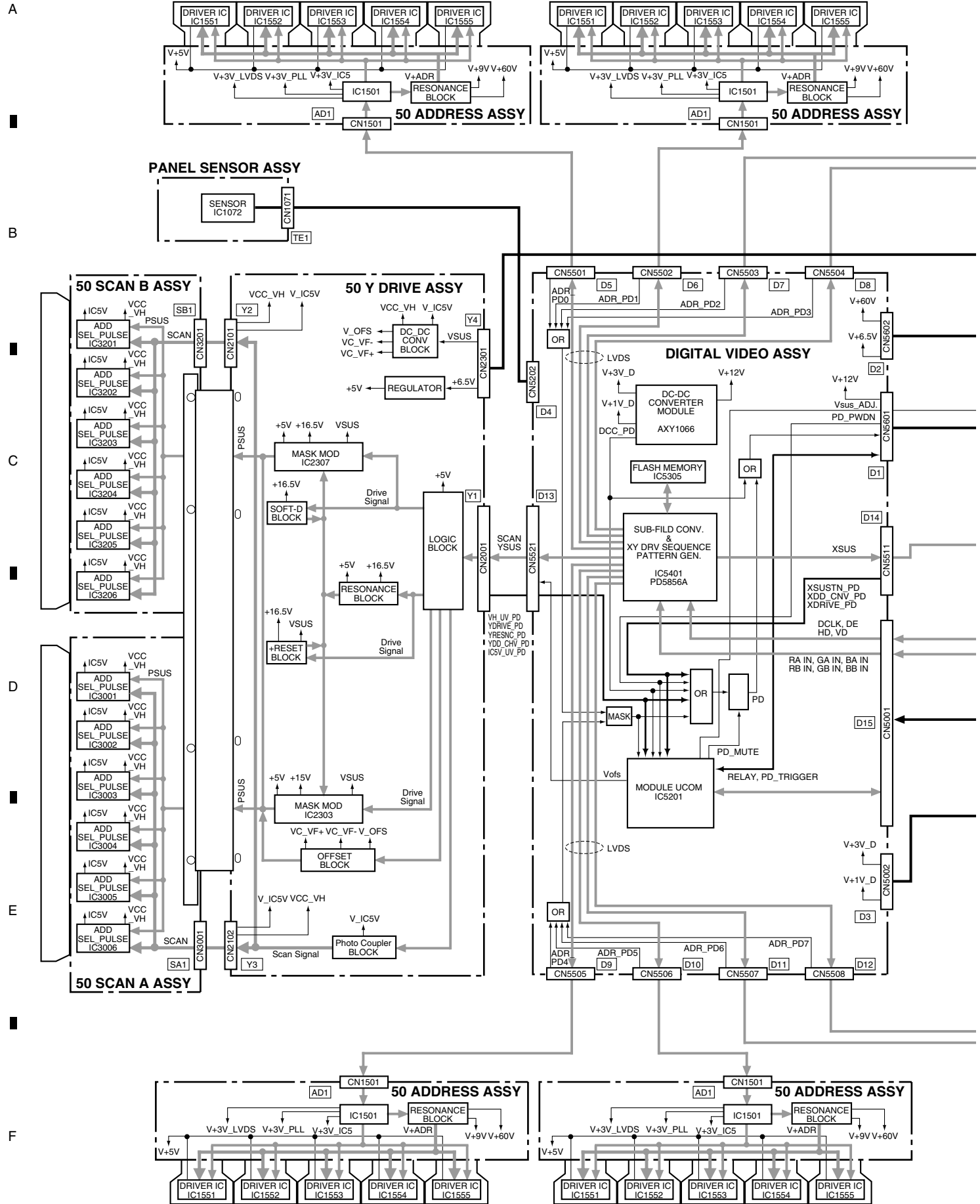
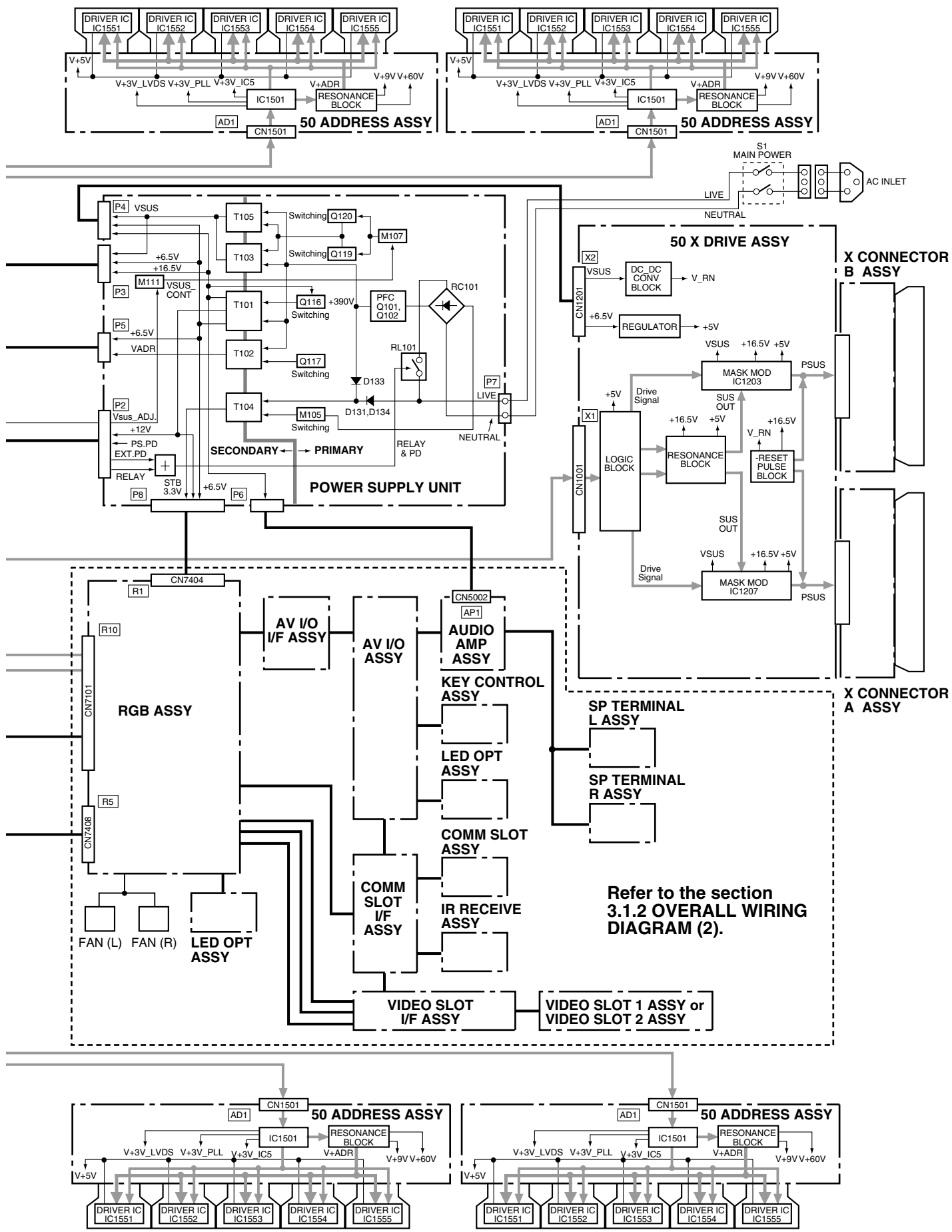


# 3. BLOCK DIAGRAM AND SCHEMATIC DIAHRAM

## 3.1 BLOCK DIAGRAM

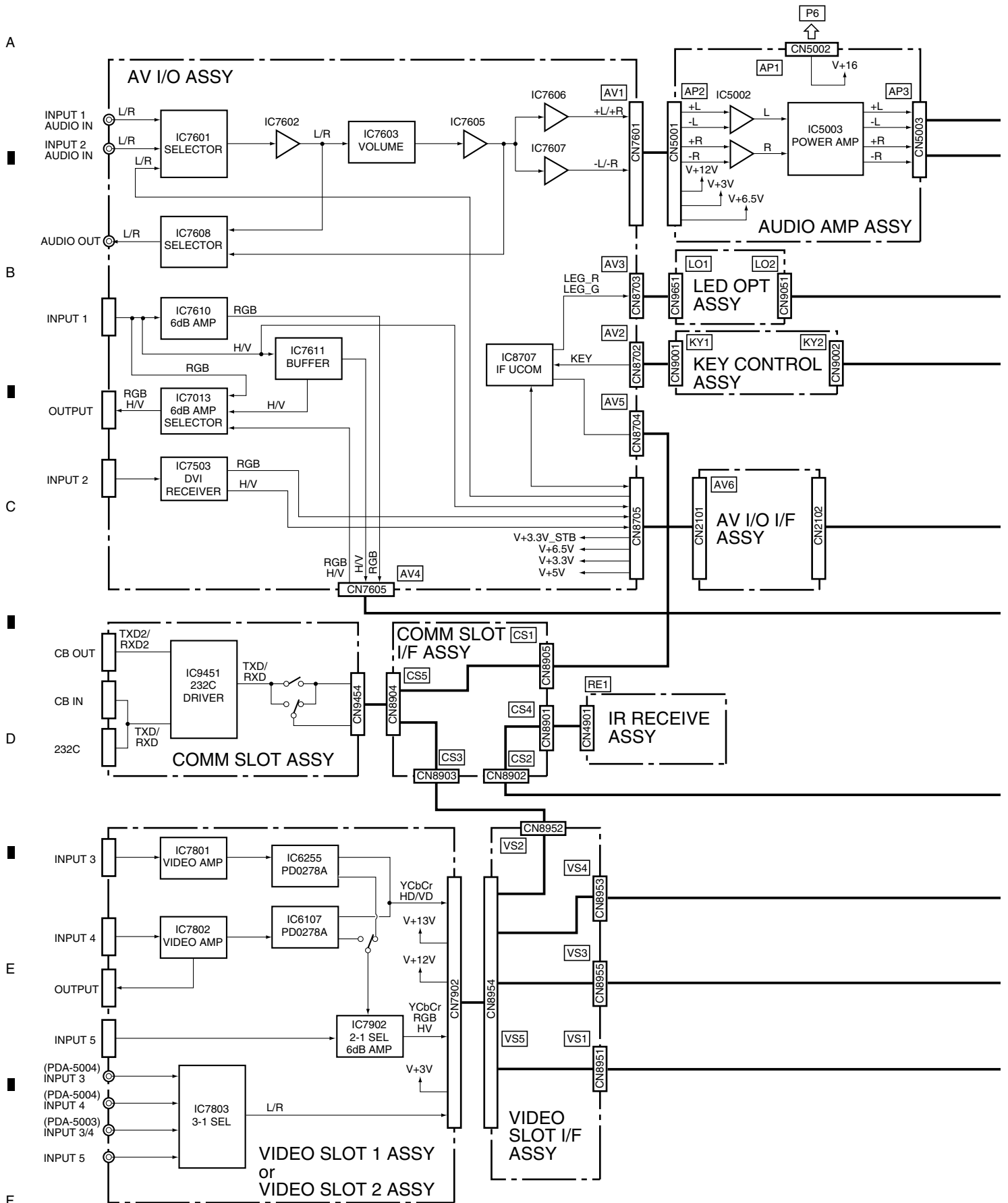
### 3.1.1 OVERALL BLOCK DIAGRAM (1/2)

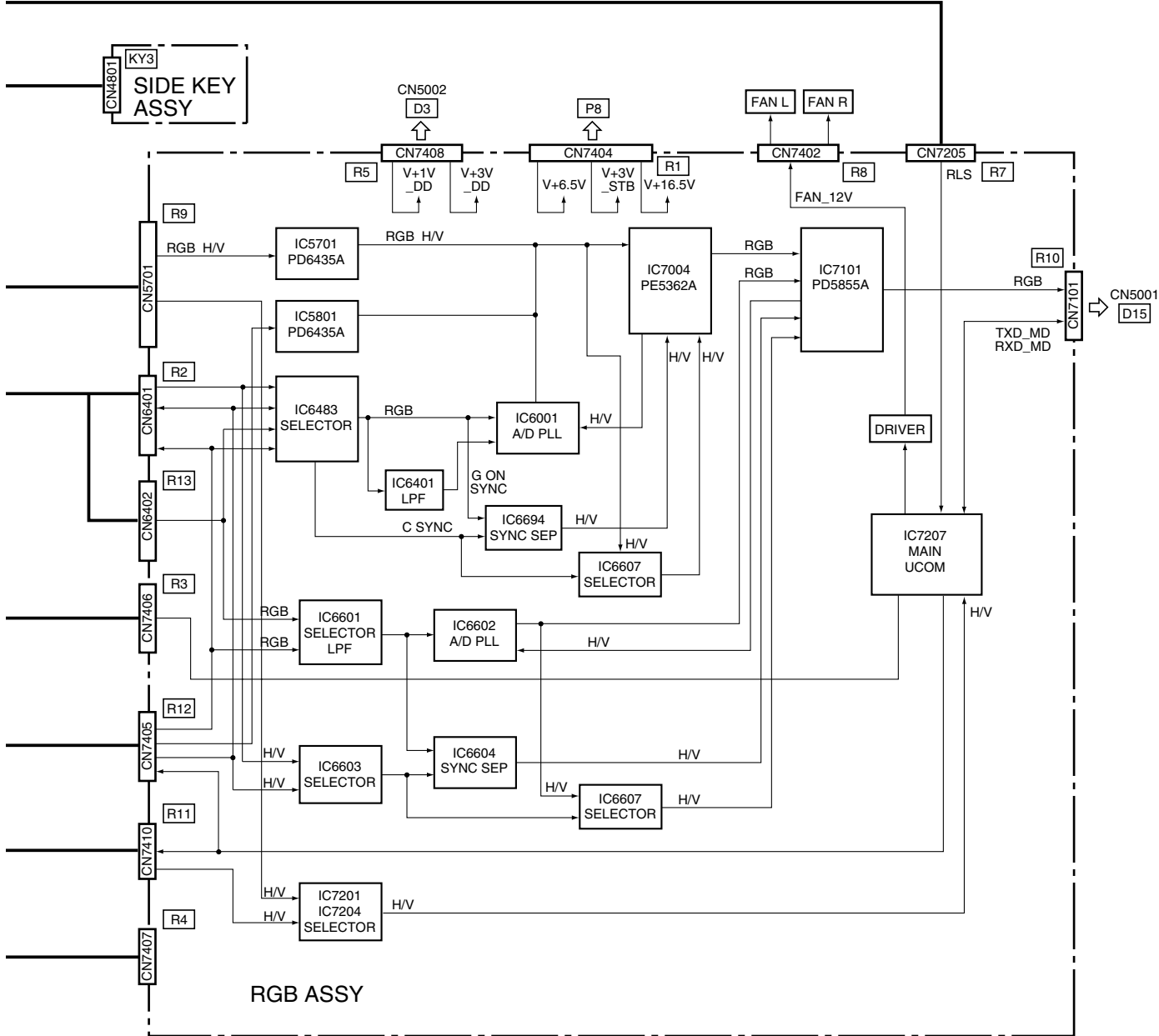
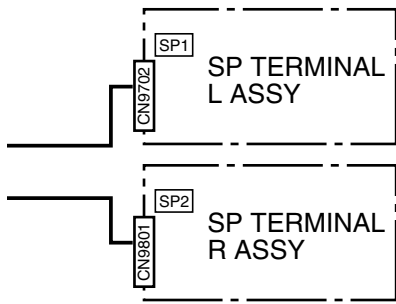




