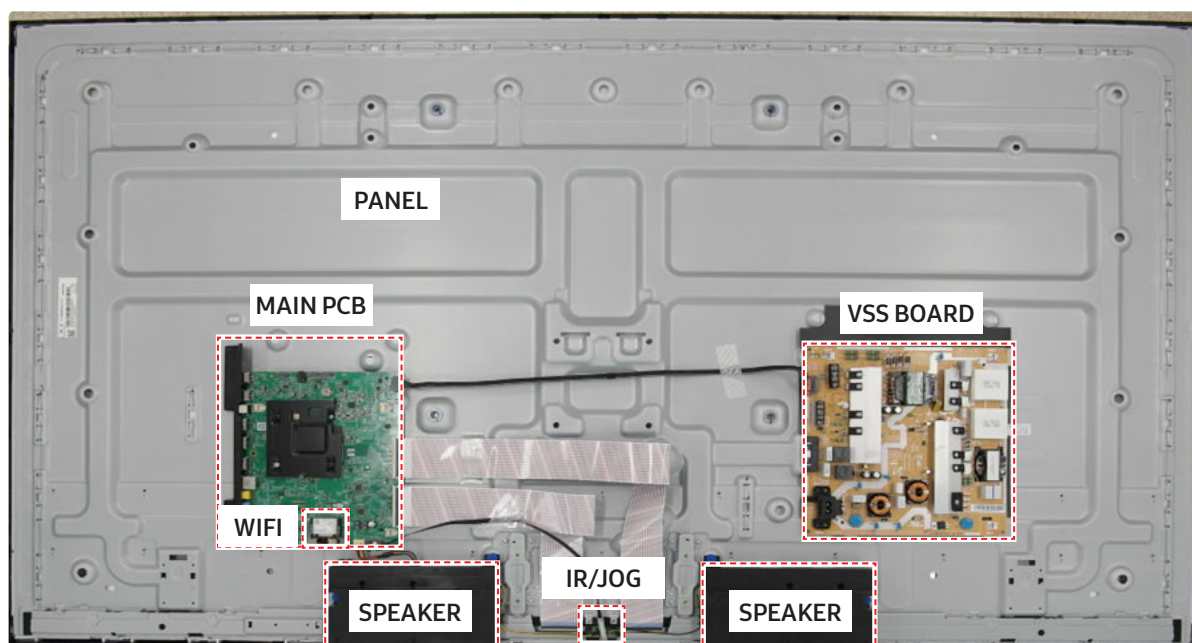
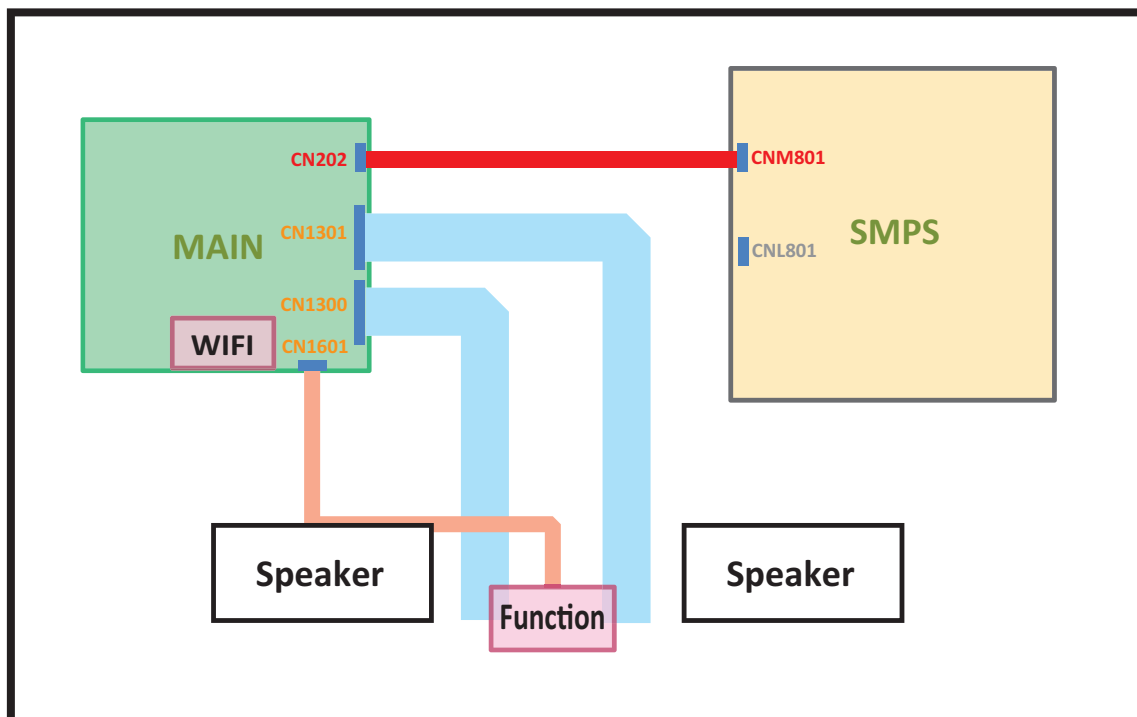


