# General information

* **Subject: Repair guide for LED Array**

* **Bulletin Registration Date: 2015.03.19** | * **Effective from Date: 2015.03.19**

• **Applicable for models**

| Inch | Model name | | |
|------|------------|---|---|
| **32"** | 32LA58/61xx | 32LB53/64xx | 32LN51/52/53/54/56/57/61/63/64xx |
| **37"** | 37LN54xx | - | - |
| **47"** | 47LN51/52/53/54/56/57/61xx | - | - |
| **50"** | 50LA61/62xx | 50LN51/52/53/54/56/57xx | - |

* **Applicable Serial Number:**

| Applicable in warranty: | YES ✔ NO ☐ | Also applicable outside of warranty: | YES ☐ NO ✔ |
|---|---|---|---|
| Applicable only with symptoms below: | YES ✔ NO ☐ | Applicable with every repair: | YES ☐ NO ✔ |

# Technical information

* **1) Symptoms / Customer Complaint**
    - **No Backlight / No display/ Abnormal Display / Dark Screen / Faulty Display / Others**

* **2) Problem / Cause**
    - **LED Package dead by electrical stress.**

* **3) Solution**
    - **1st step : Replace the new LED Array (Not LED Bar)**
    - **2nd step : Please update the latest SW Version on lg.com**

    ※ **The wrong information for "Also applicable outside of warranty"(Yes → No).**

**\* 4) Solution step by step:**



## Detail

**First, Check the backlight On/Off**
 −This guide is only for backlight off

**Second, Check the BLU P/N on BLU Label ▷
 and module name on LCM Label.**
 −The LED Array varies from BLU P/N & Module Name
 (The LED Array of 32 inch has a 5 type)

 **\* How to order the new LED Array.**

**Third, Check the arrangement of LED Bar ▷**
 −Check to see if the type & P/N looks correct

 **\* The LED Bar is not compatible with each inch**

**Last, Replace the LED Array**
 −Refer to video guide, replace the new part carefully

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**5) New Software Release: (Attach new software link with tool-usage information)**
   **- Nothing**

# Attachment. How to order the new LED Array

### 1. Check the two Label on back side of module



### 2. Check the Module Name.



### 3. Check the LED Array P/N.



### 4. Match the LED Array P/N with P/N table.
   – Refer to next page.(Configuration of V13 Module LED Array)

# Attachment. Configuration of V13 Module LED Array

| Inch | Module P/N | Module Name | 화질구분 | BLU P/N | LGIT Model Name | LED Array P/N | Type No | P/N | Q'ty |
|---|---|---|---|---|---|---|---|---|---|
| 32" (HD) | EAJ62310301 | LC320DXE-SFU2 | HD | 6091L-2330A | LATWT320RELZK | AGF78180101 | A1 / A2 | 6916L-1204A(7) / 6916L-1205A(8) | 2 / 1 |
| | EAJ62807901 | LC320DXE-SGR1 | | 6091L-2330B / 6091L-2223B / 6091L-2223C / 6091L-2330B | LATWT320RWLZK | AGF78180001 | A1 / B1 | 6916L-1204A(7) / 6916L-1426A(7) | 2 / 1 |
| | EAJ62310301 | LC320DXE-SFU2 | | 6091L-2223B | | | | | |
| | EAJ62309801 | LC320DXE-SFR1 | | 6091L-2223A | LATWT320RELZK | AGF78180101 | A1 / A2 | 6916L-1204A(7) / 6916L-1205A(8) | 2 / 1 |
| 32" (FHD) | EAJ62450301 | LC320DUE-SFR4 | FHD | 6091L-2294D / 6091L-2473A | LATWT320RZLZK | AGF78202301 | B2 / B1 | 6916L-1437A(7) / 6916L-1438A(7) | 2 / 1 |
| | EAJ62310001 | LC320DUE-SFR1 | | 6091L-2275A | LATWT320RDLZK | AGF78202101 | A1 / A2 | 6916L-1105A(7) / 6916L-1106A(8) | 2 / 1 |
| | EAJ62450301 | LC320DUE-SFR4 | | 6091L-2294B | | | | | |
| 47" | EAJ62310101 | LC470DUE-SFR1 | | 6091L-2210A/G | LATWT470RDLZK | AGF78180201 | R1 / R2 / L1 / L2 | 6916L-1174A / 6916L-1175A / 6916L-1176A / 6916L-1177A | 3 / 3 / 3 / 3 |
| | EAJ62450501 | LC470DUE-SFR4 | | 6091L-2210F | | | | | |
| 50" | EAJ62310601 | LC500DUE-SFU1 | | 6091L-2348A/B/C | LATWT500RDLZK | AGF78180301 | L1 / L2 / R1 / R2 | 6916L-1241A / 6916L-1272A / 6916L-1273A / 6916L-1276A | 3 / 3 / 3 / 3 |
| | EAJ62274701 | LC500DUE-SFU2 | | 6091L-2348A/B/C | | | | | |
| | EAJ62310201 | LC500DUE-SFR2 | | 6091L-2230E/B | | | | | |
| ① | | ② | | ③ | | ④ | | ⑤ | |