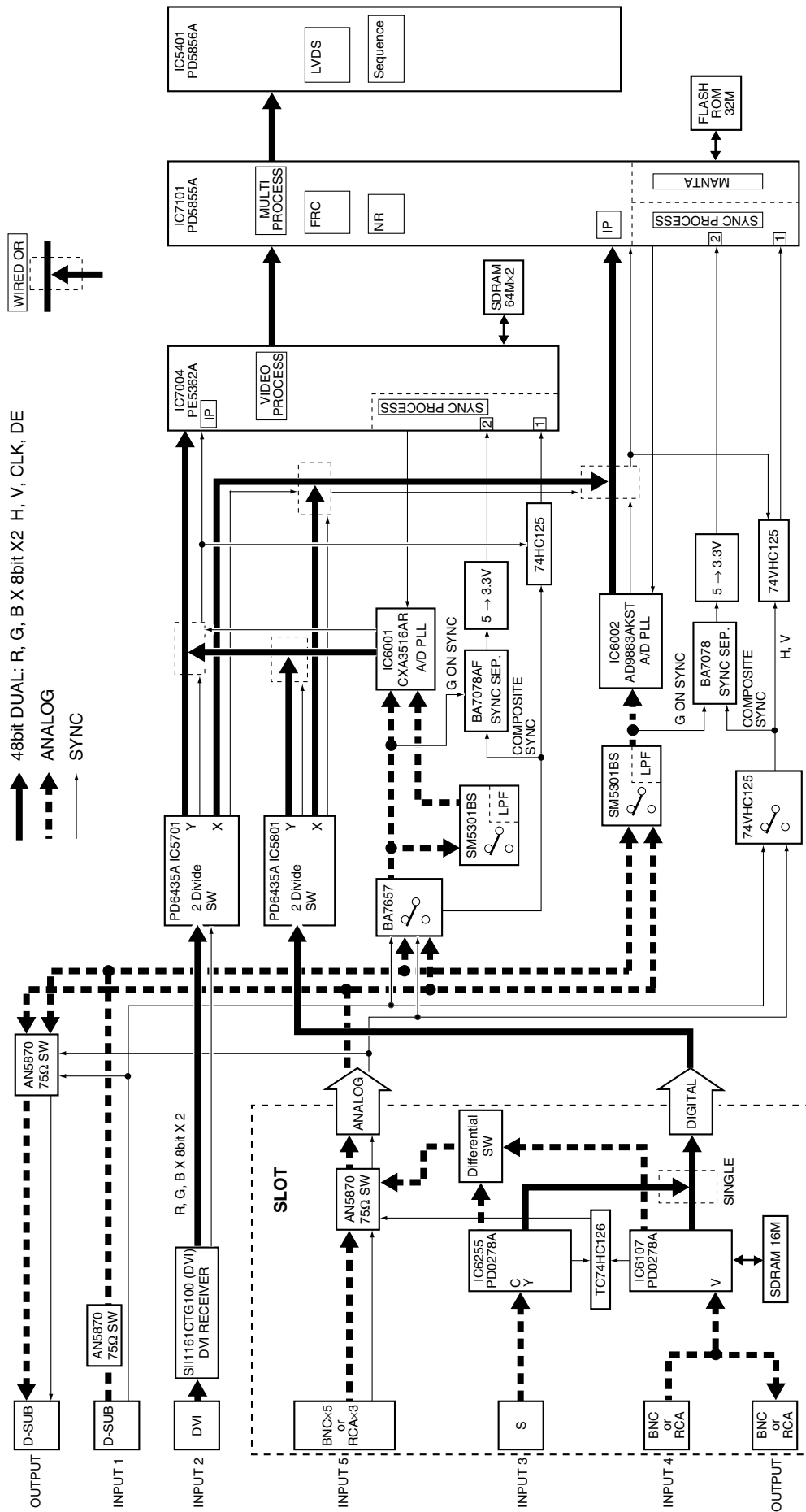
Refer to the section  
3.1.2 OVERALL WIRING  
DIAGRAM (2).

