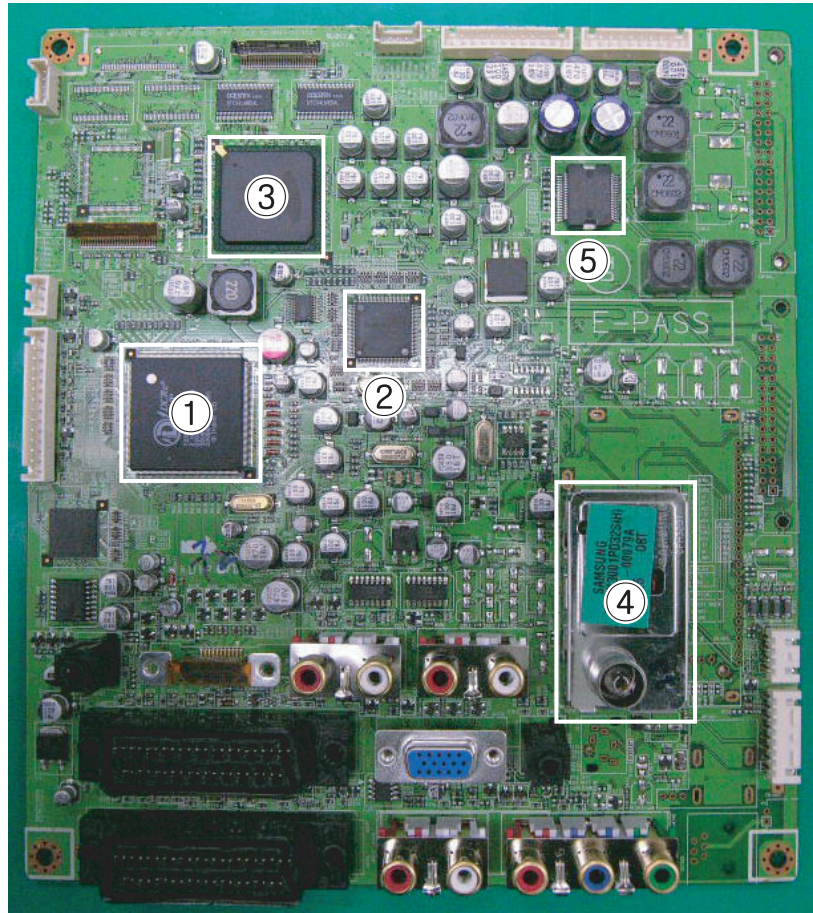
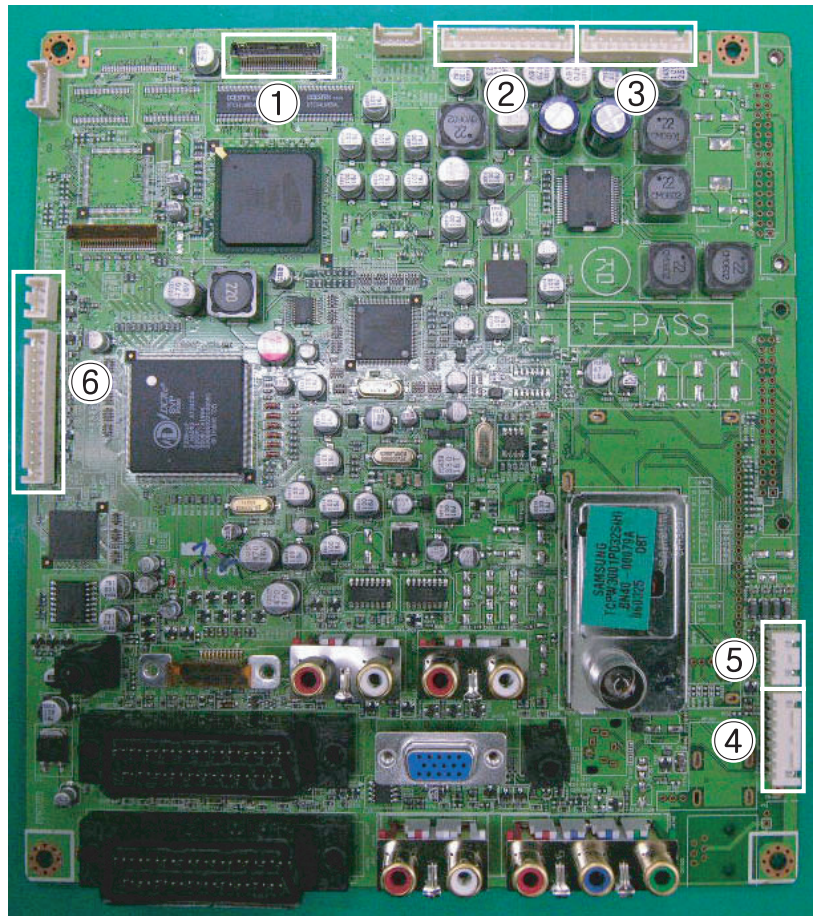


