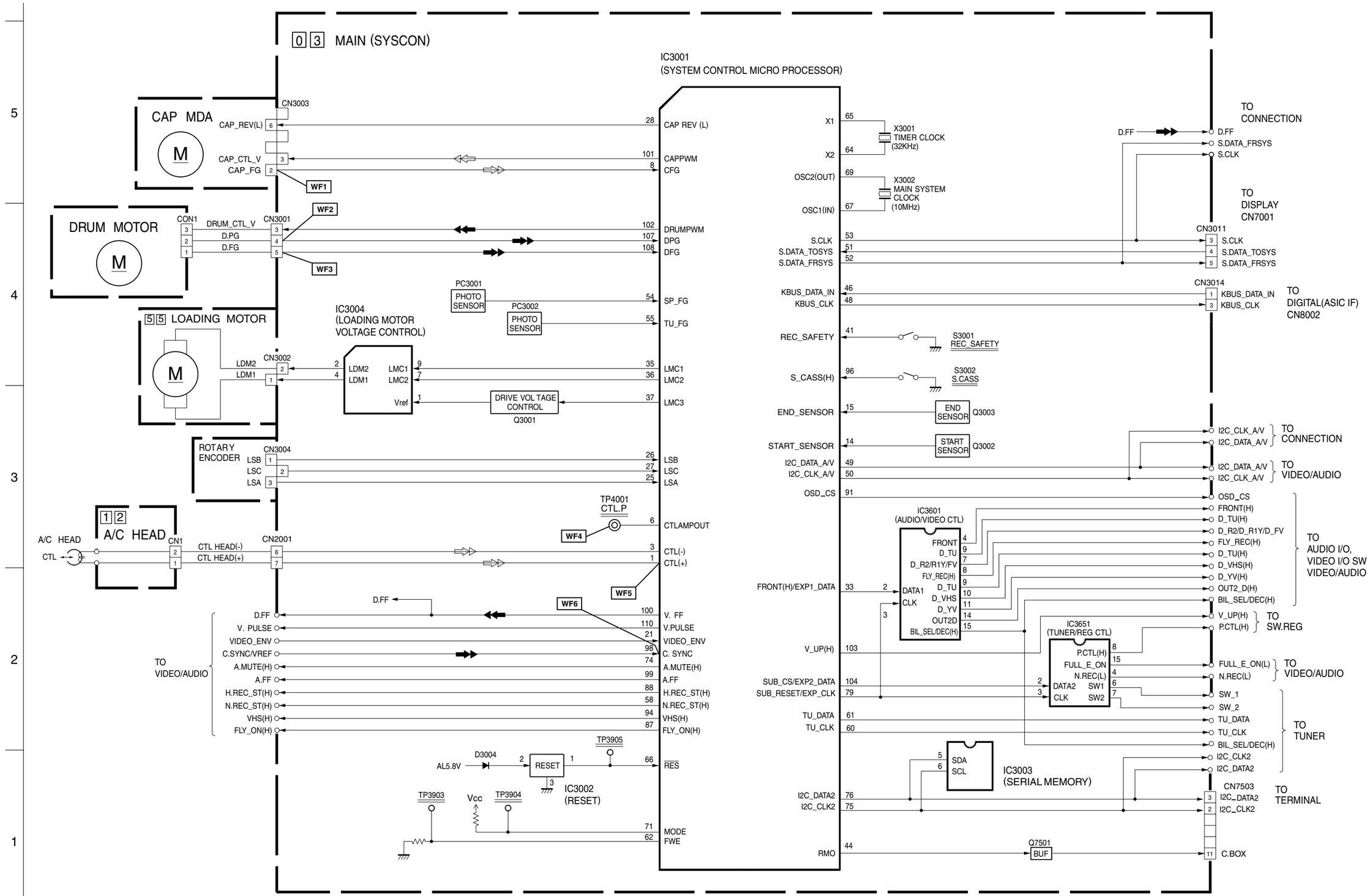
MODE PIN NO.	REC	PLAY
27	0	0
28	0	0
29	0	0
30	0	0
31	0	0
32	0	0
33	0	0
34	3.3	3.3
35	1.5	1.5
36	3.3	0
37	0	0
38	3.3	3.3
39	0	1.0
40	0	1.0
41	0	0
42	0	0.2
43	0	0.2
44	3.3	3.3
45	0	0.3
46	0	0.2
47	0	0
48	0	0.2
49	0	0.2
50	0	0
CN8001		
1	5.0	5.0
2	0	0
3	5.0	5.0
4	5.0	0
5	5.0	5.0
6	5.0	0
7	5.0	5.0
8	5.0	5.0
9	5.0	5.0
10	5.0	0
11	5.0	0
12	5.0	0
13	5.0	5.0
14	5.0	5.0
15	5.0	5.0
16	5.0	5.0
17	5.0	5.0
18	5.0	5.0
19	0	0
20	0	0
21	0	0
22	0	0
23	3.3	3.3
24	0	0
25	3.3	3.3
26	0	0
27	5.0	5.0
28	0	0
29	0	3.3
30	0	0
31	0	0
32	5.0	5.0
33	0	0
34	0	0
35	0	0
36	-	-
37	3.3	3.3
38	3.3	3.3
39	5.0	5.0
40	0	0
CN8002		
1	0	0
2	0	0
3	5.0	5.0
4	5.0	5.0
5	0	0
6	5.0	5.0