### 3.1.2 OVERALL BLOCK DIAGRAM (2/2)

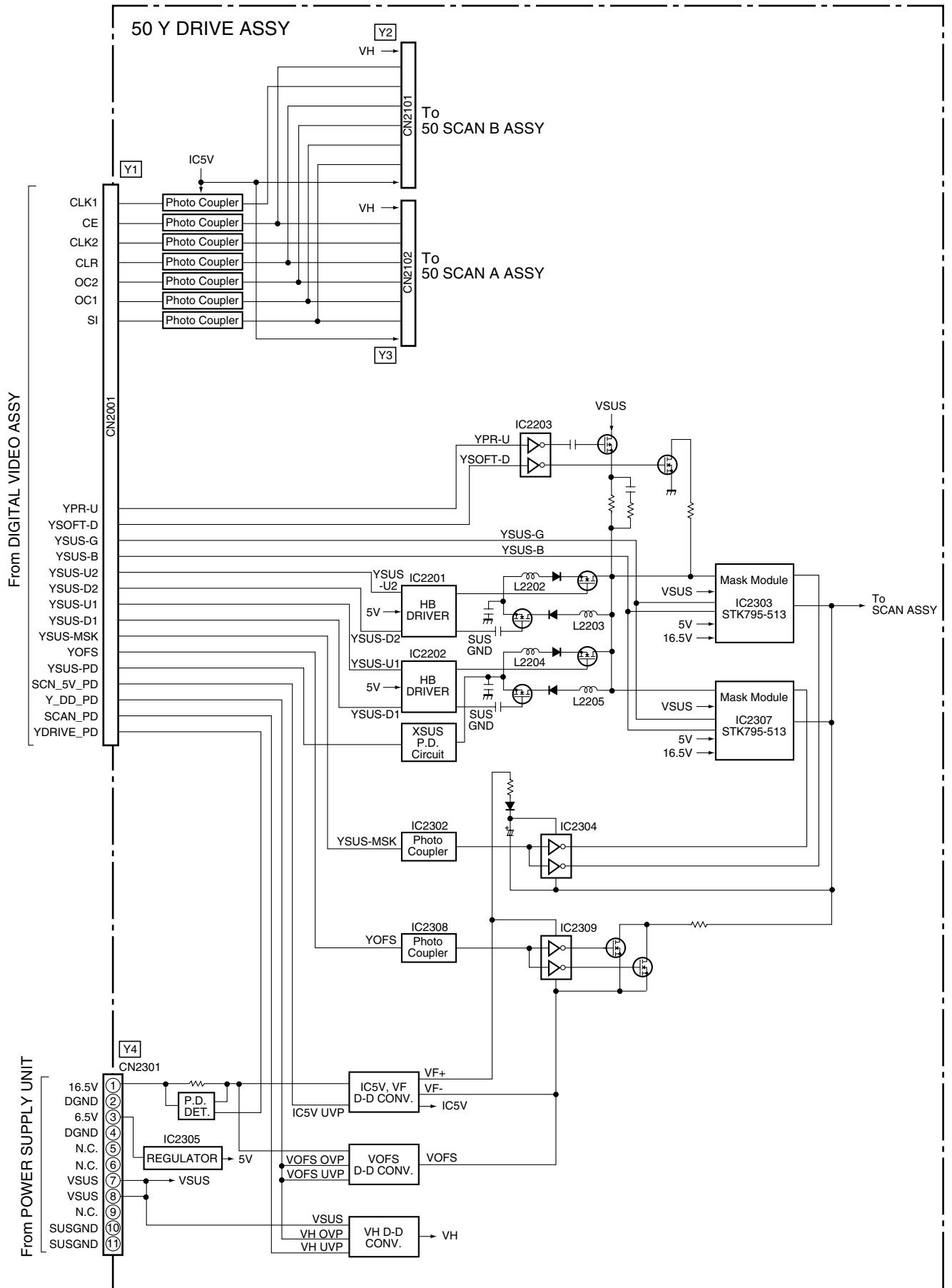




### 3.1.3 SIGNAL ROUTE

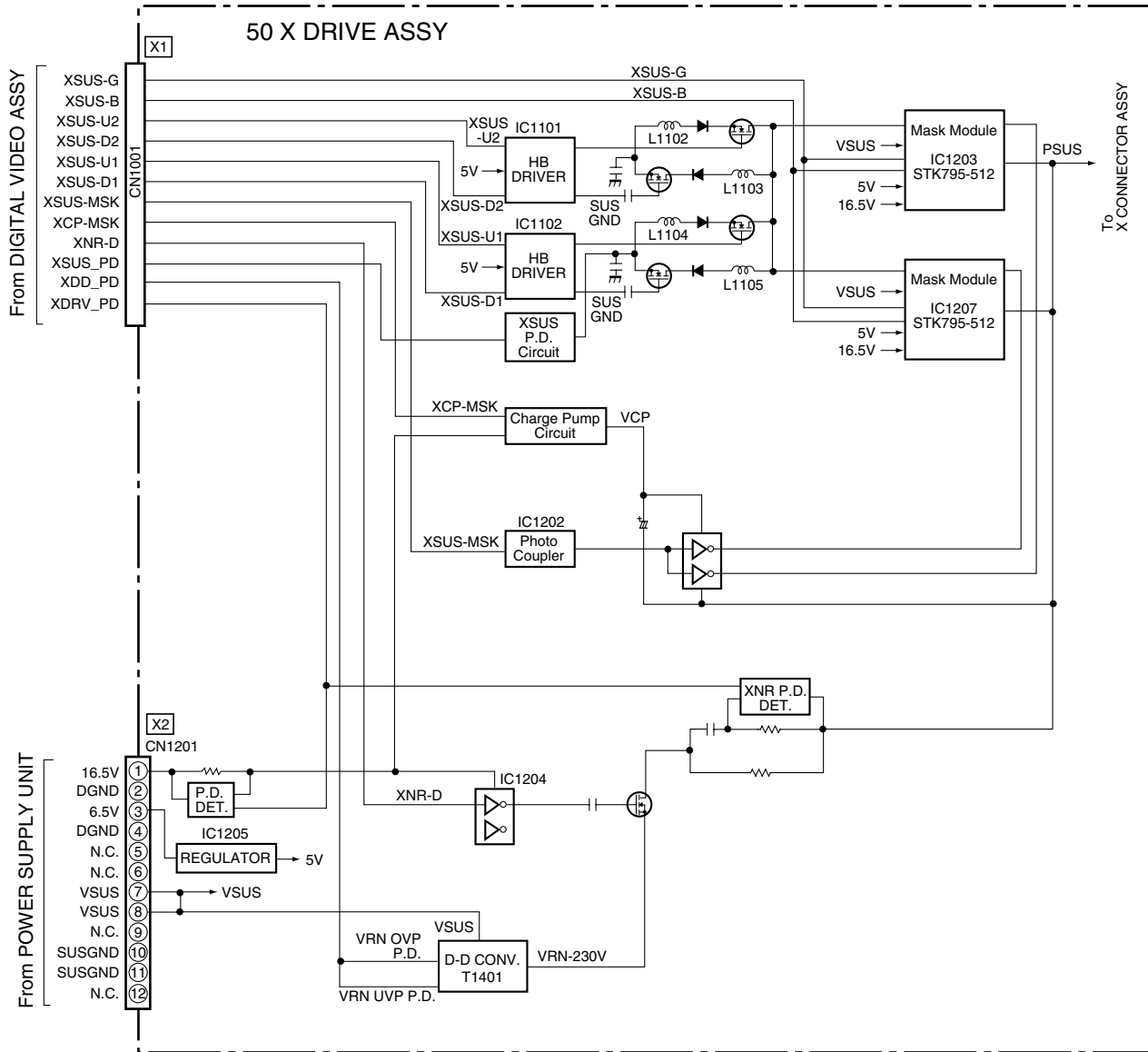


### 3.1.4 50 Y DRIVE ASSY

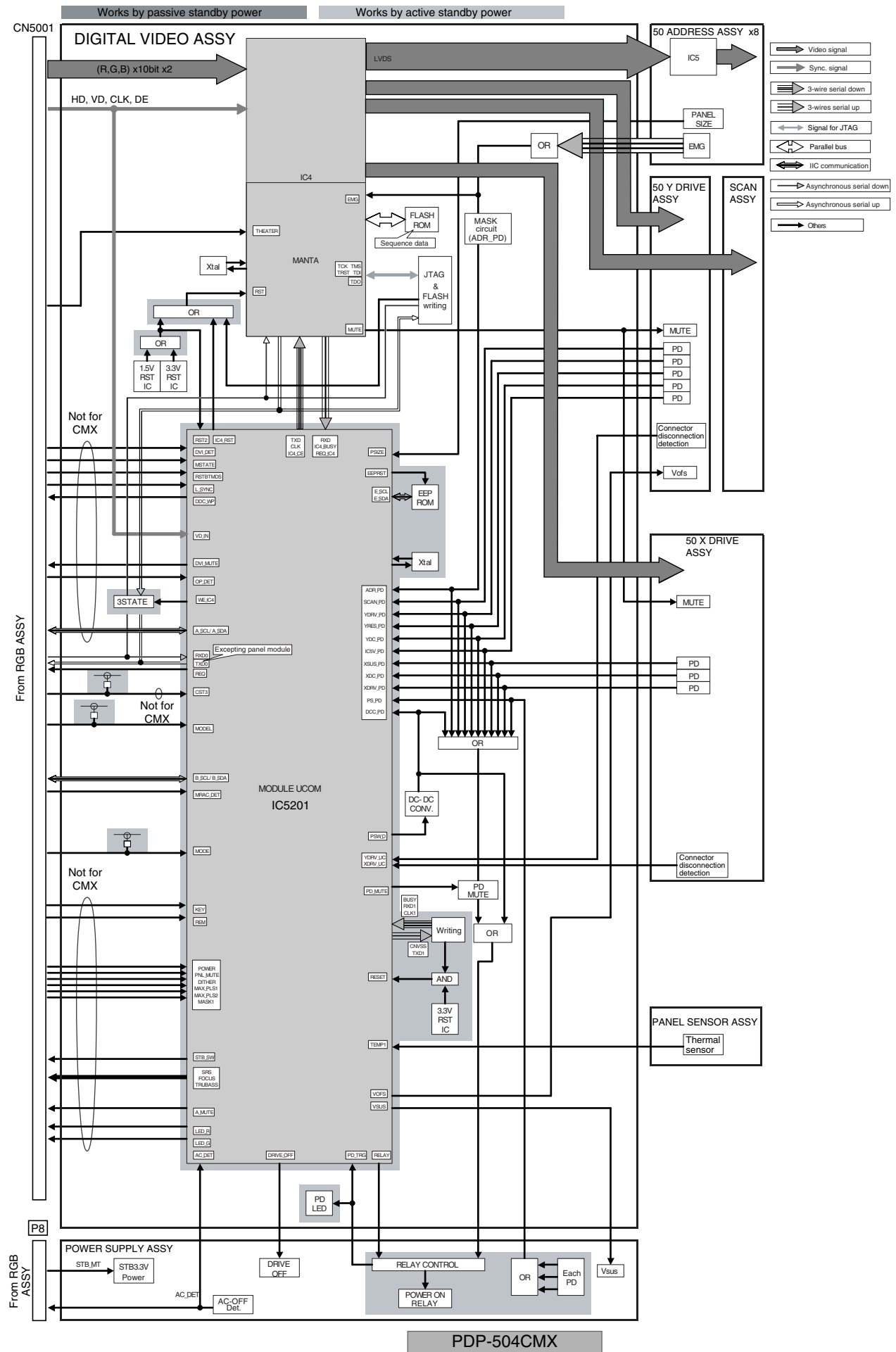


### 3.1.5 50 X DRIVE ASSY

A  
B  
C  
D  
E  
F



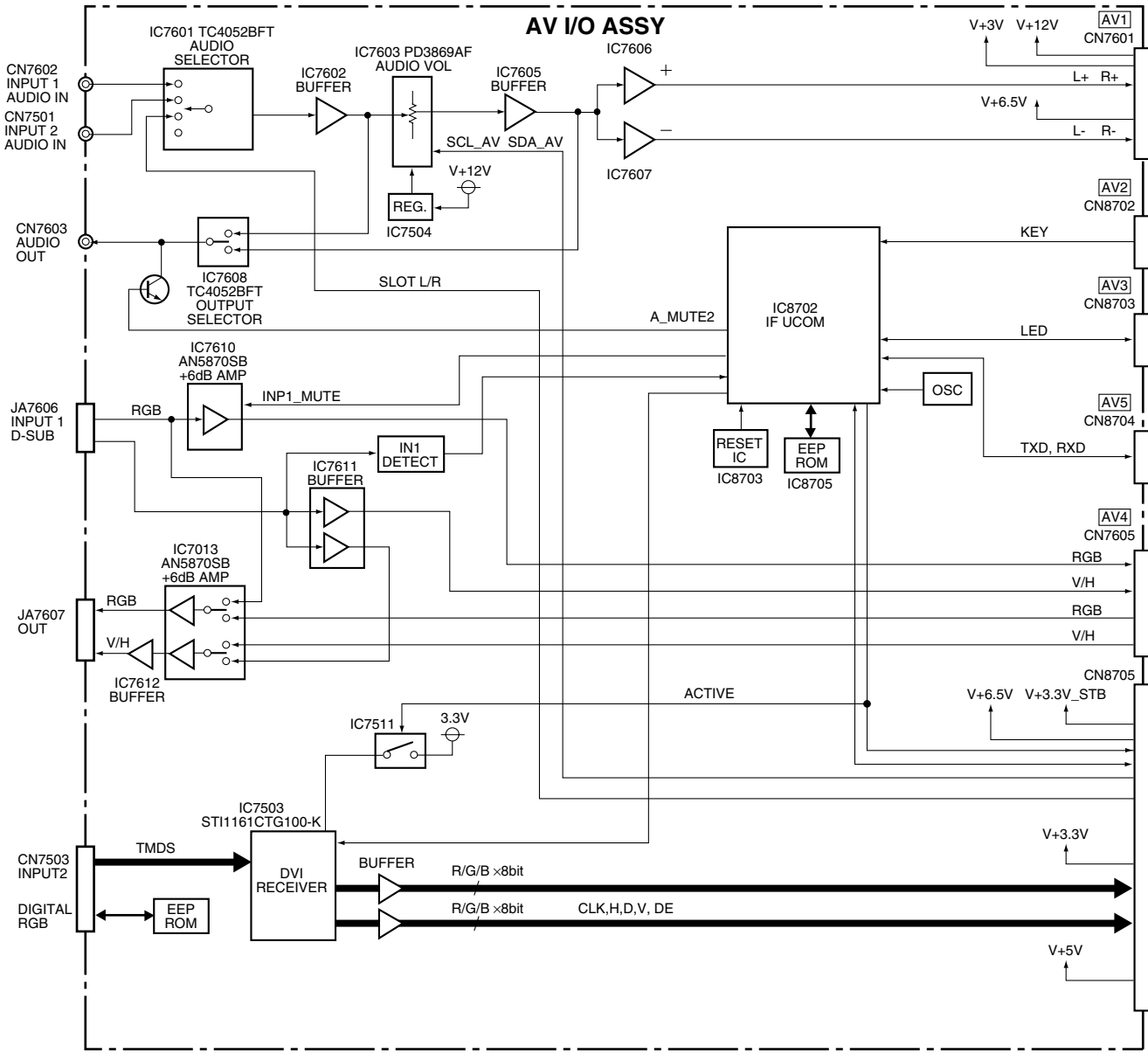
### 3.1.6 DIGITAL VIDEO ASSY



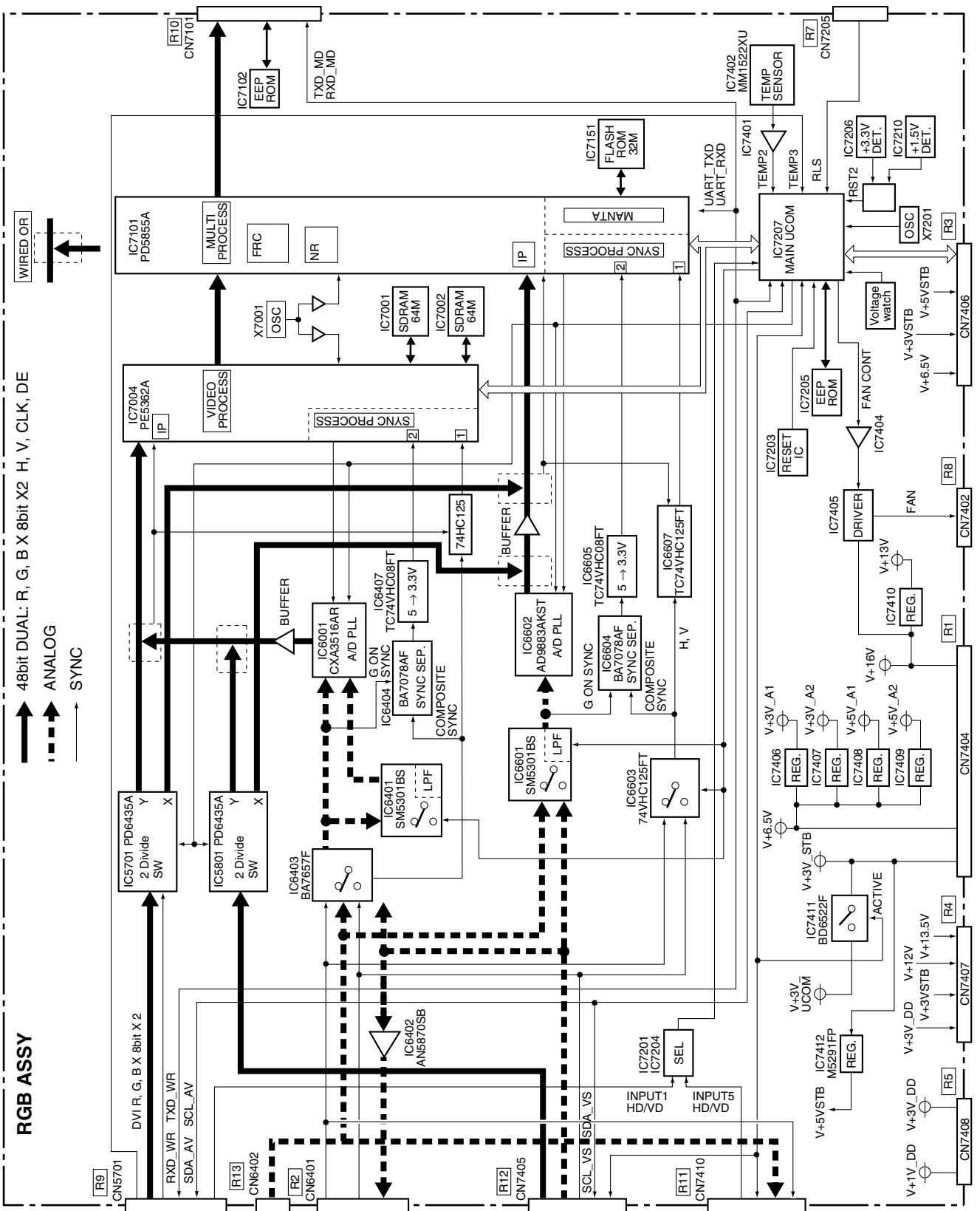


### 3.1.7 AV I/O ASSY

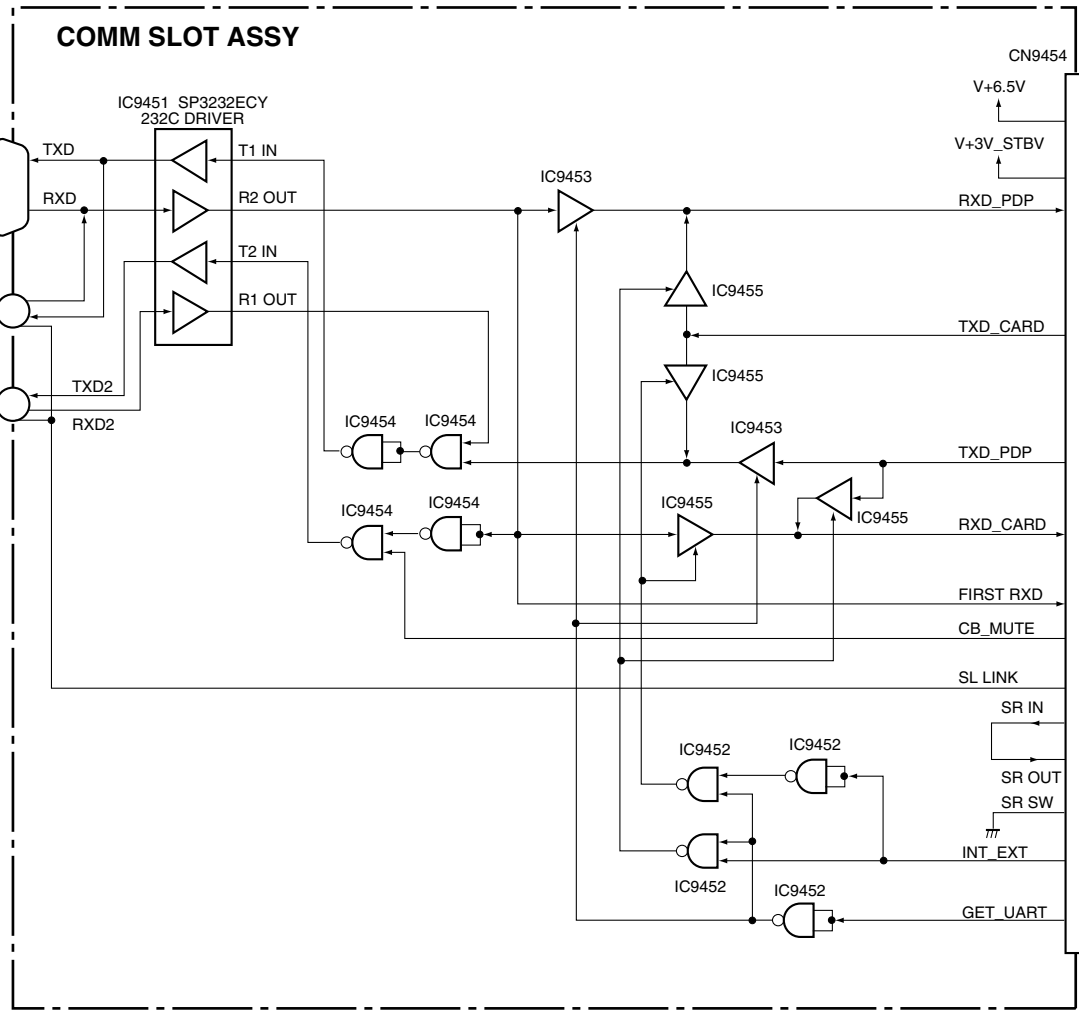
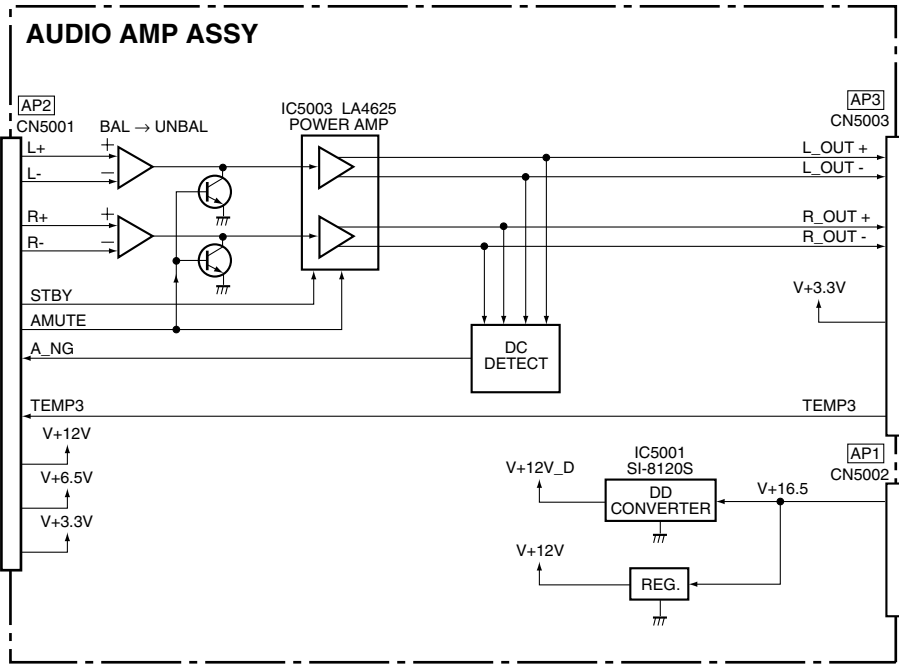
A  
B  
C  
D  
E  
F