## 9. PCB Diagram

### 9-1 Main Board



No	Name	Function	Description
①	SVP-PX	Scaler IC Controller	SVPTMPX contains dual-purposed triple 10-bit high-precision and high speed video ADCs for both PC and video inputs, the high speed HDMI could support all HDMI inputs up to 135MHz with HDCP format, the highperformance multi-format 3D digital comb video decoder that supports NTSC, PAL, and SECAM*, a HDTV sync separator, motion adaptive de-interlacing engine, and the video format conversion engine, supporting multi-window display in many different output modes.
②	M30840SGP	IC MICOM	With a 16-Mbyte address space, this microcomputer combines advanced instruction manipulation capabilities to process complex instructions by less bytes and execute instructions at higher speed.
③	FBE	IC DNle	Image enhancement IC
④	TCPW3001PD32S(H)	TUNER	Tuner CH Tuning
⑤	STA323W	IC AUDIO-AMP	Audio power amplifiers



① CN2013(Logic B'd) ↔ CN902(Main Board)					
Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	GND	12	TXOUT2+	23	TXOUT0B-
2	GND	13	GND	24	TXOUT0B+
3	TXOUT-	14	GND	25	
4	TXOUT+	15	TXOUTCLK-	26	GND
5	GND	16	TXCLKOUT+	27	SCL_G
6	GND	17		28	GND
7	TXOUT-	18		29	SDA_G
8	TXOUT+	19	TXOUT3-	30	GND
9		20	TXOUT3+	31	
10		21		32	GND
11	TXOUT2-	22		33	GND

② CN804-1(Main SMPS) ↔ CN102(Main Board)	
Pin No.	Signal
1	5.3V
2	RTN
3	N/C
4	N/C
5	RTN
6	RTN
7	12V
8	PS_ON
9	RTN
10	STBY
11	FAN_ON
12	FAN_D

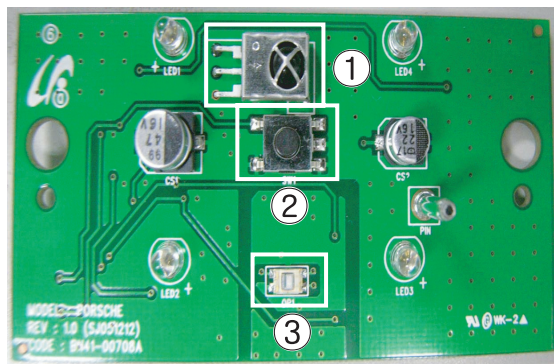
③ CN803(Main SMPS) ↔ CN101(Main Board)	
Pin No.	Signal
1	6.5V
2	RTN
3	12V
4	RTN
5	18Vamp
6	18Vamp
7	RTN_amp
8	RTN_amp
9	Vt
10	RTN

④ CN740(Main Board) ↔ CN001(Power Button)		⑤ CN501(Main Board) ↔ Speaker Out		⑥ CN741(Main Board) ↔ CN1(Function Board)	
Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	GND	1	SPK_R+	1	KEY_INPUT1
2	LED	2	SPK_R-	2	KEY_INPUT2
3	ST5V	3	SPK_L+	3	GND
4	GND	4	SPK_L-		
5	KEY_INPUT2				
6					
7					
8	IR_7414				

