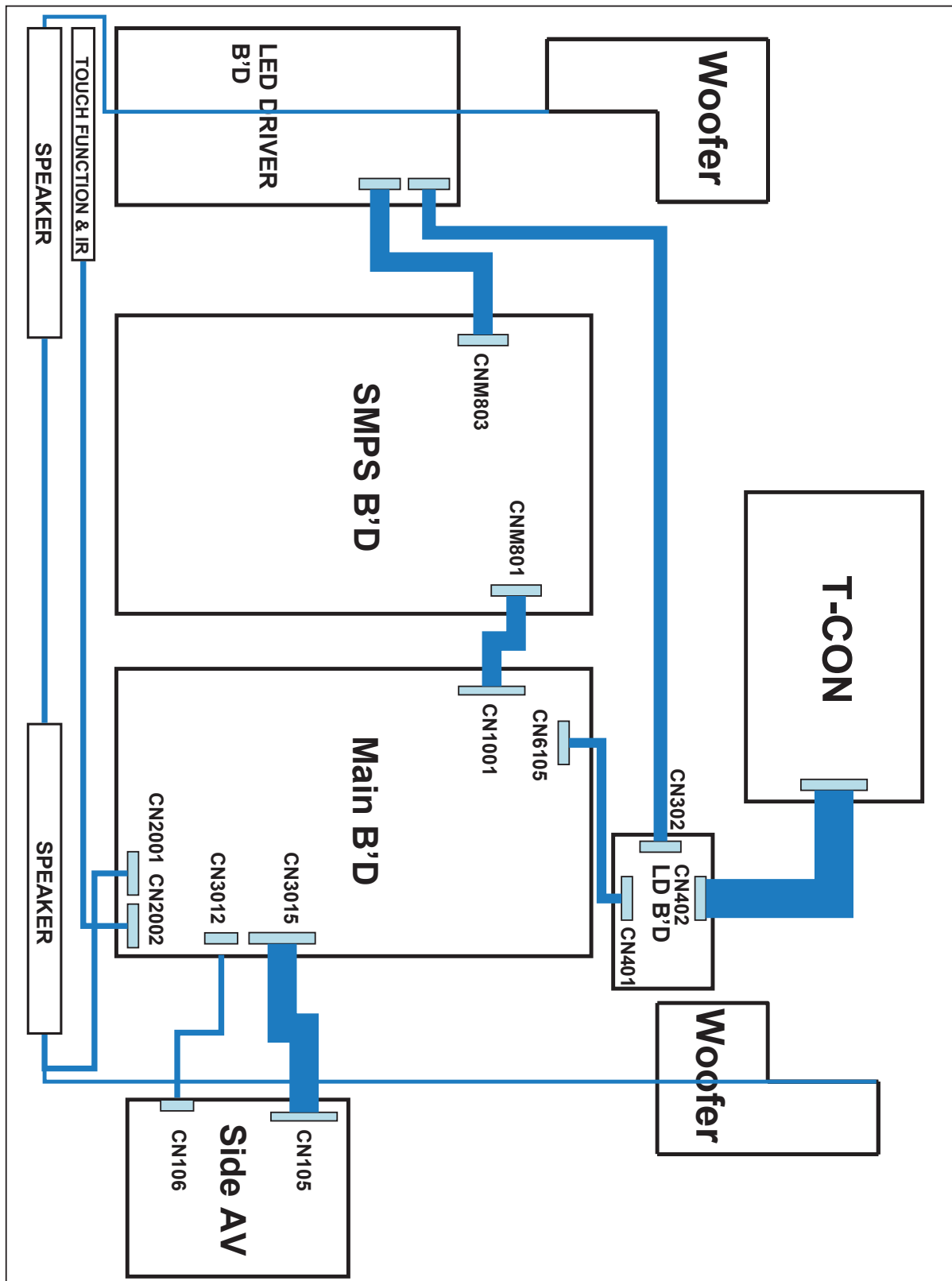