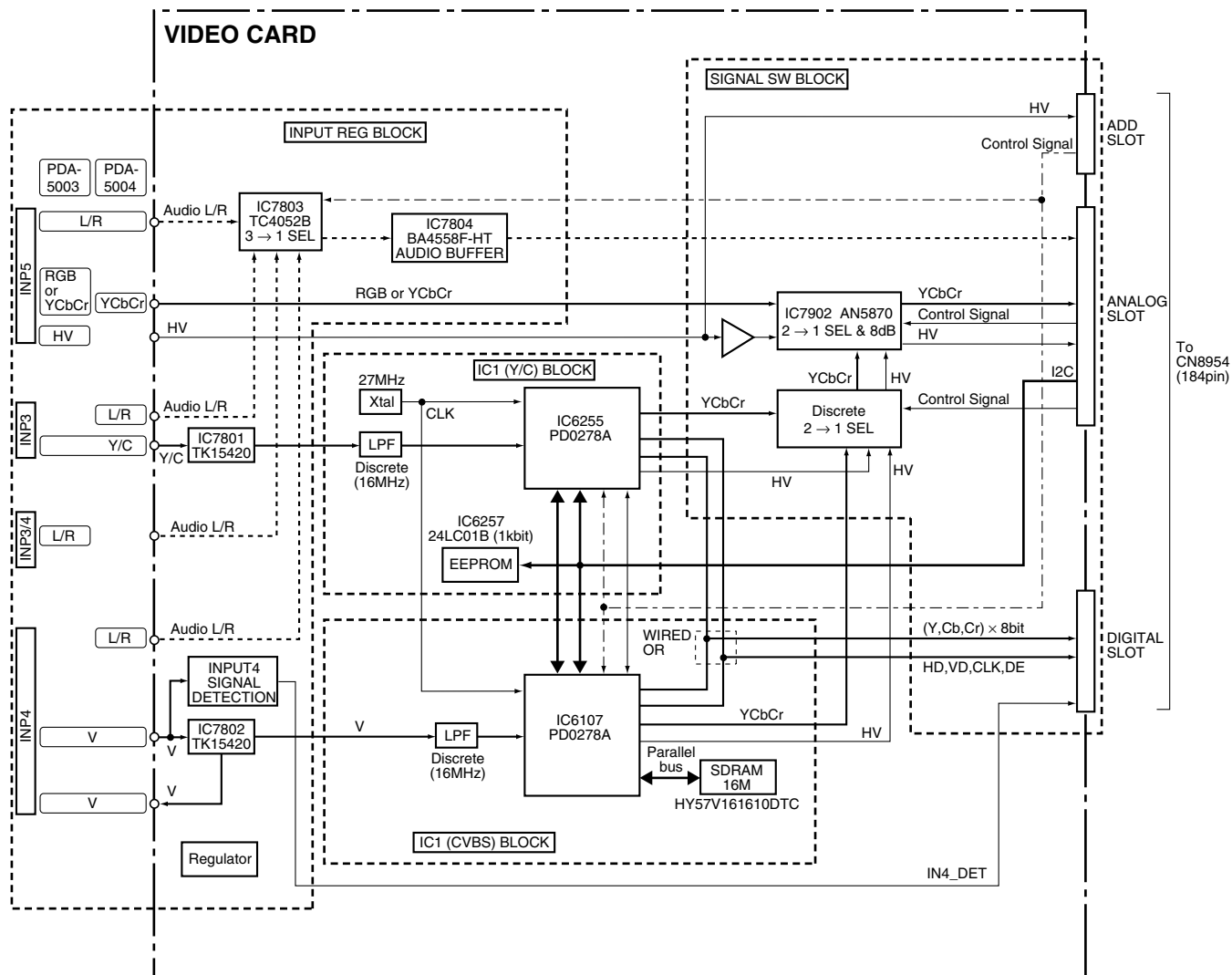
### 3.1.8 RGB ASSY



### 3.1.9 AUDIO AMP and COMM SLOT ASSYS



### 3.1.10 VIDEO CARD



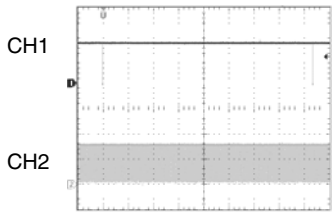
# 3.2 WAVEFORMS

## DIGITAL VIDEO ASSY (4/6)

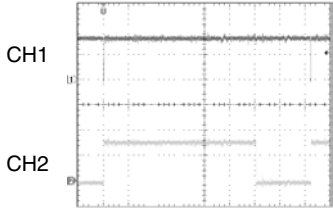
### • DIGITAL I/F BLOCK

A

① CH1: K5003 (VD)  
 CH2: K5002 (HD)  
 V: 2V/div. H: 2msec/div.

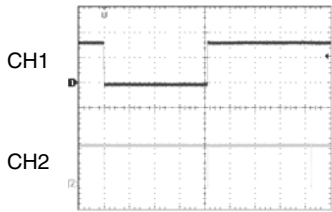


③ CH1: K5002 (HD)  
 CH2: K5004 (DE)  
 V: 2V/div. H: 2μsec/div.

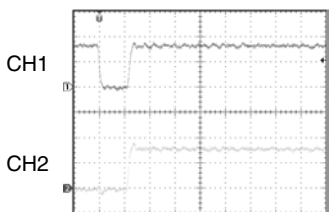


B

① CH1: K5003 (VD)  
 CH2: K5002 (HD)  
 V: 2V/div. H: 4μsec/div.

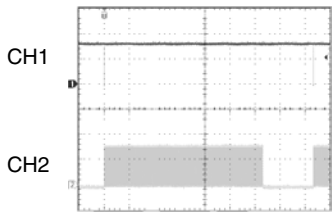


③ CH1: K5002 (HD)  
 CH2: K5004 (DE)  
 V: 2V/div. H: 40nsec/div.

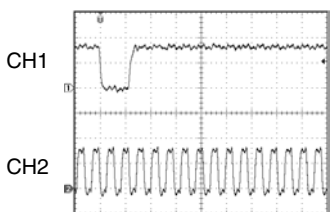


C

② CH1: K5003 (VD)  
 CH2: K5004 (DE)  
 V: 2V/div. H: 2msec/div.

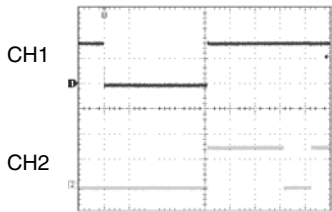


④ CH1: K5002 (HD)  
 CH2: CN5001-pin 77 (DCLK)  
 V: 2V/div. H: 40nsec/div.

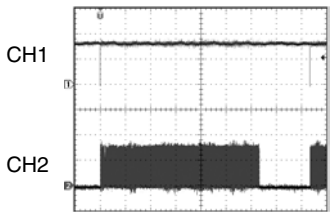


D

② CH1: K5003 (VD)  
 CH2: K5004 (DE)  
 V: 2V/div. H: 4μsec/div.



⑤ CH1: K5003 (VD)  
 CH2: CN5001-pin 88 (RA\_IN2)  
 V: 2V/div. H: 2msec/div.



E

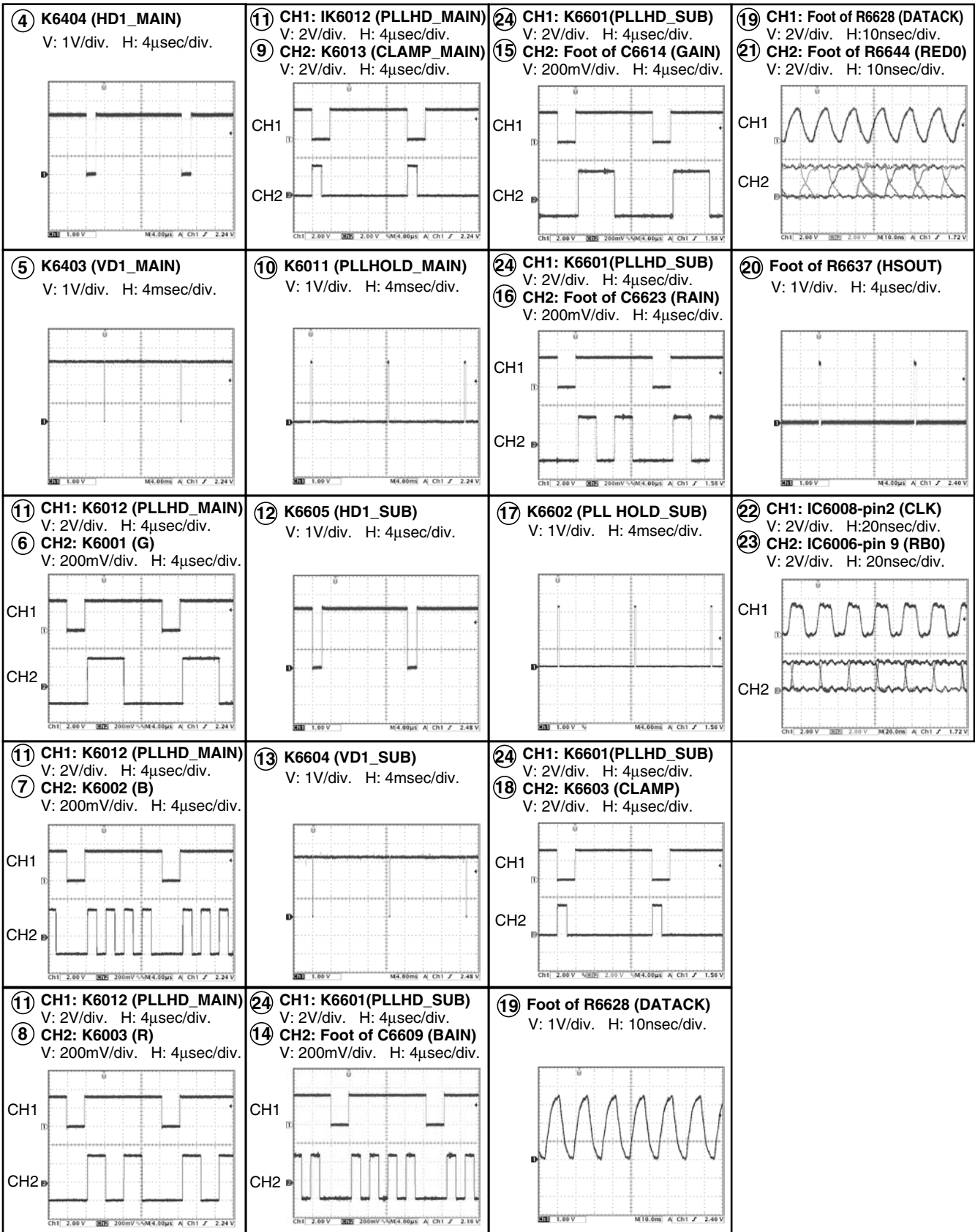
F

**RGB ASSY (2/10, 3/10, 4/10)**  
**MAUN AD BLOCK, MAIN LPF BLOCK, SUS LPF&AD BLOCK**

Input: INPUT 1

Signal: RGB, XGA 60 Hz, Color-bar

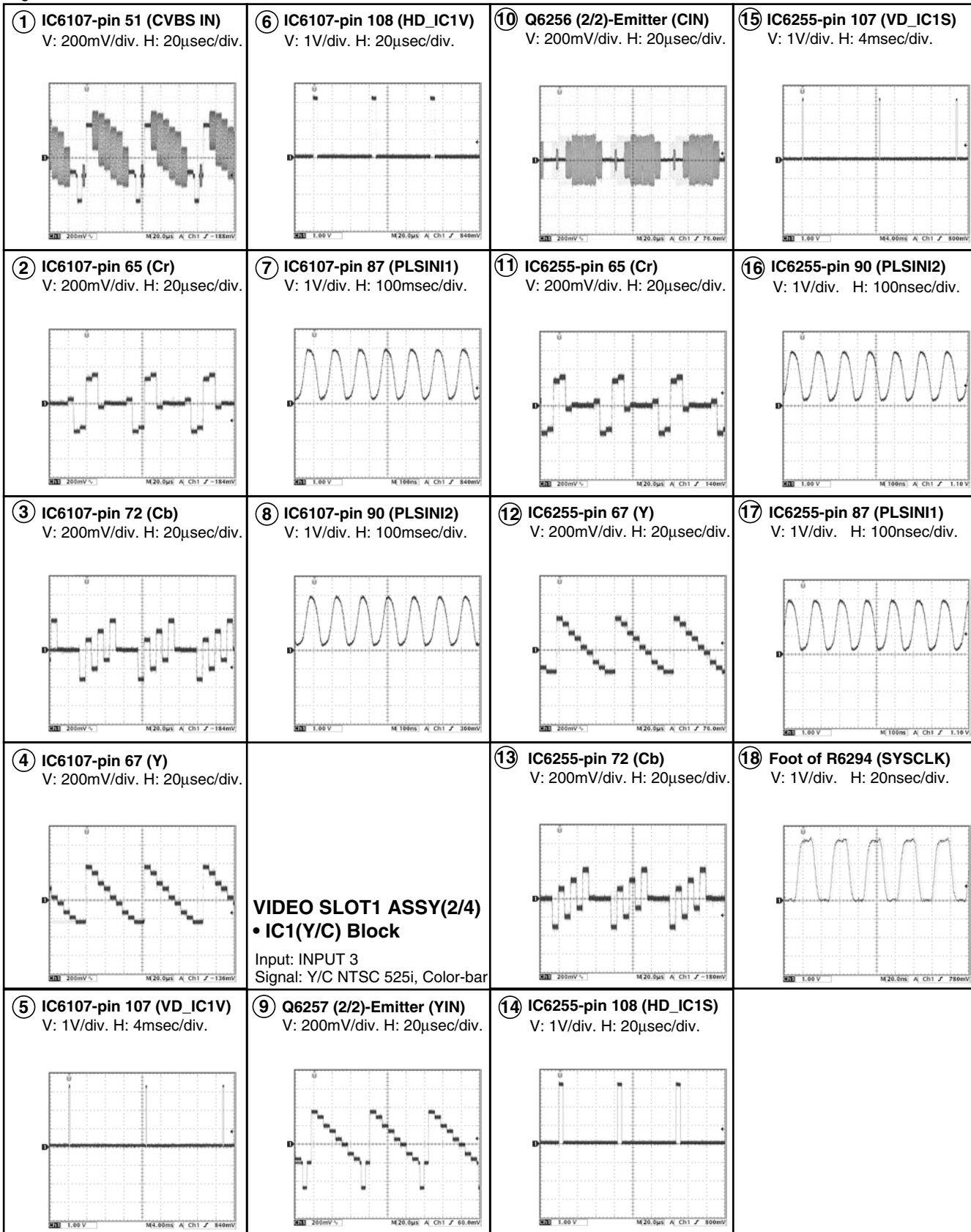
(12) to (21), (24) : With two screens, a SUB screen chooses INPUT1 and observes it.



