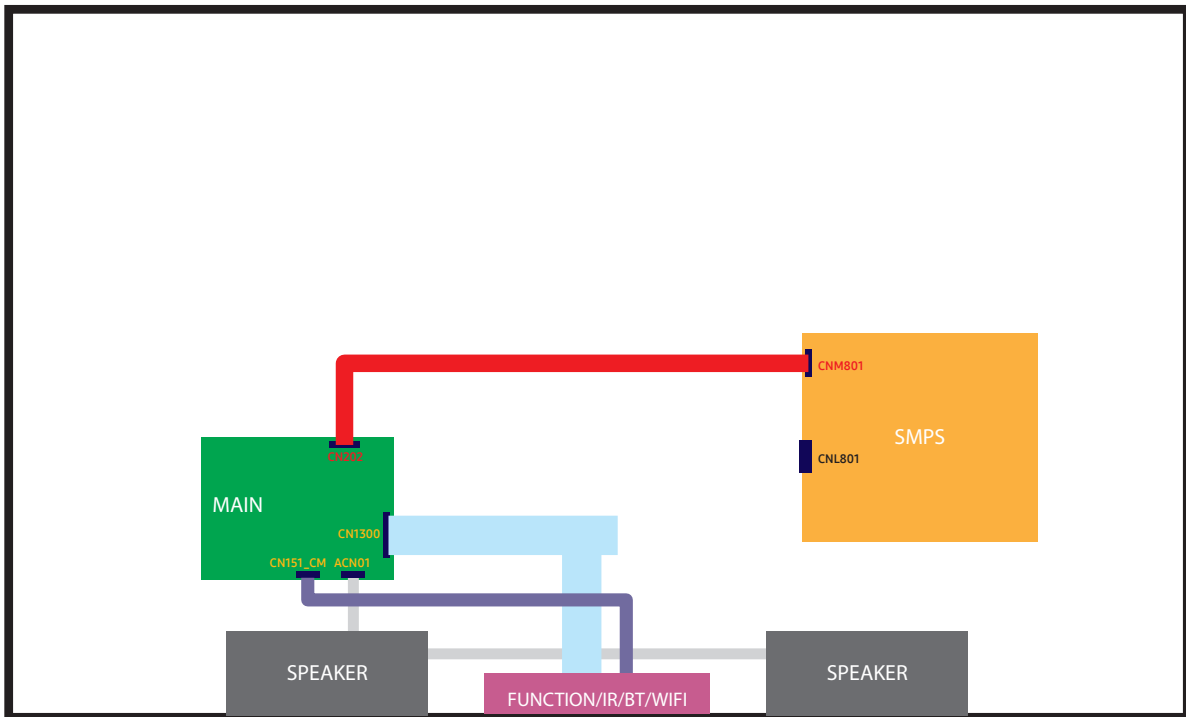


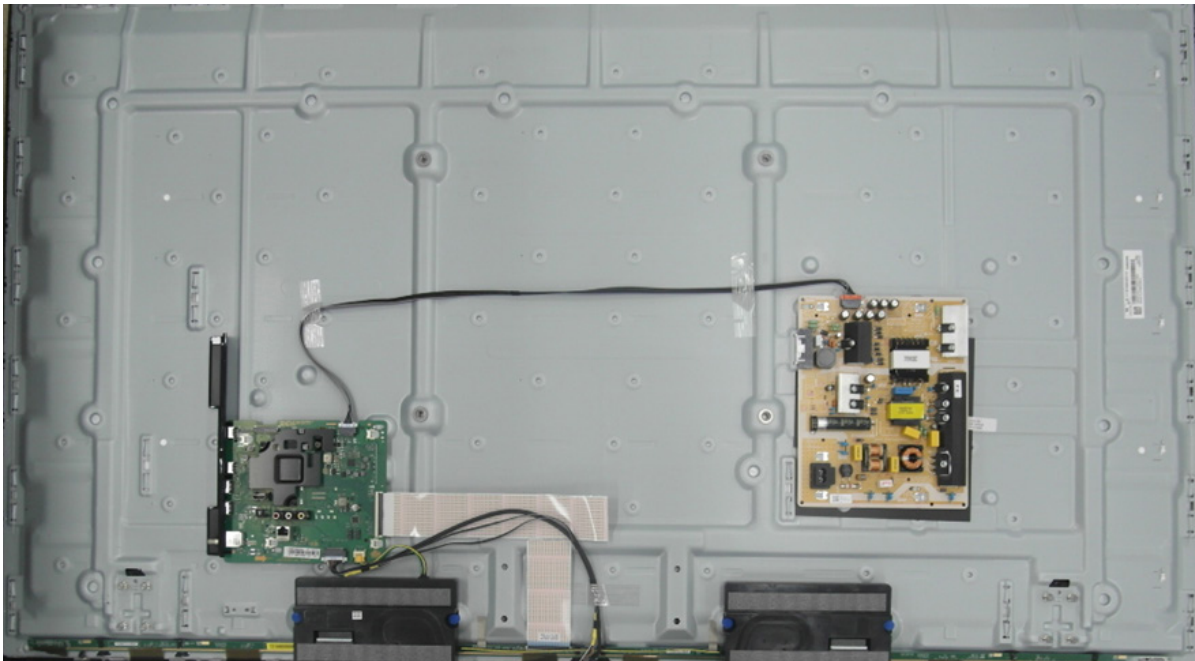
5. Wiring Diagram

5-1. Wiring Diagram

- 43/50/55/58/65/75/82/85 inches

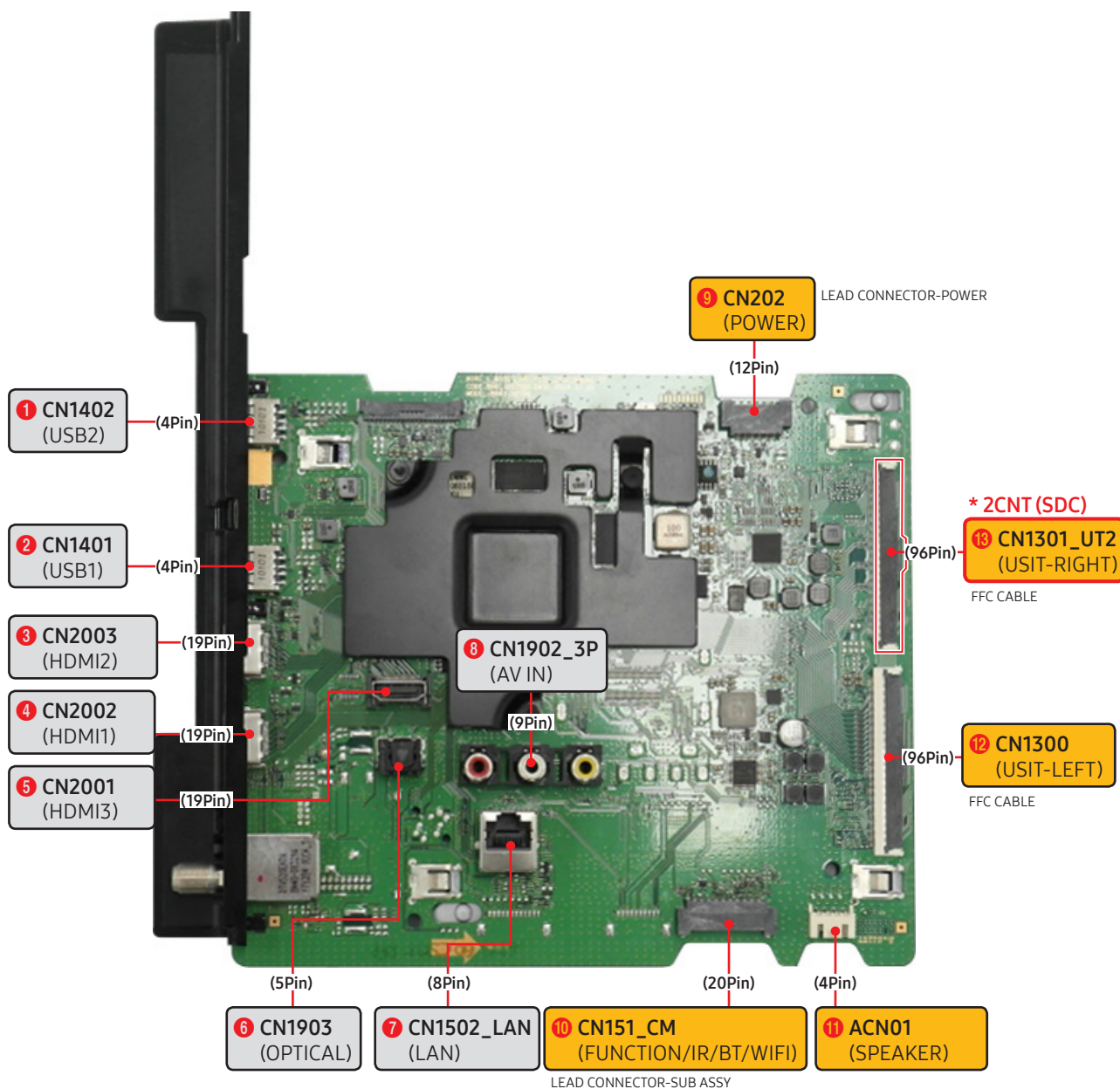


- 43/50/55/58/65/75/82/85 inches_inner



5-2. Connector

5-2-1. Main Board



■ Main Board Pin Map

1 CN1402 (USB2)				2 CN1401 (USB1)			
1	USB2_VCC_5V_PW	2	JACK2_D-_USB	1	USB1_VCC_5V_PW	2	JACK1_D-_USB
3	JACK2_D+_USB	4	DGND	3	JACK1_D+_USB	4	DGND