5. Wiring Diagram

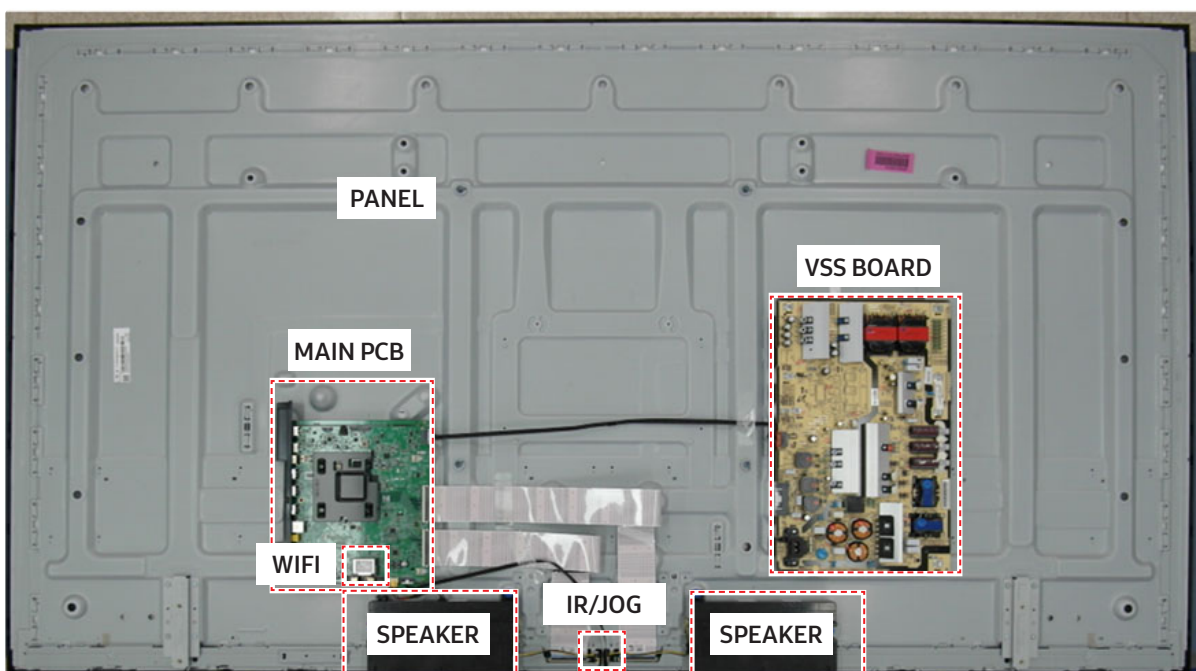
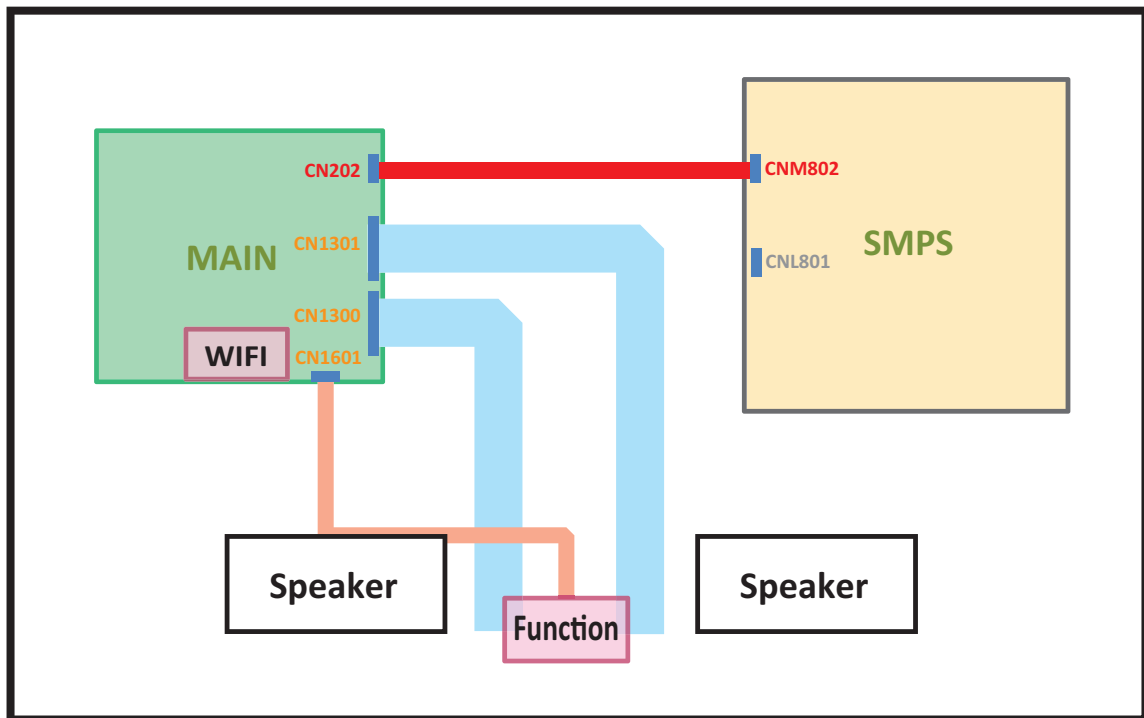
5-1. Wiring Diagram