VIDEO SLOT1 ASSY (1/4), VIDEO SLOT2 ASSY (1/4)

• IC1(CVBS) BLOCK

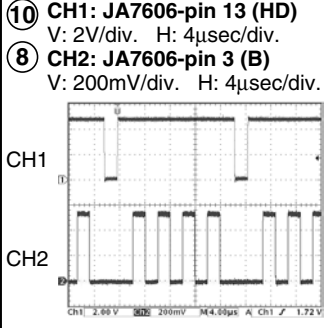
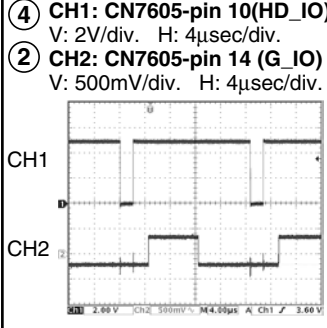
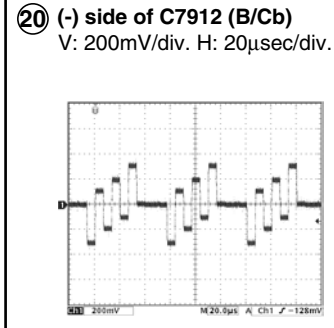
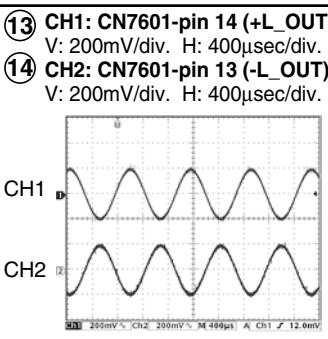
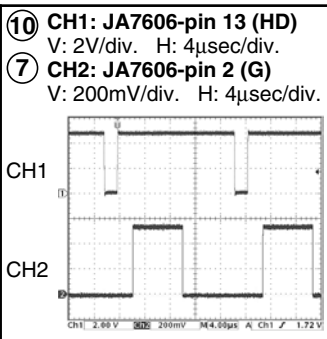
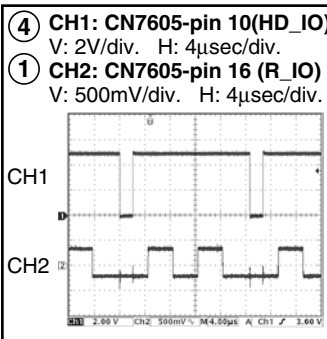
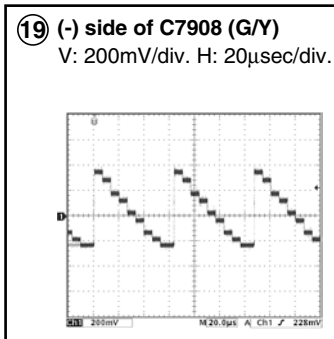
Input: INPUT 4  
Signal: NTSC 525i, Color-bar



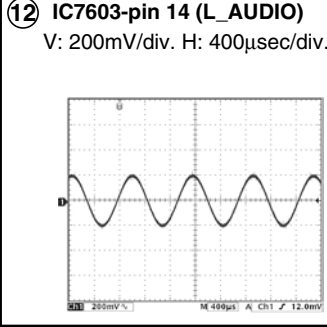
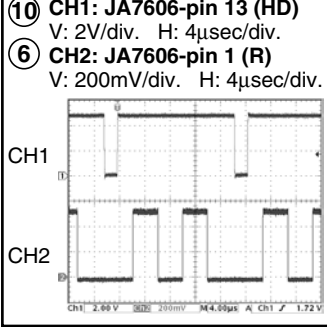
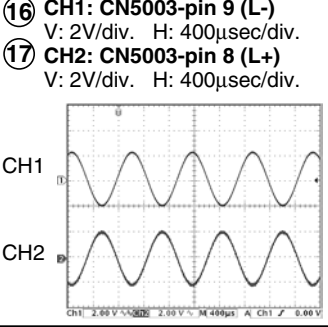
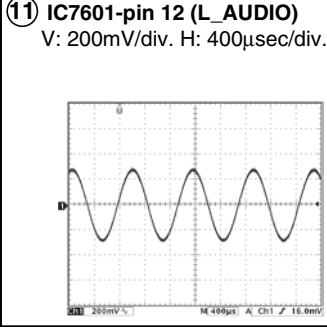
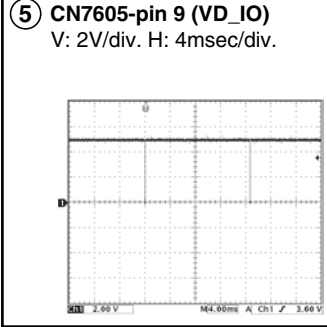
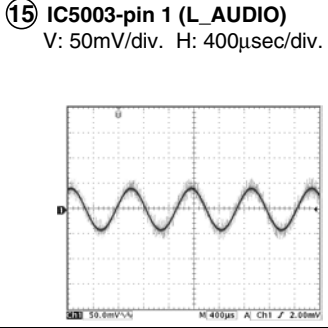
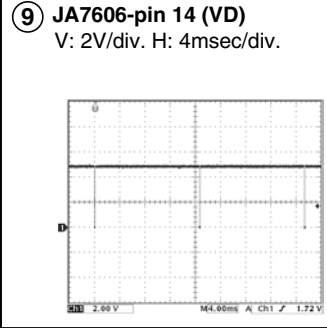
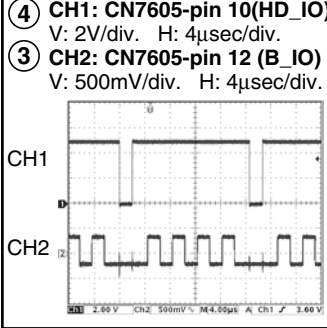
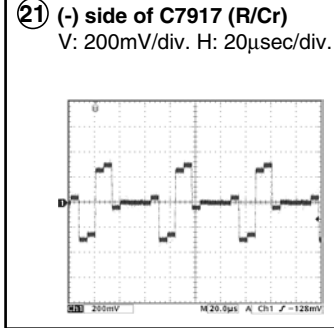
**VIDEO SLOT1 ASSY (4/4)**  
**VIDEO SLOT2 ASSY (4/4)**  
**• SIGNAL SW BLOCK**

**AV I/O ASSY (1/3)**  
**• VIDEO**  
 Input: INPUT 1  
 Signal: RGB, XGA 60 Hz, Color-bar

**• AUDIO**  
 Input: INPUT 1  
 Signal: 200mVrms, 1 kHz input, VOL MAX



**AUDIO AMP ASSY**  
**• AUDIO**  
 Input: INPUT 1  
 Signal: 200mVrms, 1 kHz input, VOL MAX



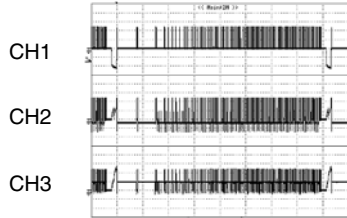


# 50 X DRIVE ASSY, 50 Y DRIVE ASSY and 50 SCAN A ASSY

• 50 X SUS BLOCK, 50 Y LOGIC BLOCK, 50 Y SUS BLOCK

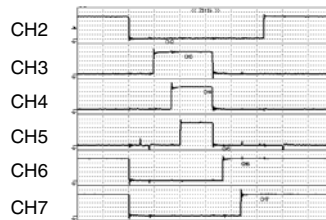
## ① Drive Output Waveform (1 field,color-bar)

CH1: R1226 (XPSUS) - K1201 (SUSGND)  
(50 X DRIVE ASSY)  
CH2: R2348 (YPSUS) - K2301 (SUSGND)  
(50 Y DRIVE ASSY)  
CH3: K3001 (Scan OUT) - K2301 (SUSGND)  
(50 SCAN A ASSY)  
V: 100V/div. H: 2msec/div.



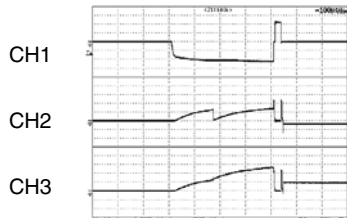
## ⑤ Control Signal (Sustain Waveform Gen.)

CH2: K2016 (YSUS-G) - K2010 (DGND)  
CH3: K2025 (YSUS-U1) - K2010 (DGND)  
CH4: K2022 (YSUS-U2) - K2010 (DGND)  
CH5: K2026 (YSUS-B) - K2010 (DGND)  
CH6: K2024 (YSUS-D2) - K2010 (DGND)  
CH7: K2027 (YSUS-D1) - K2010 (DGND)  
(50 Y DRIVE ASSY)  
V: 1V/div. H: 500nsec/div.



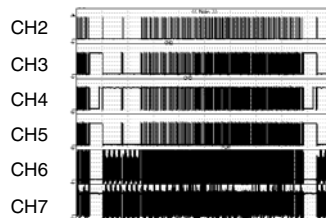
## ② Reset Pulse

CH1: R1226 (XPSUS) - K1201 (SUSGND)  
(50 X DRIVE ASSY)  
CH2: R2348 (YPSUS) - K2301 (SUSGND)  
(50 Y DRIVE ASSY)  
CH3: K3001 (Scan OUT) - K2301 (SUSGND)  
(50 SCAN A ASSY)  
V: 100V/div. H: 100μsec/div.



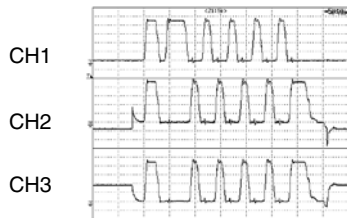
## ⑥ Scan Control Signal (1 field, color-bar)

CH2: K2006 (SI) - K2029 (DGND)  
CH3: K2009 (OC1) - K2029 (DGND)  
CH4: K2004 (OC2) - K2029 (DGND)  
CH5: K2007 (CLR) - K2029 (DGND)  
CH6: K2003 (CLK2) - K2029 (DGND)  
CH7: K2008 (LE) - K2029 (DGND)  
(50 Y DRIVE ASSY)  
V: 1V/div. H: 2msec/div.



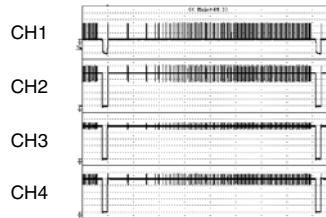
## ③ Sustain Pulse (1 sub-sub-field)

CH1: R1226 (XPSUS) - K1201 (SUSGND)  
(50 X DRIVE ASSY)  
CH2: R2348 (YPSUS) - K2301 (SUSGND)  
(50 Y DRIVE ASSY)  
CH3: K3001 (Scan OUT) - K2301 (SUSGND)  
(50 SCAN A ASSY)  
V: 50V/div. H: 5μsec/div.



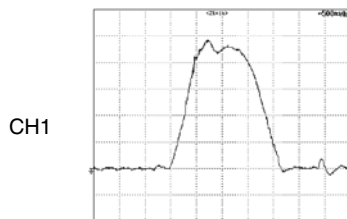
## ⑦ X Drive Pulse Control Signal (color-bar)

CH1: R1226 (XPSUS) - K2301 (SUSGND)  
V: 100V/div. H: 2msec/div.  
CH2: K1016 (XCP-MSK) - K1020 (DGND)  
CH3: K1015 (XSUS-MSK) - K1020 (DGND)  
CH4: K1014 (XNR-D) - K1020 (DGND)  
V: 1V/div. H: 2msec/div.  
(50 X DRIVE ASSY)



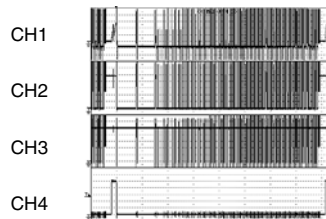
## ④ Sustain Waveform

CH1: R2348 (YPSUS) - K2301 (SUSGND)  
(50 Y DRIVE ASSY)  
V: 50V/div. H: 500nsec/div.