3 CN2003 (HDMI2)			
1	HDMI2_RX2+_HDMI	2	DGND
3	HDMI2_RX2-_HDMI	4	HDMI2_RX1+_HDMI
5	DGND	6	HDMI2_RX1-_HDMI
7	HDMI2_RX0+_HDMI	8	DGND
9	HDMI2_RX0-_HDMI	10	HDMI2_RX_CLK+_HDMI
11	DGND	12	HDMI2_RX_CLK-_HDMI
13	CEC	14	DGND
15	HDMI2_SCL_DDC	16	HDMI2_SDA_DDC
17	HDMI2_INS_DET	18	HDMI2_5V_PW
19	HDMI2_HPD		
4 CN2002 (HDMI1)			
1	HDMI1_RX2+_HDMI	2	DGND
3	HDMI1_RX2-_HDMI	4	HDMI1_RX1+_HDMI
5	DGND	6	HDMI1_RX1-_HDMI
7	HDMI1_RX0+_HDMI	8	DGND
9	HDMI1_RX0-_HDMI	10	HDMI1_RX_CLK+_HDMI
11	DGND	12	HDMI1_RX_CLK-_HDMI
13	CEC	14	DGND
15	HDMI1_SCL_DDC	16	HDMI1_SDA_DDC
17	HDMI1_INS_DET	18	HDMI1_5V_PW
19	HDMI1_HPD		
5 CN2001 (HDMI3)			
1	HDMI3_RX2+_HDMI	2	DGND
3	HDMI3_RX2-_HDMI	4	HDMI3_RX1+_HDMI
5	DGND	6	HDMI3_RX1-_HDMI
7	HDMI3_RX0+_HDMI	8	DGND
9	HDMI3_RX0-_HDMI	10	HDMI3_RX_CLK+_HDMI
11	DGND	12	HDMI3_RX_CLK-_HDMI
13	CEC	14	DGND
15	HDMI3_SCL_DDC	16	HDMI3_SDA_DDC
17	HDMI3_INS_DET	18	HDMI3_5V_PW
19	HDMI3_HPD		
6 CN1903 (OPTICAL)			
1	SPDIF_OUT	2	B5V_PW
3	DGND	4	IDENT_SPDIF
5	DGND		
7 CN1502_LAN			
1	EPHY_TXP_LAN	2	DGND
3	EPHY_TXN_LAN	4	EPHY_RXP_LAN
5	DGND	6	EPHY_RXN_LAN
7	N.C.	8	DGND
8 CN1902_3P (AV)			
1	DGND	2	IDENT_AV
3	COMP_Y	4	DGND
5	TEST_SL	6	COMP_AV_SL_IN
7	DGND	8	TEST_SR
9	COMP_AV_SR_IN		
9 CN202 (POWER)			
1	DGND	2	DGND
3	A13V_PW	4	DGND
5	A13V_PW	6	SW_POWER
7	A13V_PW	8	PWM_DIMMING_OUT1
9	A13V_PW	10	PWM_DIMMING_OUT2
11	DGND	12	ANA_DIMMING
10 CN151_CM (FUNCTION/IR/BT/WIFI)			
1	D-_USB_WIFI	2	WIFI_PHY_ON
3	D+_USB_WIFI	4	MODULE_5V_PW
5	DGND	6	WIFI_WOW
7	UART_TX	8	WIFI_NRESET
9	BT_WAKE	10	IR
11	KEY_INPUT1	12	MIC_CLK
13	KEY_INPUT2	14	LED_STB
15	SENSOR_SCL_I2C	16	DGND
17	SENSOR_SDA_I2C	18	IR_OUT_1
19	MIC_DATA	20	IR_OUT_2
11 ACN01 (SPEAKER)			
1	MID_R+	2	MID_R-
3	MID_L+	4	MID_L-

5. Wiring Diagram

12 CN1300 (USIT 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	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	LC1_VGP1_GOA	22	ST_GOA	23	DEMURA_SSPFRM_SPI	24	DEMURA_SSCLK_SPI
25	DEMURA_SSPHOLD_SPI	26	DEMURA_SSPWP_SPI	27	DEMURA_SSPRXD_SPI	28	DEMURA_SSPTXD_SPI
29	DEMURA_SSPFRM_SPI	30	SFC	31	DEMURA_SSPWP_SPI	32	DEMURA_SSPRXD_SPI
33	DEMURA_SSPTXD_SPI	34	DEMURA_SSPFRM_SPI	35	DEMURA_SSCLK_SPI	36	DEMURA_SSPHOLD_SPI
37	GND	38	VCCA_1.9V_PW	39	VCCB_1.8V_PW	40	GND
41	N.C.	42	PI_DSF_MON	43	GND	44	TX_CH0_A+_USIT1
45	TX_CH0_A-_USIT1	46	GND	47	TX_CH1_A+_USIT	48	TX_CH1_A-_USIT
49	GND	50	TX_CH2_A+_USIT	51	TX_CH2_A-_USIT	52	GND
53	TX_CH3_A+_USIT	54	TX_CH3_A-_USIT	55	GND	56	TX_CH4_A+_USIT
57	TX_CH4_A-_USIT	58	GND	59	TX_CH5_A+_USIT	60	TX_CH5_A-_USIT
61	GND	62	TX_CH6_A+_USIT	63	TX_CH6_A-_USIT	64	GND
65	TX_CH7_A+_USIT	66	TX_CH7_A-_USIT	67	GND	68	TX_CH8_A+_USIT
69	TX_CH8_A-_USIT	70	GND	71	TX_CH9_A+_USIT	72	TX_CH9_A-_USIT
73	GND	74	TX_CH10_A+_USIT	75	TX_CH10_A-_USIT	76	GND
77	TX_CH11_A+_USIT	78	TX_CH11_A-_USIT	79	GND	80	SFC
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