<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	IN	NC

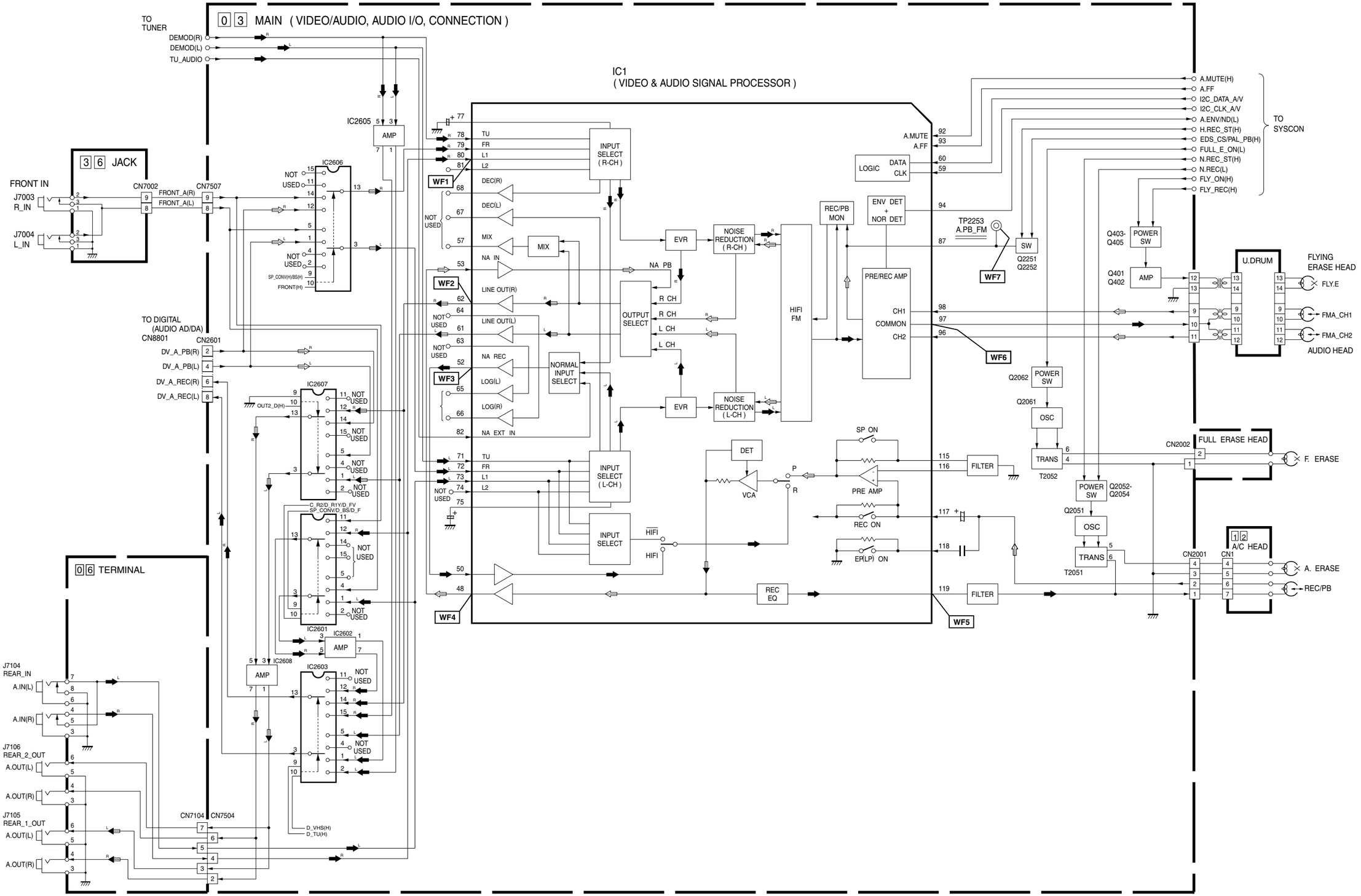
PIN NO.	LABEL	IN/OUT	FUNCTION
57	TU_CE	OUT	CHIP ENABLE OF THE TUNER UNIT
58	N.REC_ST(H)	OUT	NORMAL AUDIO SOUND RECORDING START
59	SP_CONV/BS/KBUS_REQ	IN	AUDIO INPUT SWITCHING FOR DV
60	TU_CLK	OUT	CLOCK FOR DATA TRANSFER TO THE TUNER UNIT
61	TU_DATA	OUT	TUNING DATA
62	FWE	-	NC
63	NMI(L)	-	NC
64	X2	-	TIMER 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)	OUT	FLYING ERASE ON:H
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	VHS(H)	IN	VHS MODE(H)
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	RESET(H)	IN	RESET
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