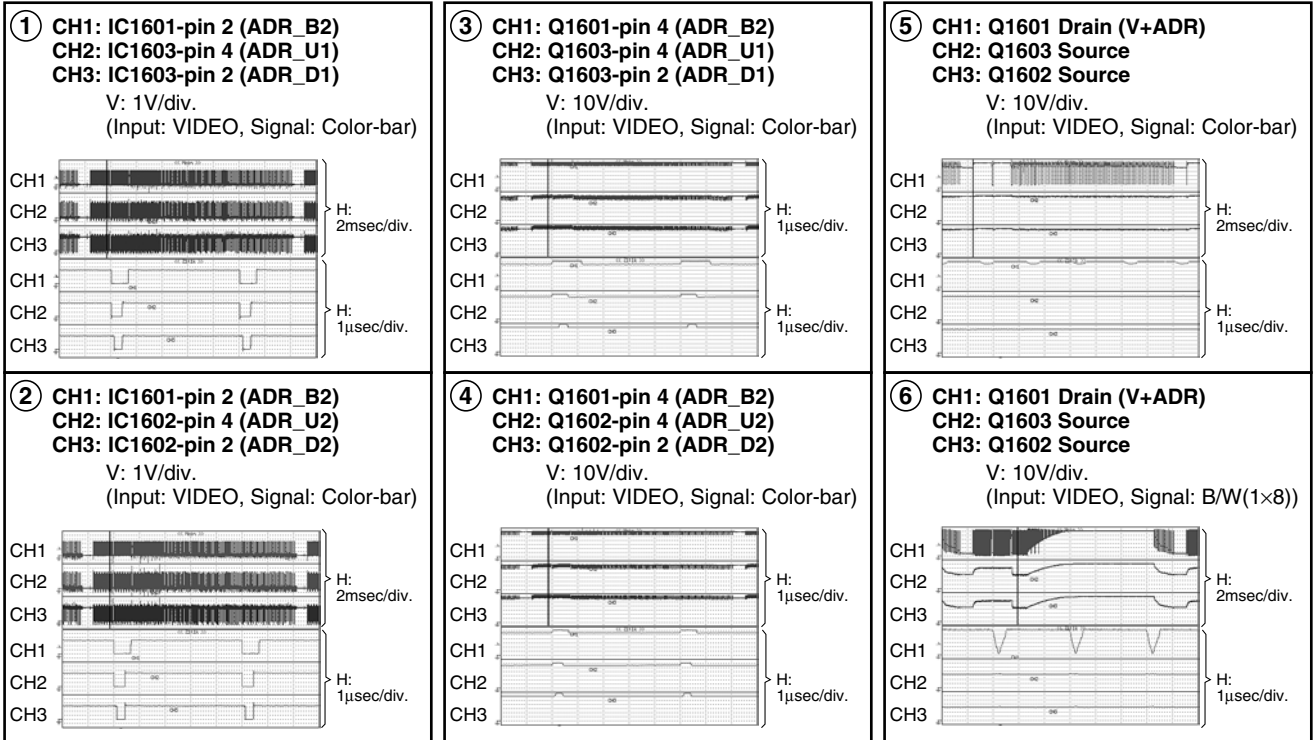
## ⑧ Y Drive Pulse Control Signal (color-bar)

CH1: R2348 (YPSUS) - K2301 (SUSGND)  
V: 50V/div. H: 2msec/div.  
CH2: K2015 (YSUS-MSK) - K2010 (DGND)  
CH3: K2017 (YSOFT-D) - K2010 (DGND)  
CH4: K2023 (YPR-U) - K2010 (DGND)  
V: 1V/div. H: 2msec/div.  
(50 Y DRIVE ASSY)



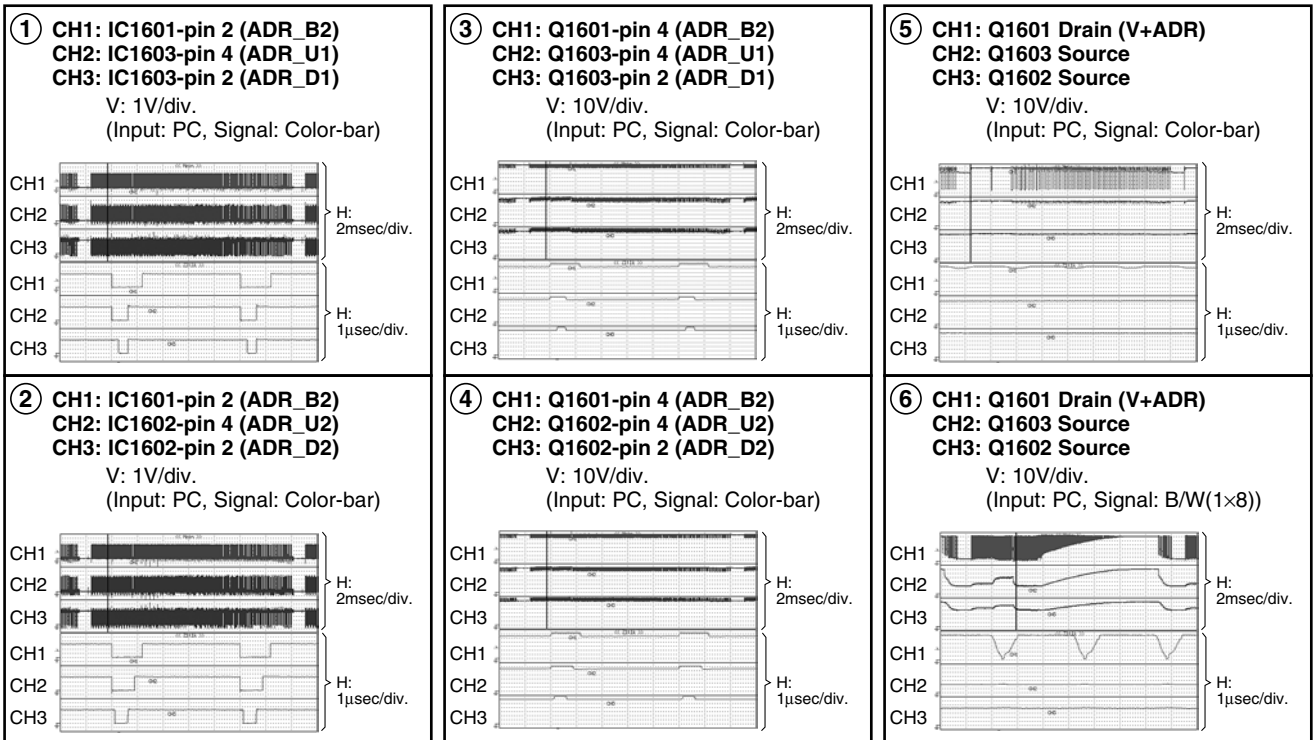
### 50 ADDRESS ASSY

#### • ADR RESONANCE BLOCK (VIDEO)



### 50 ADDRESS ASSY

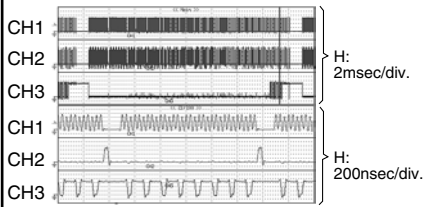
#### • ADR RESONANCE BLOCK (PC)



**50 ADDRESS ASSY**  
**• ADR LOGIC BLOCK**

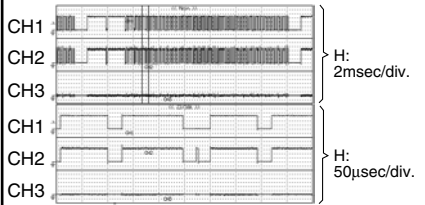
A

① **CH1: IC1553-pin 18 (CLK input)**  
**CH2: IC1553-pin 16 (LE input)**  
**CH3: IC1553-pin 9 (DATA input)**  
 V: 1V/div.  
 (Input: VIDEO, Signal: Color-bar)



B

② **CH1: IC1553-pin 23 (HBLK input)**  
**CH2: IC1553-pin 19 (LBLK input)**  
**CH3: IC1553-pin 25 (HZ input)**  
 V: 1V/div.  
 (Input: VIDEO, Signal: Color-bar)



C

D

E

F

### 3.3 VOLTAGES

#### • Voltages

##### CN5601 (D1)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	+12V	I	+12V power input	+12VDC
2	+12V	I	+12V power input	+12VDC
3	GND_D	-	GND	
4	GND_D	-	GND	
5	PD	O	Power down signal	0VDC
6	VSUS_ADJ	O	VSUS adjustment signal	
7	PS_PD	I	Power-down detecting signal of POWER SUPPLY block	0VDC
8	RELAY	O	Relay control signal	+3.3VDC
9	DRF	O	Drive control signal	0VDC
10	AC_DET	I	Primary side power (AC) state output at panel side	+3.0VDC
11	PD_TRIGGER	I	Power down trigger	+3.3VDC

##### CN5602 (D2)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	VADR	I	Address drive power (+61V) input	+61VDC
2	VADR	I	Address drive power (+61V) input	+61VDC
3	N.C		Not connected	
4	GND_ADR	-	GND	
5	GND_ADR	-	GND	
6	+6.5V	I	+6.5V power input	+6.8VDC
7	GND_D	-	GND	

## RGB ASSY

## POWER SUPPLY ASSY

R1 (CN7404)		Voltage (V)	P8	
No.	Name		Name	No.
1	V+16.5V	16.7	V+16.5V	1
2	GND	0	GND	2
3	V+12V	12.9	V+12V	3
4	V+12V	12.9	V+12V	4
5	GND	0	GND	5
6	GND	0	GND	6
7	V+6.5V	6.8	V+6.5V	7
8	V+6.5V	6.8	V+6.5V	8
9	GND	0	GND	9
10	GND	0	GND	10
11	V+3V_STB	3.3	V+3V_STB	11
12	GND	0	GND	12
13	AC_DET	3.3	AC_DET	13

## RGB ASSY

## VIDEO SLOT I/F ASSY

R4 (CN7407)		Voltage (V)	VS1 (CN8951)	
No.	Name		Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	V+13V	13.6	V+13V	3
4	V+13V	13.6	V+13V	4
5	V+12V	12.9	V+12V	5
6	V+12V	12.9	V+12V	6
7	GND	0	GND	7
8	V+3V_STB	3.3	V+3V_STB	8
9	GND	0	GND	9
10	V+3V_DD	3.3	V+3V_DD	10
11	V+3V_DD	3.3	V+3V_DD	11
12	GND	0	GND	12

## RGB ASSY

## AV I/O ASSY

R2 (CN6401)		Voltage (V)	AV4 (CN8705)	
No.	Name		Name	No.
1	VD_SLOT	0	VD_SLOT	1
2	HD_SLOT	0	HD_SLOT	2
3	GNDD	0	GNDD	3
4	B_SLOT	0	B_SLOT	4
5	GNDD	0	GNDD	5
6	G_SLOT	0	G_SLOT	6
7	GNDD	0	GNDD	7
8	R_SLOT	0	R_SLOT	8
9	VD_IO	5	VD_IO	9
10	HD_IO	4.5	HD_IO	10
<b>R13 (CN6402)</b>				
1	GNDD	0	GNDD	11
2	B_IO	0	B_IO	12
3	GNDD	0	GNDD	13
4	G_IO	0	G_IO	14
5	GNDD	0	GNDD	15
6	R_IO	0	R_IO	16

## RGB ASSY

## DIGITAL VIDEO ASSY

R5 (CN7408)		Voltage (V)	D3 (CN5002)	
No.	Name		Name	No.
1	V+1V_DD	1.4	V+1V_DD	1
2	V+1V_DD	1.4	V+1V_DD	2
3	V+1V_DD	1.4	V+1V_DD	3
4	GND	0	GND	4
5	GND	0	GND	5
6	GND	0	GND	6
7	V+3V_DD	3.3	V+3V_DD	7
8	V+3V_DD	3.3	V+3V_DD	8
9	GND	0	GND	9
10	GND	0	GND	10
11	NC			
12	NC			

## RGB ASSY

## LED OPT ASSY (OPT)

R7 (CN7205)		Voltage (V)	LO2 (CN9051)	
No.	Name		Name	No.
1	3.3V	3.3	3.3V	1
2	RLS	0-3.3	RLS	2
3	GND	0	GND	3
4	GND	0	GND	4

## RGB ASSY

## COMM SLOT I/F ASSY

R3 (CN7406)		Voltage (V)	CS2 (CN8902)	
No.	Name		Name	No.
1	V+5V_STB	5.1	V+5V_STB	1
2	GND	0	GND	2
3	V+3V_STB	3.3	V+3V_STB	3
4	CYOB1	3.3	CYOB1	4
5	CYOB2	0	CYOB2	5
6	CYOB3	0	CYOB3	6
7	GND	0	GND	7
8	SR_OUT	4.9	SR_OUT	8
9	SLOT_ST_COM	3.3	SLOT_ST_COM	9
10	V+6V	6.8	V+6V	10
11	NC	0	NC	11

## RGB ASSY

## FAN (L), (R)

R8 (CN7402)		Voltage (V)	FAN (L)	
No.	Name		Name	No.
1	FAN_12V	0	FAN_12V	1
2	FAN_NG	3.2	FAN_NG	2
3	GND	0	GND	3
			<b>FAN (R)</b>	
4	FAN_12V	0	FAN_12V	1
5	FAN_NG	3.2	FAN_NG	2
6	GND	0	GND	3
7	NC			

## RGB ASSY

R9 (CN5701)				
No.	Name			
AV I/O IF ASSY		AV I/O ASSY		
CN2102, AV6 (CN2101)		Voltage (V)	CN8705	
No.	Name		Name	No.
1	N.C.	0	N.C.	101
2	N.C.	0	N.C.	102
3	A_R_SLOT	0	A_R_SLOT	103
4	GND	0	GND	104
5	A_L_SLOT	0	A_L_SLOT	105
6	GND	0	GND	106
7	V+12V	12.9	V+12V	107
8	GND	0	GND	108
9	1N1_HD	4.4	1N1_HD	109
10	1N1_VD	4.8	1N1_VD	110
11	WE_ROM_B	0	WE_ROM_B	111
12	KEY	3.3	KEY	112
13	IO_YOBI2	0	IO_YOBI2	113
14	SR_OUT	5	SR_OUT	114
15	RXD_IF	3.3	RXD_IF	115
16	CLK_IF	3.3	CLK_IF	116
17	RXD_WR	3.3	RXD_WR	117
18	REQ_IF	0	REQ_IF	118
19	RST_IF	0	RST_IF	119
20	IF_CE	3.2	IF_CE	120
21	HOT_P1	0	HOT_P1	121
22	HDMI2_SDA	0	HDMI2_SDA	122
23	HDMI_INT1	3.2	HDMI_INT1	123
24	SCL_AV	3.3	SCL_AV	124
25	HDMI_AUDIO_CLK	0	HDMI_AUDIO_CLK	125
26	D_AUDIO_SEL	0	D_AUDIO_SEL	126
27	CEC2	0	CEC2	127
28	GND	0	GND	128
29	HD_DVI	0	HD_DVI	129
30	DE_DVI	0	DE_DVI	130
31	GND	0	GND	131
32	RB_DVI7	0/3.3	RB_DVI7	132
33	RB_DVI6	0/3.3	RB_DVI6	133
34	RB_DVI4	0/3.3	RB_DVI4	134
35	RB_DVI2	0/3.3	RB_DVI2	135
36	RB_DVI0	0/3.3	RB_DVI0	136
37	GB_DVI6	0/3.3	GB_DVI6	137
38	GB_DVI4	0/3.3	GB_DVI4	138
39	GB_DVI2	0/3.3	GB_DVI2	139
40	GB_DVI0	0/3.3	GB_DVI0	140
41	BB_DVI6	0/3.3	BB_DVI6	141
42	BB_DVI4	0/3.3	BB_DVI4	142
43	BB_DVI2	0/3.3	BB_DVI2	143
44	BB_DVI0	0/3.3	BB_DVI0	144
45	RA_DVI7	0/3.3	RA_DVI7	145
46	RA_DVI5	0/3.3	RA_DVI5	146
47	RA_DVI3	0/3.3	RA_DVI3	147
48	RA_DVI1	0/3.3	RA_DVI1	148
49	GND	0	GND	149
52	GA_DVI7	0/3.3	GA_DVI7	152
53	GA_DVI5	0/3.3	GA_DVI5	153
54	GA_DVI3	0/3.3	GA_DVI3	154
55	GA_DVI1	0/3.3	GA_DVI1	155
56	BA_DVI7	0/3.3	BA_DVI7	156