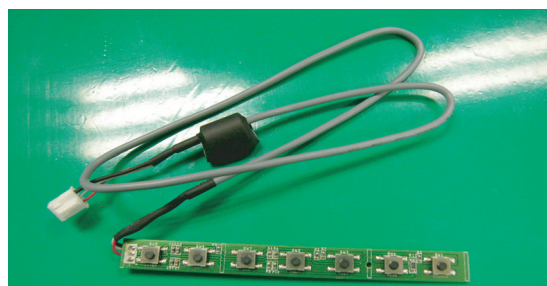


## 9-2 Power & IR Board

No	Loc. No.	Description
①	RM1	Remote Control Sensor
②	SW1	Power Button
③	OP1	The Illumination sensor that senses the quantity of light. It senses the illumination and automatically adjusts the screen brightness according to the surrounding brightness when the Power Saving Mode of the User menu is set to Auto.



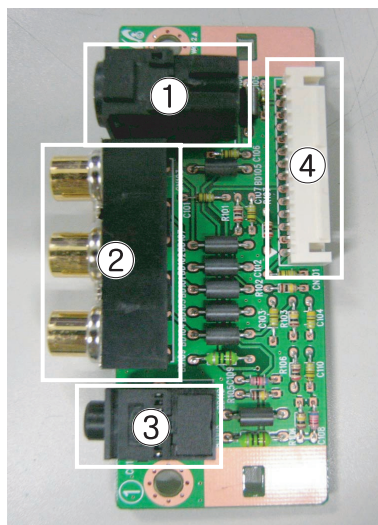
## 9-3 Function Board



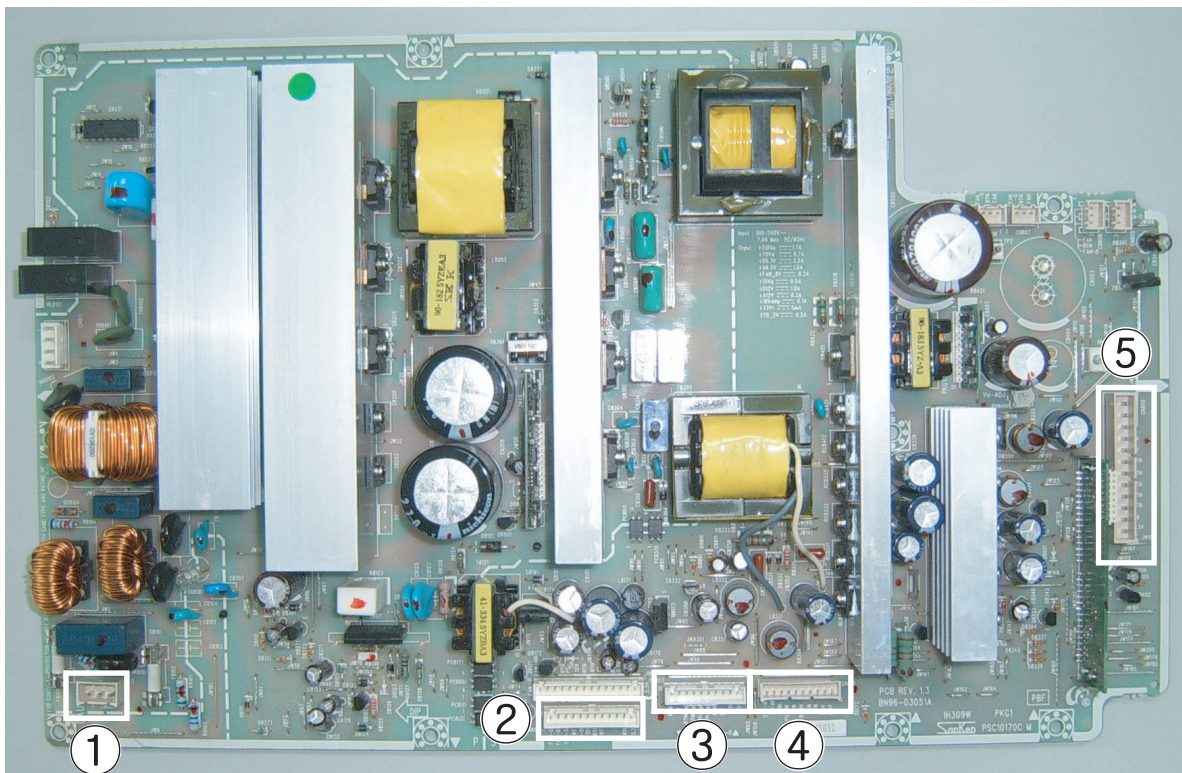
Function Key. Located on the side of the unit.