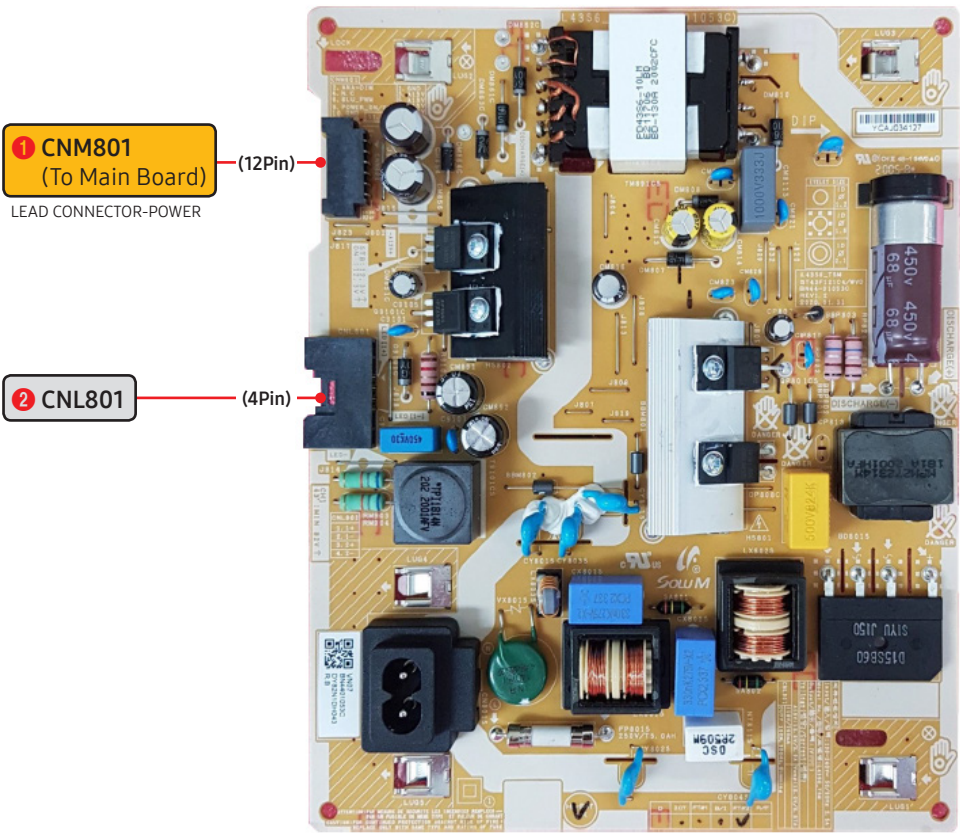
*2CNT (SDC)

13 CN1301_UT2 (USIT-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	SFC	22	GND	23	N.C.	24	N.C.
25	GND	26	TX_CH10_A+_USIT2	27	TX_CH10_A-_USIT2	28	GND
29	N.C.	30	N.C.	31	GND	32	TX_CH8_A+_USIT2
33	TX_CH8_A-_USIT2	34	GND	35	N.C.	36	N.C.
37	GND	38	TX_CH6_A+_USIT2	39	TX_CH6_A-_USIT2	40	GND
41	N.C.	42	N.C.	43	GND	44	TX_CH4_A+_USIT2
45	TX_CH4_A-_USIT2	46	GND	47	N.C.	48	N.C.
49	GND	50	TX_CH2_A+_USIT2	51	TX_CH2_A-_USIT2	52	GND
53	N.C.	54	N.C.	55	GND	56	TX_CH0_A+_USIT2
57	TX_CH0_A-_USIT2	58	GND	59	N.C.	60	N.C.
61	GND	62	N.C.	63	N.C.	64	GND
65	N.C.	66	N.C.	67	GND	68	N.C.
69	N.C.	70	GND	71	SFC	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	VGHD
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

