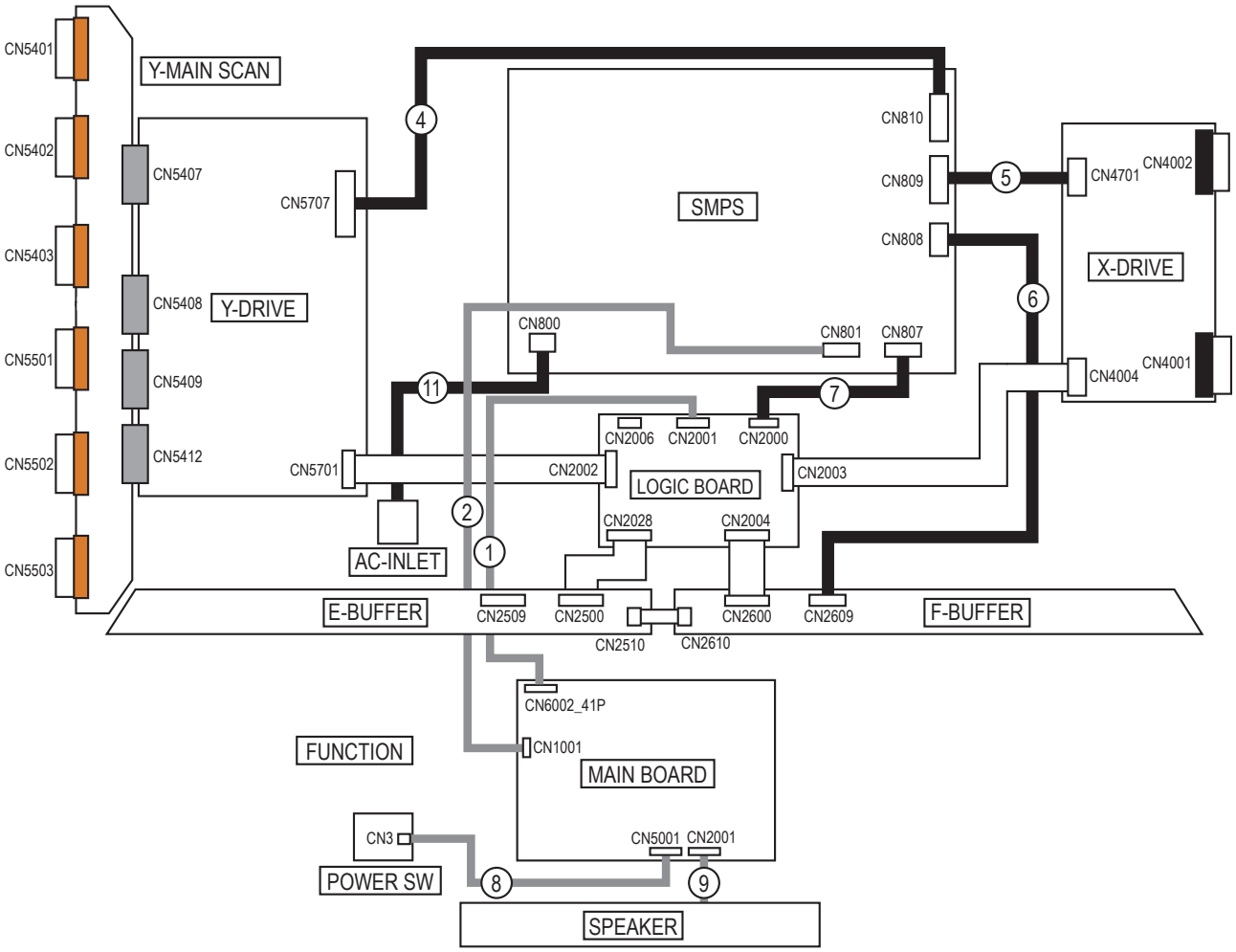