- 40 / 43 / 50 / 55 / 58 / 65 inches

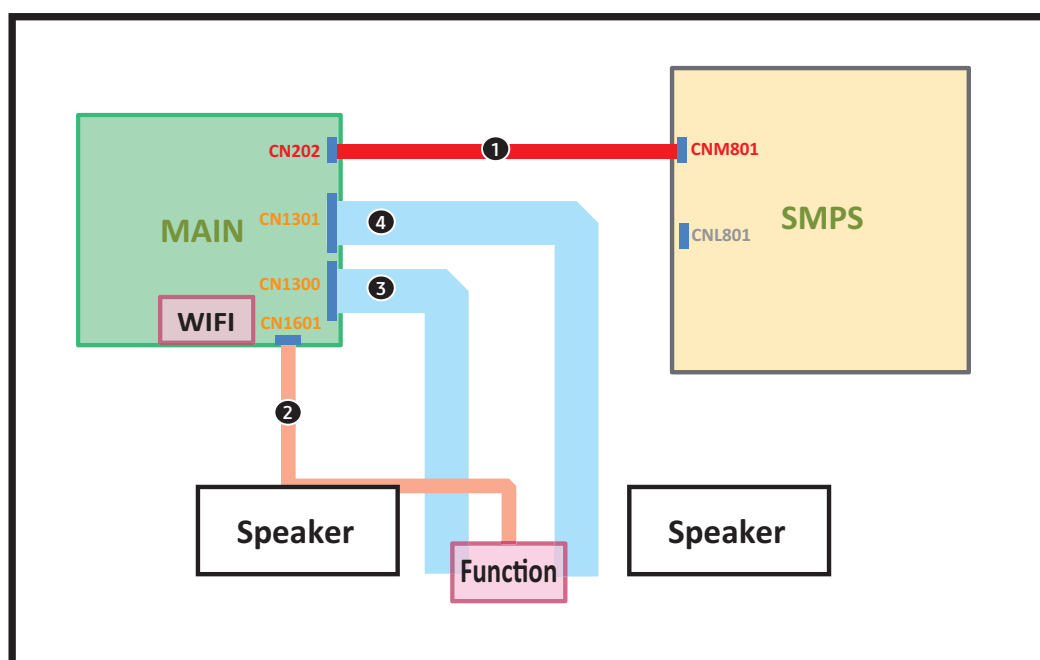


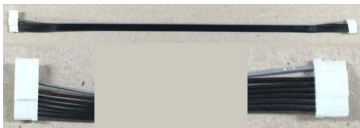
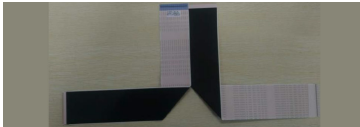
5. Wiring Diagram

- 75 inches

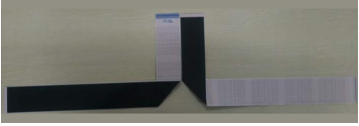


■ Cables



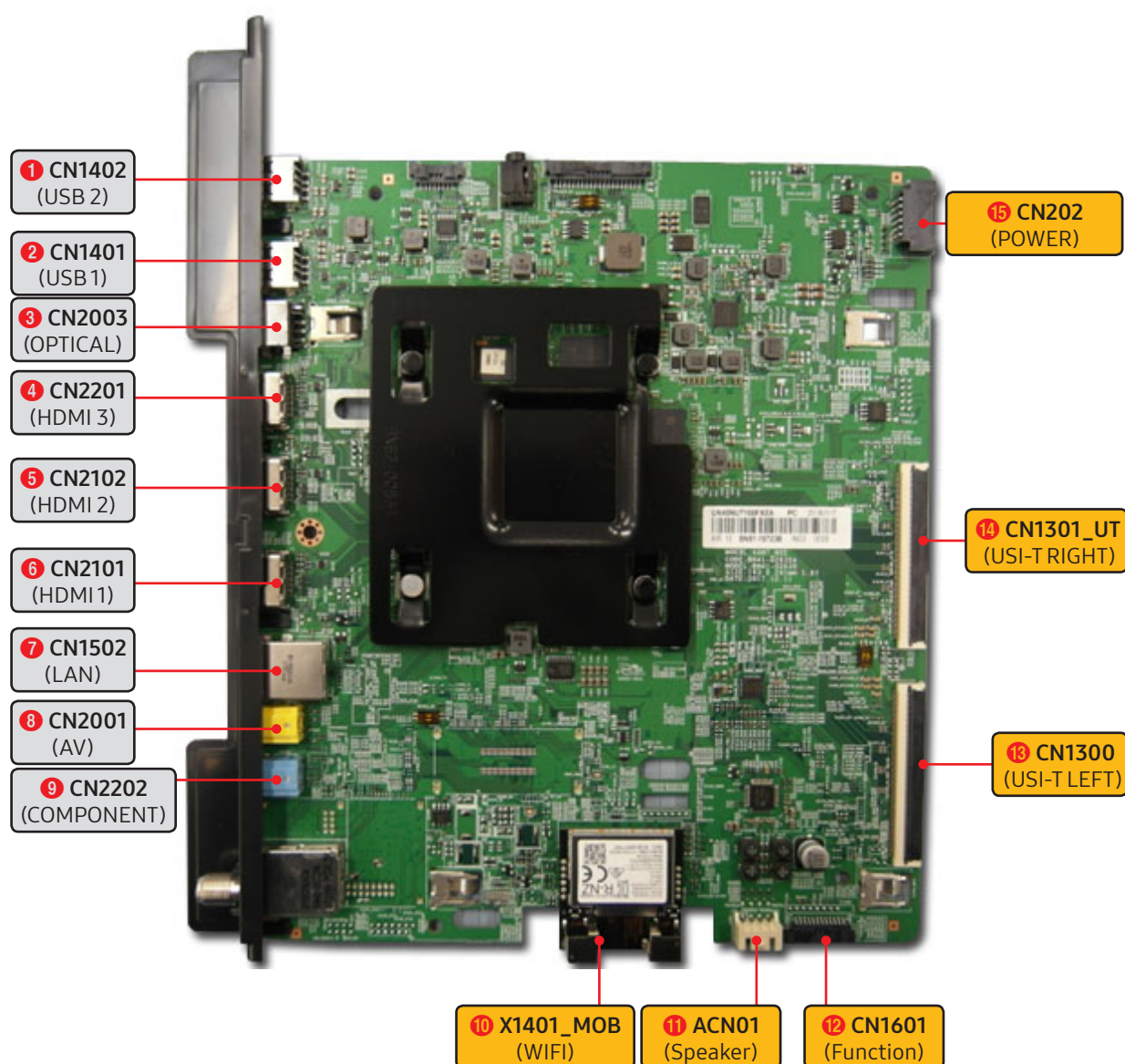
Part Name &		Connection	Part Spec	Code No.	
❶	LEAD CONNECTOR-POWER	SMPS - MAIN		40"	BN39-02217D
				43"	
				49"	
				50"	
				55"	
				58"	BN39-02217E
				65"	
❷	LEAD CONNECTOR-SUB ASSY	Main - FUNCTION		40"	BN39-02231D
				43"	
				49"	
				50"	
				55"	
				58"	BN39-02231C
				65"	
❸	FFC CABLE	Main - Source B		40"	BN96-39821E
				43"	BN96-39821F
				49"	
				50"	
				55"	BN96-39820H
				58"	
				65"	
				75"	
				75"	