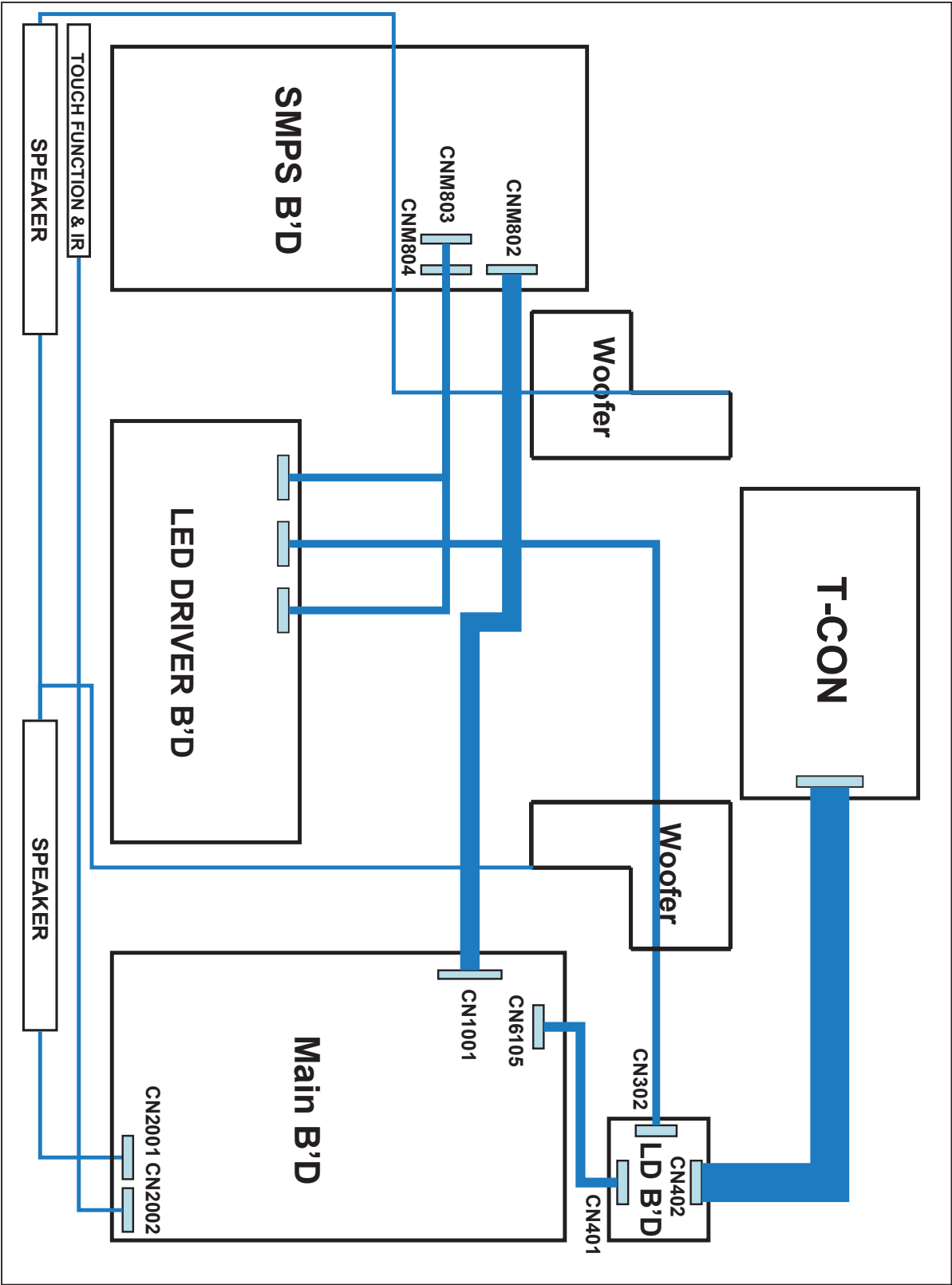