Configuration of LED Bar columns: Type No | P/N | Q'ty
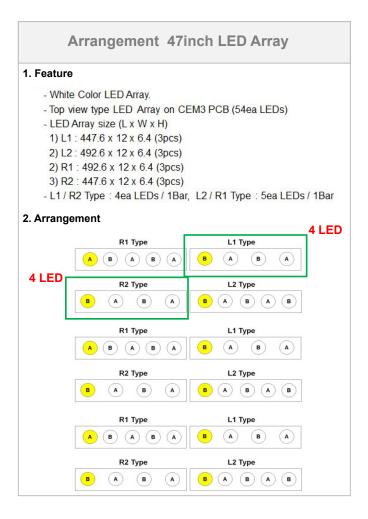
# Attachment. Configuration of V13 Module LED Array

| | | Inch | Model name | | |
|---|---|---|---|---|---|
| Step 1) | Check the model/Inch with ① | 32" | 32LA58/61xx | 32LB53/64xx | 32LN51/52/53/54 /56/57/61/63/64xx |
| | | 37" | 37LN54xx | - | - |
| | | 47" | 47LN51/52/53/54/56/57/61xx | - | - |
| | | 50" | 50LA61/62xx | 50LN51/52/53/54/56/57xx | - |
| Step 2) | Check the module name on back side label with ② |  | | | |
| Step 3) | Check the BLU Part No on back side label with ③ |  | | | |
| Step 4) | If all of the information is right with ①/②/③, Search and order the LED Array as "④" | | | | |
| Step 5) | Receive the part, make sure that the type & quantity is correct with LED Bar info (⑤) |  | | | |

# Attachment. Arrangement for each inch (32")

| Arrangement 32inch LED Array (1) | Arrangement 32inch LED Array (2) |
|---|---|
| **1. Feature**<br><br>- White Color LED Array.<br>- Top view type LED Array on CEM3 PCB (21ea LEDs)<br>- LED Array size : 630 x 12 x 6.5mm (L x W x H)<br>- A1 / A2 Type : 7ea LEDs(2bar/1bar) | **1. Feature**<br><br>- White Color LED Array.<br>- Top view type LED Array on CEM3 PCB (22ea LEDs)<br>- LED Array size : 630 x 12 x 6.5mm (L x W x H)<br>- A1 Type : 7ea LEDs / 2Bar, A2 Type : 8ea LEDs / 1Bar |

**2. Arrangement**

**A1 Type**    **7 LED**

( A ) ( B ) ( A ) ( B ) ( A ) ( B ) ( A )

**A2 Type**

( B ) ( A ) ( B ) ( A ) ( B ) ( A ) ( B )

**A1 Type**

( A ) ( B ) ( A ) ( B ) ( A ) ( B ) ( A )

**2. Arrangement**

**A1 Type**    **7 LED**

( A ) ( B ) ( A ) ( B ) ( A ) ( B ) ( A )

**A2 Type**    **8 LED**

( B ) ( A ) ( B ) ( A ) ( A ) ( B ) ( A ) ( B )

**A1 Type**

( A ) ( B ) ( A ) ( B ) ( A ) ( B ) ( A )

# Attachment. Arrangement for each inch (47")

## Arrangement 47inch LED Array

### 1. Feature

- White Color LED Array.
- Top view type LED Array on CEM3 PCB (54ea LEDs)
- LED Array size (L x W x H)
  1) L1 : 447.6 x 12 x 6.4 (3pcs)
  2) L2 : 492.6 x 12 x 6.4 (3pcs)
  2) R1 : 492.6 x 12 x 6.4 (3pcs)
  3) R2 : 447.6 x 12 x 6.4 (3pcs)
- L1 / R2 Type : 4ea LEDs / 1Bar,  L2 / R1 Type : 5ea LEDs / 1Bar

### 2. Arrangement

# Attachment. Arrangement for each inch (50")

## Arrangement 50inch LED Array

### 1. Feature

- White Color LED Array.
- Top view type LED Array on CEM3 PCB (60ea LEDs)
- LED Array size (L x W x H)
    1) L1 → 495.0 x 12 x 6.5 (3pcs)
    2) L2 → 468.0 x 12 x 6.5 (3pcs)
    3) R1 → 502.4 x 12 x 6.5 (3pcs)
    4) R2 → 529.4 x 12 x 6.5 (3pcs)
-- L1 / L2 / R1/ R2 : 5ea LEDs / 1bar

### 2. Arrangement

# Attachment. Repair guide for LED Array

## Preparation for replace "LED Array"

**LED Array Information**

**32"**   LED Type : A1/A2 (2bar/1bar)

**47"**   LED Type : L1/L2/R1/R2 (each 3bar)

**50"**   LED Type : L1/L2/R1/R2 (each 3bar)

**Recommendations**

**Environment**
① Clean Room (less dust)
② Work place over 15㎡~

**Tool**
① Gloves, Apron, Oversleeve
② Compressor for module
    * If need, should be buy it from On-Off line Mall

※ **For more details, Please note the repair video guide**

## Repair Flow

**01**   Separate the board (Main/Power/T-Con)

**02**   Disassemble the module

**03**   Detach the LED Bar from BLU

**04**   Attach the new LED Bar on BLU

**05**   Assemble the module

**06**   Assemble the board (Main/Power/T-Con)

**07**   Clean up the module