5. Wiring Diagram

Part Name &		Connection	Part Spec	Code No.	
④	FFC CABLE	Main - Source B		40"	BN96-39820G
				43"	
				49"	BN96-39820F
				50"	
				55"	
				58"	BN96-39903C
				65"	
				75"	

5-2. Connector

5-2-1. Main Board



■ Main Board Pin Map

1 CN1402 (USB2)				3 CN2003 (OPTICAL)			
1	USB1_VCC_5V_PW	2	D-	1	SPDIF_OUT	2	B5V_PW
3	D+	4	GND	3	GND		
2 CN1401 (USB1)							
1	USB1_VCC_5V_PW	2	D-				
3	D+	4	GND				

5. Wiring Diagram

4 CN2201 (HDMI IN3)			
1	HDMI1_RX2+_HDMI	2	GND
3	HDMI1_RX2-_HDMI	4	HDMI1_RX1+_HDMI
5	GND	6	HDMI1_RX1-_HDMI
7	HDMI1_RX0+_HDMI	8	GND
9	HDMI1_RX0-_HDMI	10	HDMI1_RX_CLK+_IN_HDMI
11	GND	12	HDMI1_RX_CLK-_IN_HDMI
13	CEC	14	GND
15	HDMI1_SCL_DDC	16	HDMI1_SDA_DDC
17	HDMI1_INS_DET	18	HDMI1_5V_PW
19	HDMI1_HPD		
5 CN2102 (HDMI2)			
1	HDMI2_RX2+_HDMI	2	GND
3	HDMI2_RX2-_HDMI	4	HDMI2_RX1+_HDMI
5	GND	6	HDMI2_RX1-_HDMI
7	HDMI2_RX0+_HDMI	8	GND
9	HDMI2_RX0-_HDMI	10	HDMI2_RX_CLK+_IN_HDMI
11	GND	12	HDMI2_RX_CLK-_IN_HDMI
13	CEC	14	GND
15	HDMI2_SCL_DDC	16	HDMI2_SDA_DDC
17	HDMI2_INS_DET	18	HDMI2_5V_PW
19	HDMI2_HPD		
6 CN2101 (HDMI1)			
1	HDMI3_RX2+_HDMI	2	GND
3	HDMI3_RX2-_HDMI	4	HDMI3_RX1+_HDMI
5	GND	6	HDMI3_RX1-_HDMI
7	HDMI3_RX0+_HDMI	8	GND
9	HDMI3_RX0-_HDMI	10	HDMI3_RX_CLK+_IN_HDMI
11	GND	12	HDMI3_RX_CLK-_IN_HDMI
13	CEC	14	GND
15	HDMI3_SCL_DDC	16	HDMI3_SDA_DDC
17	HDMI3_INS_DET	18	HDMI3_5V_PW
19	HDMI3_HPD		
7 CN1502 (LAN)			
1	EPHY_TXP_LAN	2	GND
3	EPHY_TXN_LAN	4	EPHY_RXP_LAN
5	GND	6	EPHY_RXN_LAN
7	N.C.	8	GND
8 CN2001 (AV)			
1	GND	2	AV_IN_CVBS/COMP_Y
3	COMP_AV_SR_IN	4	IDENT_AV/TEST_CVBS_Y
5	TEST_SR	6	TEST_SL
7	COMP_AV_SL_IN		
9 CN2202 (COMPONENT)			
1	GND	2	COMP_PB
3	COMP_PR	4	TEST_PB/IDENT_COMP
5	TEST_PR	6	GND
7	GND		
10 X1401_MOB (WIFI)			
1	Uart_Tx	2	GND
3	WAKE_UP	4	GND
5	nRESET	6	GND
7	USB_DP	8	USB_DM
9	GND	10	5V
11	USB_SUSPEND		
11 ACN01 (Speaker)			
1	MID_R+	2	MID_R-
3	MID_L+	4	MID_L-
12 CN1601 (Function)			
1	IR	2	GND
3	A3.3V	4	SENSOR_SCL_I2C
5	SENSOR_SDA_I2C	6	KEY_INPUT1
7	KEY_INPUT2	8	LED_STB_OUT
9	-	10	-
11	GND	12	-
15 CN202 (Power)			
1	GND	2	GND
3	A13V_PW	4	GND
5	A13V_PW	6	SW_POWER_OUT
7	A13V_PW	8	PWM_DIMMING_OUT1
9	A13V_PW	10	OVD_ONOOF_LD_SDA_I2C
11	SMPS_FET_FAIL_DETECT	12	ANA_DIMMING