## 6. Wiring Diagram

### 6-1. Wiring Diagram 46"



6-2. Wiring Diagram 55"



CN2002(to T-CON)

|    |               |    |           |
|----|---------------|----|-----------|
| 1  | NC            | 27 | RE[0]-    |
| 2  | T_Micom_Reset | 28 | GND       |
| 3  | SW_PVCC       | 29 | RO[4]+    |
| 4  | FRC_RESET     | 30 | RO[4]-    |
| 5  | SDA           | 31 | RO[3]+    |
| 6  | SCL           | 32 | RO[3]-    |
| 7  | LVDS opt      | 33 | GND       |
| 8  | H-Sync Out    | 34 | ROCLK+    |
| 9  | NC            | 35 | ROCLK-    |
| 10 | T_Con Check   | 36 | GND       |
| 11 | NC            | 37 | RO[2]+    |
| 12 | NC            | 38 | RO[2]-    |
| 13 | GND           | 39 | RO[1]+    |
| 14 | RE[4]+        | 40 | RO[1]-    |
| 15 | RE[4]-        | 41 | RO[0]+    |
| 16 | RE[3]+        | 42 | RO[0]-    |
| 17 | RE[3]-        | 43 | GND       |
| 18 | GND           | 44 | GND       |
| 19 | RECLK+        | 45 | GND       |
| 20 | RECLK-        | 46 | NC        |
| 21 | GND           | 47 | Panel_VCC |
| 22 | RE[2]+        | 48 | Panel_VCC |
| 23 | RE[2]-        | 49 | Panel_VCC |
| 24 | RE[1]+        | 50 | Panel_VCC |
| 25 | RE[1]-        | 51 | Panel_VCC |
| 26 | RE[0]+        |    |           |

CN1302(to Power board)

|   |             |
|---|-------------|
| 1 | SW_INVERTER |
| 2 | ANA_DIMMING |
| 3 | PWM_DIMMING |
| 4 | GND         |
| 5 | -           |

CN100(to Power board)

|    |                |    |      |
|----|----------------|----|------|
| 1  | HSYNC_INVERTER | 13 | B5V  |
| 2  | SW_POWER       | 14 | B5V  |
| 3  | GND            | 15 | B5V  |
| 4  | A5V            | 16 | B5V  |
| 5  | GND            | 17 | GND  |
| 6  | GND            | 18 | GND  |
| 7  | B13VS          | 19 | GND  |
| 8  | B13VS          | 20 | B13V |
| 9  | GND            | 21 | B13V |
| 10 | GND            | 22 | B13V |
| 11 | GND            | 23 | -    |
| 12 | GND            | 24 | -    |

CN900(to Function/IR)

|   |        |    |      |
|---|--------|----|------|
| 1 | IR     | 7  | KEY2 |
| 2 | GND    | 8  | SDA  |
| 3 | A3.3V  | 9  | 5V   |
| 4 | SCL    | 10 | CTRL |
| 5 | BUZZER | 11 | 5V   |
| 6 | KEY1   |    |      |

JA5002(to Side AV)

|    |                 |    |               |
|----|-----------------|----|---------------|
| 1  | B3.3V           | 22 | HDMI4_HPD     |
| 2  | SID_1.8V        | 23 | HDMI4_5V      |
| 3  | USB_VCC         | 24 | HDMI_HPD_SIDE |
| 4  | HP_OUT_L        | 25 | HDMI4_DDC_SDA |
| 5  | HP_OUT_R        | 26 | HDMI4_DDC_SCL |
| 6  | HP_IDENT        | 27 | GND           |
| 7  | VIDEO2_SL_IN    | 28 | HDMI_CEC      |
| 8  | VIDEO2_SR_IN    | 29 | GND           |
| 9  | GND             | 30 | HDMI4_RXCLK   |
| 10 | VIDEO2_CVBS_BAY | 31 | HDMI4_RXCLK+  |
| 11 | VIDEO2_IDENT    | 32 | GND           |
| 12 | GND             | 33 | HDMI4_RX0-    |
| 13 | SVHS2_C_BAY     | 34 | HDMI4_RX0+    |
| 14 | GND             | 35 | GND           |
| 15 | SVHS2_Y_BAY     | 36 | HDMI4_RX1-    |
| 16 | SVHS2_IDENT     | 37 | HDMI4_RX1+    |
| 17 | GND             | 38 | GND           |
| 18 | USBN_2.0        | 39 | HDMI4_RX2-    |
| 19 | USBP_2.0        | 40 | HDMI4_RX2+    |
| 20 | GND             | 41 | GND           |
| 21 | DDC_WP          |    |               |