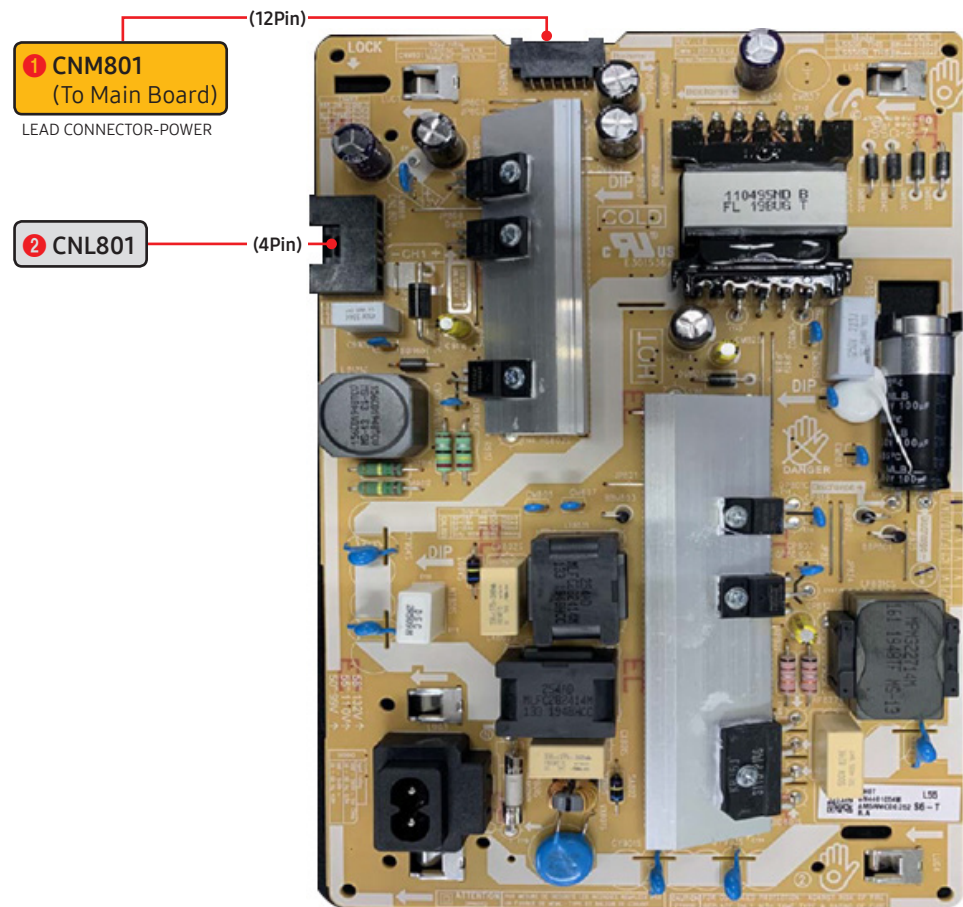
- 43 inches



■ SMPS Board Pin Map

1 CNM801				2 CNL801			
1	GND	2	ANA-DIM	1	1+	2	1-
3	A13V	4	OD ON/OFF	3	2+	4	2-
5	A13V	6	BLU_PWM				
7	A13V	8	Power On/off				
9	A13V	10	GND				
11	GND	12	GND				