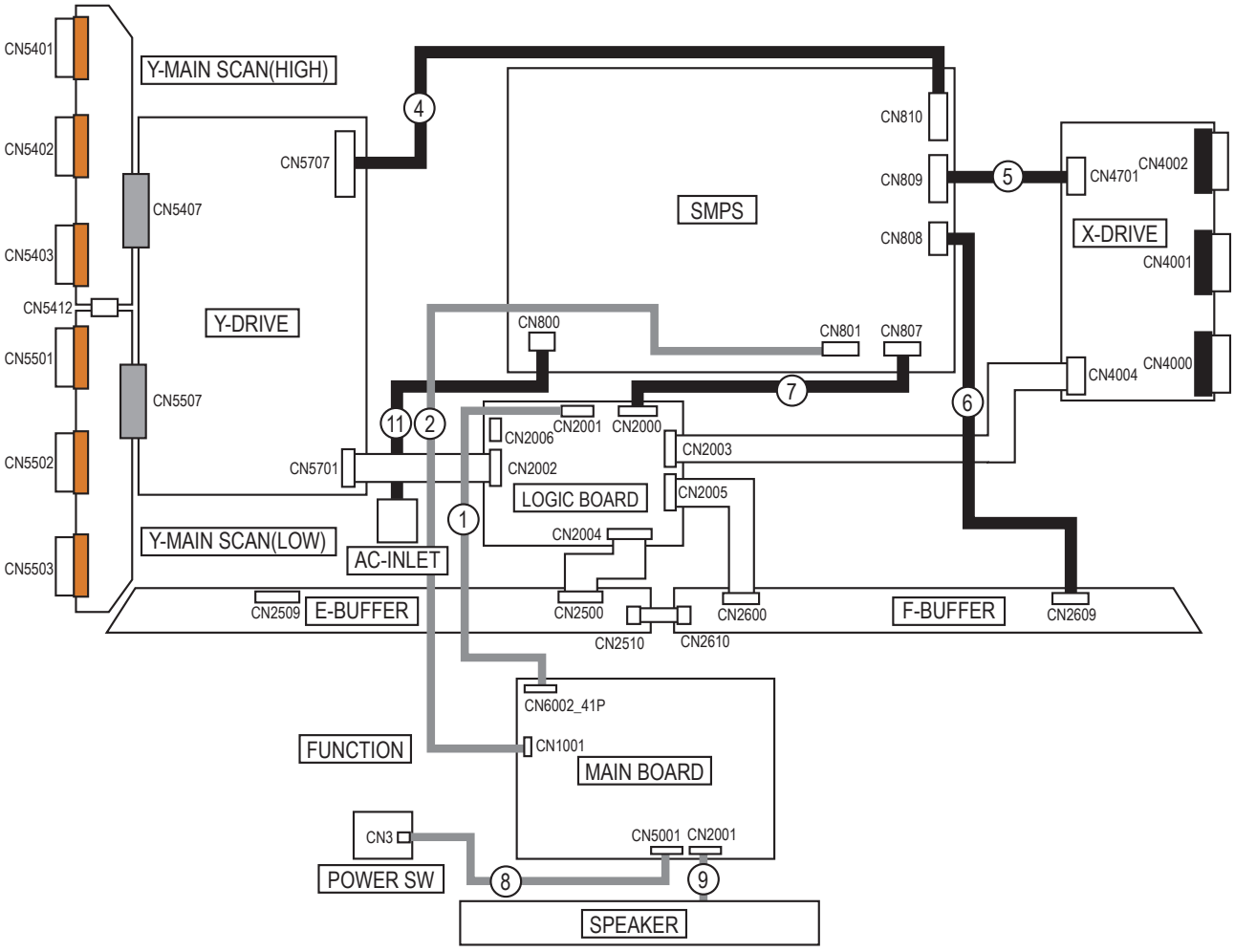
# 6. Wiring Diagram