4.33 SYSTEM CONTROL BLOCK DIAGRAM (VHS)



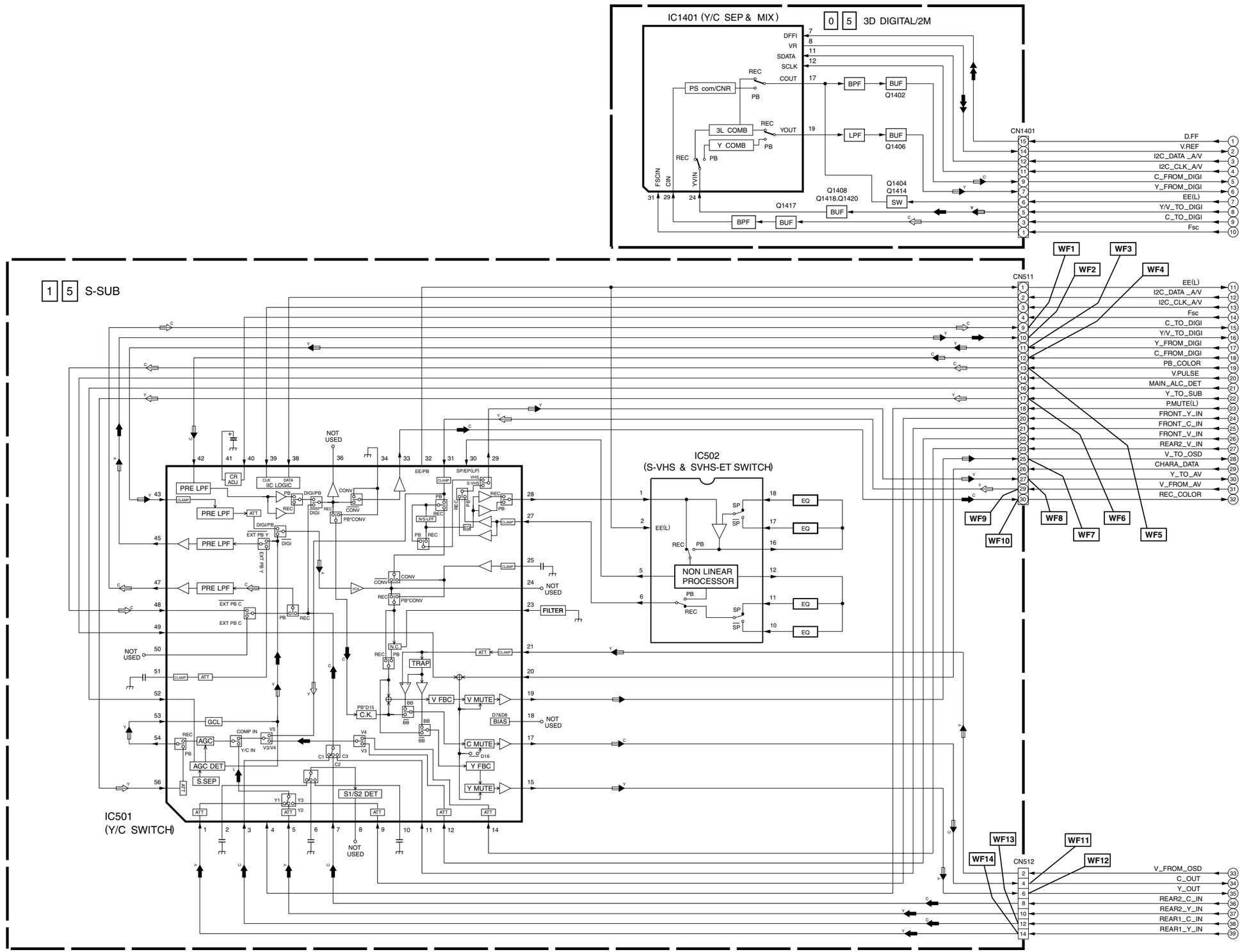
Note : For the waveforms in this schematic diagram, refer to page 4-59.