- 50 / 58 inches



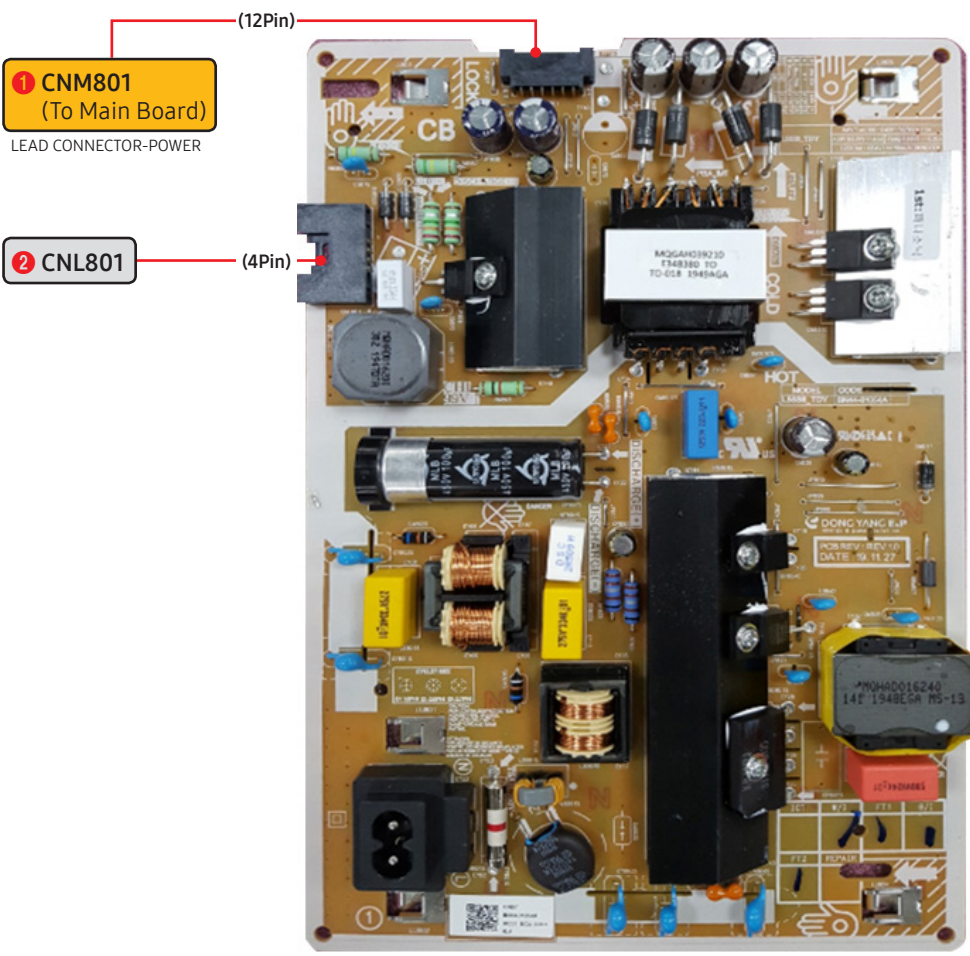
■ SMPS Board Pin Map

1 CNM801			
1	GND	2	ANA-DIM
3	A13V	4	N.C
5	A13V	6	BLU_PWM
7	A13V	8	Power On/off
9	A13V	10	GND
11	GND	12	GND

2 CNL801			
1	1+	2	1-
3	2+	4	2-

5. Wiring Diagram

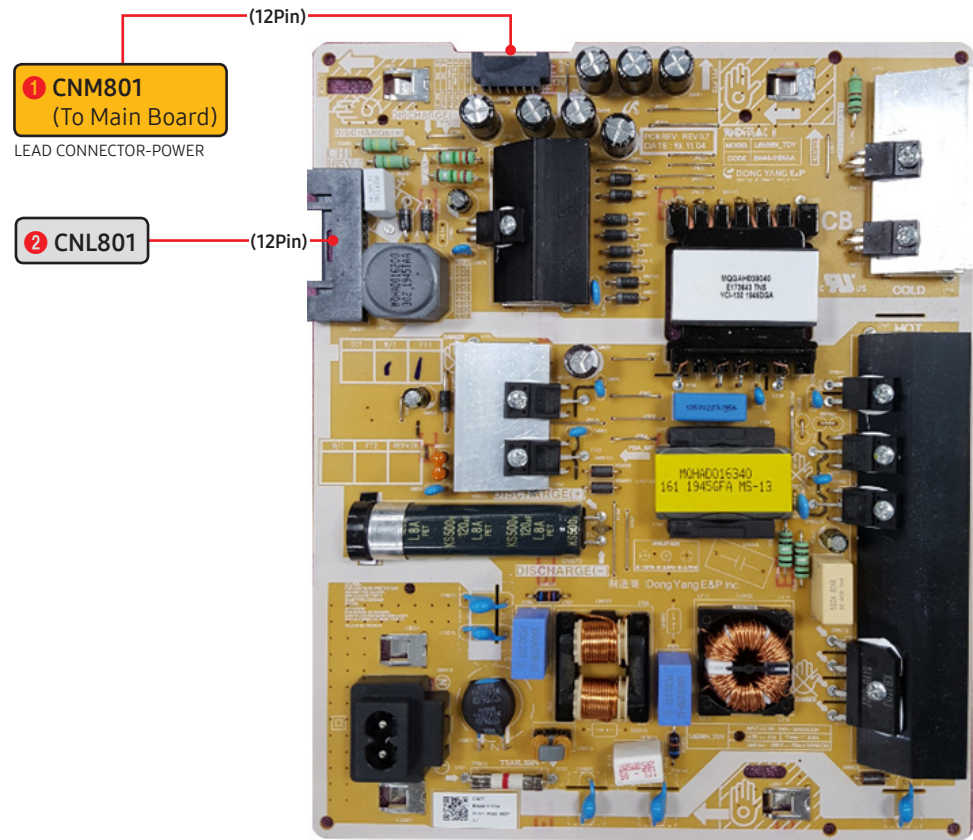
- 55 inches



■ SMPS Board Pin Map

1 CNM801				2 CNL801			
1	GND	2	ANA-DIM	1	1+	2	1-
3	A13V	4	N.C	3	2+	4	2-
5	A13V	6	BLU_PWM				
7	A13V	8	Power On/off				
9	A13V	10	GND				
11	GND	12	GND				