## RGB ASSY

R9 (CN5701)				
No.	Name			
AV I/O IF ASSY		AV I/O ASSY		
CN2102, AV6 (CN2101)		Voltage (V)	CN8705	
No.	Name		Name	No.
57	BA_DVI5	0/3.3	BA_DVI5	157
58	BA_DVI3	0/3.3	BA_DVI3	158
59	GND	0	GND	159
60	V+5V_A2	5	V+5V_A2	160
61	N.C.	0	N.C.	161
62	N.C.	0	N.C.	162
101	N.C.	0	N.C.	1
102	N.C.	0	N.C.	2
103	A_MUTE	0	A_MUTE	3
104	TEMP3	0A 3.3	TEMP3	4
105	V+6V	6.8	V+6V	5
106	GND	0	GND	6
107	V+3V_A1	3.3	V+3V_A1	7
108	GND	0	GND	8
109	V+3V_UCOM	3.3	V+3V_UCOM	9
110	GND	0	GND	10
111	V+3VSTB	3.3	V+3VSTB	11
112	IO_YOBI1	0	IO_YOBI1	12
113	PN2	0	PN2	13
114	ACTIVE	3.2	ACTIVE	14
115	TXD_IF	3.3	TXD_IF	15
116	TXD_WR	3.3	TXD_WR	16
117	AC_DET	3	AC_DET	17
118	IF_BUSY	0	IF_BUSY	18
119	RESET	3.3	RESET	19
120	HDMI_AUDIO_CE	0	HDMI_AUDIO_CE	20
121	HOT_P2	0	HOT_P2	21
122	HDMI2_SCL	0	HDMI2_SCL	22
123	SDA_AV	3.2	SDA_AV	23
124	HDMI_INT2	3.2	HDMI_INT2	24
125	HDMI_AUDIO_TXD	0	HDMI_AUDIO_TXD	25
126	CEC1	2	CEC1	26
127	RESETX1	3.3	RESETX1	27
128	VD_DVI	0	VD_DVI	28
129	GND	0	GND	29
130	CLK_DVI	0	CLK_DVI	30
131	GND	0	GND	31
132	GND	0	GND	32
133	RB_DVI5	0/3.3	RB_DVI5	33
134	RB_DVI3	0/3.3	RB_DVI3	34
135	RB_DVI1	0/3.3	RB_DVI1	35
136	GB_DVI7	0/3.3	GB_DVI7	36
137	GB_DVI5	0/3.3	GB_DVI5	37
138	GB_DVI3	0/3.3	GB_DVI3	38
139	GB_DVI1	0/3.3	GB_DVI1	39
140	GND	0	GND	40
141	BB_DVI6	0/3.3	BB_DVI6	41
142	BB_DVI4	0/3.3	BB_DVI4	42
143	BB_DVI2	0/3.3	BB_DVI2	43
144	BB_DVI0	0/3.3	BB_DVI0	44
145	RA_DVI6	0/3.3	RA_DVI6	45
146	RA_DVI4	0/3.3	RA_DVI4	46
147	RA_DVI2	0/3.3	RA_DVI2	47
148	RA_DVI0	0/3.3	RA_DVI0	48

RGB ASSY

R9 (CN5701)				
No.	Name			
AV I/O IF ASSY		AV I/O ASSY		
CN2102, AV6 (CN2101)		Voltage (V)	CN8705	
No.	Name		Name	No.
149	GND	0	GND	49
152	GA_DVI6	0/3.3	GA_DVI6	52
153	GA_DVI4	0/3.3	GA_DVI4	53
154	GA_DVI2	0/3.3	GA_DVI2	54
155	GA_DVI0	0/3.3	GA_DVI0	55
156	BA_DVI6	0/3.3	BA_DVI6	56
157	BA_DVI4	0/3.3	BA_DVI4	57
158	BA_DVI2	0/3.3	BA_DVI2	58
159	BA_DVI1	0/3.3	BA_DVI1	59
160	BA_DVI0	0/3.3	BA_DVI0	60
161	NC	0	NC	61
162	NC	0	NC	62

RGB ASSY

VIDEO SLOT I/F ASSY

R11 (CN7410)		Voltage (V)	VS3 (CN8955)	
No.	Name		Name	No.
38	GND	0	GND	38
39	GND	0	GND	39
40	DSUBV	5	DSUBV	40
41	GND	0	GND	41
42	GND	0	GND	42
43	IN5_VD	3.3	IN5_VD	43
44	GND	0	GND	44
45	GND	0	GND	45
46	HYOUJI_X	0	HYOUJI_X	46
47	VYOB14	0	VYOB14	47
48	VYOB15	0	VYOB15	48
49	VYOB16	0	VYOB16	49
50	WE_ROM_B	0	WE_ROM_B	50

RGB ASSY

VIDEO SLOT I/F ASSY

R11 (CN7410)		Voltage (V)	VS3 (CN8955)	
No.	Name		Name	No.
1	GND	0	GND	1
2	KEY	3.3	KEY	2
3	EMGREQ1_V	0	EMGREQ1_V	3
4	EMGREQ2_V	0	EMGREQ2_V	4
5	IC1V_OE	3.3	IC1V_OE	5
6	RESETX1	3.3	RESETX1	6
7	GND	0	GND	7
8	SD_SEL	3.3	SD_SEL	8
9	FNC2	0	FNC2	9
10	FNC3	0	FNC3	10
11	SOUND1	3.3	SOUND1	11
12	GND	0	GND	12
13	DSUBR	3.77	DSUBR	13
14	GND	0	GND	14
15	DSUBG	0	DSUBG	15
16	GND	0	GND	16
17	DSUBB	3.8	DSUBB	17
18	GND	0	GND	18
19	GND	0	GND	19
20	IN5_HD	0	IN5_HD	20
21	GND	0	GND	21
22	SOUSA_X	3.3	SOUSA_X	22
23	VYOB11	0	VYOB11	23
24	VYOB12	0	VYOB12	24
25	DSUBSW_DET	0	DSUBSW_DET	25
26	GND	0	GND	26
27	GND	0	GND	27
28	GND	0	GND	28
29	EMGREQ1_S	0	EMGREQ1_S	29
30	EMGREQ2_S	0	EMGREQ2_S	30
31	IC1S_OE	0	IC1S_OE	31
32	SLOT_ST3	0.4	SLOT_ST3	32
33	M_CHOICE	0	M_CHOICE	33
34	SOUND2	0	SOUND2	34
35	GND	0	GND	35
36	GND	0	GND	36
37	DSUBH	4.5	DSUBH	37

RGB ASSY

VIDEO SLOT I/F ASSY

R12 (CN7405)		Voltage (V)	VS4 (CN8953)	
No.	Name		Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	G_SLOT	0	G_SLOT	3
4	GND	0	GND	4
5	B_SLOT	0	B_SLOT	5
6	GND	0	GND	6
7	R_SLOT	0	R_SLOT	7
8	GND	0	GND	8
9	HD_SLOT	0	HD_SLOT	9
10	GND	0	GND	10
11	VD_SLOT	0	VD_SLOT	11
12	GND	0	GND	12
13	AUDIO_L_SLOT	6	AUDIO_L_SLOT	13
14	GND	0	GND	14
15	AUDIO_R_SLOT	6	AUDIO_R_SLOT	15
16	GND	0	GND	16
17	SLOT_ST1	0	SLOT_ST1	17
18	S_DIN_SEL	0	S_DIN_SEL	18
19	FNC_1	0	FNC_1	19
20	FNC_0	5	FNC_0	20
21	NC	0	NC	21
22	NC	0	NC	22
23	VD_DET	0	VD_DET	23
24	GND	0	GND	24
25	HD_DET	0	HD_DET	25
26	GND	0	GND	26
27	VD_IC1	3.2	VD_IC1	27
28	GND	0	GND	28
29	HD_IC1	3	HD_IC1	29
30	GND	0	GND	30
31	GND	0	GND	31
32	RB0_IC1	0/3.3	RB0_IC1	32
33	RB1_IC1	0/3.3	RB1_IC1	33
34	RB2_IC1	0/3.3	RB2_IC1	34
35	RB3_IC1	0/3.3	RB3_IC1	35
36	RB4_IC1	0/3.3	RB4_IC1	36
37	RB5_IC1	0/3.3	RB5_IC1	37

## RGB ASSY

## VIDEO SLOT I/F ASSY

R12 (CN7405)		Voltage (V)	VS4 (CN8953)	
No.	Name		Name	No.
38	RB6_IC1	0/3.3	RB6_IC1	38
39	RB7_IC1	0/3.3	RB7_IC1	39
40	GND	0	GND	40
41	GND	0	GND	41
42	GB0_IC1	0/3.3	GB0_IC1	42
43	GB1_IC1	0/3.3	GB1_IC1	43
44	GB2_IC1	0/3.3	GB2_IC1	44
45	GB3_IC1	0/3.3	GB3_IC1	45
46	GB4_IC1	0/3.3	GB4_IC1	46
47	GB5_IC1	0/3.3	GB5_IC1	47
48	GB6_IC1	0/3.3	GB6_IC1	48
49	GB7_IC1	0/3.3	GB7_IC1	49
50	GND	0	GND	50
51	GND	0	GND	51
52	BB0_IC1	0/3.3	BB0_IC1	52
53	BB1_IC1	0/3.3	BB1_IC1	53
54	BB2_IC1	0/3.3	BB2_IC1	54
55	BB3_IC1	0/3.3	BB3_IC1	55
56	BB4_IC1	0/3.3	BB4_IC1	56
57	BB5_IC1	0/3.3	BB5_IC1	57
58	BB6_IC1	0/3.3	BB6_IC1	58
59	BB7_IC1	0/3.3	BB7_IC1	59
60	GND	0	GND	60
61	GND	0	GND	61
62	GND	0	GND	62
63	SCL_VS	3.1	SCL_VS	63
64	GND	0	GND	64
65	SDA_VS	3.1	SDA_VS	65
66	GND	0	GND	66
67	GND	0	GND	67
68	GND	0	GND	68
69	NC	0	NC	69
70	GND	0	GND	70
71	NC	0	NC	71
72	GND	0	GND	72
73	NC	0	NC	73
74	GND	0	GND	74
75	NC	0	NC	75
76	NC	0	NC	76
77	IN4_DET	0	IN4_DET	77
78	IN3_DET	0	IN3_DET	78
79	SLOT_ST2	3	SLOT_ST2	79
80	SR_VS	5.1	SR_VS	80
81	NC	0	NC	81
82	3G4G	3.3	3G4G	82
83	GND	0	GND	83
84	GND	0	GND	84
85	IN5_DET	0	IN5_DET	85
86	GND	0	GND	86
87	DE_IC1	2.5	DE_IC1	87
88	GND	0	GND	88
89	CK_IC1	1.5	CK_IC1	89
90	GND	0	GND	90
91	GND	0	GND	91
92	BA7_IC1	0/3.3	BA7_IC1	92
93	BA6_IC1	0/3.3	BA6_IC1	93
94	BA5_IC1	0/3.3	BA5_IC1	94

## RGB ASSY

## VIDEO SLOT I/F ASSY

R12 (CN7405)		Voltage (V)	VS4 (CN8953)	
No.	Name		Name	No.
95	BA4_IC1	0/3.3	BA4_IC1	95
96	BA3_IC1	0/3.3	BA3_IC1	96
97	BA2_IC1	0/3.3	BA2_IC1	97
98	BA1_IC1	0/3.3	BA1_IC1	98
99	BA0_IC1	0/3.3	BA0_IC1	99
100	GND	0	GND	100
101	GND	0	GND	101
102	GA7_IC1	0/3.3	GA7_IC1	102
103	GA6_IC1	0/3.3	GA6_IC1	103
104	GA5_IC1	0/3.3	GA5_IC1	104
105	GA4_IC1	0/3.3	GA4_IC1	105
106	GA3_IC1	0/3.3	GA3_IC1	106
107	GA2_IC1	0/3.3	GA2_IC1	107
108	GA1_IC1	0/3.3	GA1_IC1	108
109	GA0_IC1	0/3.3	GA0_IC1	109
110	GND	0	GND	110
111	GND	0	GND	111
112	RA7_IC1	0/3.3	RA7_IC1	112
113	RA6_IC1	0/3.3	RA6_IC1	113
114	RA5_IC1	0/3.3	RA5_IC1	114
115	RA4_IC1	0/3.3	RA4_IC1	115
116	RA3_IC1	0/3.3	RA3_IC1	116
117	RA2_IC1	0/3.3	RA2_IC1	117
118	RA1_IC1	0/3.3	RA1_IC1	118
119	RA0_IC1	0/3.3	RA0_IC1	119
120	GND	0	GND	120
121	GND	0	GND	121
122	GND	0	GND	122

## AV I/O ASSY

## AUDIO AMP ASSY

AV1 (CN7601)		Voltage (V)	AP2 (CN5001)	
No.	Name		Name	No.
1	A_NG	3.2	A_NG	15
2	TEMP3	0-3.3	TEMP3	14
3	A_MUTE	0	A_MUTE	13
4	ST_BY	2.5	ST_BY	12
5	GND	0	GND	11
6	V+6V	6.8	V+6V	10
7	V+3V	3.3	V+3V	9
8	V+12A	12	V+12A	8
9	GND	0	GND	7
10	-R_OUT	6	-R_OUT	6
11	+R_OUT	6	+R_OUT	5
12	GND	0	GND	4
13	-L_OUT	6	-L_OUT	3
14	+L_OUT	6	+L_OUT	2
15	GND	0	GND	1

## AV I/O ASSY

## KEY CONTROL ASSY

AV2 (CN8702)		Voltage (V)	KY1 (CN9001)	
No.	Name		Name	No.
1	GND	0	GND	1
2	KEY	3.3	KEY	2
3	V+3VSTB	3.3	V+3VSTB	3



## AV I/O ASSY

## LED OPT ASSY

AV3 (CN8703)		Voltage (V)	KY1 (CN9651)	
No.	Name		Name	No.
1	V+3STB	3.3	V+3STB	1
2	LED_G	0	LED_G	2
3	LED_R	3.3	LED_R	3
4	GND	0	GND	4
5	AC_DET	3	AC_DET	5