4.34 AUDIO BLOCK DIAGRAM



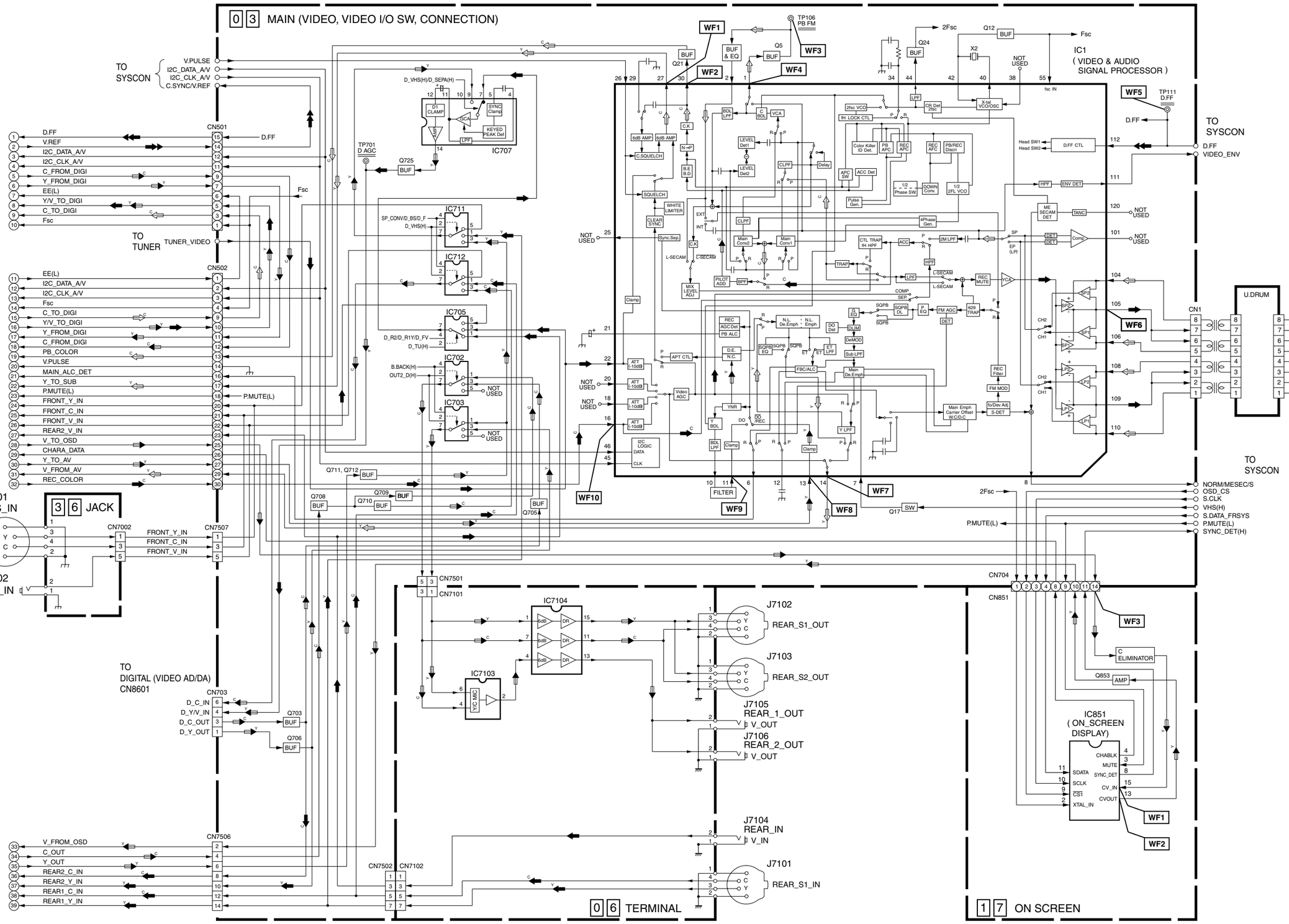
Note : For the waveforms in this schematic diagram, refer to page 4-59.

4.35 VIDEO BLOCK DIAGRAM (VHS)



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)