## 9-4 Side AV Board

No	Loc. No.	Description
①	CN102	S-VIDEO2 Input Jack
②	CN103	AV2 Input Jack
③	CN104	Earphone Jack
④	CN105	Side AV Connector



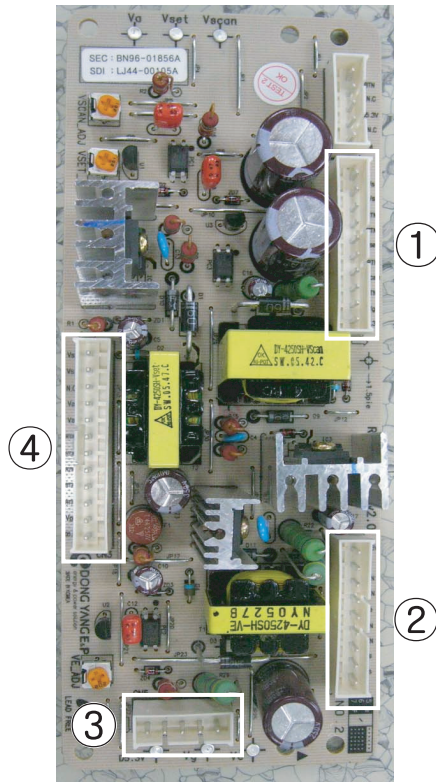
## 9-5 Main SMPS Board



① CN800 : AC IN (220V)

② CN804-1(Main SMPS) ↔ CN102(Main B'D)		③ CN803(Main SMPS) ↔ CN101(Main B'D)		④ CN810(Main SMPS) ↔ CN2005(Logic B'D)		⑤ CN809(Main SMPS) ↔ CN3(DC-DC SMPS)	
Pin No.	Signal	Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	D5.3V	1	6.5V	1	D5.3V	1	D5.3V
2	RTN	2	RTN	2	D5.3V	2	Vg
3	VCS	3	A12V	3	RTN	3	RTN
4	VCA	4	RTN	4	RTN	4	RTN
5	RTN	5	18V-AMP	5	D5.3V	5	RTN
6	RTN	6	18V-AMP	6	RTN	6	RTN
7	D12V	7	RTN-AMP	7	PS_ON	7	RTN
8	PS_ON	8	RTN-AMP	8	N.C	8	Va
9	RTN	9	VT	9	VS_ON	9	Va
10	STB-5V	10	RTN	10	STB-5V	10	N.C
11	FAN_ON					11	Vs
12	FAN_D					12	Vs