## COMM SLOT I/F ASSY

## IR ASSY

CS4 (CN8901)		Voltage (V)	RE1 (CN4901)	
No.	Name		Name	No.
1	V+3STB	3.3	V+3STB	1
2	GND	0	GND	2
3	SR	0	SR	3
4	GND	0	GND	4

## AV I/O ASSY

## COMM SLOT I/F ASSY

AV5 (CN8704)		Voltage (V)	KY1 (CN8905)	
No.	Name		Name	No.
1	STL_LINK	3.3	STL_LINK	1
2	CB_MUTE	3.3	CB_MUTE	2
3	KEY	3.3	KEY	3
4	RXD	3.3	RXD	4
5	TXD	3.3	TXD	5
6	GND	0	GND	6

## COMM SLOT I/F ASSY

## COMM SLOT ASSY

CS5 (CN8904)		Voltage (V)	CN9454	
No.	Name		Name	No.
1	NC	0	NC	1
2	IRSW	0	IRSW	2
3	IR_COMM_OUT	5.1	IR_COMM_OUT	3
4	IR_COMM_IN	5.1	IR_COMM_IN	4
5	GND	0	GND	5
6	GND	0	GND	6
7	GND	0	GND	7
8	CYOB13	0	CYOB13	8
9	CYOB12	0	CYOB12	9
10	CSL_ST2	3.3	CSL_ST2	10
11	CSL_ST1	3.3	CSL_ST1	11
12				12
13				13
14	GND	0	GND	14
15	GND	0	GND	15
16	FIRST_RXD	3.3	FIRST_RXD	16
17	GET_UART	3.3	GET_UART	17
18	INT_EXT	3.3	INT_EXT	18
19	RXD_CARD	0	RXD_CARD	19
20	TXD_CARD	0	TXD_CARD	20
21	GPC5	0	GPC5	21
22	GPC4	0	GPC4	22
23	GPC3	0	GPC3	23
24	GPC2	0	GPC2	24
25	GPC1	0	GPC1	25
101	NC	0	NC	101
102	GND	0	GND	102
103	GND	0	GND	103
104	GND	0	GND	104
105	TXD_PDP	3.3	TXD_PDP	105
106	RXD_PDP	3.3	RXD_PDP	106
107	KEY_COMM_IN	3.3	KEY_COMM_IN	107
108	CB_MUTE	3.3	CB_MUTE	108
109	STL_LINK	3.3	STL_LINK	109
110	GND	0	GND	110
111	GND	0	GND	111
114	V+6.5V	6.8	V+6.5V	114
115	V+6.5V	6.8	V+6.5V	115
116	GND	0	GND	116
117	GND	0	GND	117
118	V+3VSTB	3.3	V+3VSTB	118
119	V+3VSTB	3.3	V+3VSTB	119
120	NC	0	NC	120
121	NC	0	NC	121
122	NC	0	NC	122
123	NC	0	NC	123
124	NC	0	NC	124
125	NC	0	NC	125

## AUDIO AMP ASSY

## POWER SUPPLY ASSY

AP1 (CN5002)		Voltage (V)	P6	
No.	Name		Name	No.
1	V+16R5	16.7	V+16R5	1
2	V+16R5	16.7	V+16R5	2
3	GNDP	0	GNDP	3
4	GNDP	0	GNDP	4
5	GNDP	0	GNDP	5
6	GNDP	0	GNDP	6

## AUDIO AMP ASSY

## SP TERMINAL R ASSY

AP3 (CN5003)		Voltage (V)	SP2 (CN9801)	
No.	Name		Name	No.
1	GND	0	GND	1
2	R+	5.3	R+	2
3	R-	5.2	R-	3
SP TERMINAL L ASSY				
SP1 (CN9702)				
4	STBGND	0	STBGND	1
5	TEMP3	0-3.3	TEMP3	2
6	V+3VDD	3.3	V+3VDD	3
7	GND	0	GND	4
8	L+	5.3	L+	5
9	L-	5.2	L-	6

## KEY CONTROL ASSY

## SIDE KEY ASSY

KY2 (CN9002)		Voltage (V)	KY3 (CN4801)	
No.	Name		Name	No.
1	D7	0/3.3	D7	1
2	D6	0/3.3	D6	2
3	D5	0/3.3	D5	3
4	G0	0/3.3	G0	4
5	G1	0/3.3	G1	5
6	G2	0/3.3	G2	6
7	G3	0/3.3	G3	7
8	GND	0	GND	8

## COMM SLOT I/F ASSY

## VIDEO SLOT I/F ASSY

CS3 (CN8903)		Voltage (V)	VS2 (CN8952)	
No.	Name		Name	No.
1	GND	0	GND	1
2	FIRST_RXD	3.3	FIRST_RXD	2
3	GET_UART	3.3	GET_UART	3
4	INT_EXT	3.3	INT_EXT	4
5	RXD_GU	0	RXD_GU	5
6	TXD_GU	0	TXD_GU	6
7	GPC5	0	GPC5	7
8	GPC4	0	GPC4	8
9	GPC3	0	GPC3	9
10	GPC2	0	GPC2	10
11	GPC1	0	GPC1	11

## VIDEO SLOT I/F ASSY

## VIDEO SLOT 1 and 2 ASSY

VS5 (CN8954)		Voltage (V)	CN7902	
No.	Name		Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	G_SLOT	0	G_SLOT	3
4	GND	0	GND	4
5	B_SLOT	0	B_SLOT	5
6	GND	0	GND	6
7	R_SLOT	0	R_SLOT	7
8	GND	0	GND	8
9	HD_SLOT	0	HD_SLOT	9
10	GND	0	GND	10
11	VD_SLOT	0	VD_SLOT	11
12	GND	0	GND	12
13	AUDIO_L_SLOT	6	AUDIO_L_SLOT	13
14	GND	0	GND	14
15	AUDIO_R_SLOT	6	AUDIO_R_SLOT	15
16	GND	0	GND	16
17	SLOT_ST1	0	SLOT_ST1	17
18	S_DIN_SEL	0	S_DIN_SEL	18
19	FNC_1	0	FNC_1	19
20	FNC_0	5	FNC_0	20
21	V+3.3V	3.2	V+3.3V	21
22	V+3.3V	3.2	V+3.3V	22
23	VD_DET	0	VD_DET	23
24	GND	0	GND	24
25	HD_DET	0	HD_DET	25
26	GND	0	GND	26
27	VD	3.2	VD	27
28	GND	0	GND	28
29	HD	3	HD	29
30	GND	0	GND	30
31	GND	0	GND	31
32	RB0_IC1	0/3.3	RB0_IC1	32
33	RB1_IC1	0/3.3	RB1_IC1	33
34	RB2_IC1	0/3.3	RB2_IC1	34
35	RB3_IC1	0/3.3	RB3_IC1	35
36	RB4_IC1	0/3.3	RB4_IC1	36
37	RB5_IC1	0/3.3	RB5_IC1	37
38	RB6_IC1	0/3.3	RB6_IC1	38
39	RB7_IC1	0/3.3	RB7_IC1	39
40	GND	0	GND	40
41	GND	0	GND	41
42	GB0_IC1	0/3.3	GB0_IC1	42

## VIDEO SLOT I/F ASSY

## VIDEO SLOT 1 and 2 ASSY

VS5 (CN8954)		Voltage (V)	CN7902	
No.	Name		Name	No.
43	GB1_IC1	0/3.3	GB1_IC1	43
44	GB2_IC1	0/3.3	GB2_IC1	44
45	GB3_IC1	0/3.3	GB3_IC1	45
46	GB4_IC1	0/3.3	GB4_IC1	46
47	GB5_IC1	0/3.3	GB5_IC1	47
48	GB6_IC1	0/3.3	GB6_IC1	48
49	GB7_IC1	0/3.3	GB7_IC1	49
50		À		50
51		À		51
52	GND	0	GND	52
53	GND	0	GND	53
54	BB0_IC1	0/3.3	BB0_IC1	54
55	BB1_IC1	0/3.3	BB1_IC1	55
56	BB2_IC1	0/3.3	BB2_IC1	56
57	BB3_IC1	0/3.3	BB3_IC1	57
58	BB4_IC1	0/3.3	BB4_IC1	58
59	BB5_IC1	0/3.3	BB5_IC1	59
60	BB6_IC1	0/3.3	BB6_IC1	60
61	BB7_IC1	0/3.3	BB7_IC1	61
62	GND	0	GND	62
63				63
64				64
65	GND	0	GND	65
66	GND	0	GND	66
67	KEY	3.3	KEY	67
68	NC	0	NC	68
69	TXD_CARD	0	TXD_CARD	69
70	RXD_CARD	0	RXD_CARD	70
71	INT_EXT	3.3	INT_EXT	71
72	NC	0	NC	72
73	EMGREQ1_V	0	EMGREQ1_V	73
74	EMGREQ2_V	0	EMGREQ2_V	74
75	IC1V_OE	3.3	IC1V_OE	75
76	RESETX1	3.3	RESETX1	76
77	NC	0	NC	77
78	SD_SEL	3.3	SD_SEL	78
79	FNC2	0	FNC2	79
80	FNC3	0	FNC3	80
81	SOUND1	3.3	SOUND1	81
82	GND	0	GND	82
83	DSUBR	3.8	DSUBR	83
84	GND	0	GND	84
85	DSUBG	0	DSUBG	85
86	GND	0	GND	86
87	DSUBB	3.8	DSUBB	87
88	GND	0	GND	88
89	IN5_HD	0	IN5_HD	89
90	SOUSA_X	3.3	SOUSA_X	90
91	GPC1	0	GPC1	91
92	GPC2	0	GPC2	92
93	GPC5	0	GPC5	93
94	VYOB11	0	VYOB11	94
95	VYOB12	0	VYOB12	95
96	DSUBSW_DET	0	DSUBSW_DET	96
101	GND	0	GND	101
102	GND	0	GND	102
103	GND	0	GND	103

## VIDEO SLOT I/F ASSY

## VIDEO SLOT 1 and 2 ASSY

No.	VS5 (CN8954)		Voltage (V)	CN7902	
	Name			Name	No.
104	SCL_VS		3.1	SCL_VS	104
105	GND		0	GND	105
106	SDA_VS		3.1	SDA_VS	106
107	GND		0	GND	107
108	GND		0	GND	108
109	GND		0	GND	109
110	V+12V		12.9	V+12V	110
111	GND		0	GND	111
112	NC		0	NC	112
113	GND		0	GND	113
114	V+3.3STB		3.3	V+3.3STB	114
115	V+13.5		13.6	V+13.5	115
116	V+13.5		13.6	V+13.5	116
117	IN4_DET		0	IN4_DET	117
118	IN3_DET		0	IN3_DET	118
119	SLOT_ST2		3	SLOT_ST2	119
120	IR		5.1	IR	120
121	NC		0	NC	121
122	NC		0	NC	122
123	GND		0	GND	123
124	GND		0	GND	124
125	3G4G		3.3	3G4G	125
126	IN5_DET		0	IN5_DET	126
127	GND		0	GND	127
128	DE		2.5	DE	128
129	GND		0	GND	129
130	CLK		1.5	CLK	130
131	GND		0	GND	131
132	BA7_IC1		0/3.3	BA7_IC1	132
133	BA6_IC1		0/3.3	BA6_IC1	133
134	BA5_IC1		0/3.3	BA5_IC1	134
135	BA4_IC1		0/3.3	BA4_IC1	135
136	BA3_IC1		0/3.3	BA3_IC1	136
137	BA2_IC1		0/3.3	BA2_IC1	137
138	BA1_IC1		0/3.3	BA1_IC1	138
139	BA0_IC1		0/3.3	BA0_IC1	139
140	GND		0	GND	140
141	GND		0	GND	141
142	GA7_IC1		0/3.3	GA7_IC1	142
143	GA6_IC1		0/3.3	GA6_IC1	143
144	GA5_IC1		0/3.3	GA5_IC1	144
145	GA4_IC1		0/3.3	GA4_IC1	145
146	GA3_IC1		0/3.3	GA3_IC1	146
147	GA2_IC1		0/3.3	GA2_IC1	147
148	GA1_IC1		0/3.3	GA1_IC1	148
149	GA0_IC1		0/3.3	GA0_IC1	149
150			Ã@		150
151			Ã@		151
152	GND		0	GND	152
153	GND		0	GND	153
154	RA7_IC1		0/3.3	RA7_IC1	154
155	RA6_IC1		0/3.3	RA6_IC1	155
156	RA5_IC1		0/3.3	RA5_IC1	156
157	RA4_IC1		0/3.3	RA4_IC1	157
158	RA3_IC1		0/3.3	RA3_IC1	158
159	RA2_IC1		0/3.3	RA2_IC1	159
160	RA1_IC1		0/3.3	RA1_IC1	160

## VIDEO SLOT I/F ASSY

## VIDEO SLOT 1 and 2 ASSY

No.	VS5 (CN8954)		Voltage (V)	CN7902	
	Name			Name	No.
161	RA0_IC1		0/3.3	RA0_IC1	161
162	GND		0	GND	162
163					163
164					164
165	GND		0	GND	165
166	GND		0	GND	166
167	VSEPSCL		3.3	VSEPSCL	167
168	VSEPSDA		3.3	VSEPSDA	168
169	NC		0	NC	169
170	GET_UART		3.3	GET_UART	170
171	FIRST_RXD		3.3	FIRST_RXD	171
172	NC		0	NC	172
173	EMGREQ1_S		0	EMGREQ1_S	173
174	EMGREQ2_S		0	EMGREQ2_S	174
175	IC1S_OE		0	IC1S_OE	175
176	NC		0	NC	176
177	NC		0	NC	177
178	NC		0	NC	178
179	SLOT_ST3		0.4	SLOT_ST3	179
180	M_CHOICE		0	M_CHOICE	180
181	SOUND2		0	SOUND2	181
182	GND		0	GND	182
183	GND		0	GND	183
184	DSUBH		4.5	DSUBH	184
185	GND		0	GND	185
186	DSUBV		4.95	DSUBV	186
187	GND		0	GND	187
188	GND		0	GND	188
189	IN5_VD		3.3	IN5_VD	189
190	HYOUJI_X		0	HYOUJI_X	190
191	GPC3		0	GPC3	191
192	GPC4		0	GPC4	192
193	NC		0	NC	193
194	VYOB14		0	VYOB14	194
195	VYOB15		0	VYOB15	195
196	VYOB16		0	VYOB16	196