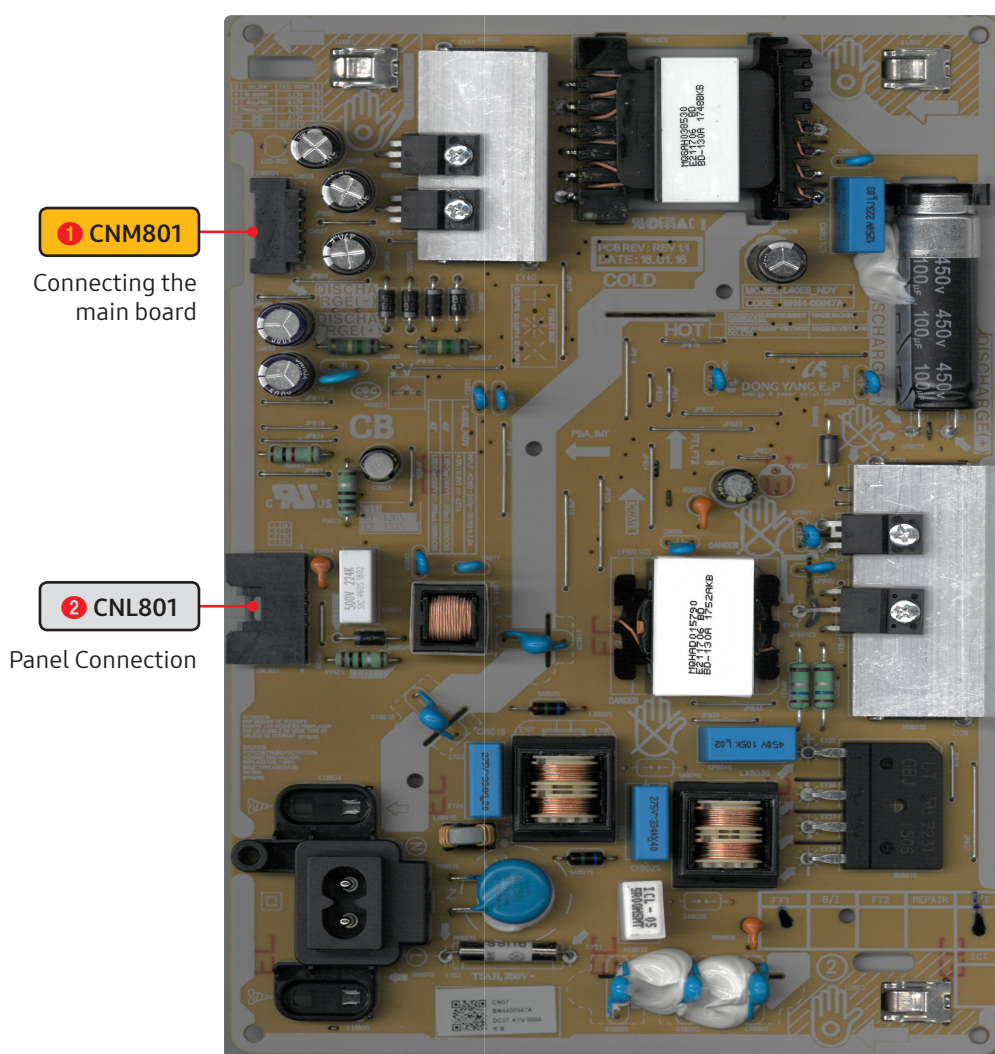
13 CN1300 (USI-T LEFT)							
1	FB_TRDY_1	2	GND	3	PANEL_3.3V_PW	4	PANEL_3.3V_PW
5	FB_VCOM1_2_CELL	6	VCOM1_CELL	7	VCOM2_CELL	8	VCOM3_CELL
9	VSS_OUT1_CELL	10	VOFF_-11V_PW	11	VGHD_30V_PW	12	CKV1_GOA
13	CKV2_GOA	14	CKV3_GOA	15	CKV4_GOA	16	CKVB1_GOA
17	CKVB2_GOA	18	CKVB3_GOA	19	CKVB4_GOA	20	STVP1_GOA
21	STVP1_GOA	22	ST_GOA	23	DEMURA_SSPFRM_SPI	24	DEMURA_SSPLCK_SPI
25	DEMURA_SSPHOLD_SPI	26	DEMURA_SSPWP_SPI	27	DEMURA_SSPRXD_SPI	28	DEMURA_SSPTXD_SPI
29	DEMURA_SSPFRM_SPI	30	SFC2	31	GND	32	TX_CH0_A+_VX1
33	TX_CH0_A-_VX1	34	GND	35	TX_CH0_B+_VX1	36	TX_CH0_B-_VX1
37	GND	38	TX_CH1_A+_VX1	39	TX_CH1_A-_VX1	40	GND
41	TX_CH1_B+_VX1	42	TX_CH1_B-_VX1	43	GND	44	TX_CH2_A+_USIT
45	TX_CH2_A-_USIT	46	GND	47	TX_CH2_B+_USIT	48	TX_CH2_B-_USIT
49	GND	50	TX_CH3_A+_USIT	51	TX_CH3_A-_USIT	52	GND
53	TX_CH3_B+_USIT	54	TX_CH3_B-_USIT	55	GND	56	TX_CH4_A+_USIT
57	TX_CH4_A-_USIT	58	GND	59	TX_CH4_B+_USIT	60	TX_CH4_B-_USIT
61	GND	62	TX_CH5_A+_USIT	63	TX_CH5_A-_USIT	64	GND
65	TX_CH5_B+_USIT	66	TX_CH5_B-_USIT	67	GND	68	TX_CH6_A+_USIT
69	TX_CH6_A-_USIT	70	GND	71	TX_CH6_B+_USIT	72	TX_CH6_B-_USIT
73	GND	74	TX_CH7_A+_USIT	75	TX_CH7_A-_USIT	76	GND
77	TX_CH7_B+_USIT	78	TX_CH7_B-_USIT	79	GND	80	SFC1
81	GND	82	PI_DSF_MON	83	PORTNUM	84	VCCA_1.9V_PW
85	VCCB_1.8V_PW	86	LL_CELL	87	LH_CELL	88	HAVDD_8.5V_PW
89	UL_CELL	90	UH_CELL	91	AVDD_17V_PW	92	AVDD_17V_PW
93	AVDD_17V_PW	94	AVDD_17V_PW	95	N.C.	96	FB_TRDY_2