JA301(to HDMI1)

|    |              |    |               |
|----|--------------|----|---------------|
| 1  | HDMI1_RX2+   | 12 | HDMI1_RXCLK-  |
| 2  | GND          | 13 | HDMI_CEC      |
| 3  | HDMI1_RX2-   | 14 | GND           |
| 4  | HDMI1_RX1+   | 15 | HDMI1_DDC_SCL |
| 5  | GND          | 16 | HDMI1_DDC_SDA |
| 6  | HDMI1_RX1-   | 17 | GND           |
| 7  | HDMI1_RX0+   | 18 | HDMI1_IDENT   |
| 8  | GND          | 19 | HDMI1_5V      |
| 9  | HDMI1_RX0-   | 20 | GND           |
| 10 | HDMI1_RXCLK+ | 21 | GND           |
| 11 | GND          |    |               |

JA303(to HDMI2)

|    |              |    |               |
|----|--------------|----|---------------|
| 1  | HDMI2_RX2+   | 12 | HDMI2_RXCLK-  |
| 2  | GND          | 13 | HDMI_CEC      |
| 3  | HDMI2_RX2-   | 14 | GND           |
| 4  | HDMI2_RX1+   | 15 | HDMI2_DDC_SCL |
| 5  | GND          | 16 | HDMI2_DDC_SDA |
| 6  | HDMI2_RX1-   | 17 | GND           |
| 7  | HDMI2_RX0+   | 18 | HDMI2_IDENT   |
| 8  | GND          | 19 | HDMI2_5V      |
| 9  | HDMI2_RX0-   | 20 | GND           |
| 10 | HDMI2_RXCLK+ | 21 | GND           |
| 11 | GND          |    |               |

JA305(to HDMI3)

|    |              |    |               |
|----|--------------|----|---------------|
| 1  | HDMI3_RX2+   | 12 | HDMI3_RXCLK-  |
| 2  | GND          | 13 | HDMI_CEC      |
| 3  | HDMI3_RX2-   | 14 | GND           |
| 4  | HDMI3_RX1+   | 15 | HDMI3_DDC_SCL |
| 5  | GND          | 16 | HDMI3_DDC_SDA |
| 6  | HDMI3_RX1-   | 17 | GND           |
| 7  | HDMI3_RX0+   | 18 | HDMI3_IDENT   |
| 8  | GND          | 19 | HDMI3_5V      |
| 9  | HDMI3_RX0-   |    |               |
| 10 | HDMI3_RXCLK+ |    |               |
| 11 | GND          |    |               |

JA300(to PC)

|   |          |    |           |
|---|----------|----|-----------|
| 1 | PC_RED   | 9  | PC_5V     |
| 2 | PC_GREEN | 10 | PC_IDENT  |
| 3 | PC_BLUE  | 11 | GND       |
| 4 | GND      | 12 | EMU_SDA   |
| 5 | GND      | 13 | PC_H_SYNC |
| 6 | GND      | 14 | PC_V_SYNC |
| 7 | GND      | 15 | EMU_SCL   |
| 8 | GND      |    |           |

JA401(to HDMI4)

|    |              |    |               |
|----|--------------|----|---------------|
| 1  | HDMI4_RX2+   | 12 | HDMI4_RXCLK-  |
| 2  | GND          | 13 | HDMI_CEC      |
| 3  | HDMI4_RX2-   | 14 | GND           |
| 4  | HDMI4_RX1+   | 15 | HDMI4_DDC_SCL |
| 5  | GND          | 16 | HDMI4_DDC_SDA |
| 6  | HDMI4_RX1-   | 17 | GND           |
| 7  | HDMI4_RX0+   | 18 | HDMI4_IDENT   |
| 8  | GND          | 19 | HDMI4_5V      |
| 9  | HDMI4_RX0-   |    |               |
| 10 | HDMI4_RXCLK+ |    |               |
| 11 | GND          |    |               |