## 9-6 DC-DC SMPS Board

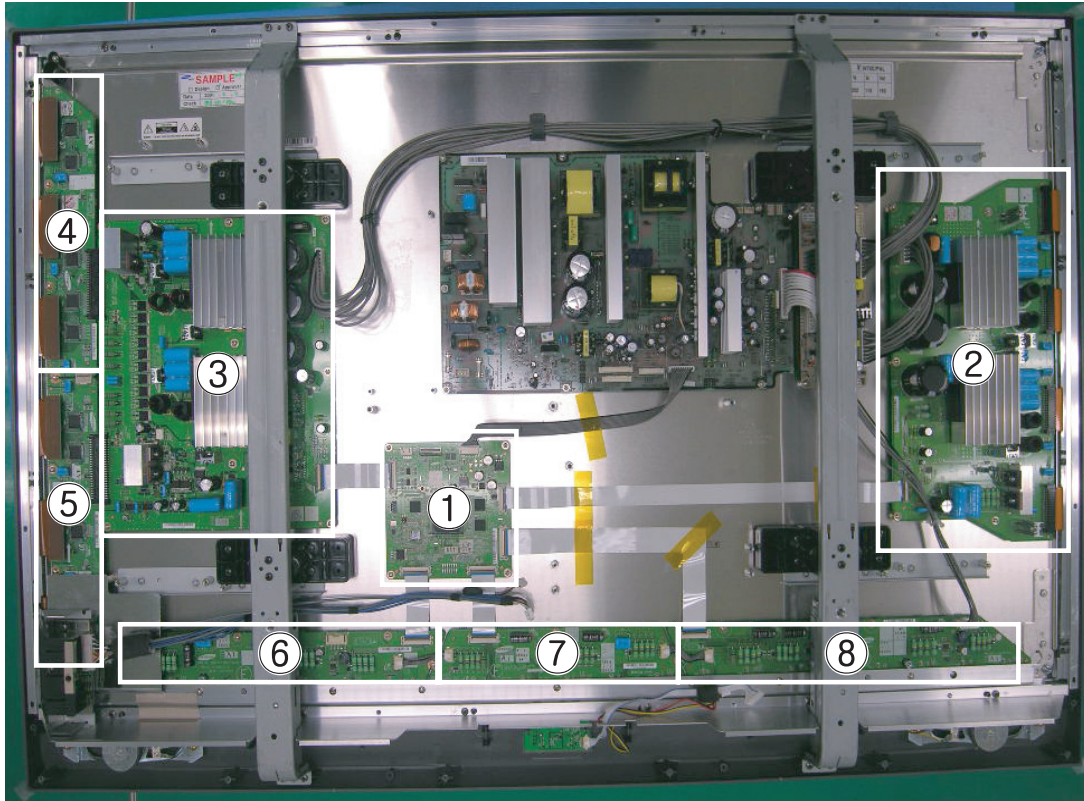


① CN2(DC-DC SMPS) ↔ CN5010(Y B'D)		② CN4(DC-DC SMPS) ↔ CN4004(X B'D)		③ CN5(DC-DC SMPS) ↔ CN2710(F-Buffer)		④ CN3(DC-DC SMPS) ↔ CN809(Main SMPS)	
Pin No.	Signal	Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	Vs	1	Vs	1	RTN	1	D5.3V
2	Vs	2	Vs	2	N.C	2	Vg
3	RTN	3	RTN	3	D5.3V	3	RTN
4	RTN	4	RTN	4	N.C	4	RTN
5	Vset	5	Ve	5	Va	5	RTN
6	RTN	6	RTN			6	RTN
7	Vscan	7	RTN			7	RTN
8	RTN	8	Vg			8	Va
9	Vg	9	D5.3V			9	Va
10	D5.3V					10	N.C
						11	Vs
						12	Vs



## 9-7 PDP Module

※ The ASSY code can be changed, see "5 Chapter. Electrical Part List."



No	Assy	Code No.	Description
①	ASSY PDP MODULE P-LOGIC MAIN BOARD	BN96-03366A	Logic Main Board
②	ASSY PDP MODULE P-X MAIN BOARD	BN96-03359A	X Drive Board
③	ASSY PDP MODULE P-Y MAIN BOARD	BN96-03360A	Y Drive Board
④	ASSY PDP MODULE P-Y MAIN UPPER SCAN	BN96-03361A	Y Upper Scan Board
⑤	ASSY PDP MODULE P-Y MAIN LOWER SCAN	BN96-03362A	Y Lower Scan Board
⑥	ASSY PDP MODULE P-ADDRESS E BUFFER	BN96-03363A	Address E Buffer Board
⑦	ASSY PDP MODULE P-ADDRESS F BUFFER	BN96-03364A	Address F Buffer Board
⑧	ASSY PDP MODULE P-ADDRESS G BUFFER	BN96-03365A	Address G Buffer Board

# MEMO