5. Wiring Diagram

14 CN1301_UT (USI-T RIGHT)							
1	FB_TRDY_2	2	N.C.	3	AVDD_17V_PW	4	AVDD_17V_PW
5	AVDD_17V_PW	6	AVDD_17V_PW	7	UH_CELL	8	UL_CELL
9	HAVDD_8.5V_PW	10	LH_CELL	11	LL_CELL	12	VCCB_1.8V_PW
13	VCCA_1.9V_PW	14	PI_DSF_MON	15	PORTNUM	16	GND
17	N.C.	18	N.C.	19	N.C.	20	GND
21	SFC1	22	GND	23	TX_CH8_A+_USIT	24	TX_CH8_A-_USIT
25	GND	26	TX_CH8_B+_USIT	27	TX_CH8_B-_USIT	28	GND
29	TX_CH9_A+_USIT	30	TX_CH9_A-_USIT	31	GND	32	TX_CH9_B+_USIT
33	TX_CH9_B-_USIT	34	GND	35	TX_CH10_A+_USIT	36	TX_CH10_A-_USIT
37	GND	38	TX_CH10_B+_USIT	39	TX_CH10_B-_USIT	40	GND
41	TX_CH11_A+_USIT	42	TX_CH11_A-_USIT	43	GND	44	TX_CH11_B+_USIT
45	TX_CH11_B-_USIT	46	GND	47	TX_CH12_A+_USIT	48	TX_CH12_A-_USIT
49	GND	50	TX_CH12_B+_USIT	51	TX_CH12_B-_USIT	52	GND
53	TX_CH13_A+_USIT	54	TX_CH13_A-_USIT	55	GND	56	TX_CH13_B+_USIT
57	TX_CH13_B-_USIT	58	GND	59	TX_CH14_A+_USIT	60	TX_CH14_A-_USIT
61	GND	62	TX_CH14_B+_USIT	63	TX_CH14_B-_USIT	64	GND
65	TX_CH15_A+_USIT	66	TX_CH15_A-_USIT	67	GND	68	TX_CH15_B+_USIT
69	TX_CH15_B-_USIT	70	GND	71	SFC2	72	GND
73	ST_GOA	74	LC1_VGP1_GOA	75	STVP1_GOA	76	CKVB4_GOA
77	CKVB3_GOA	78	CKVB2_GOA	79	CKVB1_GOA	80	CKV4_GOA
81	CKV3_GOA	82	CKV2_GOA	83	CKV1_GOA	84	N.C.
85	VOFF_-11V_PW	86	VSS_OUT2_CELL	87	N.C.	88	VCOM3_CELL
89	FB_VCOM3_CELL	90	VCOM2_CELL	91	VCOM1_CELL	92	BLINK_O
93	PANEL_3.3V_PW	94	PANEL_3.3V_PW	95	FB_TRDY_3	96	FB_TRDY_3