CN201(Universal jack)

|    |              |    |               |
|----|--------------|----|---------------|
| 1  | COMP1_SR_IN  | 15 | MONITOR_R_OUT |
| 2  | GND          | 16 | COMP2_SR_IN   |
| 3  | COMP2_SL_IN  | 17 | MONITOR_L_OUT |
| 4  | COMP1_SL_IN  | 18 | DVI_SR_IN     |
| 5  | COMP1_SR_IN  | 19 | GND           |
| 6  | COMP2_PR     | 20 | COMP2_IDENT   |
| 7  | COMP1_PR     | 21 | DVI_SL_IN     |
| 8  | COMP2_PB     | 22 | DVI_SR_IN     |
| 9  | COMP1_PB     | 23 | -             |
| 10 | COMP1_IDENT  | 24 | -             |
| 11 | COMP2_Y      | 25 | GND           |
| 12 | COMP1_Y      | 26 | -             |
| 13 | VIDEO1_IDENT | 27 | -             |
| 14 | COMP2_SR_IN  |    |               |

JA302(to PC Sound)

|   |          |
|---|----------|
| 1 | GND      |
| 2 | PC_SR_IN |
| 3 | PC_SL_IN |
| 4 | PC_SL_IN |
| 5 | PC_SL_IN |
| 6 | PC_SR_IN |
| 7 | PC_SR_IN |

CN8001(to Speaker)

|   |     |
|---|-----|
| 1 | R+  |
| 2 | R-  |
| 3 | SW+ |
| 4 | SW- |
| 5 | L+  |
| 6 | L-  |
| 7 | SW+ |
| 8 | SW- |

JA500(to Optical Jack)

|   |     |
|---|-----|
| 1 | VIN |
| 2 | VCC |
| 3 | GND |

CN404(to USB)

|   |          |
|---|----------|
| 1 | USB_VCC  |
| 2 | USBN_2.0 |
| 3 | USBP_2.0 |
| 4 | GND      |

JA400(to headphone)

|    |          |
|----|----------|
| 1  | GND      |
| 2  | HP_OUT_L |
| 3  | HP_OUT_R |
| 4  | NC       |
| 5  | HP_IDENT |
| 6  | GND      |
| 7  | NC       |
| 8  | HP_IDENT |
| 9  | GND      |
| 10 | NC       |
| 11 | NC       |

CN401(to video1)

|   |                 |
|---|-----------------|
| 1 | GND             |
| 2 | VIDEO2_SL_IN    |
| 3 | VIDEO2_SR_IN    |
| 4 | GND             |
| 5 | VIDEO2_SR_IN    |
| 6 | VIDEO2_SL_IN    |
| 7 | GND             |
| 8 | VIDEO2_IDENT    |
| 9 | VIDEO2_CVBS_BAY |

CN402(to S-Video)

|   |             |
|---|-------------|
| 1 | GND         |
| 2 | GND         |
| 3 | GND         |
| 4 | SVHS2_Y_BAY |
| 5 | SVHS2_C_BAY |
| 6 | SVHS2_IDENT |
| 7 | GND         |

CN2003(to power)