## 6-1 Overall Wiring

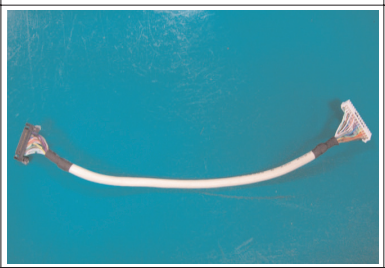
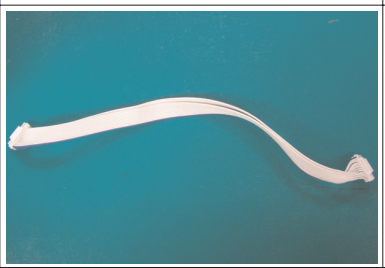
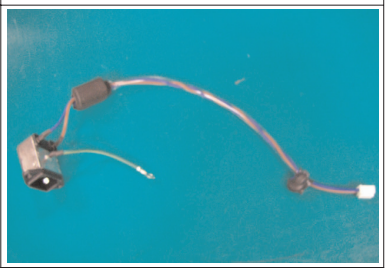
**<42" Overall Wiring>**



**<50" Overall Wiring>**




※ The code number of cable(Lead-connector) can be changed, see "5. Exploded View & Part List."

| Use | ① LVDS 31P-30P | ② POWER 24P | ⑪ AC_INPUT |
|---|---|---|---|
| Code | BN39-00859A | BN39-00881A | 42" - 2901-001378<br>50" - 2901-001340 |
| Photo |  |  |  |

### 6-1-1 Pin Connection

| ① CN6002_41P (MAIN B'D)↔ CN2014 (LOGIC B'D) | | | |
|---|---|---|---|
| Pin No. | Signal | Pin No. | Signal |
| 1 | SDA_PDP_LOGIC | 16 | FBE_ODD_TXCLK+_P |
| 2 | FGND | 17 | FBE_ODD_TXCLK-_P |
| 3 | SCL_PDP_LOGIC | 18 | FGND |
| 4 | START_OPT | 19 | FBE_ODD_TX2+_P |
| 5 | LOGIC_TX_P | 20 | FBE_ODD_TX2-_P |
| 6 | FGND | 21 | FGND |
| 7 | LOGIC_RX_P | 22 | FBE_ODD_TX1+_P |
| 8 | FGND | 23 | FBE_ODD_TX1-_P |
| 9 | 3D_SYNC | 24 | FGND |
| 10 | NC | 25 | FBE_ODD_TX0+_P |
| 11 | WP_I2C_READY | 26 | FBE_ODD_TX0-_P |
| 12 | FGND | 27 | FBE_ODD_TX4+ |
| 13 | FBE_ODD_TX3+_P | 28 | FBE_ODD_TX4- |
| 14 | FBE_ODD_TX3-_P | 29 | FBE_ODD_TX5+ |
| 15 | FGND | 30 | FBE_ODD_TX5- |

| ② CN1001 (MAIN B'D) ↔ CN801 (SMPS) | | | |
|---|---|---|---|
| Pin No. | Signal | Pin No. | Signal |
| 1 | NC | 13 | B5V |
| 2 | PS_ON | 14 | B5V |
| 3 | FGND | 15 | B5V |
| 4 | A5V | 16 | B5V |
| 5 | FGND | 17 | FGND |
| 6 | FGND | 18 | FGND |
| 7 | B13VS | 19 | FGND |
| 8 | B13VS | 20 | B13V |
| 9 | FGND | 21 | B13V |
| 10 | FGND | 22 | B13V |
| 11 | FGND | 23 | NC |
| 12 | FGND | 24 | NC |

| ③ CN810 (SMPS) ↔ CN5800 (Y B'D) | |
|---|---|
| Pin No. | Signal |
| 1 | Vg |
| 2 | GND |
| 3 | Va |
| 4 | GND |
| 5 | Vs |
| 6 | Vs |

| ④ CN809 (SMPS) ↔ CN4005 (X B'D) | |
|---|---|
| Pin No. | Signal |
| 1 | Vg |
| 2 | GND |
| 3 | GND |
| 4 | Vs |
| 5 | Vs |

| ⑤ CN807 (SMPS) ↔ CN2000 (LOGIC B'D) | |
|---|---|
| Pin No. | Signal |
| 1 | STD5V |
| 2 | VS_ON |
| 3 | NC |
| 4 | PS_ON |
| 5 | GND |
| 6 | D5.3V |
| 7 | GND |
| 8 | GND |
| 9 | D5.3V |
| 10 | D5.3V |