5-2-2. SMPS Board

- 40 / 43 inches



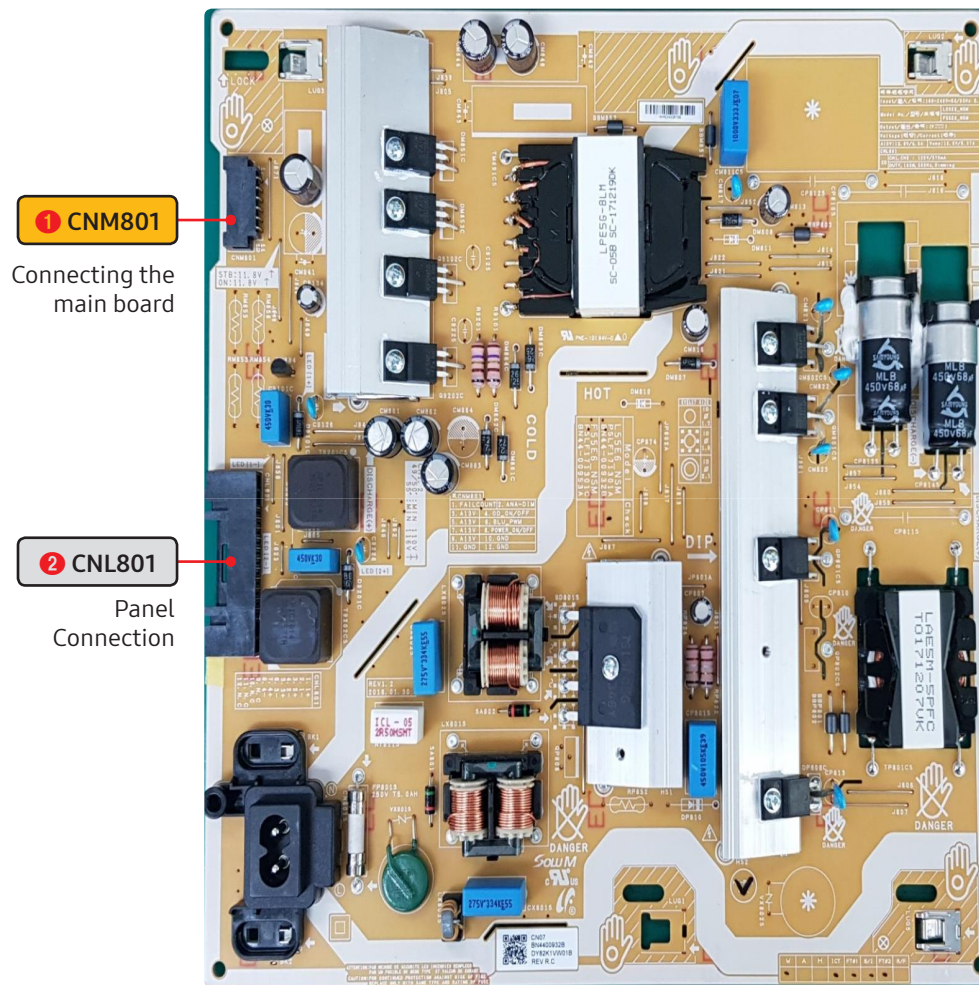
■ SMPS Board Pin Map

CNM801 (MAIN Connector)											
1	FAIL COUNT	2	ANA-DIM	3	A13V	4	OD ON/OFF	5	A13V	6	PWM_BLU
7	A13V	8	Power On/Off	9	A13V	10	GND	11	GND	12	GND

CNL801 (LED Connector)											
1	1+	2	1-	3	2+	4	2-	5	3+	6	3-
7	4+	8	4-	9	N.C	10	N.C	11	N.C	12	N.C

5. Wiring Diagram

- 49 / 50 / 55 / 58 inches

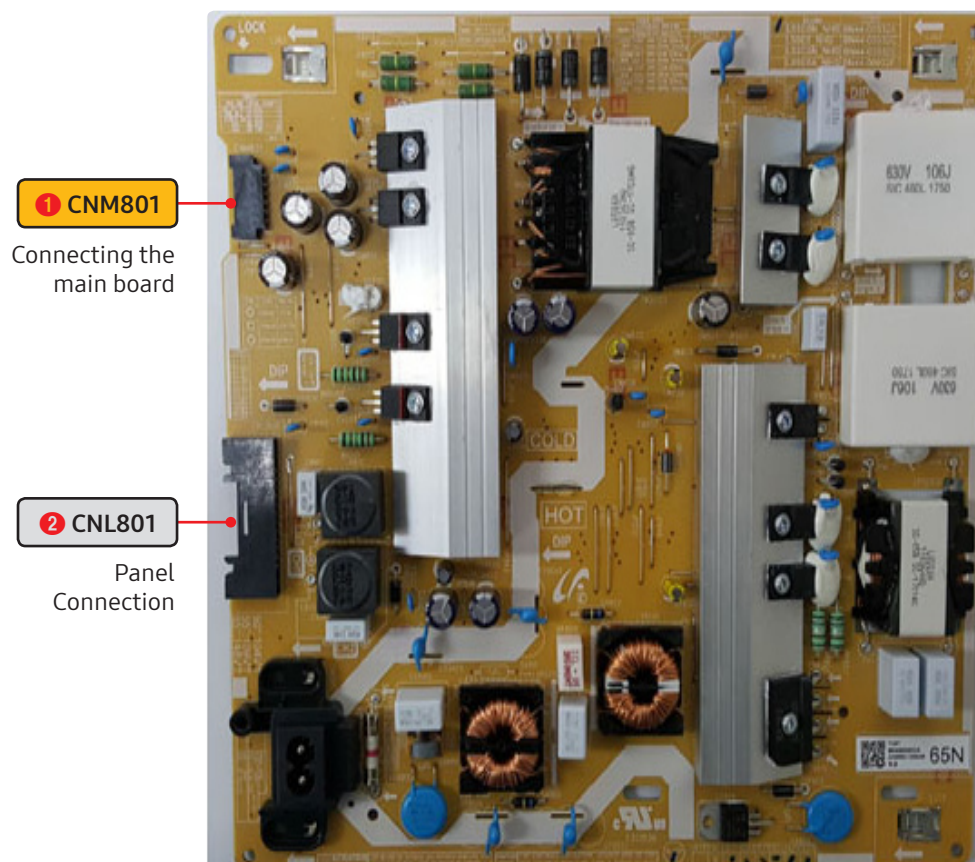


■ SMPS Board Pin Map

CNM801 (MAIN Connector)											
1	FAIL COUNT	2	ANA-DIM	3	A13V	4	OD ON/OFF	5	A13V	6	PWM_BLU
7	A13V	8	Power On/Off	9	A13V	10	GND	11	GND	12	GND

