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LG LA120HSV Owner's Manual

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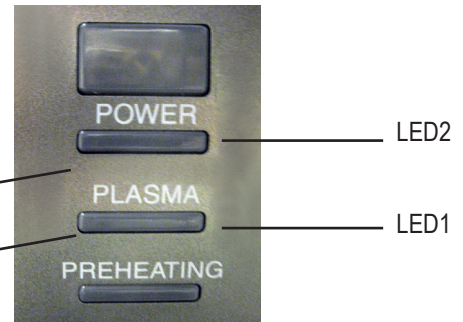
DEFINING COMMON ERROR CODES

Art Cool™ Mirror High-Efficiency Single Zone Systems
 LA090HSV System (LAN090HSV Indoor Units / LAU090HSV Outdoor Units)
 LA120HSV System (LAN120HSV Indoor Units / LAU120HSV Outdoor Units)

LAN090HSV and LAN120HSV Indoor Units



Location of light-emitting diode (LED) displays



| Error Code | Description | No. of Times Indoor Unit LEDs Blink | |
|------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------|
| | | LED1 (Plasma LED) | LED2 (Power LED) |
| 1 | Indoor unit return air thermistor is disconnected or is shorted out. | 1X | — |
| 2 | Indoor unit inlet pipe thermistor is disconnected or is shorted out. | 2X | — |
| 5 | Communication failure from indoor unit to outdoor unit. | — | 5X |
| 6 | Indoor unit outlet pipe thermistor has disconnected or has shorted out. | 6X | — |
| 9 | Indoor unit electrically erasable programmable read-only memory (EEPROM) error. | 9X | — |
| 10 | Indoor unit fan has locked up (fan motor operation failure). | — | 1X |
| 12 | Indoor unit middle pipe thermistor is disconnected or is shorted out. | 1X | 2X |
| 21 | Direct current (DC) peak error / internal power module (IPM) fault; compressor DC voltage was too high. | 2X | 1X |
| 22 | Current transformer2 (CT2) error; alternating current (AC) input is too high. | 2X | 2X |
| 23 | DC link voltage is too low. | 2X | 3X |
| 25 | Voltage to the system is too low or too high. | 2X | 5X |
| 26 | Inverter compressor has seized up or is not providing rotation. | 2X | 6X |
| 27 | Prospective short circuit (PSC) fault error; current to inverter compressor between AC and DC converter circuit is too high. | 2X | 7X |
| 28 | Inverter compressor DC voltage is too high. | 2X | 8X |
| 29 | Inverter compressor amperage is too high. | 2X | 9X |
| 31 | Current to the current transformer (CT) thermistor is too low. | 3X | 1X |
| 32 | Inverter compressor discharge pipe temperature is too high. | 3X | 2X |
| 40 | Current transformer (CT) thermistor is disconnected or is shorted out. | 4X | — |
| 41 | Inverter compressor discharge pipe thermistor is disconnected or is shorted out. | 4X | 1X |
| 44 | Outdoor unit inlet air thermistor is disconnected or is shorted out. | 4X | 4X |
| 45 | Middle thermistor of outdoor unit condenser coil is disconnected or is shorted out. | 4X | 5X |
| 46 | Outdoor unit suction line thermistor is disconnected or is shorted out. | 4X | 6X |
| 48 | Outdoor unit coil outlet (liquid line) thermistor is disconnected or is shorted out. | 4X | 8X |
| 53 | Communication failure from outdoor unit to indoor unit. | 5X | 3X |
| 60 | Outdoor unit printed circuit board (PCB) EEPROM check sum error. | 6X | — |
| 61 | Outdoor unit condenser coil temperature is too high. | 6X | 1X |
| 62 | Outdoor unit inverter compressor PCB heat sink temperature is too high. | 6X | 2X |
| 63 | Condenser coil pipe thermistor temperature is too low. | 6X | 3X |
| 65 | Heat sink thermistor has disconnected or has shorted out. | 6X | 5X |
| 67 | Outdoor brushless direct current (BLDC) fan motor lock error. | 6X | 7X |

Refer to Service Manuals posted on www.lg-dfs.com to troubleshoot individual error codes.

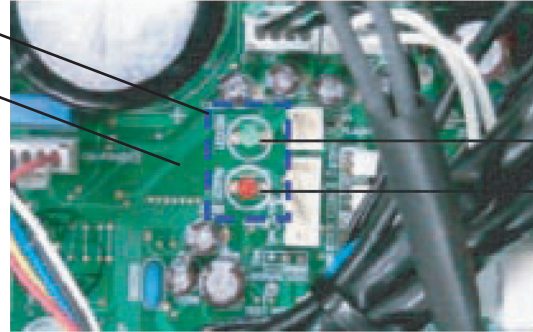
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LAU090HSV and LAU120HSV Outdoor Units

Location of PCB LEDs: To access outdoor unit PCB LEDs, remove top cover, and then remove lid to PCB box.



LED2

LED1

Defining Common Error Codes

| Error Code | Description | No. of Times Outdoor Unit PCB LEDs Blink | |
|------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------|
| | | LED1 (Red) | LED2 (Green) |
| 21 | Direct current (DC) peak error / internal power module (IPM) fault; compressor DC voltage was too high. | 2X | 1X |
| 22 | Current transformer2 (CT2) error; alternating current (AC) input is too high. | 2X | 2X |
| 23 | DC link voltage is too low. | 2X | 3X |
| 25 | Voltage to the system is too low or too high. | 2X | 5X |
| 26 | Inverter compressor has seized up or is not providing rotation. | 2X | 6X |
| 27 | Prospective short circuit (PSC) fault error; current to inverter compressor between AC and DC converter circuit is too high. | 2X | 7X |
| 28 | Inverter compressor DC voltage is too high. | 2X | 8X |
| 29 | Inverter compressor amperage is too high. | 2X | 9X |
| 31 | Current to the current transformer (CT) thermistor is too low. | 3X | 1X |
| 32 | Inverter compressor discharge pipe temperature is too high. | 3X | 2X |
| 40 | Current transformer (CT) thermistor is disconnected or is shorted out. | 4X | — |
| 41 | Inverter compressor discharge pipe thermistor is disconnected or is shorted out. | 4X | 1X |
| 44 | Outdoor unit inlet air thermistor is disconnected or is shorted out. | 4X | 4X |
| 45 | Middle thermistor of outdoor unit condenser coil is disconnected or is shorted out. | 4X | 5X |
| 46 | Outdoor unit suction line thermistor is disconnected or is shorted out. | 4X | 6X |
| 48 | Outdoor unit coil outlet (liquid line) thermistor is disconnected or is shorted out. | 4X | 8X |
| 53 | Communication failure from outdoor unit to indoor unit. | 5X | 3X |
| 60 | Outdoor unit printed circuit board (PCB) EEPROM check sum error. | 6X | — |
| 61 | Outdoor unit condenser coil temperature is too high. | 6X | 1X |
| 62 | Outdoor unit inverter compressor PCB heat sink temperature is too high. | 6X | 2X |
| 63 | Condenser coil pipe thermistor temperature is too low. | 6X | 3X |
| 65 | Heat sink thermistor has disconnected or has shorted out. | 6X | 5X |
| 67 | Outdoor brushless direct current (BLDC) fan motor lock error. | 6X | 7X |

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