| ⑥ CN5001 (MAIN B'D) ↔ POWER&IR&FUNCTION | |
|---|---|
| Pin No. | Signal |
| 1 | IR |
| 2 | FGND |
| 3 | A5V |
| 4 | LED_STB |
| 5 | BUZZER |
| 6 | KEY_INPUT1 |
| 7 | KEY_INPUT2 |
| 8 | FGND |
| 9 | B5V |
| 10 | LED_CNTR |

| ⑦ CN2001 (MAIN B'D) ↔ SPEAKER | |
|---|---|
| Pin No. | Signal |
| 1 | R+ |
| 2 | R- |
| 3 | L+ |
| 4 | L- |

| ⑧ CN800 (SMPS) ↔ AC INLET | |
|---|---|
| Pin No. | Signal |
| 1 | AC Neutral |
| 2 | NC |
| 3 | AC Live |

### 6-1-2 Connector role

| 42" Loc. No. | 50" Loc. No. | Description |
|---|---|---|
| CN5401 | CN5401 | Horizontal Y-scan line(1~128) of Module and Y-Main Scan Connect |
| CN5402 | CN5402 | Horizontal Y-scan line(129~256) of Module and Y-Main Scan Connect |
| CN5403 | CN5403 | Horizontal Y-scan line(256~384) of Module and Y-Main Scan Connect |
| - | CN5512 | Y-Main Scan(High) and Y-Main Scan(Low) Connect |
| CN5501 | CN5501 | Horizontal Y-scan line(384~512) of Module and Y-Main Scan Connect |
| CN5502 | CN5502 | Horizontal Y-scan line(512~640) of Module and Y-Main Scan Connect |
| CN5503 | CN5503 | Horizontal Y-scan line(640~768) of Module and Y-Main Scan Connect |
| CN5407 | CN5407 | Upper Y-Drive and Y-Main Scan Connect |
| CN5507 | CN5507 | Lower Y-Drive and Y-Main Scan Connect |
| CN5707 | CN5707 | Vs(205V),Vg(15v) Power input connect(6Pin) of Y-Drive |
| CN5701 | CN5701 | Y-Drive control signal from Logic Board |
| CN810 | CN810 | Vs(205V),Vg(15v) Power input connect(6Pin) of SMPS for Y-Drive |
| CN809 | CN809 | Vs(205V),Vg(15v) Power input connect(6Pin) of SMPS for X-Drive |
| CN808 | CN808 | Va(63V) ,5.3V Power input connect(3Pin) of SMPS for F-Buffer |
| CN807 | CN807 | Power input connect(10pin) for Logic Board |
| CN801 | CN801 | Image signal(LVDS) connect(41pin) from Main Board |
| CN800 | CN800 | AC Power input connect from AC-inlet |
| CN4002 | CN4002 | Horizontal X-scan line of Module and X-scan Connect(first Block) |
| CN4001 | CN4001 | Horizontal X-scan line of Module and X-scan Connect(second Block) |
| - | CN4000 | Horizontal X-scan line of Module and X-scan Connect(third Block) |
| CN2000 | CN2000 | Power input connect(10pin) of Logic Board from SMPS |
| CN2001 | CN2001 | Image signal(LVDS) connect(41pin) of Logic board from Main Board |
| CN2002 | CN2002 | Y-Drive control signal of Logic Board |
| CN2004 | CN2005 | Address Data(684th~1366th) connect for F-Buffer board |
| CN2028 | CN2004 | Address Data(1st~683th) connect for E-Buffer board |
| CN2500 | CN2500 | Address Data(1st~683th) connect from Logic Board |
| CN2510 | CN2510 | Power input connect from F-Buffer Board |
| CN2610 | CN2610 | Power input connect to E-Buffer Board |
| CN2600 | CN2600 | Address Data(684th~1366th) connect from Logic board |
| CN2609 | CN2609 | Va(63V) ,5.3V Power input connect(3Pin) from SMPS |
| CN1101 | CN1101 | Power input connect(24Pin) from SMPS |
| CN6002_41P | CN6002_41P | Image signal(LVDS) connect(30pin) for Logic board |
| CN5001 | CN5001 | Function input(source,ch up/down...) connect on Main board |
| CN2001 | CN2001 | Speak out connect on Main Board |