- 65 inches

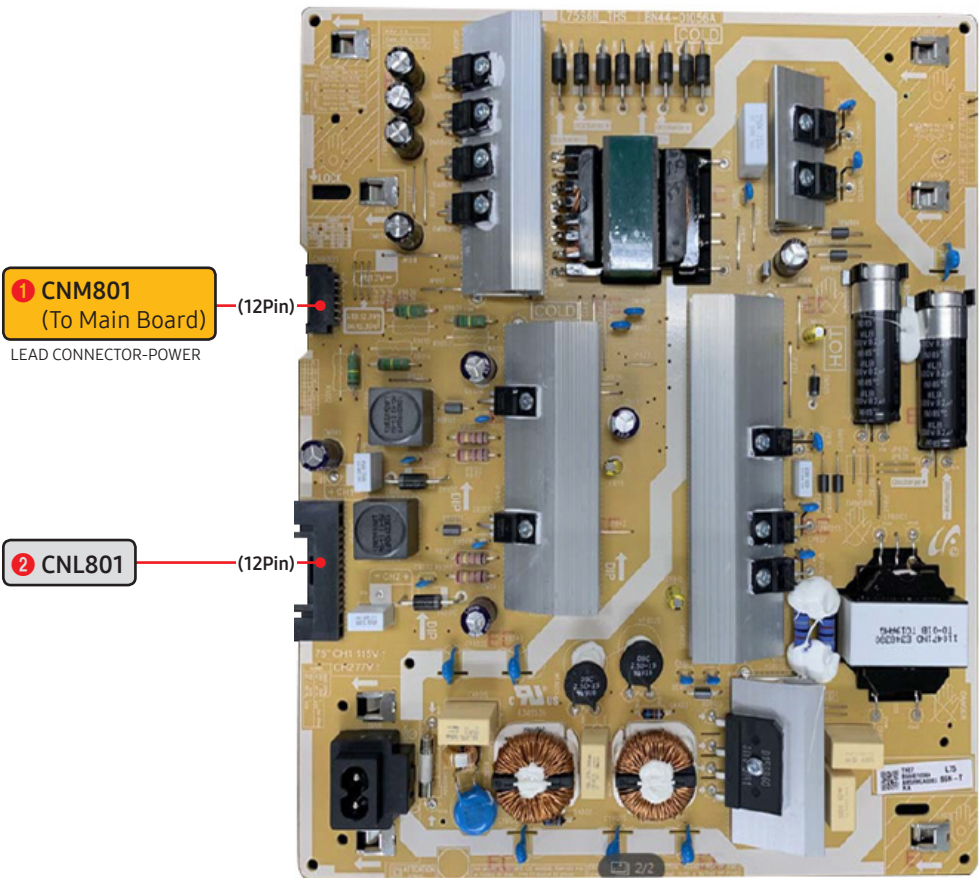


■ SMPS Board Pin Map

1 CNM801				2 CNL801			
1	GND	2	ANA-DIM	1	1+	2	1-
3	A13V	4	N.C	3	2+	4	2-
5	A13V	6	BLU_PWM	5	3+	6	3-
7	A13V	8	Power On/off	7	4+	8	4-
9	A13V	10	GND	9	5+	10	N.C
11	GND	12	GND	11	N.C	12	5-

5. Wiring Diagram

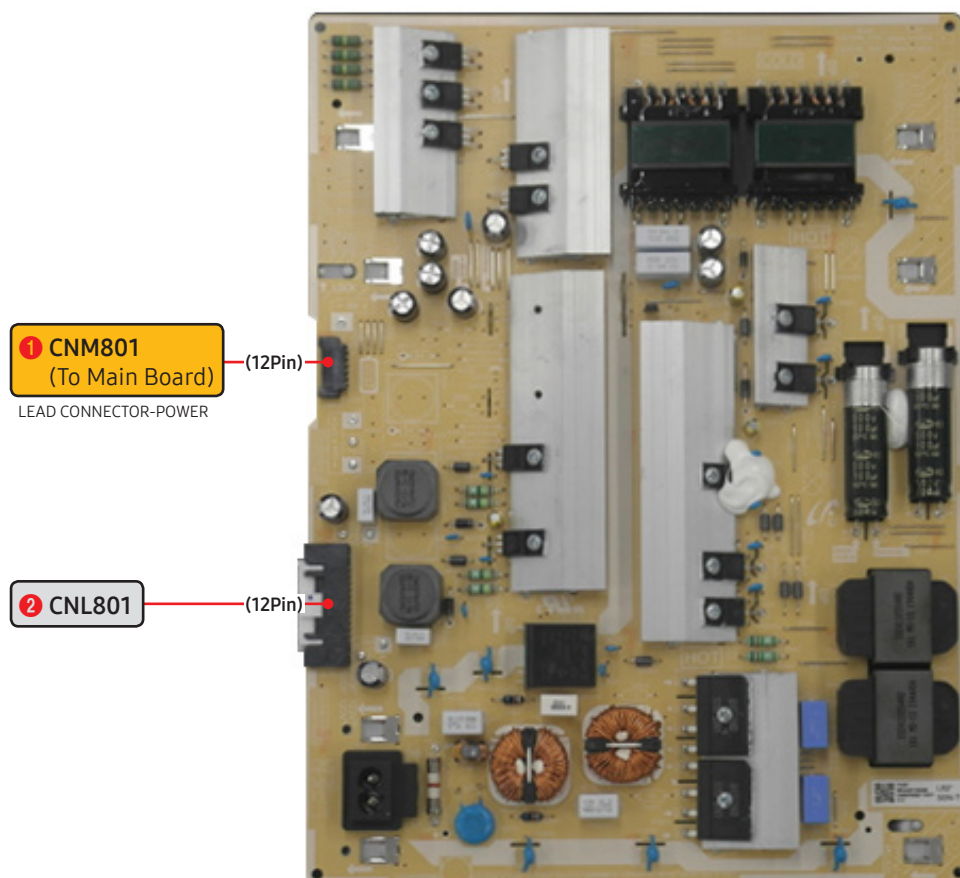
- 75 inches



■ SMPS Board Pin Map

1 CNM801				2 CNL801			
1	GND	2	ANA-DIM	1	1+	2	1-
3	A13V	4	N.C	3	2+	4	2-
5	A13V	6	BLU_PWM	5	3+	6	3-
7	A13V	8	Power On/off	7	4+	8	4-
9	A13V	10	GND	9	5+	10	5-
11	GND	12	GND	11	6+	12	6-