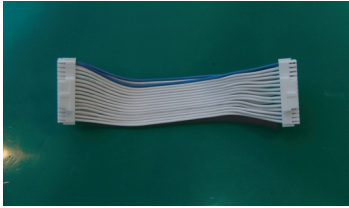
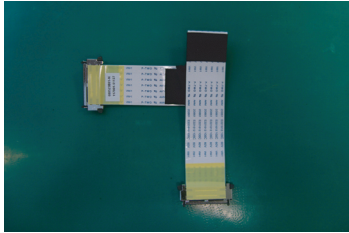
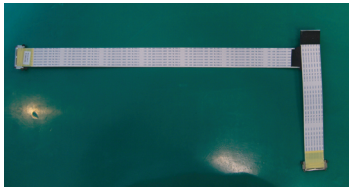
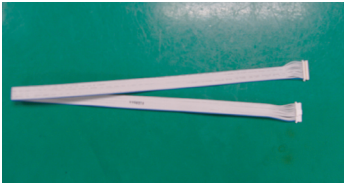
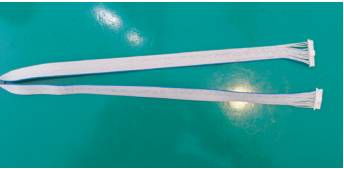
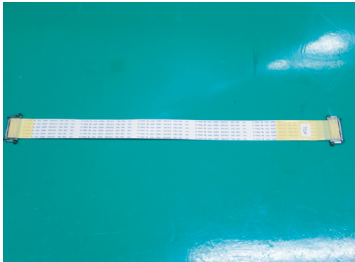
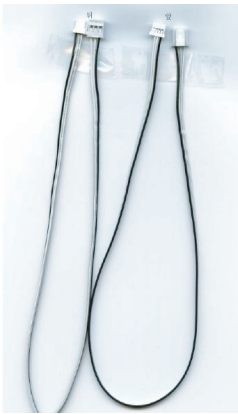
|   |             |
|---|-------------|
| 1 | SW_INVERTER |
| 2 | ANA_DIMMING |
| 3 | PWM_DIMMING |
| 4 | GND         |

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### 6-3. Connector Functions

| Connector          | Functions                                               |
|--------------------|---------------------------------------------------------|
| 1) CN100<->CNM801  | Supply main power from SMPS to Main Board.              |
| 2) CON1<->CNM803   | Supply main power from SMPS to Local Dimming Driver.    |
| 3) T-CON<->CN402   | The LVDS signal transfered from Main Board to Panel.    |
| 4) CON103<->CN302  | The information of local dimming is transfered.         |
| 5) CN401<->CN2001  | The LVDS signal transfered from Main Board to LD Board. |
| 6) CN406<->CN106   | Supply power from Main Board to Side-AV.                |
| 7) CN403 <-> CN105 | The signal transfered from Main Board to Side-AV.       |

## 6-4. Cables

|       |                                                                                                                                                                                               |                                                                                      |                                                                                                                                                                                                 |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use   | 1) Main<->SMPS (30p)                                                                                                                                                                          | 2) L/D Driver<->SMPS (14p)                                                           | 3) L/D Board<->T-CON (FFC)                                                                                                                                                                      |
| Code  | 46": BN39-01099D(100mm)<br>55": BN39-01099B(800mm)                                                                                                                                            | 46": BN39-00849G 250mm<br>55": BN39-00849C(300mm)<br>BN39-00849L(600mm)              | 46": BN96-08479D(100/120mm)<br>55": BN96-08479E(450/200mm)                                                                                                                                      |
| Photo |                                                                                                              |    | <br>< 46"><br><br>< 55 "> |
| Use   | 4) L/D Driver<->L/D Board                                                                                                                                                                     | 5) Main Board<->L/D Board                                                            | 6) FFC Cable                                                                                                                                                                                    |
| Code  | 46":BN39-01113A<br>(600mm, 15pin to 15pin)<br>55":BN39-01116A<br>(600mm,15pin to 20pin)                                                                                                       | 46"/55" : BN39-00825B 250mm                                                          | 46" BN96-06678A (350mm)                                                                                                                                                                         |
| Photo | <br>< 46"><br><br><55"> |  |                                                                                                            |
| Use   | 7) Side Cable (3P-4P)                                                                                                                                                                         |                                                                                      |                                                                                                                                                                                                 |
| Code  | 46" BN39-00948E                                                                                                                                                                               |                                                                                      |                                                                                                                                                                                                 |
| Photo |                                                                                                            |                                                                                      |                                                                                                                                                                                                 |

## Memo