CNL801 (LED Connector)											
1	1+	2	1-	3	2+	4	2-	5	3+	6	3-
7	4+	8	4-	9	N.C	10	N.C	11	N.C	12	N.C

- 65 inches



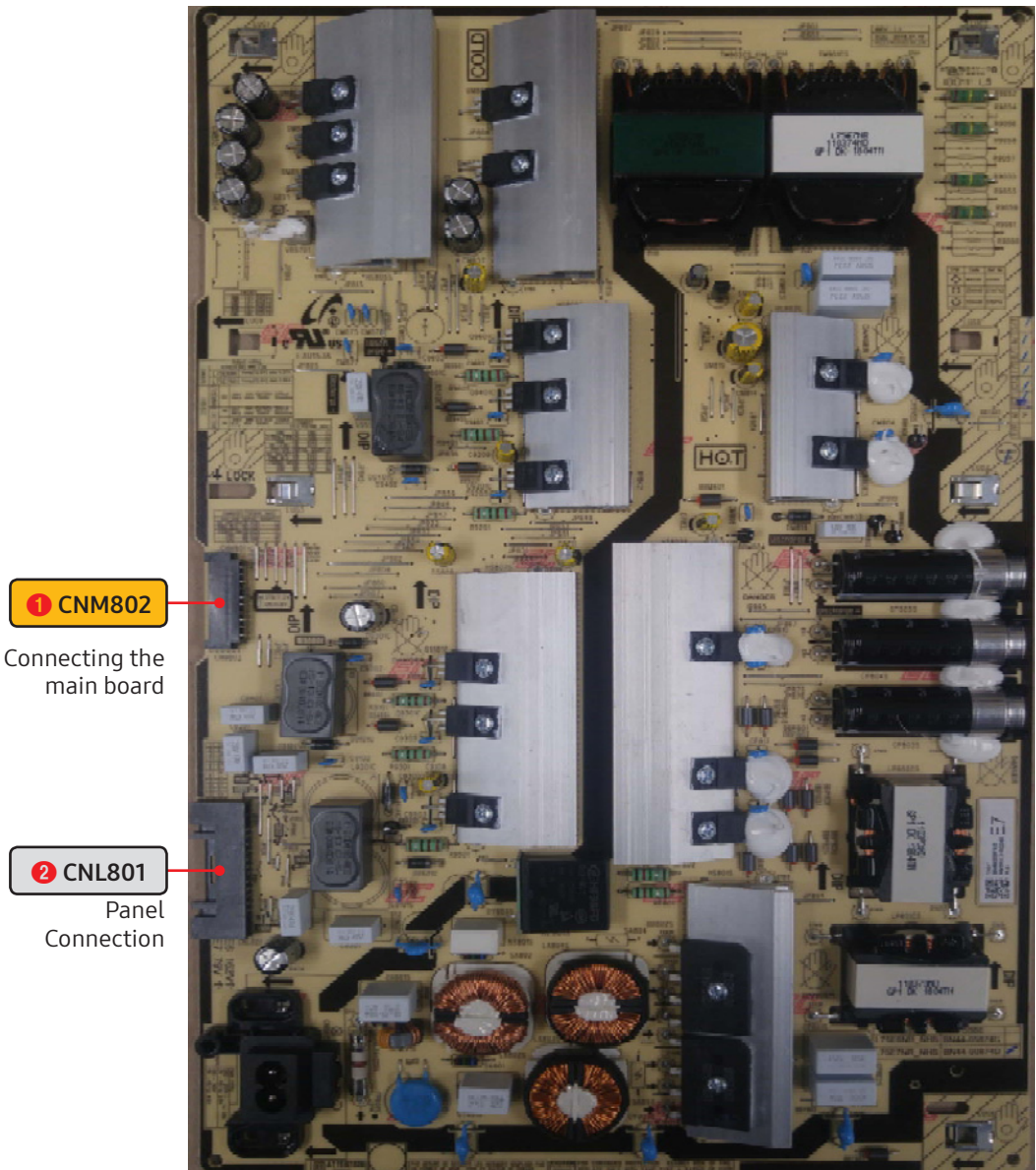
■ SMPS Board Pin Map

CNM801 (MAIN Connector)											
1	FAIL COUNT	2	ANA-DIM	3	A13V	4	OD ON/OFF	5	A13V	6	PWM_BLU
7	A13V	8	Power On/Off	9	A13V	10	GND	11	GND	12	GND

CNL801 (LED Connector)											
1	1+	2	1-	3	2+	4	2-	5	3+	6	3-
7	4+	8	4-	9	N.C	10	N.C	11	N.C	12	N.C

5. Wiring Diagram

- 75 inches



■ SMPS Board Pin Map

CNM802 (MAIN Connector)											
1	FAIL COUNT	2	ANA-DIM	3	A13V	4	OD ON/OFF	5	A13V	6	PWM_BLU
7	A13V	8	Power On/Off	9	A13V	10	GND	11	GND	12	GND

CNL801 (LED Connector)											
1	1+	2	1-	3	2+	4	2-	5	3+	6	3-
7	4+	8	4-	9	N.C	10	N.C	11	N.C	12	N.C