- 82 / 85 inches

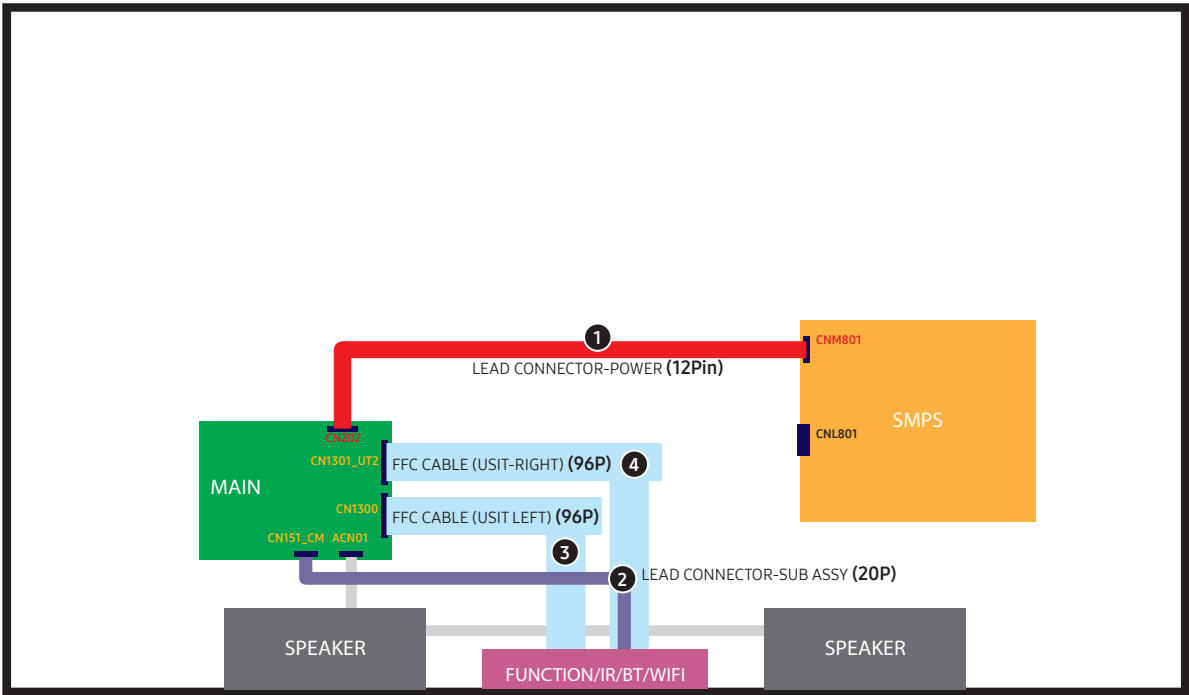


■ SMPS Board Pin Map

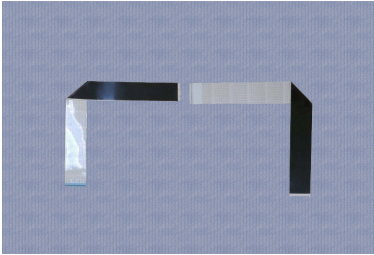
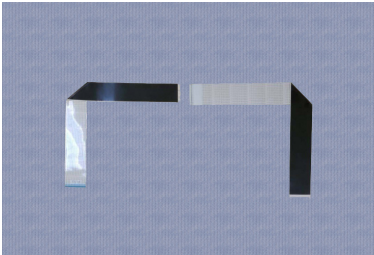
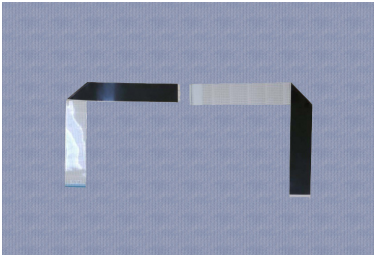
1 CNM801				2 CNL801			
1	GND	2	ANA-DIM	1	1+	2	1-
3	A13V	4	N.C	3	2+	4	2-
5	A13V	6	BLU_PWM	5	3+	6	3-
7	A13V	8	Power On/off	7	4+	8	4-
9	A13V	10	GND	9	5+	10	5-
11	GND	12	GND	11	6+	12	6-

5-3. Cables

- 50/55/65/75/82/85 inches



Part Name & Connection		Part Spec		Code No.	
①	LEAD CONNECTOR-POWER MAIN - SMPS		12P/500mm	50"	BN39-02217E
				55"	
			12P/800mm	65"	BN39-02217G
			12P/600mm	75"	BN39-02217F
			12P/700mm	82"	BN39-02604A
				85"	
②	LEAD CONNECTOR-SUB ASSY MAIN - Combo		20P/475mm	50"	BN39-02601A
			20P/425mm	55"	BN39-02601B
			20P/475mm	65"	BN39-02601A
				75"	
				82"	
				85"	

Part Name & Connection		Part Spec		Code No.	
③	FFC CABLE (L) MAIN - Source B		96P/350	50"	BN96-39821F
				55"	
			96P/500	65"	BN96-39820H
				75"	
				82"	
				85"	
④	FFC CABLE (R) MAIN - Source B		-	50"	-
			-	55"	-
			-	65"	-
			-	75"	-
			-	82"	-
			-	85"	-